

Transmission Tier 2 Capital Projects

PNM Exhibit JRM-6

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To view detailed costs for each project, click project to highlight then Press “CTRL” and left click on mouse.

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Wednesday, November 16, 2016

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PNM EXHIBIT JRM-6-Transmission Tier 2 Capital Projects

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Blanket

Project No: 22007010 Misc. Trans. Station Imp Foreca

Company: 035-PNM TNMPNM Transmission
Location: 220 Transmission

Project Information

<u>Construction Start Date</u>	1/1/2012	<u>Estimated Completion Date</u>
<u>List Interim In-Service Dates</u>		

Each WO is closed as completed, with an estimated 4 clearings per year.

Project Need Justification

This project is for capital replacements or betterments at transmission substations. This is a blanket for smaller projects (less than \$100k each) needed to support replacement and/or upgrade of station equipment which is failing, obsolete, cannot be readily repaired, or no longer supports today's requirements for reliability or safety. Typical work might include drainage improvements, grounding improvement, bushing replacements, adding or replacing surge arrestors, or switch operator ground mats. Various tasks are undertaken as needed to improve reliability, maintainability or enhance safety.

Project Alternatives

The specific work that will be performed will be determined based on the conditions of the equipment at each substation. Once needs have been identified, potential solutions are identified and evaluated. Evaluation of solutions includes long term maintainability, meeting safety or code requirements, compliance, ability to meet system performance requirements now and in the future, ability to address schedule requirements, and costs. Alternatives will be assessed on a case by case basis at the work order level.

Technical Aspects

Technical aspects are considered on a task by task basis. Representative betterment work includes enhanced grounding or better ergonomics for improved worker safety, improved surge protection for transformers by installing arresters, or reduced maintenance requirements from enhanced oil filtration on equipment such as a load tap changer.

Project Estimate Approach

Cost estimates are prepared on a per task basis. Estimates typically include major equipment prices from master agreements, and minor material and construction costs from previous similar work or competitive bids. On unique or specialty projects, vendor quotes are secured prior to authorizing work. PNM reviewed historical spend on an annual basis across the last 5 years to develop the future budget. In addition to the historical funding, PNM also looked at trends which are developing on our system, equipment which is nearing end of productive life, changes developing in compliance, environmental, and safety requirements, results from inspections and testing, all of which need to be considered when estimating budgets and implementing projects. There is a slight

uptick in anticipated spend due to 1) the age of much of the system equipment is old and there is likely to be a higher need for repairs / replacements and 2) added compliance issues, which will also result in upgrades / replacements. These estimates also include some funds to address emergent issues such as unforeseen failures.

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	22007010	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			7,500	7,500	7,500	7,500	7,500	7,500	45,000		
370-Outside Services	0			3,342	3,342	3,342	3,342	3,342	3,346	20,054		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-48	-46	-45	-139		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			272	272	272	272	272	272	1,629		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			867	867	867	867	867	868	5,204		
926-A and G Loads	0			902	902	902	902	902	902	5,413		
928-AFUDC Debt Reg	0			187	55	28	23	22	22	337		
929-AFUDC - Equity Regular	0			202	60	31	25	24	24	365		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			13,272	12,997	12,942	12,883	12,882	12,888	77,863		
825-Clearings	0			-71,794	-24,757	-15,305	-13,367	-12,979	-12,906	-151,108		
Clr Sum	0			-71,794	-24,757	-15,305	-13,367	-12,979	-12,906	-151,108		
Proj Net	0			-58,523	-11,759	-2,363	-484	-97	-18	-73,245		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	22007010	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	45,000	8,458	8,458	8,458	8,458	8,458	8,458	8,458	8,458	8,458	8,458	8,458	8,458	146,500
370-Outside Services	20,054	3,463	3,463	3,463	3,463	3,463	3,463	3,463	3,463	3,463	3,463	3,463	3,440	61,581
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-139	-58	-58	0	0	0	0	0	0	0	0	0	0	-256
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	1,629	605	605	605	605	605	605	605	605	605	605	605	605	8,886
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	5,204	324	324	324	324	324	324	324	324	324	324	324	324	9,095
926-A and G Loads	5,413	801	801	801	801	801	801	801	801	801	801	801	800	15,024
928-AFUDC Debt Reg	337	26	40	47	50	52	53	53	53	54	54	54	54	926
929-AFUDC - Equity Regular	365	34	52	61	66	68	69	70	70	70	70	70	70	1,137
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	77,863	13,653	13,684	13,759	13,767	13,771	13,773	13,774	13,775	13,775	13,775	13,775	13,750	242,893
825-Clearings	-151,108	-8,440	-11,062	-12,410	-13,089	-13,430	-13,601	-13,688	-13,731	-13,753	-13,764	-13,769	-13,760	-305,605
Clr Sum	-151,108	-8,440	-11,062	-12,410	-13,089	-13,430	-13,601	-13,688	-13,731	-13,753	-13,764	-13,769	-13,760	-305,605
Proj Net	-73,245	5,213	2,622	1,348	678	341	172	86	43	22	11	6	-10	-62,712

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project 22007010	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	146,500	8,458	8,458	8,458	8,458	8,458	8,458	8,458	8,458	8,458	8,458	8,458	8,458	247,996
370-Outside Services	61,581	3,463	3,463	3,463	3,463	3,463	3,463	3,463	3,463	3,463	3,463	3,463	3,440	103,114
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-256	0	0	0	0	0	0	0	0	0	0	0	0	-256
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	8,886	605	605	605	605	605	605	605	605	605	605	605	605	16,143
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	9,095	324	324	324	324	324	324	324	324	324	324	324	324	12,985
926-A and G Loads	15,024	801	801	801	801	801	801	801	801	801	801	801	800	24,635
928-AFUDC Debt Reg	926	54	54	54	54	54	54	54	54	54	54	54	54	1,571
929-AFUDC - Equity Regular	1,137	48	48	48	48	48	48	48	48	48	48	48	48	1,719
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	242,893	13,753	13,753	13,753	13,753	13,753	13,753	13,753	13,753	13,753	13,753	13,753	13,728	407,907
825-Clearings	-305,605	-13,756	-13,755	-13,754	-13,754	-13,753	-13,753	-13,753	-13,753	-13,753	-13,753	-13,753	-13,741	-470,638
Clr Sum	-305,605	-13,756	-13,755	-13,754	-13,754	-13,753	-13,753	-13,753	-13,753	-13,753	-13,753	-13,753	-13,741	-470,638
Proj Net	-62,712	-3	-2	-1	0	0	0	0	0	0	0	0	-13	-62,731

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Project No: 22007110 Misc. 115kv Trans Imp Forecast

Company: 035-PNM TNMPNM Transmission
Location: 220 Transmission

Project Information

<u>Construction Start Date</u>	1/1/2015	<u>Estimated Completion Date</u>
<u>List Interim In-Service Dates</u>		
<u>Project Need Justification</u>		

This project provides capital expenditures for upgrades and replacements needed to maintain safe and reliable operation of the 115kV transmission system. NMPRC Rule 17.9.560, Service Standards for Electric Utilities Rules, outlines requirements for following electrical and safety standards (NESC), minimizing interruption of service, and protective safety measures. In maintaining transmission system an upgrade may be identified that will increase system reliability and build in safer operations. By not performing replacement work, system reliability could be impacted and PNM personnel would be at an increased risk.

Project Alternatives

This Project Improvement Authorization will have several work orders written against it. Project alternatives will be evaluated at the work order level.

Technical Aspects

The funds for this project will cover the internal and external labor, equipment, and materials associated with the replacement of the equipment and small system upgrades. The material purchased for replacement or upgrades includes poles, cross timbers, line switches, insulators, anchors and conductors.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	22007110	Year	2016									
Cost Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	4,121	4,497	0	8,618		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	5,000	6,750	0	11,750		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-36	-36	-36	-108		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	324	354	0	678		
914-Pension and Benefits Load	0			0	0	0	1,234	1,346	0	2,580		
915-Injuries and Damages Load	0			0	0	0	269	293	0	562		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	181	244	0	425		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	876	1,059	0	1,935		
926-A and G Loads	0			0	0	0	759	936	0	1,695		
928-AFUDC Debt Reg	0			15	3	3	17	49	67	154		
929-AFUDC - Equity Regular	0			16	3	3	19	53	72	167		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			31	6	6	12,764	15,546	103	28,456		
825-Clearings	0			-5,274	0	0	0	0	-29,744	-35,018		
Clr Sum	0			-5,274	0	0	0	0	-29,744	-35,018		
Proj Net	0			-5,243	6	6	12,764	15,546	-29,641	-6,562		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	22007110	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	8,618	0	0	2,624	6,121	6,497	0	0	0	2,624	8,121	8,497	0	43,103
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	11,750	0	0	2,000	5,000	3,000	100	0	0	2,000	10,000	15,000	0	48,850
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-108	0	0	0	0	0	0	0	0	0	0	0	0	-108
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	678	0	0	206	480	509	0	0	0	206	637	666	0	3,382
914-Pension and Benefits Load	2,580	0	0	716	1,670	1,773	0	0	0	716	2,216	2,319	0	11,991
915-Injuries and Damages Load	562	0	0	163	381	404	0	0	0	163	505	529	0	2,707
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	425	0	0	143	358	215	7	0	0	143	715	1,073	0	3,078
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	1,935	0	0	155	371	331	3	0	0	155	584	735	0	4,270
926-A and G Loads	1,695	0	0	311	747	638	7	0	0	311	1,218	1,579	0	6,505
928-AFUDC Debt Reg	154	0	0	8	36	74	92	92	19	27	67	138	178	884
929-AFUDC - Equity Regular	167	0	0	11	48	97	120	121	24	35	87	181	234	1,125
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	28,456	0	0	6,338	15,212	13,538	328	213	43	6,381	24,150	30,715	412	125,786
825-Clearings	-35,018	0	0	0	0	0	0	-28,503	0	0	0	0	-68,827	-132,348
Clr Sum	-35,018	0	0	0	0	0	0	-28,503	0	0	0	0	-68,827	-132,348
Proj Net	-6,562	0	0	6,338	15,212	13,538	328	-28,290	43	6,381	24,150	30,715	-68,415	-6,562

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	22007110	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	43,103	0	0	2,624	6,121	6,497	0	0	0	2,624	8,121	8,497	0	77,587	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	48,850	0	0	2,000	5,000	3,000	100	0	0	2,000	10,000	15,000	0	85,950	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	-108	0	0	0	0	0	0	0	0	0	0	0	0	-108	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	3,382	0	0	206	480	509	0	0	0	206	637	666	0	6,085	
914-Pension and Benefits Load	11,991	0	0	716	1,670	1,773	0	0	0	716	2,216	2,319	0	21,402	
915-Injuries and Damages Load	2,707	0	0	163	381	404	0	0	0	163	505	529	0	4,852	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	3,078	0	0	143	358	215	7	0	0	143	715	1,073	0	5,731	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	4,270	0	0	155	371	331	3	0	0	155	584	735	0	6,605	
926-A and G Loads	6,505	0	0	311	747	638	7	0	0	311	1,218	1,579	0	11,316	
928-AFUDC Debt Reg	884	0	0	8	36	74	92	92	93	55	95	166	207	1,802	
929-AFUDC - Equity Regular	1,125	0	0	7	33	66	83	83	84	49	85	150	186	1,952	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	125,786	0	0	6,334	15,197	13,508	291	175	176	6,423	24,176	30,713	393	223,172	
825-Clearings	-132,348	0	0	0	0	0	0	0	-17,841	0	0	0	-79,545	-229,734	
Clr Sum	-132,348	0	0	0	0	0	0	0	-17,841	0	0	0	-79,545	-229,734	
Proj Net	-6,562	0	0	6,334	15,197	13,508	291	175	-17,665	6,423	24,176	30,713	-79,152	-6,562	

Project No: 65006210 SW NM Jt Transmission Project

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

<u>Construction Start Date</u>	1/1/2014	<u>Estimated Completion Date</u>
<u>List Interim In-Service Dates</u>		
<u>Project Need Justification</u>		

This project is for PNM's share of annual capital improvements or replacements associated with the Southwest NM Joint Transmission project. PNM has a contractual obligation to the operating agent EP Energy (EPE) to pay for these costs, prorated on PNM's percent ownership. Examples would include replacement of structures with taller ones to provide increased ground clearance or replacement of structurally deficient or damaged components.

Project Alternatives

While PNM has a contractual obligation, PNM also is represented with other participants on an engineering and operating committee (E&O), and as such has input regarding decisions and timing of capital expenditures. While proposed major improvements are brought before the committee, emergency replacements of failed equipment such as a broken poles or minor capital work, are handled as routine maintenance activities by the operating agent, with participants briefed after the fact. As PNM operates similar facilities, E&O committee members have an independent basis from which to evaluate the operating agent's recommendations and cost estimates.

Technical Aspects

Technical aspects are evaluated by the operating agent and submitted for consideration of the E&O committee. Types of work might include capital replacements of structurally deficient wood poles or insulators, or replacement of breakers within stations to provide increased fault duty.

Project Estimate Approach

As a member of the Southwest New Mexico Transmission Project E&O committee, PNM meets regularly with the Operating Partner, EPE. EPE provides recommendations for capital projects and related cost estimates/schedules. PNM, independently reviews both the need and the estimated cost, comparing them in internal PNM data for similar work, prior to project commitment.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65006210	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	22,940			1,000	1,000	1,000	1,000	1,000	1,000	28,940		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	469,108			45,000	0	45,000	0	45,000	0	604,108		
530-Employee Expense	168			0	0	0	0	0	0	168		
610-Expenses - General	0			0	2,000	0	0	2,000	0	4,000		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-841	-326	-326	-1,493		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	1,936			79	79	79	79	79	79	2,408		
914-Pension and Benefits Load	7,675			299	299	299	299	299	299	9,472		
915-Injuries and Damages Load	2,144			65	65	65	65	65	65	2,535		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	4,164			377	25	377	8	394	8	5,353		
928-AFUDC Debt Reg	19,560			233	290	348	404	156	213	21,204		
929-AFUDC - Equity Regular	25,514			252	314	377	437	169	231	27,295		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	553,209			47,305	4,073	47,546	1,452	48,836	1,569	703,989		
825-Clearings	-488,742			0	0	0	-135,127	0	0	-623,869		
Clr Sum	-488,742			0	0	0	-135,127	0	0	-623,869		
Proj Net	64,467			47,305	4,073	47,546	-133,675	48,836	1,569	80,120		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65006210	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	28,940	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	40,940
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	604,108	0	25,000	0	25,000	0	0	25,000	0	50,000	0	10,000	0	739,108
530-Employee Expense	168	0	0	0	0	0	0	0	0	0	0	0	0	168
610-Expenses - General	4,000	0	2,000	0	0	2,000	0	0	2,000	0	0	2,000	0	12,000
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-1,493	-419	-86	0	0	0	0	0	0	0	0	0	0	-1,998
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	2,408	78	78	78	78	78	78	78	78	78	78	78	78	3,349
914-Pension and Benefits Load	9,472	273	273	273	273	273	273	273	273	273	273	273	273	12,747
915-Injuries and Damages Load	2,535	62	62	62	62	62	62	62	62	62	62	62	62	3,282
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
926-A and G Loads	5,353	8	230	8	213	25	8	213	25	418	8	107	8	6,624
928-AFUDC Debt Reg	21,204	250	37	77	114	153	161	198	239	312	383	405	427	23,960
929-AFUDC - Equity Regular	27,295	328	49	100	149	201	211	260	313	409	503	531	560	30,909
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	703,989	1,581	28,643	1,599	26,889	3,793	1,793	27,085	3,990	52,553	2,308	14,457	2,409	871,088
825-Clearings	-623,869	-97,028	0	0	0	0	0	0	0	0	0	0	0	-720,897
Clr Sum	-623,869	-97,028	0	0	0	0	0	0	0	0	0	0	0	-720,897
Proj Net	80,120	-95,447	28,643	1,599	26,889	3,793	1,793	27,085	3,990	52,553	2,308	14,457	2,409	150,191

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65006210	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	40,940	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	52,940
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	739,108	0	25,000	0	25,000	0	0	25,000	0	50,000	0	10,000	0	874,108
530-Employee Expense	168	0	0	0	0	0	0	0	0	0	0	0	0	168
610-Expenses - General	12,000	0	2,000	0	0	2,000	0	0	2,000	0	0	2,000	0	20,000
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-1,998	0	0	0	0	0	0	0	0	0	0	0	0	-1,998
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	3,349	78	78	78	78	78	78	78	78	78	78	78	78	4,290
914-Pension and Benefits Load	12,747	273	273	273	273	273	273	273	273	273	273	273	273	16,021
915-Injuries and Damages Load	3,282	62	62	62	62	62	62	62	62	62	62	62	62	4,028
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
926-A and G Loads	6,624	8	230	8	213	25	8	213	25	418	8	107	8	7,895
928-AFUDC Debt Reg	23,960	434	37	77	114	154	161	198	238	312	383	404	426	26,898
929-AFUDC - Equity Regular	30,909	391	34	69	103	139	145	179	215	281	345	364	384	33,558
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	871,088	2,247	28,714	1,568	26,843	3,730	1,727	27,004	3,891	52,425	2,150	14,289	2,231	1,037,907
825-Clearings	-720,897	-167,764	0	0	0	0	0	0	0	0	0	0	0	-888,661
Clr Sum	-720,897	-167,764	0	0	0	0	0	0	0	0	0	0	0	-888,661
Proj Net	150,191	-165,517	28,714	1,568	26,843	3,730	1,727	27,004	3,891	52,425	2,150	14,289	2,231	149,246

Project No: 65034012 Tech Serv Transm Tools

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date
List Interim In-Service Dates

Quarterly clearings will occur on the following date: 03-15, 06-15, 09-15, 12-15.

Project Need Justification

This project is for the purchase of transmission tools and equipment. The new tools and equipment replaces defective equipment. This enables the Transmission areas to improve productivity and ensure the safety of employees.

Project Alternatives

There are no alternative to this project. By not purchasing the equipment, PNM employees' work will be negatively impacted and increase costs as time required to perform work will take longer. Replacing the defective tools and equipment is the appropriate option as it provides the Transmission area employees with properly functioning tools and equipment to perform their work.

Technical Aspects

The tools and equipment that are to be purchased include, but are not limited to, a magnetic drill press, hydraulic paving breaker, streamline robo crimp, cordless phasing sets, cable cutter, recording devices for power/voltage monitoring and surveying equipment for engineering of power line construction.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65034012	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			15,000	39,484	50,000	50,000	39,252	10,000	203,736		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-594	-228	-235	-1,056		
426-Capitalized Interest	6,428			257	159	355	595	228	351	8,373		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	6,706			543	1,429	1,810	1,810	1,421	362	14,081		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	88,992			1,248	3,285	4,160	4,160	3,266	832	105,943		
928-AFUDC Debt Reg	197			0	0	0	0	0	0	197		
929-AFUDC - Equity Regular	220			0	0	0	0	0	0	220		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	102,543			17,048	44,357	56,325	55,971	43,939	11,310	331,493		
825-Clearings	-1,121,263			-52,677	0	0	-135,858	0	-89,213	-1,399,011		
Clr Sum	-1,121,263			-52,677	0	0	-135,858	0	-89,213	-1,399,011		
Proj Net	-1,018,721			-35,628	44,357	56,325	-79,887	43,939	-77,903	-1,067,518		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65034012	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	203,736	0	70,000	0	0	4,000	60,000	0	0	0	60,000	40,000	0	437,736
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-1,056	0	0	0	0	0	0	0	0	0	0	0	0	-1,056
426-Capitalized Interest	8,373	0	153	341	333	79	227	380	77	75	225	167	273	10,703
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	14,081	0	5,005	0	0	286	4,290	0	0	0	4,290	2,860	0	30,812
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
926-A and G Loads	105,943	0	4,704	0	0	269	4,032	0	0	0	4,032	2,688	0	121,668
928-AFUDC Debt Reg	197	0	0	0	0	0	0	0	0	0	0	0	0	197
929-AFUDC - Equity Regular	220	0	0	0	0	0	0	0	0	0	0	0	0	220
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	331,493	0	79,862	341	333	4,634	68,549	380	77	75	68,547	45,715	273	600,279
825-Clearings	-1,399,011	0	0	0	-64,429	0	0	-71,736	0	0	-69,306	0	-63,314	-1,667,797
Clr Sum	-1,399,011	0	0	0	-64,429	0	0	-71,736	0	0	-69,306	0	-63,314	-1,667,797
Proj Net	-1,067,518	0	79,862	341	-64,096	4,634	68,549	-71,356	77	75	-759	45,715	-63,042	-1,067,518

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65034012	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	437,736	0	44,516	0	0	0	39,484	0	0	0	39,252	0	0	560,988
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-1,056	0	0	0	0	0	0	0	0	0	0	0	0	-1,056
	426-Capitalized Interest	10,703	0	100	221	216	41	119	207	40	39	120	39	40	11,885
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	30,812	0	3,183	0	0	0	2,823	0	0	0	2,807	0	0	39,625
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	121,668	0	2,991	0	0	0	2,653	0	0	0	2,638	0	0	129,950
	928-AFUDC Debt Reg	197	0	0	0	0	0	0	0	0	0	0	0	0	197
	929-AFUDC - Equity Regular	220	0	0	0	0	0	0	0	0	0	0	0	0	220
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMIR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	600,279	0	50,790	221	216	41	45,079	207	40	39	44,816	39	40	741,808
	825-Clearings	-1,667,797	0	0	0	-40,982	0	0	-44,458	0	0	-44,808	0	0	-1,798,045
	Clr Sum	-1,667,797	0	0	0	-40,982	0	0	-44,458	0	0	-44,808	0	0	-1,798,045
Proj Net		-1,067,518	0	50,790	221	-40,766	41	45,079	-44,251	40	39	9	39	40	-1,056,237

Specifics

Project No: 22007214 69kV Breaker Replacements

Company: 035-PNM TNMPNM Transmission
Location: 220 Transmission

Project Information

Construction Start Date 8/11/2014 Estimated Completion Date 11/30/2016

List Interim In-Service Dates

NA

Project Need Justification

This project involves replacing two aging circuit breakers at the MD-1 and Turquoise stations, in Grant County, NM (near Silver City). These breakers were manufactured in 1981 and 1982 and are nearing the end of their useful life. The breakers have been performing poorly for some time and have needed extensive (often times unplanned) maintenance. Due to their age, PNM has found it difficult to secure spare parts as many of the regularly needed mechanisms within the breakers are functionally obsolete. Rather than potentially experiencing a breaker failure during equipment operation, it is preferable to replace these breakers with more modern technology, including breaker condition monitoring systems to ensure greater reliability going forward. The funds cover the material costs of the breaker, other equipment includes conduit, control switches, control cable, and grounded platforms for safe operation and maintenance, internal labor for the installation, as well as internal and external engineering work and construction management.

Project Alternatives

As an alternative, PNM could do nothing and continue to utilize the existing breakers. Following this path will increase the risk of failure as the breakers continue to age, as well as increase the time and cost of locating parts that are difficult to acquire, and negatively impact system reliability. The chosen alternative to replace the breakers prior to failure fully addresses the potential risks.

Technical Aspects

Outages are required to install these breakers. The installation work at MD-1 will occur when the capacitor banks are not utilized. The work at Turquoise will be performed when the 69kV LC transmission line can be taken out of service. The breaker at MD-1 allows for switching in the capacitor banks at that station. The breaker at Turquoise allows for the line connection between Turquoise and Silver City stations to be sectionalized (broken). Other equipment includes conduit, control switches, control cable, and grounded platforms for safe operation and maintenance.

Project Estimate Approach

This project was estimated using the standard procedure used by System Engineering. Basic material is estimated using actual costs of past projects. These figures are updated in the estimating software periodically. For the major equipment (circuit breakers) we contacted our alliance vendors (HVB and Siemens respectively) and requested information regarding the costs and schedules of these major items. The breaker costs are estimated at approximately 25% of the total cost to install. Engineering costs are estimated at approximately 25% of the cost to install. Labor and contractor estimates were created from past breaker

replacement projects that are similar in nature, and account for approximately 50% of the cost to install. For this project the North, Person, and Reeves 115kV breaker replacements were referenced.

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	22007214	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General		0		0	0	34,500	12,000	0	0	46,500		
120-Overtime-General		0		0	0	0	0	0	0	0		
350-Material Issues-Major		0		0	0	0	0	0	0	0		
370-Outside Services		0		0	0	0	10,000	0	0	10,000		
374-Outside Svcs Legal		0		0	0	0	0	0	0	0		
377-Outside Services-Temp Labor		0		0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor		0		0	0	0	0	0	0	0		
530-Employee Expense		0		0	0	0	0	0	0	0		
610-Expenses - General		0		0	0	0	0	0	0	0		
805-Land and Land Rights		0		0	0	0	0	0	0	0		
807-Non Refundable Contribution		0		0	0	0	0	0	0	0		
829-Construction Adjustment		0		0	0	0	-1,919	-1,919	0	-3,838		
426-Capitalized Interest		0		0	0	0	0	0	0	0		
908-Luna AR - Labor		0		0	0	0	0	0	0	0		
909-Luna AR - Other		0		0	0	0	0	0	0	0		
913-Payroll Taxes Load		0		0	0	2,715	944	0	0	3,660		
914-Pension and Benefits Load		0		0	0	10,329	3,593	0	0	13,922		
915-Injuries and Damages Load		0		0	0	2,249	782	0	0	3,032		
918-San Juan AR-Labor		0		0	0	0	0	0	0	0		
921-Stores / Purchasing Load		0		0	0	0	0	0	0	0		
922-Minor Material Load		0		0	0	0	0	0	0	0		
925-E and S Loads		0		0	0	3,984	2,186	0	0	6,169		
926-A and G Loads		0		0	0	2,870	1,830	0	0	4,701		
928-AFUDC Debt Reg		0		750	753	820	921	957	0	4,201		
929-AFUDC - Equity Regular		0		812	816	888	998	1,036	0	4,549		
937-San Juan AR - Other		0		0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V		0		0	0	0	0	0	0	0		
Cost Sum		0		1,561	1,569	58,357	31,336	74	0	92,896		
825-Clearings		0		0	0	0	0	-425,427	0	-425,427		
Clr Sum		0		0	0	0	0	-425,427	0	-425,427		
Proj Net		0		1,561	1,569	58,357	31,336	-425,353	0	-332,531		

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	22007214	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	46,500	0	0	0	0	0	0	0	0	0	0	0	0	46,500
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	10,000	0	0	0	0	0	0	0	0	0	0	0	0	10,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-3,838	0	0	0	0	0	0	0	0	0	0	0	0	-3,838
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	3,660	0	0	0	0	0	0	0	0	0	0	0	0	3,660
	914-Pension and Benefits Load	13,922	0	0	0	0	0	0	0	0	0	0	0	0	13,922
	915-Injuries and Damages Load	3,032	0	0	0	0	0	0	0	0	0	0	0	0	3,032
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	6,169	0	0	0	0	0	0	0	0	0	0	0	0	6,169
	926-A and G Loads	4,701	0	0	0	0	0	0	0	0	0	0	0	0	4,701
	928-AFUDC Debt Reg	4,201	0	0	0	0	0	0	0	0	0	0	0	0	4,201
	929-AFUDC - Equity Regular	4,549	0	0	0	0	0	0	0	0	0	0	0	0	4,549
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	92,896	0	0	0	0	0	0	0	0	0	0	0	0	92,896
	825-Clearings	-425,427	0	0	0	0	0	0	0	0	0	0	0	0	-425,427
	Clr Sum	-425,427	0	0	0	0	0	0	0	0	0	0	0	0	-425,427
Proj Net		-332,531	0	0	0	0	0	0	0	0	0	0	0	0	-332,531

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	22007214	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	46,500	0	0	0	0	0	0	0	0	0	0	0	0	46,500
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	10,000	0	0	0	0	0	0	0	0	0	0	0	0	10,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-3,838	0	0	0	0	0	0	0	0	0	0	0	0	-3,838
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	3,660	0	0	0	0	0	0	0	0	0	0	0	0	3,660
	914-Pension and Benefits Load	13,922	0	0	0	0	0	0	0	0	0	0	0	0	13,922
	915-Injuries and Damages Load	3,032	0	0	0	0	0	0	0	0	0	0	0	0	3,032
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	6,169	0	0	0	0	0	0	0	0	0	0	0	0	6,169
	926-A and G Loads	4,701	0	0	0	0	0	0	0	0	0	0	0	0	4,701
	928-AFUDC Debt Reg	4,201	0	0	0	0	0	0	0	0	0	0	0	0	4,201
	929-AFUDC - Equity Regular	4,549	0	0	0	0	0	0	0	0	0	0	0	0	4,549
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	92,896	0	0	0	0	0	0	0	0	0	0	0	0	92,896
	825-Clearings	-425,427	0	0	0	0	0	0	0	0	0	0	0	0	-425,427
	Clr Sum	-425,427	0	0	0	0	0	0	0	0	0	0	0	0	-425,427
	Proj Net	-332,531	0	0	0	0	0	0	0	0	0	0	0	0	-332,531

Project No: 22007308 HVDC Converter Station-Eddy Cou

Company: 035-PNM TNMPNM Transmission
Location: 220 Transmission

Project Information

Construction Start Date 1/1/2010 Estimated Completion Date

List Interim In-Service Dates

Projects are cleared as they are invoiced to PNM.

Project Need Justification

This project addresses PNM's share of miscellaneous capital improvements and replacements that are associated with joint transmission project. PNM is owner of a significant portion of the Eddy County HVDC (high voltage direct current) converter and the Amrad-Eddy 345kV transmission line. El Paso Electric (EPE) as the operating partner is responsible for managing the project including the identification and development of needed capital improvements. Justification for these individual improvements is based on an assessment determining the need to replace critical parts nearing end of life, need to meet updated compliance requirements, useful-life extension, and the need to maintain critical spare equipment.

Project Alternatives

Capital Projects are proposed by the operating agent and must be authorized by Engineering and Operations (E&O) committee which is comprised of representatives from all facility owners. The E&O committee reviews the alternatives presented by EPE and weighs the advantages of the improvements in comparison to the total owning costs. There are no other alternatives for this project, as this project is contractually obligated.

Technical Aspects

This project, a back to back AC/DC/AC converter, allows interconnection between the Western Electric Coordinating Council and the Electric Reliability Council of Texas (ERCOT). The 345kV transmission line provides the connection from the New Mexico 345kV transmission grid to the converter station.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	22007308	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			162	162	162	552	573	573	2,184		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			3,000	4,000	5,000	5,000	0	12,000	29,000		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-1,078	-1,078	-1,078	-3,233		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			253	333	413	444	46	1,006	2,495		
926-A and G Loads	0			263	346	429	462	48	1,046	2,595		
928-AFUDC Debt Reg	0			476	488	502	517	525	543	3,052		
929-AFUDC - Equity Regular	0			515	528	544	560	569	588	3,305		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			4,669	5,857	7,051	6,458	683	14,678	39,396		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			4,669	5,857	7,051	6,458	683	14,678	39,396		

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	22007308	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
370-Outside Services	2,184	177	266	266	887	741	383	208	208	208	709	736	736	7,709
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	29,000	1,026	1,538	2,564	2,564	1,538	1,026	3,077	4,103	5,128	5,128	0	12,308	69,000
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-3,233	-1,382	-1,382	0	0	0	0	0	0	0	0	0	0	-5,998
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	2,495	33	49	77	94	62	38	89	117	145	159	20	355	3,733
926-A and G Loads	2,595	81	121	190	232	153	95	221	290	359	392	49	877	5,654
928-AFUDC Debt Reg	3,052	648	653	333	344	354	361	187	199	214	120	130	151	6,746
929-AFUDC - Equity Regular	3,305	850	856	436	451	464	474	246	262	281	157	171	197	8,151
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	39,396	1,433	2,101	3,866	4,571	3,312	2,377	4,028	5,179	6,335	6,665	1,106	14,623	94,995
825-Clearings	0	0	-126,116	0	0	0	-70,122	0	0	-42,832	0	0	-32,614	-271,684
Clr Sum	0	0	-126,116	0	0	0	-70,122	0	0	-42,832	0	0	-32,614	-271,684
Proj Net	39,396	1,433	-124,015	3,866	4,571	3,312	-67,745	4,028	5,179	-36,497	6,665	1,106	-17,990	-176,689

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	22007308	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	7,709	0	0	0	0	0	0	0	0	0	0	0	0	7,709	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	69,000	0	10,000	0	0	0	12,000	0	0	15,000	0	0	13,000	119,000	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	-5,998	0	0	0	0	0	0	0	0	0	0	0	0	-5,998	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	3,733	0	272	0	0	0	326	0	0	408	0	0	354	5,093	
926-A and G Loads	5,654	0	672	0	0	0	806	0	0	1,008	0	0	874	9,014	
928-AFUDC Debt Reg	6,746	85	100	115	115	116	134	151	76	98	120	120	140	8,116	
929-AFUDC - Equity Regular	8,151	77	90	103	104	104	120	136	69	88	108	109	126	9,385	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	94,995	162	11,134	218	219	220	13,387	288	145	16,602	228	229	14,493	152,319	
825-Clearings	-271,684	0	0	0	0	0	0	-29,121	0	0	0	0	-60,817	-361,621	
Clr Sum	-271,684	0	0	0	0	0	0	-29,121	0	0	0	0	-60,817	-361,621	
Proj Net	-176,689	162	11,134	218	219	220	13,387	-28,833	145	16,602	228	229	-46,324	-209,303	

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Project No: 22007314 Amrad-Eddy 345kv line rebuild

Company: 035-PNM TNMPNM Transmission
Location: 220 Transmission

Project Information

Construction Start Date 9/1/2014 Estimated Completion Date 5/31/2016

List Interim In-Service Dates

Project Need Justification

PNM is a participant in the Eastern NM Transmission project which includes the Amrad-Eddy 345kv line. This project involves PNM's share of the replacement of approximately 16.8 miles of the existing Amrad-Eddy 345kv line which failed during successive ice storms. Extreme ice buildup on the conductor created increased conductor tension, which lead to the failure of connecting hardware at a deadend structure. Once the deadend failed, a cascading failure involving approximately 105 tangent structures (which have limited longitudinal capacity) occurred due to non-balanced longitudinal conductor loads.

Project Alternatives

This line is the sole link to the Eddy County Converter station, which is a back to back AC/DC/AC connection between the WECC and SWPP. There is no alternative to replacing this line. Design alternatives evaluated included the following:1) Rebuilding with the existing design (wood H-Frames and T-2 conductors)This option was eliminated because replacing the structure with the same design would continue to make it vulnerable to failures during similar weather events in the future. 2) Rebuilding with steel H-Frames, conventional Aluminum-Conductor Steel Reinforced (ACSR) conductor, but increasing the spacing between the steel frames to meet the optimum locations for steel design. Though this option uses an ACSR conductor, which would not be as vulnerable to the performance problems associated with the original T-2 conductor, and using steel H-Frame structures, which have an inherently greater span capability than wood pole structures (which could reduce the number of new structures installed and reduce the construction cost and time), it was not pursued because rebuilding the steel frames in new locations would cause permitting issues with the Bureau of Land Management (BLM) and would be difficult given the terrain features.3) Rebuilding with steel H-Frames and conventional ACSR conductors, new steel frames would be located in the same location as the original wood structure locations. This option was selected because it benefits from using the ACSR conductors, and installing the steel frame structures in the same location as the original wood structures would not cause any BLM permitting issues or terrain-induced construction problems.

Technical Aspects

The failed wood H-frame structures will be replaced with steel H-frame structures and selected deadend structures; and the existing T-2 style conductor will be replaced with conventional ACSR conductor located at the optimum locations.

Project Estimate Approach

The Operating Partner, El Paso Electric (ELE), secured competitive pricing for the structures, conductor, construction, and minor materials. Additionally, permanent right-of-way on federal land was secured for long term access rights. Costs for these items were shared and reviewed by PNM prior to commitment

to the project. Total Project Cost Breakdown:-53% Major Material (structures/conductor/insulators and attachment hardware)-40% Construction Contract Labor-6% Land Rights/Permits-1% Internal EPE labor. The project costs are 100% PNM costs and are based on the PNM's ownership share in the transmission line.

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	22007314	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			911	0	0	0	0	0	911		
929-AFUDC - Equity Regular	0			986	0	0	0	0	0	986		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			1,897	0	0	0	0	0	1,897		
825-Clearings	0			-405,888	0	0	0	0	0	-405,888		
Clr Sum	0			-405,888	0	0	0	0	0	-405,888		
Proj Net	0			-403,991	0	0	0	0	0	-403,991		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	22007314	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	928-AFUDC Debt Reg	911	0	0	0	0	0	0	0	0	0	0	0	0	911
	929-AFUDC - Equity Regular	986	0	0	0	0	0	0	0	0	0	0	0	0	986
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	1,897	0	0	0	0	0	0	0	0	0	0	0	0	1,897
	825-Clearings	-405,888	0	0	0	0	0	0	0	0	0	0	0	0	-405,888
	Clr Sum	-405,888	0	0	0	0	0	0	0	0	0	0	0	0	-405,888
	Proj Net	-403,991	0	0	0	0	0	0	0	0	0	0	0	0	-403,991

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	22007314	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
928-AFUDC Debt Reg	911	0	0	0	0	0	0	0	0	0	0	0	0	0	911
929-AFUDC - Equity Regular	986	0	0	0	0	0	0	0	0	0	0	0	0	0	986
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	1,897	0	0	0	0	0	0	0	0	0	0	0	0	0	1,897
825-Clearings	-405,888	0	0	0	0	0	0	0	0	0	0	0	0	0	-405,888
Clr Sum	-405,888	0	0	0	0	0	0	0	0	0	0	0	0	0	-405,888
Proj Net	-403,991	0	0	0	0	0	0	0	0	0	0	0	0	0	-403,991

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Project No: 22007414 Southern Microwave Comm Upgrade Co 35

Company: 035-PNM TNMPNM Transmission
Location: 220 Transmission

Project Information

Construction Start Date 4/6/2015 Estimated Completion Date 11/30/2016

List Interim In-Service Dates

Each WO is closed as completed, with an estimated 4 clearings per year.

Project Need Justification

This project provides enhancements and upgrades to the existing microwave communications system in Southern New Mexico. This is a blanket improvement authorization for capital replacements or betterments to the communications network in support of sub/switching stations. Typical work might include replacing radios or fiber systems that are no longer supported by the manufacturer or in which replacements are no longer available. These enhancements and upgrades to the radio system and hardware are needed to avoid potential failure.

Project Alternatives

Alternatives will be considered on a task-by-task basis for all capital replacements or betterments. Alternatives will be evaluated based on factors including operating requirements, cost, efficacy, and ability to meet time constraints for the need.

Technical Aspects

Technical aspects are considered on a task by task basis, but might include improvements to communication network reliability, ensuring compliance with NERC requirements, and including new technologies into the communication platform

Project Estimate Approach

Cost estimates are prepared on a per task basis. Estimates typically include major equipment prices from vendor provided quotations, and minor material and construction costs from previous similar work or competitive bids.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	22007414	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			2,000	0	0	0	0	0	2,000		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			5,000	0	0	0	0	0	5,000		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			157	0	0	0	0	0	157		
914-Pension and Benefits Load	0			599	0	0	0	0	0	599		
915-Injuries and Damages Load	0			130	0	0	0	0	0	130		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			631	0	0	0	0	0	631		
926-A and G Loads	0			582	0	0	0	0	0	582		
928-AFUDC Debt Reg	0			565	578	581	0	0	0	1,723		
929-AFUDC - Equity Regular	0			612	626	629	0	0	0	1,866		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			10,277	1,204	1,209	0	0	0	12,690		
825-Clearings	0			0	0	-258,788	0	0	0	-258,788		
Clr Sum	0			0	0	-258,788	0	0	0	-258,788		
Proj Net	0			10,277	1,204	-257,579	0	0	0	-246,098		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	22007414	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	2,000	0	0	0	0	0	0	0	0	0	0	0	0	2,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	5,000	0	0	0	0	0	0	0	0	0	0	0	0	5,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	157	0	0	0	0	0	0	0	0	0	0	0	0	157
	914-Pension and Benefits Load	599	0	0	0	0	0	0	0	0	0	0	0	0	599
	915-Injuries and Damages Load	130	0	0	0	0	0	0	0	0	0	0	0	0	130
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	631	0	0	0	0	0	0	0	0	0	0	0	0	631
	926-A and G Loads	582	0	0	0	0	0	0	0	0	0	0	0	0	582
	928-AFUDC Debt Reg	1,723	0	0	0	0	0	0	0	0	0	0	0	0	1,723
	929-AFUDC - Equity Regular	1,866	0	0	0	0	0	0	0	0	0	0	0	0	1,866
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	12,690	0	0	0	0	0	0	0	0	0	0	0	0	12,690
	825-Clearings	-258,788	0	0	0	0	0	0	0	0	0	0	0	0	-258,788
	Clr Sum	-258,788	0	0	0	0	0	0	0	0	0	0	0	0	-258,788
	Proj Net	-246,098	0	0	0	0	0	0	0	0	0	0	0	0	-246,098

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	22007414	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	2,000	0	0	0	0	0	0	0	0	0	0	0	0	2,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	5,000	0	0	0	0	0	0	0	0	0	0	0	0	5,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	157	0	0	0	0	0	0	0	0	0	0	0	0	157
	914-Pension and Benefits Load	599	0	0	0	0	0	0	0	0	0	0	0	0	599
	915-Injuries and Damages Load	130	0	0	0	0	0	0	0	0	0	0	0	0	130
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	631	0	0	0	0	0	0	0	0	0	0	0	0	631
	926-A and G Loads	582	0	0	0	0	0	0	0	0	0	0	0	0	582
	928-AFUDC Debt Reg	1,723	0	0	0	0	0	0	0	0	0	0	0	0	1,723
	929-AFUDC - Equity Regular	1,866	0	0	0	0	0	0	0	0	0	0	0	0	1,866
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	12,690	0	0	0	0	0	0	0	0	0	0	0	0	12,690
	825-Clearings	-258,788	0	0	0	0	0	0	0	0	0	0	0	0	-258,788
	Clr Sum	-258,788	0	0	0	0	0	0	0	0	0	0	0	0	-258,788
	Proj Net	-246,098	0	0	0	0	0	0	0	0	0	0	0	0	-246,098

Project No: 22007415 Turquoise Hidalgo Relay Upgrades

Company: 035-PNM TNMPNM Transmission

Location: 220 Transmission

Project Information

Construction Start Date 8/1/2015 Estimated Completion Date 12/31/2016

List Interim In-Service Dates

In-service dates and clearings will occur as soon as work at an individual relays are installed.

Project Need Justification

This project involves physically tracing panel and equipment wiring documents to recreate existing Protection and Controls (P&C) wiring/schematic diagrams because the existing drawings are either missing, incorrect, or out of date. The documents and drawings are needed by relay technicians to perform NERC required maintenance (failure to perform this maintenance would result in PNM being out of NERC compliance and which could result in fines. The engineer upgrading the relays needs accurate drawings to mark any wiring changes that need to be executed by the relay technicians. Without accurate drawings, the engineer would not be able to efficiently provide the relay techs the correct changes. Failure to provide the correct changes could create dangerous wiring situations and endanger the safety of PNM employees. This project also involves replacing aging electromechanical relays with the new microprocessor relays to improve the reliability of PNM's electric grid. The current electromechanical relays are at risk of malfunction due to their constant need for maintenance. These aged relays have caused slower inertia in the mechanical operation of the moving components, which further creates reliability issues. Some other benefits of using microprocessor relays versus electromechanical relays include: -Improved performance (sensitivity and speed)- Increased reliability (security, selectivity, and dependability) and availability-Improved efficiency and economics-Improved safety-Increased compatibility

Project Alternatives

In terms of updating the documents, the only other alternative is to continue to use the existing documents. As outlined in the Project Need Justification section, this is not a true alternative; therefore the drawings will be updated. For the relay replacement, the only other alternative is to keep the old, high maintenance electromechanical relays and deal with the potential malfunctioning and failure of these relays.

Technical Aspects

For the drawings, retrace/recreate the existing drawings. In terms of the relays, the work includes replacing the existing electromechanical relays with the new microprocessor relays.

Project Estimate Approach

The following steps were taken when developing the Project Estimate Approach: 1)Obtained panel quote from multiple vendors 2) Developed Protection and Control construction hours estimates with the Relay Group 3) Developed Protection and Control engineering hours estimates based on past experience 4) Developed Communication engineering hours estimates with Communication Engineering

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	22007415	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	28,072	28,072	28,072	84,216		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	2,246	2,246	2,246	6,737		
926-A and G Loads	0			0	0	0	2,336	2,336	2,336	7,007		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	32,653	32,653	32,653	97,960		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	32,653	32,653	32,653	97,960		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	22007415	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	84,216	0	0	0	0	0	0	0	0	0	0	0	0	84,216
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	6,737	0	0	0	0	0	0	0	0	0	0	0	0	6,737
	926-A and G Loads	7,007	0	0	0	0	0	0	0	0	0	0	0	0	7,007
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	97,960	0	0	0	0	0	0	0	0	0	0	0	0	97,960
	825-Clearings	0	0	0	-360,136	0	0	0	0	0	0	0	0	0	-360,136
	Clr Sum	0	0	0	-360,136	0	0	0	0	0	0	0	0	0	-360,136
	Proj Net	97,960	0	0	-360,136	0	0	0	0	0	0	0	0	0	-262,176

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	22007415	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	84,216	0	0	0	0	0	0	0	0	0	0	0	0	84,216
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	6,737	0	0	0	0	0	0	0	0	0	0	0	0	6,737
	926-A and G Loads	7,007	0	0	0	0	0	0	0	0	0	0	0	0	7,007
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	97,960	0	0	0	0	0	0	0	0	0	0	0	0	97,960
	825-Clearings	-360,136	0	0	0	0	0	0	0	0	0	0	0	0	-360,136
	Clr Sum	-360,136	0	0	0	0	0	0	0	0	0	0	0	0	-360,136
	Proj Net	-262,176	0	0	0	0	0	0	0	0	0	0	0	0	-262,176

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Project No: 22007814 Fiber Buildout OPGW ADSS Co 35

Company: 035-PNM TNMPNM Transmission
Location: 220 Transmission

Project Information

Construction Start Date 5/2/2016 Estimated Completion Date 1/31/2017

List Interim In-Service Dates

Project Need Justification

Complete fiber buildout from existing comm paths (PNM and 3rd party) to provide looped fiber communications system to major facilities and extend PNM's operational SONET Network. These are referred to as "last mile" projects. Reconductor and/or replace existing OPGW that is functionally obsolete either due to capacity or older technology that can no longer be maintained. Install OPGW on transmission lines that help to complete the fiber loop described above. This integrated fiber communications is needed to meet today's system operational needs as well as provide capacity for the future. Such future needs include increased facility security and the increased use of automation. The infrastructure projects requested in this CDAP are a part of PNM's overall master fiber communications plan.

Project Alternatives

The project alternative would be to stay on the existing network. This network is low capacity and not prepared to support the new high bandwidths required in support of NERC SIP. The new network also has a ringed architecture giving a redundant path for each switching station. The old path was on a single threaded connection which would result in frequent outages.

Technical Aspects

Complete fiber connection from Silver City Office to North Silver Complete fiber connection between CenturyLink Hand Hole and Alamogordo SubComplete fiber connection for Alamogordo backup from Tukumcari sub to level III point of presence

Project Estimate Approach

Fixed Price from Contractor

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	22007814	Year	2016									
Cost Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	22007814	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	928-AFUDC Debt Reg	0	502	0	0	0	0	0	0	0	0	0	0	0	502
	929-AFUDC - Equity Regular	0	659	0	0	0	0	0	0	0	0	0	0	0	659
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	1,161	0	0	0	0	0	0	0	0	0	0	0	1,161
	825-Clearings	0	-193,858	0	0	0	0	0	0	0	0	0	0	0	-193,858
	Clr Sum	0	-193,858	0	0	0	0	0	0	0	0	0	0	0	-193,858
	Proj Net	0	-192,697	0	0	0	0	0	0	0	0	0	0	0	-192,697

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	22007814	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	928-AFUDC Debt Reg	502	0	0	0	0	0	0	0	0	0	0	0	0	502
	929-AFUDC - Equity Regular	659	0	0	0	0	0	0	0	0	0	0	0	0	659
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	1,161	0	0	0	0	0	0	0	0	0	0	0	0	1,161
	825-Clearings	-193,858	0	0	0	0	0	0	0	0	0	0	0	0	-193,858
	Clr Sum	-193,858	0	0	0	0	0	0	0	0	0	0	0	0	-193,858
	Proj Net	-192,697	0	0	0	0	0	0	0	0	0	0	0	0	-192,697

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Project No: 64807013 Station Hardening Pilot Trans

Company: 002-Transmission Services
Location: 648 Transmission

Project Information

Construction Start Date 8/1/2013 Estimated Completion Date 4/30/2016

List Interim In-Service Dates

Project Need Justification

Over the last few years, several PNM stations have experienced theft or other vandalism, some on multiple occasions. This project provides various means to detect and/or deter metal theft and other forms of equipment vandalism at existing stations. This is a pilot project to evaluate various techniques and determine costs prior to recommending a system-wide solution. Techniques to be evaluated include additional signage, vegetation management/additions, ground monitoring equipment installation, copper concealment, increased access notifications, enhanced fencing/razor wire and enhanced monitoring/response. PNM has experienced a marked increase in copper theft, particularly down leads from energized equipment to the station ground grid. Over twenty stations have been vandalized. The copper ground grid is a critical part of the station design and provides safety to PNM personnel and also enables equipment to function properly. When the grounding system is compromised, equipment may need to be taken out-of-service. This can affect ability to transmit power as well as impacts service to customers. Additional crew time is required to de-energize substations and perform field switching if the theft is significant enough. This additional work impacts labor budgets and scheduled work. The cost to repair stolen copper grounds is significant, and more importantly the work places PNM personnel, the general public and electrical service at risk. The thefts are also likely being performed by individuals unfamiliar with the function of an electrical substation and unaware of the risks posed by being near energized equipment which exposes them to potentially deadly consequences or severe injury.

Project Alternatives

The only other option to evaluating options to deter theft/vandalism is to do nothing. Given the impact and costs these crimes have on the PNM system, this is not a viable alternative. Therefore, PNM has moved forward with a pilot to identify ways to deter these crimes. Specific solutions are identified and evaluated prior to installation (to evaluate cost, risk, potential impact on operations, etc.) and after installation (to evaluate deterrence, impact on operations, etc.) Evaluations of lessons learned and applicability have been determined and are now being applied to the NERC-CIP projects around station security. Designs, Engineering, Construction, and commissioning have been integrated into the existing PNM project management stages for review. These evaluations and reviews will continue to help assess alternatives to deter future cases of theft and vandalism.

Technical Aspects

Technology implemented at the station(s) includes targeting detection, deterring, and defending. Detection solutions are by Thermal Camera's with analytics functionality for real time monitoring from the PNM Operations Center (SOC). Deterring solutions implemented are audible alarms and smart lighting upon a breach to the system detected by the thermal cameras. Defending solutions implemented by real time monitoring and response plans by PNM Security.

Project Estimate Approach

Damage/theft at each switchyard is evaluated and used to determine potential mitigation actions. The identified actions are then used to develop an estimated cost of materials and with that information the labor cost estimate was created to reflect the scope of the project. Bids are then solicited from known utility contractors. Historical pricing from prior projects is used to evaluate, and to the extent possible, improve pricing on current projects. The equipment cost of each project came out to 40-50% of the total cost. Labor, Engineering, and Commissioning services total the remaining cost. Of the 50-60% of Labor, engineering, and commissioning, Internal Labor is estimated at 20-30% and 70-80% can be outsourced. Contracts are setup for a warranty and services period for outsourcing maintenance and support. Given the approach of the pilot was to measure cost/value of implementing future systems, the additional cost beyond the equipment can be reduced moving forward.

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	64807013	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	142,602			0	0	0	0	0	0	142,602		
120-Overtime-General	21,758			0	0	0	0	0	0	21,758		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	1,790,167			0	0	0	0	0	0	1,790,167		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	385			0	0	0	0	0	0	385		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	16,787			0	0	0	0	0	0	16,787		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	12,486			0	0	0	0	0	0	12,486		
914-Pension and Benefits Load	47,307			0	0	0	0	0	0	47,307		
915-Injuries and Damages Load	12,454			0	0	0	0	0	0	12,454		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	14,035			0	0	0	0	0	0	14,035		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	129,763			0	0	0	0	0	0	129,763		
926-A and G Loads	142,081			0	0	0	0	0	0	142,081		
928-AFUDC Debt Reg	60,176			668	0	0	0	0	0	60,844		
929-AFUDC - Equity Regular	80,543			724	0	0	0	0	0	81,266		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	2,470,545			1,392	0	0	0	0	0	2,471,936		
825-Clearings	-2,381,750			-297,819	0	0	0	0	0	-2,679,569		
Clr Sum	-2,381,750			-297,819	0	0	0	0	0	-2,679,569		
Proj Net	88,794			-296,427	0	0	0	0	0	-207,633		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	64807013	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	142,602	0	0	0	0	0	0	0	0	0	0	0	0	142,602
	120-Overtime-General	21,758	0	0	0	0	0	0	0	0	0	0	0	0	21,758
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	1,790,167	0	0	0	0	0	0	0	0	0	0	0	0	1,790,167
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	385	0	0	0	0	0	0	0	0	0	0	0	0	385
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	16,787	0	0	0	0	0	0	0	0	0	0	0	0	16,787
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	12,486	0	0	0	0	0	0	0	0	0	0	0	0	12,486
	914-Pension and Benefits Load	47,307	0	0	0	0	0	0	0	0	0	0	0	0	47,307
	915-Injuries and Damages Load	12,454	0	0	0	0	0	0	0	0	0	0	0	0	12,454
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	14,035	0	0	0	0	0	0	0	0	0	0	0	0	14,035
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	129,763	0	0	0	0	0	0	0	0	0	0	0	0	129,763
	926-A and G Loads	142,081	0	0	0	0	0	0	0	0	0	0	0	0	142,081
	928-AFUDC Debt Reg	60,844	0	0	0	0	0	0	0	0	0	0	0	0	60,844
	929-AFUDC - Equity Regular	81,266	0	0	0	0	0	0	0	0	0	0	0	0	81,266
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	2,471,936	0	0	0	0	0	0	0	0	0	0	0	0	2,471,936
	825-Clearings	-2,679,569	0	0	0	0	0	0	0	0	0	0	0	0	-2,679,569
	Clr Sum	-2,679,569	0	0	0	0	0	0	0	0	0	0	0	0	-2,679,569
	Proj Net	-207,633	0	0	0	0	0	0	0	0	0	0	0	0	-207,633

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	64807013	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	142,602	0	0	0	0	0	0	0	0	0	0	0	0	142,602
	120-Overtime-General	21,758	0	0	0	0	0	0	0	0	0	0	0	0	21,758
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	1,790,167	0	0	0	0	0	0	0	0	0	0	0	0	1,790,167
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	385	0	0	0	0	0	0	0	0	0	0	0	0	385
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	16,787	0	0	0	0	0	0	0	0	0	0	0	0	16,787
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	12,486	0	0	0	0	0	0	0	0	0	0	0	0	12,486
	914-Pension and Benefits Load	47,307	0	0	0	0	0	0	0	0	0	0	0	0	47,307
	915-Injuries and Damages Load	12,454	0	0	0	0	0	0	0	0	0	0	0	0	12,454
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	14,035	0	0	0	0	0	0	0	0	0	0	0	0	14,035
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	129,763	0	0	0	0	0	0	0	0	0	0	0	0	129,763
	926-A and G Loads	142,081	0	0	0	0	0	0	0	0	0	0	0	0	142,081
	928-AFUDC Debt Reg	60,844	0	0	0	0	0	0	0	0	0	0	0	0	60,844
	929-AFUDC - Equity Regular	81,266	0	0	0	0	0	0	0	0	0	0	0	0	81,266
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	2,471,936	0	0	0	0	0	0	0	0	0	0	0	0	2,471,936
	825-Clearings	-2,679,569	0	0	0	0	0	0	0	0	0	0	0	0	-2,679,569
	Clr Sum	-2,679,569	0	0	0	0	0	0	0	0	0	0	0	0	-2,679,569
	Proj Net	-207,633	0	0	0	0	0	0	0	0	0	0	0	0	-207,633

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Project No: 64807213 Fiber Buildout OPGW/ADSS

Company: 002-Transmission Services
Location: 648 Transmission

Project Information

Construction Start Date 8/2/2013 Estimated Completion Date 12/31/2017

List Interim In-Service Dates

Project Need Justification

This project involves building "last mile" fiber projects into PNM facilities, connecting fiber loops, and reconductoring transmission lines with Optical Ground Wire (OPGW). These improvements are needed to complete Synchronous Optical Networking (SONET) ring (a more secure communications network). The SONET ring technology is deployed or planned for deployment at all of PNM's major transmission stations. It provides communications for PNM's Transmission Supervisory Control and Data Acquisition (SCADA) operations as well as protective relaying for PNM's Transmission network. SONET technology (through a looped protection plan) mitigates the possibility of the loss of communications to a PNM Station or Plant asset that could result from a fiber or single communication equipment failure. This is a significant reliability improvement for PNM's Transmission SCADA and Protective Relaying system which are required to operate PNM's electrical network. Additionally, the increased capabilities of the SONET network will enable PNM to implement addition station security and station automation initiatives.

Project Alternatives

The SONET technology made available by the project's fiber construction will replace the linear Microwave Systems that served PNM's Switching Stations or Generation Plants. The alternative to SONET would have been to upgrade the existing Radio system. This alternate was not practical as it would not provide the loop protection required for PNM's Transmission SCADA nor would it provide the capacity PNM will require for other station security and station automation initiatives. NERC guidelines require utilities to provide protected communication systems to their critical Station assets. The SONET system fully meets that guideline.

Technical Aspects

The project will expand SONET technology to currently unserved PNM Switching Station and Generation Station assets through the extension of existing facilities to stations (last mile projects) and/or reconductoring undersized Fiber optic shield Wire (OPGW) or steel shield wire. The SONET system provides state-of-the-art high speed communications for PNM's Transmission SCADA operations as well as protective relaying for PNM's Transmission network.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	64807213	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
	Cost_Type	Bal 6/30/16								
	110-Straight Time-General	87,220		0	3,000	3,000	3,000	3,000	0	99,220
	120-Overtime-General	22,282		0	0	0	0	0	0	22,282
	350-Material Issues-Major	73,892		0	0	1,000	5,000	0	0	79,892
	370-Outside Services	2,493,629		0	10,000	10,000	10,000	10,000	0	2,533,629
	374-Outside Svcs Legal	14,038		0	0	0	0	0	0	14,038
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0
	530-Employee Expense	6,328		0	0	0	0	0	0	6,328
	610-Expenses - General	0		0	0	0	0	0	0	0
	805-Land and Land Rights	0		0	0	0	0	0	0	0
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0
	829-Construction Adjustment	0		0	0	0	-219	-219	-219	-656
	426-Capitalized Interest	0		0	0	0	0	0	0	0
	908-Luna AR - Labor	0		0	0	0	0	0	0	0
	909-Luna AR - Other	0		0	0	0	0	0	0	0
	913-Payroll Taxes Load	8,169		0	236	236	236	236	0	9,113
	914-Pension and Benefits Load	30,944		0	898	898	898	898	0	34,537
	915-Injuries and Damages Load	8,171		0	196	196	196	196	0	8,954
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0
	921-Stores / Purchasing Load	21,272		0	0	36	181	0	0	21,490
	922-Minor Material Load	0		0	0	0	0	0	0	0
	925-E and S Loads	109,925		0	1,146	1,226	1,546	1,146	0	114,990
	926-A and G Loads	273,732		0	1,082	1,165	1,498	1,082	0	278,558
	928-AFUDC Debt Reg	47,346		2	21	60	105	149	168	47,851
	929-AFUDC - Equity Regular	65,170		2	23	65	114	161	182	65,716
	937-San Juan AR - Other	0		0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0
	Cost Sum	3,262,119		4	16,601	17,881	22,555	16,650	131	3,335,941
	825-Clearings	-3,881,013		0	0	0	0	0	-74,769	-3,955,782
	Clr Sum	-3,881,013		0	0	0	0	0	-74,769	-3,955,782
Proj Net	-618,895			4	16,601	17,881	22,555	16,650	-74,638	-619,841

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	64807213	Year	2017											
Cost_Type	BegBai	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	99,220	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	0	143,220
120-Overtime-General	22,282	0	0	0	0	0	0	0	0	0	0	0	0	22,282
350-Material Issues-Major	79,892	20,000	20,000	50,000	50,000	20,000	0	0	0	0	0	0	0	239,892
370-Outside Services	2,533,629	0	0	0	0	-6,192	0	0	0	0	0	0	0	2,527,437
374-Outside Svcs Legal	14,038	0	0	0	0	0	0	0	0	0	0	0	0	14,038
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	6,328	0	0	0	0	0	0	0	0	0	0	0	0	6,328
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-656	-89	-89	0	0	0	0	0	0	0	0	0	0	-835
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	9,113	314	314	314	314	314	314	314	314	314	314	314	0	12,563
914-Pension and Benefits Load	34,537	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	0	46,545
915-Injuries and Damages Load	8,954	249	249	249	249	249	249	249	249	249	249	249	0	11,691
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	21,490	1,430	1,430	3,575	3,575	1,430	0	0	0	0	0	0	0	32,930
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	114,990	698	698	1,514	1,514	529	154	154	154	154	154	154	0	120,865
926-A and G Loads	278,558	1,613	1,613	3,629	3,629	1,197	269	269	269	269	269	269	0	291,851
928-AFUDC Debt Reg	47,851	38	115	238	407	523	563	582	602	621	641	661	672	53,513
929-AFUDC - Equity Regular	65,716	50	151	312	534	686	739	764	789	815	841	866	882	73,144
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	3,335,941	29,394	29,571	64,921	65,312	23,826	7,379	7,423	7,468	7,513	7,558	7,604	1,554	3,595,463
825-Clearings	-3,955,782	0	0	0	0	0	0	0	0	0	0	0	-259,522	-4,215,304
Clr Sum	-3,955,782	0	0	0	0	0	0	0	0	0	0	0	-259,522	-4,215,304
Proj Net	-619,841	29,394	29,571	64,921	65,312	23,826	7,379	7,423	7,468	7,513	7,558	7,604	-257,967	-619,841

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	64807213	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	143,220	0	0	0	0	0	0	0	0	0	0	0	0	143,220
	120-Overtime-General	22,282	0	0	0	0	0	0	0	0	0	0	0	0	22,282
	350-Material Issues-Major	239,892	0	0	0	0	0	0	0	0	0	0	0	0	239,892
	370-Outside Services	2,527,437	0	0	0	0	0	0	0	0	0	0	0	0	2,527,437
	374-Outside Svcs Legal	14,038	0	0	0	0	0	0	0	0	0	0	0	0	14,038
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	6,328	0	0	0	0	0	0	0	0	0	0	0	0	6,328
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-835	0	0	0	0	0	0	0	0	0	0	0	0	-835
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	12,563	0	0	0	0	0	0	0	0	0	0	0	0	12,563
	914-Pension and Benefits Load	46,545	0	0	0	0	0	0	0	0	0	0	0	0	46,545
	915-Injuries and Damages Load	11,691	0	0	0	0	0	0	0	0	0	0	0	0	11,691
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	32,930	0	0	0	0	0	0	0	0	0	0	0	0	32,930
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	120,865	0	0	0	0	0	0	0	0	0	0	0	0	120,865
	926-A and G Loads	291,851	0	0	0	0	0	0	0	0	0	0	0	0	291,851
	928-AFUDC Debt Reg	53,513	0	0	0	0	0	0	0	0	0	0	0	0	53,513
	929-AFUDC - Equity Regular	73,144	0	0	0	0	0	0	0	0	0	0	0	0	73,144
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	3,595,463	0	0	0	0	0	0	0	0	0	0	0	0	3,595,463
	825-Clearings	-4,215,304	0	0	0	0	0	0	0	0	0	0	0	0	-4,215,304
	Clr Sum	-4,215,304	0	0	0	0	0	0	0	0	0	0	0	0	-4,215,304
	Proj Net	-619,841	0	0	0	0	0	0	0	0	0	0	0	0	-619,841

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	64807316	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Cir Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	64807316	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	64807316	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	129,000	0	0	0	0	0	0	0	0	0	129,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	3,509	0	0	0	0	0	0	0	0	0	3,509
	926-A and G Loads	0	0	0	8,669	0	0	0	0	0	0	0	0	0	8,669
	928-AFUDC Debt Reg	0	0	0	184	0	0	0	0	0	0	0	0	0	184
	929-AFUDC - Equity Regular	0	0	0	166	0	0	0	0	0	0	0	0	0	166
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	0	0	141,528	0	0	0	0	0	0	0	0	0	141,528
	825-Clearings	0	0	0	-141,528	0	0	0	0	0	0	0	0	0	-141,528
	Clr Sum	0	0	0	-141,528	0	0	0	0	0	0	0	0	0	-141,528
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 64807614 NERC Telecom Monitoring Project

Company: 002-Transmission Services
Location: 648 Transmission

Project Information

Construction Start Date 8/3/2015 Estimated Completion Date 10/31/2016

List Interim In-Service Dates

Project Need Justification

This project funds the upgrade of the communications network platform on Path 48 switching stations to ensure PNM complies with North American Electric Reliability Corporation (NERC) regulations. The system will be upgraded to a combination of NetGuardian and NetSmart. In addition to frequent system failure, the older platform does not meet NERC requirements and the current platform cannot be upgraded to interface with the system used by Power Operations to monitor alarms. The upgrade allows us to integrate our TMON system with our Monarch system so that Power Operations can monitor communications alarms. This platform integrates with the communications network that provides connectivity between Power Operations and remote terminal units (RTUs) that monitor the substations, which in turn allows the operations team to respond to alarms before an outage, which is a NERC requirement.

Project Alternatives

The only other option is to continue to use the existing platform which does not have the necessary software to integrate with Power Operations and poses the risk of a NERC violation.

Technical Aspects

We are upgrading NetGuardian monitoring to a combination of NetGuardian and NetSmart. NetGuardian was chosen for the larger sites in which remote control was required. The NetSmart Platform (a complement to PNM's Sonet platform) will be rolled out at the smaller sites because the cost per site was significantly less and made more sense economically. With both of these systems, the monitoring platform will be upgraded from the older dot-matrix to a new interface that better interacts with the Power Operations monitoring platform.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	64807614	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			5,000	5,000	0	0	0	0	10,000		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			5,000	0	0	0	0	0	5,000		
370-Outside Services	0			20,000	0	0	0	0	0	20,000		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-499	0	0	-499		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			394	394	0	0	0	0	787		
914-Pension and Benefits Load	0			1,497	1,497	0	0	0	0	2,994		
915-Injuries and Damages Load	0			326	326	0	0	0	0	652		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	323			181	0	0	0	0	0	504		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	2,155			2,577	577	0	0	0	0	5,309		
926-A and G Loads	4,248			2,496	416	0	0	0	0	7,160		
928-AFUDC Debt Reg	1,043			176	229	239	240	0	0	1,927		
929-AFUDC - Equity Regular	688			191	248	259	259	0	0	1,645		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	8,457			37,838	8,686	498	0	0	0	55,479		
825-Clearings	0			0	0	0	-106,532	0	0	-106,532		
Clr Sum	0			0	0	0	-106,532	0	0	-106,532		
Proj Net	8,457			37,838	8,686	498	-106,532	0	0	-51,053		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	64807614	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	10,000	0	0	0	0	0	0	0	0	0	0	0	0	10,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	5,000	0	0	0	0	0	0	0	0	0	0	0	0	5,000
	370-Outside Services	20,000	0	0	0	0	0	0	0	0	0	0	0	0	20,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-499	0	0	0	0	0	0	0	0	0	0	0	0	-499
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	787	0	0	0	0	0	0	0	0	0	0	0	0	787
	914-Pension and Benefits Load	2,994	0	0	0	0	0	0	0	0	0	0	0	0	2,994
	915-Injuries and Damages Load	652	0	0	0	0	0	0	0	0	0	0	0	0	652
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	504	0	0	0	0	0	0	0	0	0	0	0	0	504
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	5,309	0	0	0	0	0	0	0	0	0	0	0	0	5,309
	926-A and G Loads	7,160	0	0	0	0	0	0	0	0	0	0	0	0	7,160
	928-AFUDC Debt Reg	1,927	0	0	0	0	0	0	0	0	0	0	0	0	1,927
	929-AFUDC - Equity Regular	1,645	0	0	0	0	0	0	0	0	0	0	0	0	1,645
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	55,479	0	0	0	0	0	0	0	0	0	0	0	0	55,479
	825-Clearings	-106,532	0	0	0	0	0	0	0	0	0	0	0	0	-106,532
	Clr Sum	-106,532	0	0	0	0	0	0	0	0	0	0	0	0	-106,532
	Proj Net	-51,053	0	0	0	0	0	0	0	0	0	0	0	0	-51,053

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	64807614	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	10,000	0	0	0	0	0	0	0	0	0	0	0	0	10,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	5,000	0	0	0	0	0	0	0	0	0	0	0	0	5,000
	370-Outside Services	20,000	0	0	0	0	0	0	0	0	0	0	0	0	20,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-499	0	0	0	0	0	0	0	0	0	0	0	0	-499
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	787	0	0	0	0	0	0	0	0	0	0	0	0	787
	914-Pension and Benefits Load	2,994	0	0	0	0	0	0	0	0	0	0	0	0	2,994
	915-Injuries and Damages Load	652	0	0	0	0	0	0	0	0	0	0	0	0	652
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	504	0	0	0	0	0	0	0	0	0	0	0	0	504
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	5,309	0	0	0	0	0	0	0	0	0	0	0	0	5,309
	926-A and G Loads	7,160	0	0	0	0	0	0	0	0	0	0	0	0	7,160
	928-AFUDC Debt Reg	1,927	0	0	0	0	0	0	0	0	0	0	0	0	1,927
	929-AFUDC - Equity Regular	1,645	0	0	0	0	0	0	0	0	0	0	0	0	1,645
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	55,479	0	0	0	0	0	0	0	0	0	0	0	0	55,479
	825-Clearings	-106,532	0	0	0	0	0	0	0	0	0	0	0	0	-106,532
	Clr Sum	-106,532	0	0	0	0	0	0	0	0	0	0	0	0	-106,532
	Proj Net	-51,053	0	0	0	0	0	0	0	0	0	0	0	0	-51,053

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01.

Project	64807714	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	216		0	0	0	0	0	0	216		
	120-Overtime-General	0		0	0	0	0	0	0	0		
	350-Material Issues-Major	0		0	0	0	0	0	0	0		
	370-Outside Services	182,105		0	0	0	7,455	7,355	7,355	204,270		
	374-Outside Svcs Legal	8,914		0	0	0	0	0	0	8,914		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	18		0	0	0	0	0	0	18		
	914-Pension and Benefits Load	69		0	0	0	0	0	0	69		
	915-Injuries and Damages Load	16		0	0	0	0	0	0	16		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	1,484		0	0	0	0	0	0	1,484		
	922-Minor Material Load	0		0	0	0	0	0	0	0		
	925-E and S Loads	7,689		0	0	0	596	588	588	9,463		
	926-A and G Loads	19,195		0	0	0	620	612	612	21,039		
	928-AFUDC Debt Reg	13,315		0	0	0	0	0	0	13,315		
	929-AFUDC - Equity Regular	14,653		0	0	0	0	0	0	14,653		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	247,675		0	0	0	8,672	8,555	8,555	273,457		
	825-Clearings	0		-287,159	0	0	0	0	-25,782	-312,941		
	Clr Sum	0		-287,159	0	0	0	0	-25,782	-312,941		
	Proj Net	247,675		-287,159	0	0	8,672	8,555	-17,227	-39,484		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	64807714	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	216	0	0	0	0	0	0	0	0	0	0	0	0	216
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	204,270	0	0	0	0	0	0	0	0	0	0	0	0	204,270
	374-Outside Svcs Legal	8,914	0	0	0	0	0	0	0	0	0	0	0	0	8,914
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	18	0	0	0	0	0	0	0	0	0	0	0	0	18
	914-Pension and Benefits Load	69	0	0	0	0	0	0	0	0	0	0	0	0	69
	915-Injuries and Damages Load	16	0	0	0	0	0	0	0	0	0	0	0	0	16
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	1,484	0	0	0	0	0	0	0	0	0	0	0	0	1,484
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	9,463	0	0	0	0	0	0	0	0	0	0	0	0	9,463
	926-A and G Loads	21,039	0	0	0	0	0	0	0	0	0	0	0	0	21,039
	928-AFUDC Debt Reg	13,315	0	0	0	0	0	0	0	0	0	0	0	0	13,315
	929-AFUDC - Equity Regular	14,653	0	0	0	0	0	0	0	0	0	0	0	0	14,653
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	273,457	0	0	0	0	0	0	0	0	0	0	0	0	273,457
	825-Clearings	-312,941	0	0	0	0	0	0	0	0	0	0	0	0	-312,941
	Clr Sum	-312,941	0	0	0	0	0	0	0	0	0	0	0	0	-312,941
	Proj Net	-39,484	0	0	0	0	0	0	0	0	0	0	0	0	-39,484

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	64807714	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	216	0	0	0	0	0	0	0	0	0	0	0	0	216
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	204,270	0	0	0	0	0	0	0	0	0	0	0	0	204,270
	374-Outside Svcs Legal	8,914	0	0	0	0	0	0	0	0	0	0	0	0	8,914
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	18	0	0	0	0	0	0	0	0	0	0	0	0	18
	914-Pension and Benefits Load	69	0	0	0	0	0	0	0	0	0	0	0	0	69
	915-Injuries and Damages Load	16	0	0	0	0	0	0	0	0	0	0	0	0	16
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	1,484	0	0	0	0	0	0	0	0	0	0	0	0	1,484
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	9,463	0	0	0	0	0	0	0	0	0	0	0	0	9,463
	926-A and G Loads	21,039	0	0	0	0	0	0	0	0	0	0	0	0	21,039
	928-AFUDC Debt Reg	13,315	0	0	0	0	0	0	0	0	0	0	0	0	13,315
	929-AFUDC - Equity Regular	14,653	0	0	0	0	0	0	0	0	0	0	0	0	14,653
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	273,457	0	0	0	0	0	0	0	0	0	0	0	0	273,457
	825-Clearings	-312,941	0	0	0	0	0	0	0	0	0	0	0	0	-312,941
	Clr Sum	-312,941	0	0	0	0	0	0	0	0	0	0	0	0	-312,941
	Proj Net	-39,484	0	0	0	0	0	0	0	0	0	0	0	0	-39,484

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Project No: 64807914 ID Line Wrap Replacement

Company: 002-Transmission Services
Location: 648 Transmission

Project Information

<u>Construction Start Date</u>	<u>Estimated Completion Date</u>	1/31/2017
<u>List Interim In-Service Dates</u>		
<u>Project Need Justification</u>		

Currently, if the current system were to fail, PNM does not have the tools to conduct repairs. The wrap system in use now is the ID 46K static cable, which is not available to take out of service. This fiber was installed on 1991 using a technology that is now obsolete in the US utility industry. This old technology is not capable of supporting the DWDM (dense wavelength division multiplexing) services PNM currently deploys in its new systems. The current ID fiber supports 50% of the regional communications for PNM's primary and backup control centers. Replacement is required to mitigate the risk of losing these critical utility services for an extended period of time.

Project Alternatives

This improvement is required to maintain reliable communications into PNM's primary and backup control center from the Company's critical switching station and generation station assets in throughout New Mexico. If the current system fails, any repair would require multiple days or weeks to complete. PNM cannot risk a potential failure on this 25 year old system, as result would be a loss of monitoring and control of the majority of PNM's regional switching and generation station assets.

Technical Aspects

Specific work will involve replacing 13 miles of existing wrapped fiber on PNM's ID line with a parallel fiber cable underbuilt on PNM's distribution system.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	64807914	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	365			0	0	0	0	0	0	365		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-532	-532	-532	-1,596		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	27			0	0	0	0	0	0	27		
914-Pension and Benefits Load	106			0	0	0	0	0	0	106		
915-Injuries and Damages Load	28			0	0	0	0	0	0	28		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	579			0	0	0	0	0	0	579		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	3,458			0	0	0	0	0	0	3,458		
926-A and G Loads	7,222			0	0	0	0	0	0	7,222		
928-AFUDC Debt Reg	6,356			252	254	255	255	255	255	7,883		
929-AFUDC - Equity Regular	7,408			273	275	276	277	277	277	9,062		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	25,549			526	528	531	0	0	0	27,134		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	25,549			526	528	531	0	0	0	27,134		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	64807914	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	365	0	0	0	0	0	0	0	0	0	0	0	0	365
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-1,596	-682	0	0	0	0	0	0	0	0	0	0	0	-2,278
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	27	0	0	0	0	0	0	0	0	0	0	0	0	27
	914-Pension and Benefits Load	106	0	0	0	0	0	0	0	0	0	0	0	0	106
	915-Injuries and Damages Load	28	0	0	0	0	0	0	0	0	0	0	0	0	28
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	579	0	0	0	0	0	0	0	0	0	0	0	0	579
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	3,458	0	0	0	0	0	0	0	0	0	0	0	0	3,458
	926-A and G Loads	7,222	0	0	0	0	0	0	0	0	0	0	0	0	7,222
	928-AFUDC Debt Reg	7,883	295	0	0	0	0	0	0	0	0	0	0	0	8,178
	929-AFUDC - Equity Regular	9,062	387	0	0	0	0	0	0	0	0	0	0	0	9,449
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	27,134	0	0	0	0	0	0	0	0	0	0	0	0	27,134
	825-Clearings	0	-113,570	0	0	0	0	0	0	0	0	0	0	0	-113,570
	Clr Sum	0	-113,570	0	0	0	0	0	0	0	0	0	0	0	-113,570
	Proj Net	27,134	-113,570	0	0	0	0	0	0	0	0	0	0	0	-86,436

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	64807914	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	365	0	0	0	0	0	0	0	0	0	0	0	0	365
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-2,278	0	0	0	0	0	0	0	0	0	0	0	0	-2,278
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	27	0	0	0	0	0	0	0	0	0	0	0	0	27
	914-Pension and Benefits Load	106	0	0	0	0	0	0	0	0	0	0	0	0	106
	915-Injuries and Damages Load	28	0	0	0	0	0	0	0	0	0	0	0	0	28
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	579	0	0	0	0	0	0	0	0	0	0	0	0	579
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	3,458	0	0	0	0	0	0	0	0	0	0	0	0	3,458
	926-A and G Loads	7,222	0	0	0	0	0	0	0	0	0	0	0	0	7,222
	928-AFUDC Debt Reg	8,178	0	0	0	0	0	0	0	0	0	0	0	0	8,178
	929-AFUDC - Equity Regular	9,449	0	0	0	0	0	0	0	0	0	0	0	0	9,449
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	27,134	0	0	0	0	0	0	0	0	0	0	0	0	27,134
	825-Clearings	-113,570	0	0	0	0	0	0	0	0	0	0	0	0	-113,570
	Clr Sum	-113,570	0	0	0	0	0	0	0	0	0	0	0	0	-113,570
	Proj Net	-86,436	0	0	0	0	0	0	0	0	0	0	0	0	-86,436

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	64808213	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	11,446		5,000	5,000	5,000	5,000	5,000	5,000	41,446		
	120-Overtime-General	0		0	0	0	0	0	0	0		
	350-Material Issues-Major	17,502		4,000	4,000	4,000	4,000	4,000	4,000	41,502		
	370-Outside Services	0		10,000	10,000	10,000	10,000	10,000	10,000	60,000		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	-406	-406	-406	-1,219		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	857		394	394	394	394	394	394	3,218		
	914-Pension and Benefits Load	3,348		1,497	1,497	1,497	1,497	1,497	1,497	12,330		
	915-Injuries and Damages Load	871		326	326	326	326	326	326	2,827		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	2,646		145	145	145	145	145	145	3,515		
	922-Minor Material Load	0		0	0	0	0	0	0	0		
	925-E and S Loads	25,176		1,697	1,697	1,697	1,697	1,697	1,697	35,360		
	926-A and G Loads	33,965		1,581	1,581	1,581	1,581	1,581	1,581	43,449		
	928-AFUDC Debt Reg	26,883		28	83	139	195	251	306	27,886		
	929-AFUDC - Equity Regular	37,559		30	90	151	211	271	332	38,645		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	160,254		24,697	24,813	24,930	24,639	24,755	24,871	308,960		
	825-Clearings	-539,605		0	0	0	0	0	-74,353	-613,958		
	Clr Sum	-539,605		0	0	0	0	0	-74,353	-613,958		
	Proj Net	-379,350		24,697	24,813	24,930	24,639	24,755	-49,482	-304,997		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	64808213	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	41,446	5,000	5,000	5,000	2,000	0	0	0	0	0	0	0	0	58,446	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	41,502	0	2,000	0	10,000	0	0	0	0	0	0	0	0	53,502	
370-Outside Services	60,000	0	0	0	0	0	0	0	0	0	0	0	0	60,000	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	-1,219	-473	-473	0	0	0	0	0	0	0	0	0	0	-2,166	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	3,218	392	392	392	157	0	0	0	0	0	0	0	0	4,551	
914-Pension and Benefits Load	12,330	1,365	1,365	1,365	546	0	0	0	0	0	0	0	0	16,969	
915-Injuries and Damages Load	2,827	311	311	311	124	0	0	0	0	0	0	0	0	3,885	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	3,515	0	143	0	715	0	0	0	0	0	0	0	0	4,373	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	35,360	192	247	192	349	0	0	0	0	0	0	0	0	36,340	
926-A and G Loads	43,449	336	470	336	806	0	0	0	0	0	0	0	0	45,398	
928-AFUDC Debt Reg	27,886	203	226	250	280	301	303	0	0	0	0	0	0	29,448	
929-AFUDC - Equity Regular	38,645	266	296	327	367	395	397	0	0	0	0	0	0	40,695	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	308,960	7,592	9,976	8,173	15,345	696	700	0	0	0	0	0	0	351,441	
825-Clearings	-613,958	0	0	0	0	0	-116,834	0	0	0	0	0	0	-730,792	
Clr Sum	-613,958	0	0	0	0	0	-116,834	0	0	0	0	0	0	-730,792	
Proj Net	-304,997	7,592	9,976	8,173	15,345	696	-116,134	0	0	0	0	0	0	-379,350	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	64808213	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	58,446	0	0	0	0	0	0	0	0	0	0	0	0	58,446
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	53,502	0	0	0	0	0	0	0	0	0	0	0	0	53,502
	370-Outside Services	60,000	0	0	0	0	0	0	0	0	0	0	0	0	60,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-2,166	0	0	0	0	0	0	0	0	0	0	0	0	-2,166
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	4,551	0	0	0	0	0	0	0	0	0	0	0	0	4,551
	914-Pension and Benefits Load	16,969	0	0	0	0	0	0	0	0	0	0	0	0	16,969
	915-Injuries and Damages Load	3,885	0	0	0	0	0	0	0	0	0	0	0	0	3,885
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	4,373	0	0	0	0	0	0	0	0	0	0	0	0	4,373
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	36,340	0	0	0	0	0	0	0	0	0	0	0	0	36,340
	926-A and G Loads	45,398	0	0	0	0	0	0	0	0	0	0	0	0	45,398
	928-AFUDC Debt Reg	29,448	0	0	0	0	0	0	0	0	0	0	0	0	29,448
	929-AFUDC - Equity Regular	40,695	0	0	0	0	0	0	0	0	0	0	0	0	40,695
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	351,441	0	0	0	0	0	0	0	0	0	0	0	0	351,441
	825-Clearings	-730,792	0	0	0	0	0	0	0	0	0	0	0	0	-730,792
	Clr Sum	-730,792	0	0	0	0	0	0	0	0	0	0	0	0	-730,792
	Proj Net	-379,350	0	0	0	0	0	0	0	0	0	0	0	0	-379,350

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Project No: 64834119 Blackwater Spare Equipment

Company: 002-Transmission Services
Location: 648 Transmission

Project Information

Construction Start Date 1/1/2019 Estimated Completion Date 12/31/2021

List Interim In-Service Dates

Project Need Justification

The purchase of this project is to purchase assorted spare parts and materials for Blackwater DC converter equipment that is reaching the end of their useful life. The purchase and ultimate installation of this equipment will help prevent extended outages caused by lack of parts on hand or de-rating of converter while replacement part of being purchased following a failure.

Project Alternatives

The “No Action” alternative would place PNM as risk of not having the full capacity of the Blackwater DC converter available while replacement equipment is delivered and installed.

Technical Aspects

To be determined when project CDAP is submitted. In a general sense, projects will involve evaluating Blackwater DC converters that are nearing the end of their useful lives and replacing worn/aged equipment,

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	64834119	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	64834119	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	0	500	500	500	500	500	500	500	500	500	500	5,000
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	50,000	0	0	50,000	0	0	0	50,000	0	0	50,000	0	200,000
370-Outside Services	0	0	50,000	0	0	0	0	50,000	0	0	50,000	0	0	150,000
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	121	322	475	584	733	710	853	1,099	1,193	1,358	1,557	1,746	10,752
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	0	39	39	39	39	39	39	39	39	39	39	392
914-Pension and Benefits Load	0	0	0	136	136	136	136	136	136	136	136	136	136	1,365
915-Injuries and Damages Load	0	0	0	31	31	31	31	31	31	31	31	31	31	311
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	3,575	0	0	3,575	0	0	0	3,575	0	0	3,575	0	14,300
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
926-A and G Loads	0	3,360	3,360	34	3,394	34	34	3,394	3,394	34	3,394	3,394	34	23,856
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	57,056	53,682	1,215	58,260	1,473	1,451	54,953	58,775	1,934	55,459	59,232	2,486	405,976
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	-202,988	-202,988
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	-202,988	-202,988
Proj Net	0	57,056	53,682	1,215	58,260	1,473	1,451	54,953	58,775	1,934	55,459	59,232	-200,501	202,988

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	64834119	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	5,000	5,000	0	0	0	0	0	0	0	0	0	0	0	10,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	200,000	70,000	0	0	0	0	0	0	0	0	0	0	0	270,000
	370-Outside Services	150,000	0	0	0	0	0	0	0	0	0	0	0	0	150,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	10,752	1,071	0	0	0	0	0	0	0	0	0	0	0	11,824
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	392	392	0	0	0	0	0	0	0	0	0	0	0	784
	914-Pension and Benefits Load	1,365	1,365	0	0	0	0	0	0	0	0	0	0	0	2,729
	915-Injuries and Damages Load	311	311	0	0	0	0	0	0	0	0	0	0	0	622
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	14,300	5,005	0	0	0	0	0	0	0	0	0	0	0	19,305
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	23,856	5,040	0	0	0	0	0	0	0	0	0	0	0	28,896
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	405,976	88,184	0	0	0	0	0	0	0	0	0	0	0	494,160
	825-Clearings	-202,988	-291,172	0	0	0	0	0	0	0	0	0	0	0	-494,160
	Clr Sum	-202,988	-291,172	0	0	0	0	0	0	0	0	0	0	0	-494,160
	Proj Net	202,988	-202,988	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 65007216 Blackwater Filter Reactors

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 2/5/2016 Estimated Completion Date 12/31/2016

List Interim In-Service Dates

Project Need Justification

On approximately January 1, 2016, two filter reactors at the Blackwater Converter Station failed and the station was taken out-of-service. Subsequent visual review and testing confirms that the equipment was significantly damaged. Without these reactors, the converter station as a whole cannot be placed back into service. This places both operational and contractual risk on transmission system. Although transmission contracts typically have a clause to cover unplanned outages, it is also expected that the responsible party (in this case, PNM) take reasonable and prudent actions to restore service. In addition, Blackwater Converter Station also provides emergency backup for both PNM and SPS system for system disturbances

Project Alternatives

The only alternative of repairing the filters is not feasible given the type of failure. Inaction is not a viable alternative either.

Technical Aspects

Replace two filter reactors at the Blackwater Converter Station.

Project Estimate Approach

This project was estimated using the standard procedure used by the System Engineering department. Basic material is estimated using actual costs of past projects. These figures are updated in the estimating software periodically. For major equipment (reactors) we contacted our alliance vendors and requested information regarding the costs and schedules of these major items.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007216	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	1,215			2,000	0	0	0	0	0	3,215		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			100,000	0	0	50,000	0	0	150,000		
370-Outside Services	0			50,000	0	0	0	0	0	50,000		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-140	-140	-140	-421		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	111			157	0	0	0	0	0	268		
914-Pension and Benefits Load	421			599	0	0	0	0	0	1,019		
915-Injuries and Damages Load	92			130	0	0	0	0	0	222		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	1,432			3,620	0	0	1,810	0	0	6,862		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	9,779			12,231	0	0	4,000	0	0	26,010		
926-A and G Loads	19,412			12,646	0	0	4,160	0	0	36,219		
928-AFUDC Debt Reg	455			806	1,014	1,019	67	135	135	3,631		
929-AFUDC - Equity Regular	195			872	1,098	1,103	73	146	147	3,634		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	33,110			183,062	2,112	2,122	59,970	141	141	280,658		
825-Clearings	0			0	0	-454,018	0	0	-60,252	-514,270		
Clr Sum	0			0	0	-454,018	0	0	-60,252	-514,270		
Proj Net	33,110			183,062	2,112	-451,896	59,970	141	-60,111	-233,612		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007216	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	3,215	0	0	0	0	0	0	0	0	0	0	0	0	3,215
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	150,000	0	0	0	0	0	0	0	0	0	0	0	0	150,000
	370-Outside Services	50,000	0	0	0	0	0	0	0	0	0	0	0	0	50,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-421	0	0	0	0	0	0	0	0	0	0	0	0	-421
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	268	0	0	0	0	0	0	0	0	0	0	0	0	268
	914-Pension and Benefits Load	1,019	0	0	0	0	0	0	0	0	0	0	0	0	1,019
	915-Injuries and Damages Load	222	0	0	0	0	0	0	0	0	0	0	0	0	222
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	6,862	0	0	0	0	0	0	0	0	0	0	0	0	6,862
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	26,010	0	0	0	0	0	0	0	0	0	0	0	0	26,010
	926-A and G Loads	36,219	0	0	0	0	0	0	0	0	0	0	0	0	36,219
	928-AFUDC Debt Reg	3,631	0	0	0	0	0	0	0	0	0	0	0	0	3,631
	929-AFUDC - Equity Regular	3,634	0	0	0	0	0	0	0	0	0	0	0	0	3,634
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	280,658	0	0	0	0	0	0	0	0	0	0	0	0	280,658
	825-Clearings	-514,270	0	0	0	0	0	0	0	0	0	0	0	0	-514,270
	Clr Sum	-514,270	0	0	0	0	0	0	0	0	0	0	0	0	-514,270
	Proj Net	-233,612	0	0	0	0	0	0	0	0	0	0	0	0	-233,612

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007216	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	3,215	0	0	0	0	0	0	0	0	0	0	0	0	3,215	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	150,000	0	0	0	0	0	0	0	0	0	0	0	0	150,000	
370-Outside Services	50,000	0	0	0	0	0	0	0	0	0	0	0	0	50,000	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	-421	0	0	0	0	0	0	0	0	0	0	0	0	-421	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	268	0	0	0	0	0	0	0	0	0	0	0	0	268	
914-Pension and Benefits Load	1,019	0	0	0	0	0	0	0	0	0	0	0	0	1,019	
915-Injuries and Damages Load	222	0	0	0	0	0	0	0	0	0	0	0	0	222	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	6,862	0	0	0	0	0	0	0	0	0	0	0	0	6,862	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	26,010	0	0	0	0	0	0	0	0	0	0	0	0	26,010	
926-A and G Loads	36,219	0	0	0	0	0	0	0	0	0	0	0	0	36,219	
928-AFUDC Debt Reg	3,631	0	0	0	0	0	0	0	0	0	0	0	0	3,631	
929-AFUDC - Equity Regular	3,634	0	0	0	0	0	0	0	0	0	0	0	0	3,634	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	280,658	0	0	0	0	0	0	0	0	0	0	0	0	280,658	
825-Clearings	-514,270	0	0	0	0	0	0	0	0	0	0	0	0	-514,270	
Clr Sum	-514,270	0	0	0	0	0	0	0	0	0	0	0	0	-514,270	
Proj Net	-233,612	0	0	0	0	0	0	0	0	0	0	0	0	-233,612	

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Project No: 65007217 Blackwater 230 kV Roosevelt Interface

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 10/1/2016 Estimated Completion Date 3/31/2017

List Interim In-Service Dates

Project Need Justification

The purpose of the controls upgrade for the Blackwater Converter Station is to incorporate control systems on both sides of equipment in the 230kV switchyard to ensure that it is compatible with the design modifications that are being pursued by the owners of the switchyard. The existing 230kV switchyard yard, which is owned and operated by Xcel/Southwestern Public Service (SPS), is being expanded from a single breaker/single bus design to a double bus/double breaker design. This portion of the controls system upgrade is covered by this request.

Project Alternatives

There are no other alternatives to this project. PNM is contractually obligated to perform the work. Once Xcel/SPS informed PNM that they were changing their interconnection point from a single breaker to two breakers, PNM had no other option but to upgrade the controls associated with the interconnection.

Technical Aspects

The Blackwater 230 kV interface will change from a single 230kV breaker to two 230kV breakers. This expansion will require modifications to Blackwater’s control and protection system including: 1) Upgrades to both the remote and logical human machine interface (HMI) with breaker status for two breakers2) SUM trouble indication for two breakers 3) Update of 230 kV switch indication4) 230 kV breaker permissive signal for both breakers5) Remote status and alarms6) All other MACH (modular Advanced Control for HVDC) Control System Upgrades required for a two breaker

Project Estimate Approach

This project was estimated based on the standard procedure used by System Engineering. Basic material is estimated using actual costs of past projects. These figures are updated in the estimating software periodically. Labor and contractor estimates were created from bids received for the actual project. All overhead costs are standard and calculated using the approved corporate software.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007217	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	2,000	2,000	2,000	2,000	0	8,000		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	50,000	20,000	100,000	75,000	0	245,000		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-695	-695	-695	-2,084		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	157	157	157	157	0	630		
914-Pension and Benefits Load	0			0	599	599	599	599	0	2,395		
915-Injuries and Damages Load	0			0	130	130	130	130	0	522		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	4,231	1,831	8,231	6,231	0	20,524		
926-A and G Loads	0			0	4,326	1,830	8,486	6,406	0	21,050		
928-AFUDC Debt Reg	0			0	69	169	333	570	673	1,815		
929-AFUDC - Equity Regular	0			0	75	183	361	618	729	1,966		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	61,588	26,899	119,604	91,017	708	299,817		
825-Clearings	0			0	0	0	0	0	-299,817	-299,817		
Clr Sum	0			0	0	0	0	0	-299,817	-299,817		
Proj Net	0			0	61,588	26,899	119,604	91,017	-299,109	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007217	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	8,000	1,042	1,042	0	0	0	0	0	0	0	0	0	0	10,083
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	245,000	19,792	0	0	0	0	0	0	0	0	0	0	0	264,792
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-2,084	-71	-71	0	0	0	0	0	0	0	0	0	0	-2,225
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	630	82	82	0	0	0	0	0	0	0	0	0	0	793
	914-Pension and Benefits Load	2,395	284	284	0	0	0	0	0	0	0	0	0	0	2,964
	915-Injuries and Damages Load	522	65	65	0	0	0	0	0	0	0	0	0	0	651
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	20,524	578	40	0	0	0	0	0	0	0	0	0	0	21,142
	926-A and G Loads	21,050	1,400	70	0	0	0	0	0	0	0	0	0	0	22,520
	928-AFUDC Debt Reg	1,815	30	63	65	0	0	0	0	0	0	0	0	0	1,973
	929-AFUDC - Equity Regular	1,966	40	82	85	0	0	0	0	0	0	0	0	0	2,173
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	299,817	23,242	1,656	150	0	0	0	0	0	0	0	0	0	324,865
	825-Clearings	-299,817	0	0	-25,048	0	0	0	0	0	0	0	0	0	-324,865
	Clr Sum	-299,817	0	0	-25,048	0	0	0	0	0	0	0	0	0	-324,865
Proj Net		0	23,242	1,656	-24,898	0	0	0	0	0	0	0	0	0	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007217	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	10,083	0	0	0	0	0	0	0	0	0	0	0	0	10,083
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	264,792	0	0	0	0	0	0	0	0	0	0	0	0	264,792
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-2,225	0	0	0	0	0	0	0	0	0	0	0	0	-2,225
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	793	0	0	0	0	0	0	0	0	0	0	0	0	793
	914-Pension and Benefits Load	2,964	0	0	0	0	0	0	0	0	0	0	0	0	2,964
	915-Injuries and Damages Load	651	0	0	0	0	0	0	0	0	0	0	0	0	651
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	21,142	0	0	0	0	0	0	0	0	0	0	0	0	21,142
	926-A and G Loads	22,520	0	0	0	0	0	0	0	0	0	0	0	0	22,520
	928-AFUDC Debt Reg	1,973	0	0	0	0	0	0	0	0	0	0	0	0	1,973
	929-AFUDC - Equity Regular	2,173	0	0	0	0	0	0	0	0	0	0	0	0	2,173
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	324,865	0	0	0	0	0	0	0	0	0	0	0	0	324,865
	825-Clearings	-324,865	0	0	0	0	0	0	0	0	0	0	0	0	-324,865
	Clr Sum	-324,865	0	0	0	0	0	0	0	0	0	0	0	0	-324,865
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 65007317 Replace breaker 12982 at SJ

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 3/6/2017 Estimated Completion Date 11/30/2018

List Interim In-Service Dates

Project Need Justification

Test records and maintenance reports indicate 345kv breaker 12982 (SJ-MC #1 line terminal) is nearing end of life. Since this piece of equipment is nearing the end of its useful life, this project involves replacing the breaker.

Project Alternatives

Due to the age of the breaker, it is technically obsolete and no longer supported by the manufacturer. Therefore, the only alternative is to rebuild the breaker with salvaged parts from similar retired units to prolong the unit's service. However, this would not address the systemic issue and ultimate failure risk. Therefore, the decision was made to replace the breaker.

Technical Aspects

This is an outage required activity. Specific work for this replacement effort will include foundation modifications, jumper replacement and determination of the control cables while other equipment remains energized in proximity.

Project Estimate Approach

Budget estimates were based on recent projects, the purchase prices of similar equipment, and labor costs from previous breaker replacements at the San Juan yard.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007317	Year	2016									
Cost Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007317	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007317	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	500	0	0	0	0	0	0	0	2,500	3,500	3,000	0	9,500
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	0	0	0	0	20,000	0	0	0	0	0	20,000
370-Outside Services	0	50,000	0	0	0	0	0	0	0	125,000	125,000	2,000	0	302,000
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	39	0	0	0	0	0	0	0	196	274	235	0	745
914-Pension and Benefits Load	0	136	0	0	0	0	0	0	0	682	955	819	0	2,593
915-Injuries and Damages Load	0	31	0	0	0	0	0	0	0	156	218	187	0	591
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	0	0	0	0	1,430	0	0	0	0	0	1,430
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	1,379	0	0	0	0	0	544	0	3,496	3,535	170	0	9,124
926-A and G Loads	0	3,394	0	0	0	0	0	1,344	0	8,568	8,635	336	0	22,277
928-AFUDC Debt Reg	0	72	145	146	147	147	148	179	211	395	766	965	0	3,322
929-AFUDC - Equity Regular	0	65	131	132	132	133	134	162	190	356	691	870	0	2,995
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	55,617	276	278	279	280	282	23,659	401	141,350	143,574	8,580	0	374,576
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	-374,576	0	-374,576
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	-374,576	0	-374,576
Proj Net	0	55,617	276	278	279	280	282	23,659	401	141,350	143,574	-365,995	0	0

Project No: 65007319 Online Transformer Monitoring

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 10/1/2016 Estimated Completion Date 12/31/2019

List Interim In-Service Dates

Project Need Justification

This project is for the installation of equipment that allows online monitoring of substation and switching equipment such as transformers and reactors. There will be one dissolved gas in oil monitor and three or more partial discharge monitors installed on selected transmission transformers. This project addresses the need to establish a preventative maintenance plan at various locations, driving down O&M costs and allowing for better utilization of scheduled outages. By introducing these online monitoring systems, maintenance personnel have the ability to monitor equipment performance remotely and in real time, thereby reducing the probability of unexpected catastrophic failure.

Project Alternatives

Other than the "do nothing" approach mentioned above, there are no feasible alternatives.

Technical Aspects

Dissolved Gas Analysis monitors will be installed on critical transmission transformers to monitor the quantities of fault gasses present in the transformer. The quantities and ratios of several different fault gasses, if detected, are used to assess the condition of the transformer and to assist operations and maintenance personnel with decisions related to transformer health. The data will be used to make real time operating and strategic planning decisions related to continued use of the transformer, pending a failures and replacement strategy.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007319	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007319	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007319	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	96,000
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
370-Outside Services	0	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	288,000
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	627	627	627	627	627	627	627	627	627	627	627	627	7,526
914-Pension and Benefits Load	0	2,183	2,183	2,183	2,183	2,183	2,183	2,183	2,183	2,183	2,183	2,183	2,183	26,198
915-Injuries and Damages Load	0	498	498	498	498	498	498	498	498	498	498	498	498	5,971
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	960	960	960	960	960	960	960	960	960	960	960	960	11,525
926-A and G Loads	0	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	2,150	25,805
928-AFUDC Debt Reg	0	50	151	252	353	455	558	203	304	406	508	611	715	4,567
929-AFUDC - Equity Regular	0	45	136	227	319	411	503	183	274	366	458	551	644	4,117
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	38,514	38,705	38,898	39,091	39,285	39,480	38,805	38,997	39,191	39,386	39,581	39,778	469,710
825-Clearings	0	0	0	0	0	0	-175,480	0	0	0	0	0	-294,230	-469,710
Clr Sum	0	0	0	0	0	0	-175,480	0	0	0	0	0	-294,230	-469,710
Proj Net	0	38,514	38,705	38,898	39,091	39,285	-136,000	38,805	38,997	39,191	39,386	39,581	-254,453	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007416	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	20,471		5,000	5,000	5,000	5,000	5,000	0	45,471		
	120-Overtime-General	0		0	0	0	0	0	0	0		
	350-Material Issues-Major	41,805		200,000	100,000	0	0	0	0	341,805		
	370-Outside Services	120,000		0	100,000	150,000	126,000	100,000	0	596,000		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	89		0	0	0	0	0	0	89		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	-566,250		0	-750,000	0	0	0	0	-1,316,250		
	829-Construction Adjustment	0		0	0	0	1,503	1,503	1,503	4,509		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	1,863		394	394	394	394	394	0	3,831		
	914-Pension and Benefits Load	7,088		1,497	1,497	1,497	1,497	1,497	0	14,573		
	915-Injuries and Damages Load	1,544		326	326	326	326	326	0	3,174		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	375		7,240	3,620	0	0	0	0	11,235		
	922-Minor Material Load	0		0	0	0	0	0	0	0		
	925-E and S Loads	11,486		16,577	16,577	12,577	10,657	8,577	0	76,453		
	926-A and G Loads	17,133		17,056	17,056	12,896	10,899	8,736	0	83,776		
	928-AFUDC Debt Reg	0		-439	-731	-1,098	-721	-407	-265	-3,661		
	929-AFUDC - Equity Regular	0		-475	-792	-1,189	-781	-440	-287	-3,965		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	-344,396		247,176	-507,053	180,402	154,773	125,185	951	-142,962		
	825-Clearings	0		0	0	0	0	0	117,326	117,326		
	Clr Sum	0		0	0	0	0	0	117,326	117,326		
Proj Net		-344,396		247,176	-507,053	180,402	154,773	125,185	118,277	-25,635		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007416	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	45,471	0	0	0	0	0	0	0	0	0	0	0	0	45,471
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	341,805	0	0	0	0	0	0	0	0	0	0	0	0	341,805
	370-Outside Services	596,000	0	0	0	0	0	0	0	0	0	0	0	0	596,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	89	0	0	0	0	0	0	0	0	0	0	0	0	89
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		-1,316,250	0	0	0	0	0	0	0	0	0	0	0	0	-1,316,250
	829-Construction Adjustment	4,509	1,927	1,927	0	0	0	0	0	0	0	0	0	0	8,363
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	3,831	0	0	0	0	0	0	0	0	0	0	0	0	3,831
	914-Pension and Benefits Load	14,573	0	0	0	0	0	0	0	0	0	0	0	0	14,573
	915-Injuries and Damages Load	3,174	0	0	0	0	0	0	0	0	0	0	0	0	3,174
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	11,235	0	0	0	0	0	0	0	0	0	0	0	0	11,235
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	76,453	0	0	0	0	0	0	0	0	0	0	0	0	76,453
	926-A and G Loads	83,776	0	0	0	0	0	0	0	0	0	0	0	0	83,776
	928-AFUDC Debt Reg	-3,661	0	0	0	0	0	0	0	0	0	0	0	0	-3,661
	929-AFUDC - Equity Regular	-3,965	0	0	0	0	0	0	0	0	0	0	0	0	-3,965
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	-142,962	1,927	1,927	0	0	0	0	0	0	0	0	0	0	-139,107
	825-Clearings	117,326	0	0	0	0	0	0	0	0	0	0	0	0	117,326
	Clr Sum	117,326	0	0	0	0	0	0	0	0	0	0	0	0	117,326
Proj Net		-25,635	1,927	1,927	0	0	0	0	0	0	0	0	0	0	-21,780

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007416	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	45,471	0	0	0	0	0	0	0	0	0	0	0	0	45,471
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	341,805	0	0	0	0	0	0	0	0	0	0	0	0	341,805
	370-Outside Services	596,000	0	0	0	0	0	0	0	0	0	0	0	0	596,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	89	0	0	0	0	0	0	0	0	0	0	0	0	89
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	-1,316,250	0	0	0	0	0	0	0	0	0	0	0	0	-1,316,250
	829-Construction Adjustment	8,363	0	0	0	0	0	0	0	0	0	0	0	0	8,363
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	3,831	0	0	0	0	0	0	0	0	0	0	0	0	3,831
	914-Pension and Benefits Load	14,573	0	0	0	0	0	0	0	0	0	0	0	0	14,573
	915-Injuries and Damages Load	3,174	0	0	0	0	0	0	0	0	0	0	0	0	3,174
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	11,235	0	0	0	0	0	0	0	0	0	0	0	0	11,235
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	76,453	0	0	0	0	0	0	0	0	0	0	0	0	76,453
	926-A and G Loads	83,776	0	0	0	0	0	0	0	0	0	0	0	0	83,776
	928-AFUDC Debt Reg	-3,661	0	0	0	0	0	0	0	0	0	0	0	0	-3,661
	929-AFUDC - Equity Regular	-3,965	0	0	0	0	0	0	0	0	0	0	0	0	-3,965
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	-139,107	0	0	0	0	0	0	0	0	0	0	0	0	-139,107
	825-Clearings	117,326	0	0	0	0	0	0	0	0	0	0	0	0	117,326
	Clr Sum	117,326	0	0	0	0	0	0	0	0	0	0	0	0	117,326
	Proj Net	-21,780	0	0	0	0	0	0	0	0	0	0	0	0	-21,780

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Project No: 65007417 Replace breaker 18582 at SJ

Company: 002-Transmission Services

Location: 650 Transmission

Project Information

Construction Start Date 11/6/2017

Estimated Completion Date 11/30/2018

List Interim In-Service Dates

Project Need Justification

Test records and maintenance reports indicate 345kv breaker 18582 (WW line terminal) is nearing end of life. Due to the fact the breaker is near the end of its useful life, this project involves replacing the breaker.

Project Alternatives

Due to the age of the breaker, it is technically obsolete and no longer supported by the manufacturer. Therefore, the only alternative is to rebuild the breaker with salvaged parts from similar retired units to prolong the unit's service. However, this would not address the systemic issue and ultimate failure risk. Therefore the decision was made to replace the breaker.

Technical Aspects

This is an outage required activity. Specific work for this replacement effort will include foundation modifications, jumper replacement and determination of the control cables while other equipment remains energized in proximity.

Project Estimate Approach

Budget estimates were based on recent projects, the purchase prices of similar equipment, and labor costs from previous breaker replacements at the San Juan yard.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007417	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007417	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007417	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	250	0	0	0	0	0	0	250	3,000	4,500	2,000	0	10,000
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	0	0	0	0	0	25,000	0	0	0	0	25,000
370-Outside Services	0	50,000	0	0	0	0	0	0	0	125,000	120,000	2,000	0	297,000
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	20	0	0	0	0	0	0	20	235	353	157	0	784
914-Pension and Benefits Load	0	68	0	0	0	0	0	0	68	819	1,228	546	0	2,729
915-Injuries and Damages Load	0	16	0	0	0	0	0	0	16	187	280	124	0	622
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	1,788	0	0	0	0	1,788
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	1,370	0	0	0	0	0	0	690	3,515	3,437	131	0	9,143
926-A and G Loads	0	3,377	0	0	0	0	0	0	1,697	8,602	8,366	269	0	22,310
928-AFUDC Debt Reg	0	72	144	145	146	146	147	148	187	411	778	969	0	3,294
929-AFUDC - Equity Regular	0	65	130	131	131	132	133	133	169	371	702	874	0	2,970
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	55,237	274	276	277	278	280	281	29,883	142,139	139,644	7,070	0	375,640
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	-375,640	0	-375,640
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	-375,640	0	-375,640
Proj Net	0	55,237	274	276	277	278	280	281	29,883	142,139	139,644	-368,569	0	0

Project No: 65007418 Replace #2 zigzag transformer at SJ

Company: 002-Transmission Services

Location: 650 Transmission

Project Information

Construction Start Date 9/18/2017

Estimated Completion Date 11/30/2018

List Interim In-Service Dates

Project Need Justification

Routine testing has indicated that the zigzag transformer #2 is nearing its end-of-life. If this transformer fails, it could cause the loss of the SJ 12.5kv Substation #2, which is one of two 12.5kv substations. In addition, this substation provides primary startup services for Units 1, 2 and 4, the SO₂ (sulfur dioxide) scrubber, the waste water plant, and for coal handling. This project aims to preemptively replace the unit before failure occurs.

Project Alternatives

The first alternative would involve sending the existing unit to the repair shop for a complete rebuild, which is not cost effective due to the amount of work required based on the unit's age and design. The second alternative would be to locate a suitable replacement in the used equipment market. This has already been attempted and was unsuccessful because of the unit's unique and highly specialized application.

Technical Aspects

Specifications of the replacement unit will be designed to match the physical dimensions of the original unit.

Project Estimate Approach

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007418	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007418	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007418	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	500	0	0	0	0	0	0	1,000	5,000	5,000	2,500	0	14,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	50,000	0	0	0	0	50,000
	370-Outside Services	0	50,000	0	0	0	0	0	0	24,000	150,000	125,000	0	0	349,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	39	0	0	0	0	0	0	78	392	392	196	0	1,098
	914-Pension and Benefits Load	0	136	0	0	0	0	0	0	273	1,365	1,365	682	0	3,821
	915-Injuries and Damages Load	0	31	0	0	0	0	0	0	62	311	311	156	0	871
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	3,575	0	0	0	0	3,575
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	1,379	0	0	0	0	0	0	2,051	4,272	3,592	96	0	11,391
	926-A and G Loads	0	3,394	0	0	0	0	0	0	5,040	10,416	8,736	168	0	27,754
	928-AFUDC Debt Reg	0	72	145	146	147	147	148	149	262	600	1,016	1,214	0	4,047
	929-AFUDC - Equity Regular	0	65	131	132	132	133	134	134	236	541	916	1,095	0	3,648
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	55,617	276	278	279	280	282	283	86,578	172,897	146,327	6,107	0	469,204
	825-Clearings	0	0	0	0	0	0	0	0	0	0	0	-469,204	0	-469,204
	Clr Sum	0	0	0	0	0	0	0	0	0	0	0	-469,204	0	-469,204
Proj Net		0	55,617	276	278	279	280	282	283	86,578	172,897	146,327	-463,097	0	0

Project No: 65007516 Comm Fujitsu Expansion Eastern Network

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date Estimated Completion Date 2/28/2017

List Interim In-Service Dates

Project Need Justification

This project will provide diversity in high speed data sources to the Taiban Switching Station. High speed data will be required in support of new NERC Critical Infrastructure Protection (CIP) requirements. In addition, route diversity will be required for enhanced relay redundancy in support of wind energy expansion in Eastern NM. This project will complete a 4 mile underground fiber build along Highway 252 between Cap Rock and Hwy 60 and a 1.5 mile fiber build from Taiban Station to the Highway 252 Plateau access point. These connections will result in a route redundant SONET wavelength connections to PNM's communications serving both Guadalupe Station and Blackwater along the BB line. It will also facilitate the eastern network loop connection to Albuquerque.

Project Alternatives

The alternative to this project would involve replacing the existing Microwave System. The cost of this alternative would exceed the proposed project cost and the capacity constraints on a radio system would limit its ability to support Station Security or future transport systems.

Technical Aspects

Project involves installing a 4 mile underground fiber build along Highway 252 between Cap Rock and Hwy 60 and a 1.5 mile fiber build from Taiban Station to the Highway 252 Plateau access point.

Project Estimate Approach

Firm fixed price quote from vendor.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007516	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			6,000	6,000	4,000	4,000	4,000	0	24,000		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			35,000	35,000	35,000	35,000	0	0	140,000		
370-Outside Services	0			15,000	50,000	50,000	50,000	10,000	0	175,000		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-1,598	-1,598	-1,598	-4,794		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			472	472	315	315	315	0	1,889		
914-Pension and Benefits Load	0			1,796	1,796	1,198	1,198	1,198	0	7,186		
915-Injuries and Damages Load	0			391	391	261	261	261	0	1,565		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,267	1,267	1,267	1,267	0	0	5,068		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			4,693	7,493	7,262	7,262	1,262	0	27,971		
926-A and G Loads	0			4,659	7,571	7,405	7,405	1,165	0	28,205		
928-AFUDC Debt Reg	0			78	280	526	767	908	929	3,489		
929-AFUDC - Equity Regular	0			85	304	570	831	983	1,006	3,778		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			69,441	110,575	107,803	106,707	18,493	337	413,356		
825-Clearings	0			0	0	0	0	0	-310,017	-310,017		
Clr Sum	0			0	0	0	0	0	-310,017	-310,017		
Proj Net	0			69,441	110,575	107,803	106,707	18,493	-309,680	103,339		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007516	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	24,000	0	0	0	0	0	0	0	0	0	0	0	0	24,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	140,000	0	0	0	0	0	0	0	0	0	0	0	0	140,000
	370-Outside Services	175,000	0	0	0	0	0	0	0	0	0	0	0	0	175,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-4,794	-628	-628	0	0	0	0	0	0	0	0	0	0	-6,050
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,889	0	0	0	0	0	0	0	0	0	0	0	0	1,889
	914-Pension and Benefits Load	7,186	0	0	0	0	0	0	0	0	0	0	0	0	7,186
	915-Injuries and Damages Load	1,565	0	0	0	0	0	0	0	0	0	0	0	0	1,565
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	5,068	0	0	0	0	0	0	0	0	0	0	0	0	5,068
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	27,971	0	0	0	0	0	0	0	0	0	0	0	0	27,971
	926-A and G Loads	28,205	0	0	0	0	0	0	0	0	0	0	0	0	28,205
	928-AFUDC Debt Reg	3,489	269	269	0	0	0	0	0	0	0	0	0	0	4,026
	929-AFUDC - Equity Regular	3,778	352	352	0	0	0	0	0	0	0	0	0	0	4,483
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	413,356	-7	-7	0	0	0	0	0	0	0	0	0	0	413,342
	825-Clearings	-310,017	0	-103,325	0	0	0	0	0	0	0	0	0	0	-413,342
	Clr Sum	-310,017	0	-103,325	0	0	0	0	0	0	0	0	0	0	-413,342
	Proj Net	103,339	-7	-103,332	0	0	0	0	0	0	0	0	0	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007516	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	24,000	0	0	0	0	0	0	0	0	0	0	0	0	24,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	140,000	0	0	0	0	0	0	0	0	0	0	0	0	140,000
	370-Outside Services	175,000	0	0	0	0	0	0	0	0	0	0	0	0	175,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-6,050	0	0	0	0	0	0	0	0	0	0	0	0	-6,050
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,889	0	0	0	0	0	0	0	0	0	0	0	0	1,889
	914-Pension and Benefits Load	7,186	0	0	0	0	0	0	0	0	0	0	0	0	7,186
	915-Injuries and Damages Load	1,565	0	0	0	0	0	0	0	0	0	0	0	0	1,565
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	5,068	0	0	0	0	0	0	0	0	0	0	0	0	5,068
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	27,971	0	0	0	0	0	0	0	0	0	0	0	0	27,971
	926-A and G Loads	28,205	0	0	0	0	0	0	0	0	0	0	0	0	28,205
	928-AFUDC Debt Reg	4,026	0	0	0	0	0	0	0	0	0	0	0	0	4,026
	929-AFUDC - Equity Regular	4,483	0	0	0	0	0	0	0	0	0	0	0	0	4,483
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	413,342	0	0	0	0	0	0	0	0	0	0	0	0	413,342
	825-Clearings	-413,342	0	0	0	0	0	0	0	0	0	0	0	0	-413,342
	Clr Sum	-413,342	0	0	0	0	0	0	0	0	0	0	0	0	-413,342
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007517	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007517	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	30,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	90,000	0	0	0	0	95,000	185,000
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	235	235	235	235	235	235	235	235	235	235	2,352
	914-Pension and Benefits Load	0	0	0	819	819	819	819	819	819	819	819	819	819	8,187
	915-Injuries and Damages Load	0	0	0	187	187	187	187	187	187	187	187	187	187	1,866
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	115	115	115	115	115	115	115	115	115	115	1,153
	926-A and G Loads	0	0	0	202	202	202	202	6,250	202	202	202	202	6,586	14,448
	928-AFUDC Debt Reg	0	0	0	6	18	30	42	179	6	18	30	42	186	556
	929-AFUDC - Equity Regular	0	0	0	8	23	39	55	235	8	23	39	55	244	730
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	0	0	4,571	4,599	4,626	4,654	101,020	4,571	4,599	4,626	4,654	106,372	244,293
	825-Clearings	0	0	0	0	0	0	0	-119,470	0	0	0	0	-124,822	-244,293
	Clr Sum	0	0	0	0	0	0	0	-119,470	0	0	0	0	-124,822	-244,293
Proj Net		0	0	0	4,571	4,599	4,626	4,654	-18,451	4,571	4,599	4,626	4,654	-18,451	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007517	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	30,000	0	0	0	0	0	0	0	0	0	0	0	0	30,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	185,000	0	0	0	0	0	0	0	0	0	0	0	0	185,000
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	2,352	0	0	0	0	0	0	0	0	0	0	0	0	2,352
	914-Pension and Benefits Load	8,187	0	0	0	0	0	0	0	0	0	0	0	0	8,187
	915-Injuries and Damages Load	1,866	0	0	0	0	0	0	0	0	0	0	0	0	1,866
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,153	0	0	0	0	0	0	0	0	0	0	0	0	1,153
	926-A and G Loads	14,448	0	0	0	0	0	0	0	0	0	0	0	0	14,448
	928-AFUDC Debt Reg	556	0	0	0	0	0	0	0	0	0	0	0	0	556
	929-AFUDC - Equity Regular	730	0	0	0	0	0	0	0	0	0	0	0	0	730
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	244,293	0	0	0	0	0	0	0	0	0	0	0	0	244,293
	825-Clearings	-244,293	0	0	0	0	0	0	0	0	0	0	0	0	-244,293
	Clr Sum	-244,293	0	0	0	0	0	0	0	0	0	0	0	0	-244,293
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 65007716 Trans Substation Ground Repairs

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 2/6/2017 Estimated Completion Date 12/31/2016

List Interim In-Service Dates

Project Need Justification

Unfortunately, occurrences of vandalism and metal theft continue to occur on PNM's transmission system. These events create unsafe operations for PNM field employees. In addition, this results in additional costs to inspect the assets for damage/theft and perform work bring the assets back to operational standards. This project funds repairs and replacements to the transmission system that were caused by vandalism or theft. The typical repairs are both time consuming and expensive, however, they must be performed quickly to eliminate any safety risks caused by the thefts. Loss of the grounding system can result in failure of certain protective relays, damaged equipment, and reduce PNM's ability to serve load.

Project Alternatives

There are currently no alternatives to this project. Though PNM is in the process of running a pilot program to identify ways to better secure its transmission system assets, this program is not complete. In the meantime, PNM must address and repair any damage caused by vandalism/theft.

Technical Aspects

The typical repairs required for vandalism and metal theft include the replacement of metal downleads and repair/replacement of damaged equipment. PNM utilizes multiple methods for hardening the grounding system, including the use of copper weld, covering downleads, or camouflaging downleads. Other mitigation efforts such as alarms or hardened fencing, gates, and locks may also be considered.

Project Estimate Approach

Damage/theft at each switchyard is evaluated and used to determine potential mitigation actions. The identified actions are then used to develop an estimated cost of materials and the labor cost estimate is created to reflect the scope of the project. Bids are then solicited from known utility contractors. Historical pricing from prior projects is used to evaluate, and to the extent possible, improve pricing on current projects.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007716	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	147,972			0	0	0	0	0	0	147,972		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	585			0	0	0	0	0	0	585		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	4,352			0	0	0	0	0	0	4,352		
926-A and G Loads	7,851			0	0	0	0	0	0	7,851		
928-AFUDC Debt Reg	983			0	0	0	0	0	0	983		
929-AFUDC - Equity Regular	492			0	0	0	0	0	0	492		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	162,235			0	0	0	0	0	0	162,235		
825-Clearings	0			-162,235	0	0	0	0	0	-162,235		
Clr Sum	0			-162,235	0	0	0	0	0	-162,235		
Proj Net	162,235			-162,235	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007716	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	147,972	0	0	0	0	0	0	0	0	0	0	0	0	147,972
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	585	0	0	0	0	0	0	0	0	0	0	0	0	585
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	4,352	0	0	0	0	0	0	0	0	0	0	0	0	4,352
	926-A and G Loads	7,851	0	0	0	0	0	0	0	0	0	0	0	0	7,851
	928-AFUDC Debt Reg	983	0	0	0	0	0	0	0	0	0	0	0	0	983
	929-AFUDC - Equity Regular	492	0	0	0	0	0	0	0	0	0	0	0	0	492
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	162,235	0	0	0	0	0	0	0	0	0	0	0	0	162,235
	825-Clearings	-162,235	0	0	0	0	0	0	0	0	0	0	0	0	-162,235
	Clr Sum	-162,235	0	0	0	0	0	0	0	0	0	0	0	0	-162,235
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007716	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	147,972	0	0	0	0	0	0	0	0	0	0	0	0	147,972
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	585	0	0	0	0	0	0	0	0	0	0	0	0	585
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	4,352	0	0	0	0	0	0	0	0	0	0	0	0	4,352
	926-A and G Loads	7,851	0	0	0	0	0	0	0	0	0	0	0	0	7,851
	928-AFUDC Debt Reg	983	0	0	0	0	0	0	0	0	0	0	0	0	983
	929-AFUDC - Equity Regular	492	0	0	0	0	0	0	0	0	0	0	0	0	492
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	162,235	0	0	0	0	0	0	0	0	0	0	0	0	162,235
	825-Clearings	-162,235	0	0	0	0	0	0	0	0	0	0	0	0	-162,235
	Clr Sum	-162,235	0	0	0	0	0	0	0	0	0	0	0	0	-162,235
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007815	Year	2016									
Cost Type	Bal 6/30/16			Jui	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	112			5,000	5,000	5,000	5,000	5,000	0	25,112		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			20,000	20,000	30,000	30,000	0	0	100,000		
370-Outside Services	0			20,000	20,000	40,000	40,000	20,000	0	140,000		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-1,164	-1,164	-1,164	-3,492		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	10			394	394	394	394	394	0	1,978		
914-Pension and Benefits Load	39			1,497	1,497	1,497	1,497	1,497	0	7,524		
915-Injuries and Damages Load	8			326	326	326	326	326	0	1,638		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			724	724	1,086	1,086	0	0	3,620		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	16			3,777	3,777	6,177	6,177	2,177	0	22,102		
926-A and G Loads	11			3,744	3,744	6,240	6,240	2,080	0	22,059		
928-AFUDC Debt Reg	1			63	188	354	559	696	733	2,594		
929-AFUDC - Equity Regular	0			68	204	383	605	754	793	2,809		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	198			55,593	55,854	91,457	90,720	31,761	362	325,944		
825-Clearings	0			0	0	0	0	0	-325,968	-325,968		
Clr Sum	0			0	0	0	0	0	-325,968	-325,968		
Proj Net	198			55,593	55,854	91,457	90,720	31,761	-325,606	-24		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007815	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	25,112	0	0	0	0	0	0	0	0	0	0	0	0	25,112
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	100,000	0	0	0	0	0	0	0	0	0	0	0	0	100,000
	370-Outside Services	140,000	0	0	0	0	0	0	0	0	0	0	0	0	140,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-3,492	0	0	0	0	0	0	0	0	0	0	0	0	-3,492
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,978	0	0	0	0	0	0	0	0	0	0	0	0	1,978
	914-Pension and Benefits Load	7,524	0	0	0	0	0	0	0	0	0	0	0	0	7,524
	915-Injuries and Damages Load	1,638	0	0	0	0	0	0	0	0	0	0	0	0	1,638
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	3,620	0	0	0	0	0	0	0	0	0	0	0	0	3,620
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	22,102	0	0	0	0	0	0	0	0	0	0	0	0	22,102
	926-A and G Loads	22,059	0	0	0	0	0	0	0	0	0	0	0	0	22,059
	928-AFUDC Debt Reg	2,594	0	0	0	0	0	0	0	0	0	0	0	0	2,594
	929-AFUDC - Equity Regular	2,809	0	0	0	0	0	0	0	0	0	0	0	0	2,809
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	325,944	0	0	0	0	0	0	0	0	0	0	0	0	325,944
	825-Clearings	-325,968	0	0	0	0	0	0	0	0	0	0	0	0	-325,968
	Clr Sum	-325,968	0	0	0	0	0	0	0	0	0	0	0	0	-325,968
Proj Net		-24	0	0	0	0	0	0	0	0	0	0	0	0	-24

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007815	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	25,112	0	0	0	0	0	0	0	0	0	0	0	0	25,112
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	100,000	0	0	0	0	0	0	0	0	0	0	0	0	100,000
	370-Outside Services	140,000	0	0	0	0	0	0	0	0	0	0	0	0	140,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-3,492	0	0	0	0	0	0	0	0	0	0	0	0	-3,492
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,978	0	0	0	0	0	0	0	0	0	0	0	0	1,978
	914-Pension and Benefits Load	7,524	0	0	0	0	0	0	0	0	0	0	0	0	7,524
	915-Injuries and Damages Load	1,638	0	0	0	0	0	0	0	0	0	0	0	0	1,638
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	3,620	0	0	0	0	0	0	0	0	0	0	0	0	3,620
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	22,102	0	0	0	0	0	0	0	0	0	0	0	0	22,102
	926-A and G Loads	22,059	0	0	0	0	0	0	0	0	0	0	0	0	22,059
	928-AFUDC Debt Reg	2,594	0	0	0	0	0	0	0	0	0	0	0	0	2,594
	929-AFUDC - Equity Regular	2,809	0	0	0	0	0	0	0	0	0	0	0	0	2,809
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	325,944	0	0	0	0	0	0	0	0	0	0	0	0	325,944
	825-Clearings	-325,968	0	0	0	0	0	0	0	0	0	0	0	0	-325,968
	Clr Sum	-325,968	0	0	0	0	0	0	0	0	0	0	0	0	-325,968
	Proj Net	-24	0	0	0	0	0	0	0	0	0	0	0	0	-24

Project No: 65007917 Station Switch Replacement

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 3/6/2017 Estimated Completion Date 5/30/2017

List Interim In-Service Dates

Project Need Justification

Several older stations have breaker disconnect switches which have effectively reach the end of their service life. The rotating parts have become worn to the point that when operated, the blades fail to open properly or become unaligned, which results in their failure to close or contacts not latching correctly. Wind and thermal variations may also cause the contacts to partially open. This requires frequent maintenance and inspection.

Project Alternatives

The only other alternative to this project is individual rebuilding and replacement of worn parts. This is labor intensive and requires extended outages on bus segments. In addition, certain switches are no longer supported by a manufacturer so parts are not available. The complete replacement of the system with new equipment is the only practical solution.

Technical Aspects

Work will include the replacement of switches on the structures. Tests will be done to ensure the switches are set to the proper current rating and interrupting capacity. These switches will then be physically mounted on the associated structure. Final testing will be done before the system is commissioned.

Project Estimate Approach

This project was estimated using the standard procedure used by System Engineering. In addition, alliance pricing from our station switch provider was used. Labor and contractor estimates were created from past projects that are similar in nature. All overhead costs are standard and calculated using the approved corporate software. For this project, in-house labor is estimated at 10% of base costs (unloaded costs). This includes on-site work as well as some engineering design. Materials are estimated at 45% and construction services at 45% with work performed by qualified utility contractors.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65007917	Year	2016									
Cost Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65007917	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	3,000	3,000	3,000	3,000	0	0	0	0	0	0	0	0	12,000	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	140,500	97,000	0	0	0	0	0	0	0	0	237,500	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	235	235	235	235	0	0	0	0	0	0	0	0	941	
914-Pension and Benefits Load	0	819	819	819	819	0	0	0	0	0	0	0	0	3,275	
915-Injuries and Damages Load	0	187	187	187	187	0	0	0	0	0	0	0	0	746	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	10,046	6,936	0	0	0	0	0	0	0	0	16,981	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	115	115	3,937	2,754	0	0	0	0	0	0	0	0	6,921	
926-A and G Loads	0	202	202	9,643	6,720	0	0	0	0	0	0	0	0	16,766	
928-AFUDC Debt Reg	0	6	18	243	618	775	0	0	0	0	0	0	0	1,659	
929-AFUDC - Equity Regular	0	8	23	319	810	1,016	0	0	0	0	0	0	0	2,177	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	4,571	4,599	168,929	119,077	1,791	0	0	0	0	0	0	0	298,967	
825-Clearings	0	0	0	0	0	-298,967	0	0	0	0	0	0	0	-298,967	
Clr Sum	0	0	0	0	0	-298,967	0	0	0	0	0	0	0	-298,967	
Proj Net	0	4,571	4,599	168,929	119,077	-297,176	0	0	0	0	0	0	0	0	

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65007917	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	12,000	0	0	0	0	0	0	0	0	0	0	0	0	12,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	237,500	0	0	0	0	0	0	0	0	0	0	0	0	237,500
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	941	0	0	0	0	0	0	0	0	0	0	0	0	941
	914-Pension and Benefits Load	3,275	0	0	0	0	0	0	0	0	0	0	0	0	3,275
	915-Injuries and Damages Load	746	0	0	0	0	0	0	0	0	0	0	0	0	746
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	16,981	0	0	0	0	0	0	0	0	0	0	0	0	16,981
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	6,921	0	0	0	0	0	0	0	0	0	0	0	0	6,921
	926-A and G Loads	16,766	0	0	0	0	0	0	0	0	0	0	0	0	16,766
	928-AFUDC Debt Reg	1,659	0	0	0	0	0	0	0	0	0	0	0	0	1,659
	929-AFUDC - Equity Regular	2,177	0	0	0	0	0	0	0	0	0	0	0	0	2,177
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	298,967	0	0	0	0	0	0	0	0	0	0	0	0	298,967
	825-Clearings	-298,967	0	0	0	0	0	0	0	0	0	0	0	0	-298,967
	Clr Sum	-298,967	0	0	0	0	0	0	0	0	0	0	0	0	-298,967
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 65008116 Comm Power Operations DACCS

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 10/31/2016 Estimated Completion Date 12/31/2016

List Interim In-Service Dates

Project Need Justification

The DACCS (Digital Access Cross Connect) is a piece of equipment that groom circuits so that they can be terminated at the Power Operations Center. The existing DACCS was installed 20 years ago. The manufacturer has long since stopped making spare equipment and we must now look for spares on the grey market. Also, the manufacturer no longer provides technical support in the event the equipment fails and the failure is beyond the ability of the PNM technical team. Another reason for replacement is that PNM's network has outgrown the existing DACCS as the transmission network has grown. This new platform will triple the amount of circuits available and will support growth over the next 10 years.

Project Alternatives

Continue operations on the existing DACCS system. Risk a long outage due to lack of support from the manufacturer.

Technical Aspects

The purpose of the DACCS is to groom circuits coming in from the outside network so they can be efficiently terminated to monitoring equipment used by Power Operations to monitor all the switching stations in the field. This new platform will double the amount of ports available for turn up of new service. The existing DACCS was installed about 20 years ago. The manufacturer, Tellabs, stopped making parts and supporting upgrades on this platform over 5 years ago. All the circuit connections available have been used up. Also, DACCS takes a service outage, finding spare cards will be difficult since the Tellabs no longer makes them. The new DACCS platform will make it possible to get technical help when necessary for Tier II or Tier III support for problems that go beyond the expertise of local technicians. Such support is not available on the old platform.

Project Estimate Approach

Fixed price

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65008116	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			4,000	5,000	5,000	5,000	0	0	19,000		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			20,000	20,000	20,000	0	0	0	60,000		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-467	-467	-467	-1,401		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			315	394	394	394	0	0	1,495		
914-Pension and Benefits Load	0			1,198	1,497	1,497	1,497	0	0	5,689		
915-Injuries and Damages Load	0			261	326	326	326	0	0	1,239		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			724	724	724	0	0	0	2,172		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			2,062	2,177	2,177	577	0	0	6,994		
926-A and G Loads	0			1,997	2,080	2,080	416	0	0	6,573		
928-AFUDC Debt Reg	0			34	105	178	224	233	234	1,009		
929-AFUDC - Equity Regular	0			37	114	193	243	253	253	1,093		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			30,628	32,417	32,569	8,210	19	19	103,863		
825-Clearings	0			0	0	0	0	0	-103,863	-103,863		
Clr Sum	0			0	0	0	0	0	-103,863	-103,863		
Proj Net	0			30,628	32,417	32,569	8,210	19	-103,843	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65008116	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	19,000	0	0	0	0	0	0	0	0	0	0	0	0	19,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	60,000	0	0	0	0	0	0	0	0	0	0	0	0	60,000
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-1,401	0	0	0	0	0	0	0	0	0	0	0	0	-1,401
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,495	0	0	0	0	0	0	0	0	0	0	0	0	1,495
	914-Pension and Benefits Load	5,689	0	0	0	0	0	0	0	0	0	0	0	0	5,689
	915-Injuries and Damages Load	1,239	0	0	0	0	0	0	0	0	0	0	0	0	1,239
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	2,172	0	0	0	0	0	0	0	0	0	0	0	0	2,172
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	6,994	0	0	0	0	0	0	0	0	0	0	0	0	6,994
	926-A and G Loads	6,573	0	0	0	0	0	0	0	0	0	0	0	0	6,573
	928-AFUDC Debt Reg	1,009	0	0	0	0	0	0	0	0	0	0	0	0	1,009
	929-AFUDC - Equity Regular	1,093	0	0	0	0	0	0	0	0	0	0	0	0	1,093
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	103,863	0	0	0	0	0	0	0	0	0	0	0	0	103,863
	825-Clearings	-103,863	0	0	0	0	0	0	0	0	0	0	0	0	-103,863
	Clr Sum	-103,863	0	0	0	0	0	0	0	0	0	0	0	0	-103,863
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65008116	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	19,000	0	0	0	0	0	0	0	0	0	0	0	0	19,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	60,000	0	0	0	0	0	0	0	0	0	0	0	0	60,000
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-1,401	0	0	0	0	0	0	0	0	0	0	0	0	-1,401
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,495	0	0	0	0	0	0	0	0	0	0	0	0	1,495
	914-Pension and Benefits Load	5,689	0	0	0	0	0	0	0	0	0	0	0	0	5,689
	915-Injuries and Damages Load	1,239	0	0	0	0	0	0	0	0	0	0	0	0	1,239
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	2,172	0	0	0	0	0	0	0	0	0	0	0	0	2,172
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	6,994	0	0	0	0	0	0	0	0	0	0	0	0	6,994
	926-A and G Loads	6,573	0	0	0	0	0	0	0	0	0	0	0	0	6,573
	928-AFUDC Debt Reg	1,009	0	0	0	0	0	0	0	0	0	0	0	0	1,009
	929-AFUDC - Equity Regular	1,093	0	0	0	0	0	0	0	0	0	0	0	0	1,093
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	103,863	0	0	0	0	0	0	0	0	0	0	0	0	103,863
	825-Clearings	-103,863	0	0	0	0	0	0	0	0	0	0	0	0	-103,863
	Clr Sum	-103,863	0	0	0	0	0	0	0	0	0	0	0	0	-103,863
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 65008314 Ambrosia Capacitor Switcher

Company: 002-Transmission Services

Location: 650 Transmission

Project Information

Construction Start Date 3/1/2015 Estimated Completion Date 4/30/2018

List Interim In-Service Dates

N/A

Project Need Justification

Breaker 19292, which is used to switch capacitor bank #1 and #2 onto the 115kV MA transmission line, has reached its end of useful life. System Engineering has recommended replacing the breaker before a failure forces the capacitor bank out of service. In addition, capacitor bank #2 has been out of service for several months, and it would need to be repaired prior to putting it back in service with replacement of breaker 19292. Operations has indicated that both capacitors in capacitor bank #2 are no longer needed, therefore, capacitor bank #2 can be retired.

Project Alternatives

The alternative for this project would be to continue repair of breakers as necessary. However, with parts increasingly hard to find for this old breaker design this will become increasingly difficult. This would also involve sending crews approximately 100 miles each way from Albuquerque to Ambrosia Lake station near Milan, New Mexico.

Technical Aspects

Work will involve replacement of breaker 19292 with a new 115kV pre-insertion resistor breaker and retirement of capacitor bank #2. The remnants of capacitor bank #2 will be used as spare parts. The breaker will be replaced with a modern design with the same voltage, but with additional protections for the switching capacitor banks and monitoring systems to track for preventative maintenance purposes.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65008314	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	10,233		200	200	200	200	200	200	11,433		
	120-Overtime-General	0		0	0	0	0	0	0	0		
	350-Material Issues-Major	0		0	0	0	0	0	0	0		
	370-Outside Services	217,648		5,000	5,000	5,000	0	0	0	232,648		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	832		16	16	16	16	16	16	927		
	914-Pension and Benefits Load	2,692		60	60	60	60	60	60	3,051		
	915-Injuries and Damages Load	795		13	13	13	13	13	13	873		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	1,425		0	0	0	0	0	0	1,425		
	922-Minor Material Load	0		0	0	0	0	0	0	0		
	925-E and S Loads	10,758		423	423	423	23	23	23	12,097		
	926-A and G Loads	19,093		433	433	433	17	17	17	20,441		
	928-AFUDC Debt Reg	10,120		654	671	688	699	703	707	14,241		
	929-AFUDC - Equity Regular	10,348		709	727	745	757	761	765	14,812		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	283,944		7,507	7,542	7,578	1,784	1,792	1,801	311,949		
	825-Clearings	0		0	0	0	0	0	0	0		
	Clr Sum	0		0	0	0	0	0	0	0		
Proj Net		283,944		7,507	7,542	7,578	1,784	1,792	1,801	311,949		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65008314	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	11,433	0	0	0	0	0	0	0	0	0	0	0	0	11,433
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	232,648	0	0	0	0	0	0	0	0	0	0	0	0	232,648
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	927	0	0	0	0	0	0	0	0	0	0	0	0	927
	914-Pension and Benefits Load	3,051	0	0	0	0	0	0	0	0	0	0	0	0	3,051
	915-Injuries and Damages Load	873	0	0	0	0	0	0	0	0	0	0	0	0	873
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	1,425	0	0	0	0	0	0	0	0	0	0	0	0	1,425
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	12,097	0	0	0	0	0	0	0	0	0	0	0	0	12,097
	926-A and G Loads	20,441	0	0	0	0	0	0	0	0	0	0	0	0	20,441
	928-AFUDC Debt Reg	14,241	822	827	832	837	842	847	852	857	862	867	873	878	24,435
	929-AFUDC - Equity Regular	14,812	1,078	1,084	1,091	1,097	1,104	1,111	1,117	1,124	1,131	1,138	1,144	1,151	28,182
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	311,949	1,899	1,911	1,922	1,934	1,946	1,957	1,969	1,981	1,993	2,005	2,017	2,029	335,512
	825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proj Net	311,949	1,899	1,911	1,922	1,934	1,946	1,957	1,969	1,981	1,993	2,005	2,017	2,029	335,512

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65008314	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	11,433	200	200	1,700	37,300	1,700	0	0	0	0	0	0	0	52,533
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	50,000	0	30,000	0	0	0	0	0	0	0	0	0	80,000
370-Outside Services	232,648	0	10,000	35,000	95,000	0	0	0	0	0	0	0	0	372,648
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	927	16	16	133	2,924	133	0	0	0	0	0	0	0	4,149
914-Pension and Benefits Load	3,051	55	55	464	10,179	464	0	0	0	0	0	0	0	14,268
915-Injuries and Damages Load	873	12	12	106	2,320	106	0	0	0	0	0	0	0	3,430
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	1,425	3,575	0	2,145	0	0	0	0	0	0	0	0	0	7,145
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	12,097	1,368	280	1,833	4,018	65	0	0	0	0	0	0	0	19,661
926-A and G Loads	20,441	3,373	685	4,482	8,891	114	0	0	0	0	0	0	0	37,987
928-AFUDC Debt Reg	24,435	961	1,057	1,176	1,491	1,711	0	0	0	0	0	0	0	30,831
929-AFUDC - Equity Regular	28,182	866	953	1,060	1,344	1,543	0	0	0	0	0	0	0	33,948
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	335,512	60,427	13,258	78,100	163,467	5,837	0	0	0	0	0	0	0	656,600
825-Clearings	0	0	0	0	0	-659,861	0	0	0	0	0	0	0	-659,861
Clr Sum	0	0	0	0	0	-659,861	0	0	0	0	0	0	0	-659,861
Proj Net	335,512	60,427	13,258	78,100	163,467	-654,024	0	0	0	0	0	0	0	-3,261

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Project No: 65008415 VS Line Relay Upgrade

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 9/7/2015 Estimated Completion Date 4/30/2017

List Interim In-Service Dates

Project Need Justification

The VS 115kV line is a significant tie for service in the Las Vegas and Northern New Mexico area. This particular line interconnects with Tri-States Generation and Transmission Cooperative (TSGT) at the Storrie Lake switchyard. PNM's section of the line has aging and difficult to maintain electro-mechanical relays. The current condition of these relays increases the probability of misoperations and unexpected losses of circuit operation. Beyond these operational risks, the current relays are also difficult to maintain. Due to the mechanical nature of these devices, specifically the fact that they contain numerous moving parts, the likelihood of inadvertently bumping one of these devices (which increases the risk of mis-operations and losses of circuit operation) during maintenance is high. In addition the testing procedures for the current relays are cumbersome and require more frequent testing than newer equipment with modern technology. At the same time, many utilities are moving away from these types of relays, therefore the technical skills required to perform maintenance on them is becoming scarcer. The purpose of this project is part of a larger PNM effort to phase out these older relays system-wide in favor of more modern and technologically capable microprocessor designs. TSGT has recently upgraded its yard to modern standards and has asked PNM to do the same for the VS line. This project request is based on the timing for TSGT's request for modifications and is in addition to wider PNM efforts to replace the older relays.

Project Alternatives

The alternative is to do nothing and rely on the existing electro-mechanical relays. However, this course of action does not resolve the increased maintenance issues described above, address the fact that the relays will still be susceptible to misoperations, or support PNM's broader efforts to support technical standardization across the system.

Technical Aspects

This project will involve designing a new relay installation device that uses PNM's standard microprocessor relay packages; removing the existing electro-mechanical relay equipment from racks; and installing the new microprocessor technology. Work will also include some rewiring to ensure the new equipment is compatible with the settings for the VS 115kV circuit.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65008415	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	6,228		2,000	2,000	2,000	2,000	2,000	2,000	18,228		
	120-Overtime-General	0		0	0	0	0	0	0	0		
	350-Material Issues-Major	0		25,000	0	0	0	25,000	0	50,000		
	370-Outside Services	0		0	3,000	3,000	39,057	39,057	39,057	123,171		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	567		157	157	157	157	157	157	1,511		
	914-Pension and Benefits Load	2,157		599	599	599	599	599	599	5,749		
	915-Injuries and Damages Load	470		130	130	130	130	130	130	1,252		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	80		905	0	0	0	905	0	1,890		
	922-Minor Material Load	0		0	0	0	0	0	0	0		
	925-E and S Loads	1,243		2,231	471	471	3,355	5,355	3,355	16,482		
	926-A and G Loads	1,751		2,246	416	416	3,416	5,496	3,416	17,158		
	928-AFUDC Debt Reg	166		100	145	161	225	369	515	1,681		
	929-AFUDC - Equity Regular	83		108	157	175	243	400	557	1,724		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	12,745		33,477	7,076	7,110	49,183	79,469	49,787	238,847		
	825-Clearings	0		0	0	0	0	0	0	0		
	Cir Sum	0		0	0	0	0	0	0	0		
Proj Net		12,745		33,477	7,076	7,110	49,183	79,469	49,787	238,847		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65008415	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	18,228	2,000	2,000	2,000	0	0	0	0	0	0	0	0	0	24,228
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	50,000	0	0	0	0	0	0	0	0	0	0	0	0	50,000
	370-Outside Services	123,171	0	3,000	3,000	0	0	0	0	0	0	0	0	0	129,171
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,511	157	157	157	0	0	0	0	0	0	0	0	0	1,982
914-Pension and Benefits Load	5,749	546	546	546	0	0	0	0	0	0	0	0	0	0	7,387
915-Injuries and Damages Load	1,252	124	124	124	0	0	0	0	0	0	0	0	0	0	1,625
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	1,890	0	0	0	0	0	0	0	0	0	0	0	0	0	1,890
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	16,482	77	158	158	0	0	0	0	0	0	0	0	0	0	16,876
926-A and G Loads	17,158	134	336	336	0	0	0	0	0	0	0	0	0	0	17,964
928-AFUDC Debt Reg	1,681	665	682	702	715	0	0	0	0	0	0	0	0	0	4,445
929-AFUDC - Equity Regular	1,724	873	894	921	937	0	0	0	0	0	0	0	0	0	5,350
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	238,847	4,577	7,897	7,945	1,652	0	0	0	0	0	0	0	0	260,917
	825-Clearings	0	0	0	0	-275,824	0	0	0	0	0	0	0	0	-275,824
	Clr Sum	0	0	0	0	-275,824	0	0	0	0	0	0	0	0	-275,824
	Proj Net	238,847	4,577	7,897	7,945	-274,172	0	0	0	0	0	0	0	0	-14,907

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65008415	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	24,228	0	0	0	0	0	0	0	0	0	0	0	0	24,228
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	50,000	0	0	0	0	0	0	0	0	0	0	0	0	50,000
	370-Outside Services	129,171	0	0	0	0	0	0	0	0	0	0	0	0	129,171
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,982	0	0	0	0	0	0	0	0	0	0	0	0	1,982
	914-Pension and Benefits Load	7,387	0	0	0	0	0	0	0	0	0	0	0	0	7,387
	915-Injuries and Damages Load	1,625	0	0	0	0	0	0	0	0	0	0	0	0	1,625
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	1,890	0	0	0	0	0	0	0	0	0	0	0	0	1,890
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	16,876	0	0	0	0	0	0	0	0	0	0	0	0	16,876
	926-A and G Loads	17,964	0	0	0	0	0	0	0	0	0	0	0	0	17,964
	928-AFUDC Debt Reg	4,445	0	0	0	0	0	0	0	0	0	0	0	0	4,445
	929-AFUDC - Equity Regular	5,350	0	0	0	0	0	0	0	0	0	0	0	0	5,350
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	260,917	0	0	0	0	0	0	0	0	0	0	0	0	260,917
	825-Clearings	-275,824	0	0	0	0	0	0	0	0	0	0	0	0	-275,824
	Clr Sum	-275,824	0	0	0	0	0	0	0	0	0	0	0	0	-275,824
	Proj Net	-14,907	0	0	0	0	0	0	0	0	0	0	0	0	-14,907

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Company: 002-Transmission Services
Location: 650 Transmission

<u>Construction Start Date</u>	5/24/2016	<u>Estimated Completion Date</u>	11/30/2016
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Project Need Justification

Project Alternatives

Technical Aspects

Project Estimate Approach

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65008616	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			5,000	5,000	5,000	5,000	0	0	20,000		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			50,000	50,000	50,000	50,000	0	0	200,000		
370-Outside Services	0			50,000	50,000	50,000	50,000	0	0	200,000		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-2,084	-2,084	0	-4,167		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			394	394	394	394	0	0	1,574		
914-Pension and Benefits Load	0			1,497	1,497	1,497	1,497	0	0	5,988		
915-Injuries and Damages Load	0			326	326	326	326	0	0	1,304		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,810	1,810	1,810	1,810	0	0	7,240		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			8,577	8,577	8,577	8,577	0	0	34,309		
926-A and G Loads	0			8,736	8,736	8,736	8,736	0	0	34,944		
928-AFUDC Debt Reg	0			142	428	715	1,000	1,143	0	3,428		
929-AFUDC - Equity Regular	0			154	463	774	1,083	1,238	0	3,712		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			126,636	127,231	127,828	126,340	297	0	508,332		
825-Clearings	0			0	0	0	0	-508,332	0	-508,332		
Clr Sum	0			0	0	0	0	-508,332	0	-508,332		
Proj Net	0			126,636	127,231	127,828	126,340	-508,036	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65008616	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	20,000	0	0	0	0	0	0	0	0	0	0	0	0	20,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	200,000	0	0	0	0	0	0	0	0	0	0	0	0	200,000
	370-Outside Services	200,000	0	0	0	0	0	0	0	0	0	0	0	0	200,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-4,167	0	0	0	0	0	0	0	0	0	0	0	0	-4,167
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,574	0	0	0	0	0	0	0	0	0	0	0	0	1,574
	914-Pension and Benefits Load	5,988	0	0	0	0	0	0	0	0	0	0	0	0	5,988
	915-Injuries and Damages Load	1,304	0	0	0	0	0	0	0	0	0	0	0	0	1,304
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	7,240	0	0	0	0	0	0	0	0	0	0	0	0	7,240
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	34,309	0	0	0	0	0	0	0	0	0	0	0	0	34,309
	926-A and G Loads	34,944	0	0	0	0	0	0	0	0	0	0	0	0	34,944
	928-AFUDC Debt Reg	3,428	0	0	0	0	0	0	0	0	0	0	0	0	3,428
	929-AFUDC - Equity Regular	3,712	0	0	0	0	0	0	0	0	0	0	0	0	3,712
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	508,332	0	0	0	0	0	0	0	0	0	0	0	0	508,332
	825-Clearings	-508,332	0	0	0	0	0	0	0	0	0	0	0	0	-508,332
	Clr Sum	-508,332	0	0	0	0	0	0	0	0	0	0	0	0	-508,332
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65008616	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	20,000	0	0	0	0	0	0	0	0	0	0	0	0	20,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	200,000	0	0	0	0	0	0	0	0	0	0	0	0	200,000
	370-Outside Services	200,000	0	0	0	0	0	0	0	0	0	0	0	0	200,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-4,167	0	0	0	0	0	0	0	0	0	0	0	0	-4,167
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,574	0	0	0	0	0	0	0	0	0	0	0	0	1,574
	914-Pension and Benefits Load	5,988	0	0	0	0	0	0	0	0	0	0	0	0	5,988
	915-Injuries and Damages Load	1,304	0	0	0	0	0	0	0	0	0	0	0	0	1,304
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	7,240	0	0	0	0	0	0	0	0	0	0	0	0	7,240
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	34,309	0	0	0	0	0	0	0	0	0	0	0	0	34,309
	926-A and G Loads	34,944	0	0	0	0	0	0	0	0	0	0	0	0	34,944
	928-AFUDC Debt Reg	3,428	0	0	0	0	0	0	0	0	0	0	0	0	3,428
	929-AFUDC - Equity Regular	3,712	0	0	0	0	0	0	0	0	0	0	0	0	3,712
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	508,332	0	0	0	0	0	0	0	0	0	0	0	0	508,332
	825-Clearings	-508,332	0	0	0	0	0	0	0	0	0	0	0	0	-508,332
	Clr Sum	-508,332	0	0	0	0	0	0	0	0	0	0	0	0	-508,332
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 65009012 Rio Puerco 345kV Station Expansion

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

<u>Construction Start Date</u>	1/15/2015	<u>Estimated Completion Date</u>	8/31/2016
<u>List Interim In-Service Dates</u>	N/A		

Project Need Justification

Technical studies demonstrate that this area will face a potential transformer overload, which would place PNM in violation of NERC Transmission Planning compliance standards (TPL). Non-compliance with NERC standards could subject PNM to fines as high one million dollars a day, per violation depending on the degree of the violations, number of occurrences and other factors of the violation.

Project Alternatives

As an alternative, construction of one or more new transmission lines is technically a feasible solution but made difficult by the types of permits necessary for acquisition of new right-of-ways subject to federal, state, and local load use regulations. Additionally, a new line alternative would incur much higher construction costs due to the need for new or expanded switching stations at each end of the line and a minimum of 25 miles of 345 kV construction which exceeds \$1,000,000 per mile, making the estimated cost for this alternative to exceed \$40 million--twice the cost of the option chosen for this project.

Technical Aspects

The loss of the Rio Puerco-BA 345 kV line will overload the BA 345/115 kV transformer under heavy load condition and high power injection from San Juan and the line between BA and Blackwater. This overload is aggravated by the existing wind farms (Taiban Mesa and Aragonne Mesa) interconnected to the BA-Blackwater 345 kV line. When the Rio Puerco-BA line is out of service, only the BA and Norton 345/115 kV transformers provide outlet capability for the power flowing into BA from the east and from San Juan. The San Juan-BA 345 kV line will tie into the Rio Puerco station providing an additional Rio Puerco-BA circuit as outlet capacity from BA station under contingencies of the existing Rio Puerco-BA line. New equipment installed at the station will include 345kV reactors, circuit breakers, hand operated switches, motor operated devices, batteries, a control house, a relaying capacitor voltage transformer, a relaying coupling capacitor voltage transformer, a heating ventilation and air conditioning unit, line traps, dead end towers and support structures, surge arrestors, current transformers, wire, control cable conduit and relays.

Project Estimate Approach

This project was estimated using the standard procedure used by System Engineering. Basic materials are estimated using actual costs of past projects and these figures are updated in the estimating software periodically. For major equipment like reactors and circuit breakers PNM alliance vendors were contacted (HICO, HVB or Siemens respectively) for information regarding the costs and schedules of these major items. Labor and contractor estimates were created from past

projects that are similar in nature; for this project, past switching station work (Rio Puerco Phase 1) was referenced. The construction work, testing, construction management, and engineering design was performed with outside vendors accounting for 37% of the cost of the project, 45% toward the purchase of material and equipment, 2% towards engineering oversight, inspection services, project management and testing performed with internal labor, and 16% of the cost for this project were in loads and allowance for funds used during construction.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65009012	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	852,255			0	0	0	0	0	0	852,255		
120-Overtime-General	213,039			0	0	0	0	0	0	213,039		
350-Material Issues-Major	378,272			0	0	0	0	0	0	378,272		
370-Outside Services	13,149,608			200,000	0	0	0	0	0	13,349,608		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	76,738			0	0	0	0	0	0	76,738		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	1,312			0	0	0	0	0	0	1,312		
807-Non Refundable Contribution	-30,905			0	0	0	0	0	0	-30,905		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	84,744			0	0	0	0	0	0	84,744		
914-Pension and Benefits Load	290,015			0	0	0	0	0	0	290,015		
915-Injuries and Damages Load	80,057			0	0	0	0	0	0	80,057		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	127,537			0	0	0	0	0	0	127,537		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	615,544			16,000	0	0	0	0	0	631,544		
926-A and G Loads	836,852			8,320	0	0	0	0	0	845,172		
928-AFUDC Debt Reg	931,370			388	643	0	0	0	0	932,401		
929-AFUDC - Equity Regular	1,177,510			420	696	0	0	0	0	1,178,626		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	18,783,947			225,128	1,339	0	0	0	0	19,010,415		
825-Clearings	-24,504,392			0	-286,476	0	0	0	0	-24,790,869		
Clr Sum	-24,504,392			0	-286,476	0	0	0	0	-24,790,869		
Proj Net	-5,720,445			225,128	-285,138	0	0	0	0	-5,780,454		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65009012	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	852,255	0	0	0	0	0	0	0	0	0	0	0	0	852,255
	120-Overtime-General	213,039	0	0	0	0	0	0	0	0	0	0	0	0	213,039
	350-Material Issues-Major	378,272	0	0	0	0	0	0	0	0	0	0	0	0	378,272
	370-Outside Services	13,349,608	0	0	0	0	0	0	0	0	0	0	0	0	13,349,608
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	76,738	0	0	0	0	0	0	0	0	0	0	0	0	76,738
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	1,312	0	0	0	0	0	0	0	0	0	0	0	0	1,312
807-Non Refundable Contribution		-30,905	0	0	0	0	0	0	0	0	0	0	0	0	-30,905
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	84,744	0	0	0	0	0	0	0	0	0	0	0	0	84,744
	914-Pension and Benefits Load	290,015	0	0	0	0	0	0	0	0	0	0	0	0	290,015
	915-Injuries and Damages Load	80,057	0	0	0	0	0	0	0	0	0	0	0	0	80,057
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	127,537	0	0	0	0	0	0	0	0	0	0	0	0	127,537
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	631,544	0	0	0	0	0	0	0	0	0	0	0	0	631,544
	926-A and G Loads	845,172	0	0	0	0	0	0	0	0	0	0	0	0	845,172
	928-AFUDC Debt Reg	932,401	0	0	0	0	0	0	0	0	0	0	0	0	932,401
	929-AFUDC - Equity Regular	1,178,626	0	0	0	0	0	0	0	0	0	0	0	0	1,178,626
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	19,010,415	0	0	0	0	0	0	0	0	0	0	0	0	19,010,415
	825-Clearings	-24,790,869	0	0	0	0	0	0	0	0	0	0	0	0	-24,790,869
	Clr Sum	-24,790,869	0	0	0	0	0	0	0	0	0	0	0	0	-24,790,869
	Proj Net	-5,780,454	0	0	0	0	0	0	0	0	0	0	0	0	-5,780,454

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65009012	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	852,255	0	0	0	0	0	0	0	0	0	0	0	0	852,255	
120-Overtime-General	213,039	0	0	0	0	0	0	0	0	0	0	0	0	213,039	
350-Material Issues-Major	378,272	0	0	0	0	0	0	0	0	0	0	0	0	378,272	
370-Outside Services	13,349,608	0	0	0	0	0	0	0	0	0	0	0	0	13,349,608	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	76,738	0	0	0	0	0	0	0	0	0	0	0	0	76,738	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	1,312	0	0	0	0	0	0	0	0	0	0	0	0	1,312	
807-Non Refundable Contribution	-30,905	0	0	0	0	0	0	0	0	0	0	0	0	-30,905	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	84,744	0	0	0	0	0	0	0	0	0	0	0	0	84,744	
914-Pension and Benefits Load	290,015	0	0	0	0	0	0	0	0	0	0	0	0	290,015	
915-Injuries and Damages Load	80,057	0	0	0	0	0	0	0	0	0	0	0	0	80,057	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	127,537	0	0	0	0	0	0	0	0	0	0	0	0	127,537	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	631,544	0	0	0	0	0	0	0	0	0	0	0	0	631,544	
926-A and G Loads	845,172	0	0	0	0	0	0	0	0	0	0	0	0	845,172	
928-AFUDC Debt Reg	932,401	0	0	0	0	0	0	0	0	0	0	0	0	932,401	
929-AFUDC - Equity Regular	1,178,626	0	0	0	0	0	0	0	0	0	0	0	0	1,178,626	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	19,010,415	0	0	0	0	0	0	0	0	0	0	0	0	19,010,415	
825-Clearings	-24,790,869	0	0	0	0	0	0	0	0	0	0	0	0	-24,790,869	
Clr Sum	-24,790,869	0	0	0	0	0	0	0	0	0	0	0	0	-24,790,869	
Proj Net	-5,780,454	0	0	0	0	0	0	0	0	0	0	0	0	-5,780,454	

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Project No: 65009313 Rio Puerco Static Var Compensator (SVC)

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

<u>Construction Start Date</u>	3/19/2015	<u>Estimated Completion Date</u>	8/31/2016
<u>List Interim In-Service Dates</u>	N/A		

Project Need Justification

The Project provides a more efficient and cost effective means of controlling voltage on the PNM transmission system that serves the City of Albuquerque and surrounding area through installation of a SVC at Rio Puerco substation. During periods when a major line is out-of-service, PNM relies on large amounts of load-side generation, automated load shedding and operator action to maintain system stability if another system element is lost. The Project will provide stability to the system allowing for reduced or more effective use of automated load shedding and less dependence on operator actions and load-side generation. The Project will significantly improve voltage control during forced or planned outages of a major transmission line and in the rare event of a simultaneous loss of two lines. Additionally the Project will reduce operational complexity and the risk of NERC reliability standards violations and associated fines for non-compliance. The Project is the most efficient and cost effective way to maximize utilization of existing transmission assets to maintain transmission system reliability and compliance with NERC/WECC reliability standards.

Project Alternatives

The alternative of constructing a set of new backbone transmission lines would lead to costs exceeding \$70 Million and a construction schedule substantially longer than the current project.

Technical Aspects

Work will include the installation of a Standard Var Compensator (SVC) at Rio Puerco 345 kV station. An SVC provides continuously, fast-acting voltage support control under various system conditions and thereby improves the power system’s transmission performance. The project also includes the expansion of the 345 kV station and the installation of equipment to including transformers, capacitors, a cooling system, disconnect switches, reactors, surge arrestors, surge capacitors, thyristor valves, switchgear, electrical, and control and protection equipment.

Project Estimate Approach

Initially, PNM contacted consultants familiar with SVC projects and other utilities who had recently completed similar projects. From this information, requests for information (RFIs) were sent to leading SVC firms to understand their available expertise, project history and footprint in the U.S., typical subcontractors and vendors, technical approach, range of pricing, and ability to meet desired schedule. From this information a short list was developed and a request for proposal (RFP) was issued. Competitive bids were secured from firms (ABB, Siemens, Mitsubishi) specializing in design, installation, and construction of this type of

equipment. The project scope was based on an EPC (Engineer, Procure, and Construct) approach. The estimate was based on 9% of the costs for external engineering oversight and design, equipment training and maintenance, 57% of the project total was estimated for material, construction and testing and 10% for external project management and construction oversight. Internal engineering, project management and construction management were approximately 1% of the total project cost. Company loads, vendor taxes and allowance for funds used during construction accounted for the final 23% of the estimate.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65009313	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	441,300			5,000	0	0	0	0	0	446,300		
120-Overtime-General	42,786			0	0	0	0	0	0	42,786		
350-Material Issues-Major	137,750			0	0	0	0	0	0	137,750		
370-Outside Services	26,523,519			200,000	0	0	0	0	0	26,723,519		
374-Outside Svcs Legal	2,464			0	0	0	0	0	0	2,464		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	39,707			0	0	0	0	0	0	39,707		
610-Expenses - General	24			0	0	0	0	0	0	24		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	40,622			394	0	0	0	0	0	41,016		
914-Pension and Benefits Load	148,484			1,497	0	0	0	0	0	149,981		
915-Injuries and Damages Load	36,613			326	0	0	0	0	0	36,939		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	175,929			0	0	0	0	0	0	175,929		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	1,053,801			16,577	0	0	0	0	0	1,070,379		
926-A and G Loads	1,176,088			8,528	0	0	0	0	0	1,184,616		
928-AFUDC Debt Reg	1,133,986			1,004	0	0	0	0	0	1,134,990		
929-AFUDC - Equity Regular	1,145,534			1,088	0	0	0	0	0	1,146,621		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	32,098,608			234,414	0	0	0	0	0	32,333,022		
825-Clearings	-32,895,477			-563,837	0	0	0	0	0	-33,459,315		
Cir Sum	-32,895,477			-563,837	0	0	0	0	0	-33,459,315		
Proj Net	-796,869			-329,423	0	0	0	0	0	-1,126,293		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65009313	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	446,300	0	0	0	0	0	0	0	0	0	0	0	0	446,300
	120-Overtime-General	42,786	0	0	0	0	0	0	0	0	0	0	0	0	42,786
	350-Material Issues-Major	137,750	0	0	0	0	0	0	0	0	0	0	0	0	137,750
	370-Outside Services	26,723,519	0	0	0	0	0	0	0	0	0	0	0	0	26,723,519
	374-Outside Svcs Legal	2,464	0	0	0	0	0	0	0	0	0	0	0	0	2,464
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	39,707	0	0	0	0	0	0	0	0	0	0	0	0	39,707
	610-Expenses - General	24	0	0	0	0	0	0	0	0	0	0	0	0	24
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	41,016	0	0	0	0	0	0	0	0	0	0	0	0	41,016
	914-Pension and Benefits Load	149,981	0	0	0	0	0	0	0	0	0	0	0	0	149,981
	915-Injuries and Damages Load	36,939	0	0	0	0	0	0	0	0	0	0	0	0	36,939
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	175,929	0	0	0	0	0	0	0	0	0	0	0	0	175,929
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,070,379	0	0	0	0	0	0	0	0	0	0	0	0	1,070,379
	926-A and G Loads	1,184,616	0	0	0	0	0	0	0	0	0	0	0	0	1,184,616
	928-AFUDC Debt Reg	1,134,990	0	0	0	0	0	0	0	0	0	0	0	0	1,134,990
	929-AFUDC - Equity Regular	1,146,621	0	0	0	0	0	0	0	0	0	0	0	0	1,146,621
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	32,333,022	0	0	0	0	0	0	0	0	0	0	0	0	32,333,022
	825-Clearings	-33,459,315	0	0	0	0	0	0	0	0	0	0	0	0	-33,459,315
	Clr Sum	-33,459,315	0	0	0	0	0	0	0	0	0	0	0	0	-33,459,315
	Proj Net	-1,126,293	0	0	0	0	0	0	0	0	0	0	0	0	-1,126,293

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65009313	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	446,300	0	0	0	0	0	0	0	0	0	0	0	0	446,300
	120-Overtime-General	42,786	0	0	0	0	0	0	0	0	0	0	0	0	42,786
	350-Material Issues-Major	137,750	0	0	0	0	0	0	0	0	0	0	0	0	137,750
	370-Outside Services	26,723,519	0	0	0	0	0	0	0	0	0	0	0	0	26,723,519
	374-Outside Svcs Legal	2,464	0	0	0	0	0	0	0	0	0	0	0	0	2,464
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	39,707	0	0	0	0	0	0	0	0	0	0	0	0	39,707
	610-Expenses - General	24	0	0	0	0	0	0	0	0	0	0	0	0	24
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	41,016	0	0	0	0	0	0	0	0	0	0	0	0	41,016
	914-Pension and Benefits Load	149,981	0	0	0	0	0	0	0	0	0	0	0	0	149,981
	915-Injuries and Damages Load	36,939	0	0	0	0	0	0	0	0	0	0	0	0	36,939
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	175,929	0	0	0	0	0	0	0	0	0	0	0	0	175,929
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,070,379	0	0	0	0	0	0	0	0	0	0	0	0	1,070,379
	926-A and G Loads	1,184,616	0	0	0	0	0	0	0	0	0	0	0	0	1,184,616
	928-AFUDC Debt Reg	1,134,990	0	0	0	0	0	0	0	0	0	0	0	0	1,134,990
	929-AFUDC - Equity Regular	1,146,621	0	0	0	0	0	0	0	0	0	0	0	0	1,146,621
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	32,333,022	0	0	0	0	0	0	0	0	0	0	0	0	32,333,022
	825-Clearings	-33,459,315	0	0	0	0	0	0	0	0	0	0	0	0	-33,459,315
	Clr Sum	-33,459,315	0	0	0	0	0	0	0	0	0	0	0	0	-33,459,315
	Proj Net	-1,126,293	0	0	0	0	0	0	0	0	0	0	0	0	-1,126,293

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Project No: 65028114 Sage Estimating Program

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 11/3/2014 Estimated Completion Date 1/31/2016

List Interim In-Service Dates

Project Need Justification

PNM's current switchyard estimating software, which was developed in-house, will not function on Windows 7, PNM's enterprise-wide operating system. In addition, the software lacks reporting functionality to meet PNM's business needs effectively. This project is to procure an off-the-shelf system to replace the current system and run on Windows 7. The estimating software is used to develop detailed construction cost models, including both cost of equipment, material, and labor for all associated activity from site development, equipment installation, and testing/commissioning. PNM annually performs estimates for 50-75 individual projects and revises them as necessary.

Project Alternatives

There are no alternatives to this project, as the current estimating software and other parts of PNM's enterprise software cannot communicate correctly without the update. PNM does not have the resources to operate the current system with Windows 7 on modern operating systems. Commercially available alternatives were investigated and Sage Estimator was determined to be the most suitable choice. It is widely used in the industry and by several consulting firms who frequently support PNM work. Sage maintains a large cost database which will supplement PNM's company cost data.

Technical Aspects

Sage Estimator maintains a large national database of equipment and labor costs, which will be customized for PNM specific information such as pricing from alliance partners for transformers, metal clad switchgear, breakers, and switches. Estimates can be formatted to be compatible for input into PNM's Hyperion budget tool.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65028114	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	13,562		0	0	0	0	0	0	13,562		
	120-Overtime-General	0		0	0	0	0	0	0	0		
	350-Material Issues-Major	0		0	0	0	0	0	0	0		
	370-Outside Services	141,415		0	0	0	0	0	0	141,415		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	34		0	0	0	0	0	0	34		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	15,836		1,234	0	0	0	0	0	17,069		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	1,200		0	0	0	0	0	0	1,200		
	914-Pension and Benefits Load	4,397		0	0	0	0	0	0	4,397		
	915-Injuries and Damages Load	1,031		0	0	0	0	0	0	1,031		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	1,349		0	0	0	0	0	0	1,349		
	922-Minor Material Load	0		0	0	0	0	0	0	0		
	925-E and S Loads	0		0	0	0	0	0	0	0		
	926-A and G Loads	18,270		0	0	0	0	0	0	18,270		
	928-AFUDC Debt Reg	0		0	0	0	0	0	0	0		
	929-AFUDC - Equity Regular	0		0	0	0	0	0	0	0		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	197,093		1,234	0	0	0	0	0	198,327		
	825-Clearings	0		-275,374	0	0	0	0	0	-275,374		
	Clr Sum	0		-275,374	0	0	0	0	0	-275,374		
Proj Net		197,093		-274,141	0	0	0	0	0	-77,047		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65028114	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jui	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	13,562	0	0	0	0	0	0	0	0	0	0	0	0	13,562
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	141,415	0	0	0	0	0	0	0	0	0	0	0	0	141,415
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	34	0	0	0	0	0	0	0	0	0	0	0	0	34
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	17,069	0	0	0	0	0	0	0	0	0	0	0	0	17,069
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,200	0	0	0	0	0	0	0	0	0	0	0	0	1,200
	914-Pension and Benefits Load	4,397	0	0	0	0	0	0	0	0	0	0	0	0	4,397
	915-Injuries and Damages Load	1,031	0	0	0	0	0	0	0	0	0	0	0	0	1,031
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	1,349	0	0	0	0	0	0	0	0	0	0	0	0	1,349
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	18,270	0	0	0	0	0	0	0	0	0	0	0	0	18,270
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	198,327	0	0	0	0	0	0	0	0	0	0	0	0	198,327
	825-Clearings	-275,374	0	0	0	0	0	0	0	0	0	0	0	0	-275,374
	Clr Sum	-275,374	0	0	0	0	0	0	0	0	0	0	0	0	-275,374
	Proj Net	-77,047	0	0	0	0	0	0	0	0	0	0	0	0	-77,047

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65028114	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	13,562	0	0	0	0	0	0	0	0	0	0	0	0	13,562	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	141,415	0	0	0	0	0	0	0	0	0	0	0	0	141,415	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	34	0	0	0	0	0	0	0	0	0	0	0	0	34	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	17,069	0	0	0	0	0	0	0	0	0	0	0	0	17,069	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	1,200	0	0	0	0	0	0	0	0	0	0	0	0	1,200	
914-Pension and Benefits Load	4,397	0	0	0	0	0	0	0	0	0	0	0	0	4,397	
915-Injuries and Damages Load	1,031	0	0	0	0	0	0	0	0	0	0	0	0	1,031	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	1,349	0	0	0	0	0	0	0	0	0	0	0	0	1,349	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	18,270	0	0	0	0	0	0	0	0	0	0	0	0	18,270	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	198,327	0	0	0	0	0	0	0	0	0	0	0	0	198,327	
825-Clearings	-275,374	0	0	0	0	0	0	0	0	0	0	0	0	-275,374	
Clr Sum	-275,374	0	0	0	0	0	0	0	0	0	0	0	0	-275,374	
Proj Net	-77,047	0	0	0	0	0	0	0	0	0	0	0	0	-77,047	

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Project No: 65028315 PowerBase Software

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 7/1/2016 Estimated Completion Date 8/31/2016

List Interim In-Service Dates

Project Need Justification

The PowerBase software will be used to store and manage protection system relay settings. The software will facilitate accurate recordkeeping of all protection system relay settings, and will interact in real-time with Enoserv RTS (request to send) and Cascade databases. This will allow for accurate and auditable management of settings changes and will greatly improve North American Electric Reliability Corporation (NERC) compliance activities.

Project Alternatives

The only other alternative is to continue to store settings files in network folders and manually track settings changes with spreadsheets. This system has proven to be labor intensive, cumbersome, prone to inaccuracies, and can lead to having outdated information, which is a significant NERC, Public Regulation Commission (PRC) and Critical Infrastructure Protection (CIP) compliance exposure.

Technical Aspects

Work will include the installation of a server based on-line database that archives settings for protection relays that allows for access control to the database and will maintain version control of settings files. Settings files will be built and stored in PowerBase, which can be accessed by both engineers and relay technicians for field implementation. Once the settings have been implemented in the field on relays, the settings fields will automatically be sync'd back to the PowerBase master database which will perform accuracy verification, logging for audit purposes and version control.

Project Estimate Approach

Quotation from vendor plus labor hour's estimation.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65028315	Year	2016									
Cost Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	110			0	0	0	0	0	0	110		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	364			0	0	0	0	0	0	364		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	4,800			0	0	0	0	0	0	4,800		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	9			0	0	0	0	0	0	9		
914-Pension and Benefits Load	28			0	0	0	0	0	0	28		
915-Injuries and Damages Load	9			0	0	0	0	0	0	9		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	795			0	0	0	0	0	0	795		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	11,473			0	0	0	0	0	0	11,473		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	17,588			0	0	0	0	0	0	17,588		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	17,588			0	0	0	0	0	0	17,588		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65028315	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	110	0	0	0	0	0	0	0	0	0	0	0	0	110
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	364	0	0	0	0	0	0	0	0	0	0	0	0	364
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	4,800	0	0	0	0	0	0	0	0	0	0	0	0	4,800
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	9	0	0	0	0	0	0	0	0	0	0	0	0	9
	914-Pension and Benefits Load	28	0	0	0	0	0	0	0	0	0	0	0	0	28
	915-Injuries and Damages Load	9	0	0	0	0	0	0	0	0	0	0	0	0	9
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	795	0	0	0	0	0	0	0	0	0	0	0	0	795
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	11,473	0	0	0	0	0	0	0	0	0	0	0	0	11,473
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	17,588	0	0	0	0	0	0	0	0	0	0	0	0	17,588
	825-Clearings	0	0	0	-155,023	0	0	0	0	0	0	0	0	0	-155,023
	Clr Sum	0	0	0	-155,023	0	0	0	0	0	0	0	0	0	-155,023
	Proj Net	17,588	0	0	-155,023	0	0	0	0	0	0	0	0	0	-137,435

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65028315	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	110	0	0	0	0	0	0	0	0	0	0	0	0	110
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	364	0	0	0	0	0	0	0	0	0	0	0	0	364
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	4,800	0	0	0	0	0	0	0	0	0	0	0	0	4,800
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	9	0	0	0	0	0	0	0	0	0	0	0	0	9
	914-Pension and Benefits Load	28	0	0	0	0	0	0	0	0	0	0	0	0	28
	915-Injuries and Damages Load	9	0	0	0	0	0	0	0	0	0	0	0	0	9
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	795	0	0	0	0	0	0	0	0	0	0	0	0	795
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	11,473	0	0	0	0	0	0	0	0	0	0	0	0	11,473
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	17,588	0	0	0	0	0	0	0	0	0	0	0	0	17,588
	825-Clearings	-155,023	0	0	0	0	0	0	0	0	0	0	0	0	-155,023
	Clr Sum	-155,023	0	0	0	0	0	0	0	0	0	0	0	0	-155,023
	Proj Net	-137,435	0	0	0	0	0	0	0	0	0	0	0	0	-137,435

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Project No: 65030515 General Services Blanket

Company: 002-Transmission Services

Location: 650 Transmission

Project Information

Construction Start Date 4/1/2017

Estimated Completion Date 7/31/2021

List Interim In-Service Dates

N/A

Project Need Justification

This project encompasses several improvement initiatives for PNM Transmission to occur as equipment fails or maintenance is required. If the systems are not replaced, this could cause deterioration of the building, improper working conditions for employees, and present safety hazards. All funds would be used for replacement of the systems as needed.

Project Alternatives

The alternative is to make equipment repairs as breakdown occurs. Because this expense would be paid from a limited Operations and Maintenance budget instead of Capital, this is not recommended. At the time each project is identified and approved for Capital funding, the Building Maintenance Supervisor will work with the General Services Manager and Sourcing Analyst to solicit bids from qualified vendors. The bids will be evaluated and awarded at that time.

Technical Aspects

These funds will be used for replacement of systems such as heating, ventilation and cooling (HVAC), plumbing, roofing, electrical, and pavement. Upon identification of an issue, each individual project will be requested through a CDAP form (Capital Development and Approval Process) and an individual project number will be assigned. The CDAP is a form containing detailed project information that must be completed and submitted for capital project approval. The budgeted funds will be used solely for outside contract labor and the equipment being replaced. Further technical aspects of the work will be identified when the scope of work has been determined.

Project Estimate Approach

The estimated cost for the PWOPS facility security upgrades is based on four cost categories: Design, renovation, materials and services (labor). Based on current contracts with construction companies and various vendors, the overall cost of the project is calculated. The design phase provides the estimated costs for the particular project which includes renovation, materials and labor. Based on recent work of similar size and scope performed by our contractors and vendors, estimates were calculated to establish overall costs for this project. Corporate security has also been involved in two other projects utilizing similar video surveillance platforms and has assisted in estimating the cost of the PWOPS project. Fencing estimates were based on cost per linear foot from fencing vendors.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65030515	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	30,000	0	0	0	0	30,000		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	2,496	0	0	0	0	2,496		
928-AFUDC Debt Reg	0			0	37	73	0	0	0	110		
929-AFUDC - Equity Regular	0			0	40	80	0	0	0	119		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	32,572	153	0	0	0	32,725		
825-Clearings	0			0	0	-32,725	0	0	0	-32,725		
Clr Sum	0			0	0	-32,725	0	0	0	-32,725		
Proj Net	0			0	32,572	-32,572	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65030515	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	30,000	0	0	0	0	50,000	60,839	0	0	0	0	0	0	140,839
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	2,496	0	0	0	0	3,360	4,088	0	0	0	0	0	0	9,944
	928-AFUDC Debt Reg	110	0	0	0	0	70	224	310	0	0	0	0	0	714
	929-AFUDC - Equity Regular	119	0	0	0	0	91	294	407	0	0	0	0	0	911
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	32,725	0	0	0	0	53,521	65,445	717	0	0	0	0	0	152,408
	825-Clearings	-32,725	0	0	0	0	0	0	-119,683	0	0	0	0	0	-152,408
	Clr Sum	-32,725	0	0	0	0	0	0	-119,683	0	0	0	0	0	-152,408
	Proj Net	0	0	0	0	0	53,521	65,445	-118,966	0	0	0	0	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65030515	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	140,839	0	0	0	0	0	50,000	60,912	0	0	0	0	0	251,751
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	9,944	0	0	0	0	0	3,360	4,093	0	0	0	0	0	17,398
	928-AFUDC Debt Reg	714	0	0	0	0	0	70	225	311	0	0	0	0	1,319
	929-AFUDC - Equity Regular	911	0	0	0	0	0	63	202	280	0	0	0	0	1,456
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNM D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	152,408	0	0	0	0	0	53,492	65,432	591	0	0	0	0	271,924
	825-Clearings	-152,408	0	0	0	0	0	0	0	-119,515	0	0	0	0	-271,924
	Clr Sum	-152,408	0	0	0	0	0	0	0	-119,515	0	0	0	0	-271,924
Proj Net		0	0	0	0	0	0	53,492	65,432	-118,925	0	0	0	0	0

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Project No: 65035114 Spread Spectrum Microwave Radio Replacements Phase I

Company: 002-Transmission Services
Location: 650 Transmission

Project Information

Construction Start Date 8/1/2014 Estimated Completion Date 12/31/2017

List Interim In-Service Dates

Project Need Justification

This project involves the replacement of the Spread Spectrum Microwave radios installed in the PNM system in the 1990s. These Glendare radios were installed as a temporary solution to provide critical communication links in the Utility Communication network. These system are unlicensed and are subject to interference from other unlicensed radio users. Replacement is required to provide reliable communications for PNM's Supervisory Control and Data Acquisition (SCADA) network. In addition, the current radios do not have the same protections as more modern devices and the manufacturer is no longer in business. PNM has used almost all the spares it has available and will soon not be able to replace radios as they fail. The new radios will be purchased from NEC, and have connecting switching stations that are licensed and are not susceptible to interference. They also have equipment protection so that most hardware failures will not result in a radio outage.

Project Alternatives

One option is to perform no action, which will incur reliability risk for SCADA and Protective Relaying operations. The option of purchasing new radios was selected because NEC is a large and established communications company that will be able to support PNM in the long term. In addition NEC equipment is highly reliable, and the company provides free technical and spare support, resulting in significant O&M savings.

Technical Aspects

We are replacing Glendare radios with NEC iPASOLINK radios. To date, 46 radios have been replaced. The new radios have/will be installed primarily by PNM personnel. In many cases, new antenna systems were required as part of the replacement. If new antenna systems were required, the work was performed by contractors.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	65035114	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	65035114	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	0	55,000
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	50,000	0	50,000	0	50,000	0	50,000	0	20,000	0	0	220,000
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	16	152	323	464	636	762	943	1,104	1,226	1,355	1,399	1,471	9,852
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	392	392	392	392	392	392	392	392	392	392	392	0	4,312
914-Pension and Benefits Load	0	1,365	1,365	1,365	1,365	1,365	1,365	1,365	1,365	1,365	1,365	1,365	0	15,010
915-Injuries and Damages Load	0	311	311	311	311	311	311	311	311	311	311	311	0	3,421
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	3,575	0	3,575	0	3,575	0	3,575	0	1,430	0	0	15,730
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
926-A and G Loads	0	336	3,696	336	3,696	336	3,696	336	3,696	336	1,680	336	0	18,480
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	7,419	64,491	7,727	64,803	8,040	65,101	8,346	65,443	8,629	31,532	8,802	1,471	341,805
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	-341,805	-341,805
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	-341,805	-341,805
Proj Net	0	7,419	64,491	7,727	64,803	8,040	65,101	8,346	65,443	8,629	31,532	8,802	-340,333	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	65035114	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	55,000	0	0	0	0	0	0	0	0	0	0	0	0	55,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	220,000	0	0	0	0	0	0	0	0	0	0	0	0	220,000
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	9,852	0	0	0	0	0	0	0	0	0	0	0	0	9,852
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	4,312	0	0	0	0	0	0	0	0	0	0	0	0	4,312
	914-Pension and Benefits Load	15,010	0	0	0	0	0	0	0	0	0	0	0	0	15,010
	915-Injuries and Damages Load	3,421	0	0	0	0	0	0	0	0	0	0	0	0	3,421
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	15,730	0	0	0	0	0	0	0	0	0	0	0	0	15,730
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	18,480	0	0	0	0	0	0	0	0	0	0	0	0	18,480
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	341,805	0	0	0	0	0	0	0	0	0	0	0	0	341,805
	825-Clearings	-341,805	0	0	0	0	0	0	0	0	0	0	0	0	-341,805
	Clr Sum	-341,805	0	0	0	0	0	0	0	0	0	0	0	0	-341,805
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Distribution Tier 2 Capital Projects

PNM Exhibit JRM-7

Is contained in the following 340 pages

Electronic Instructions:

To view detailed costs for each project, click project to highlight then Press "CTRL" and left click on mouse.

To return back to index from detailed costs, click "CTRL" and "Home"

Wednesday, November 16, 2016

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PNM EXHIBIT JRM-7-Distribution Tier 2 Capital Projects

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Project No:15100507 Lighting	\$247,201	(\$4,182)	\$247,201	56
Project No:15100607 ED Remove & Replace	\$500,289	(\$35,225)	\$500,289	60
Project No:15100807 Services	\$682,509	\$41,447	\$682,509	64
Project No:15100907 Transformers	\$536,019	\$33,480	\$536,019	68
Project No:15101007 Meter Equipment	\$217,920	\$11,403	\$217,920	72
Project No:15101714 Alamogordo Feeder 12-11 Reconductor	\$655,064	\$0	\$655,064	76
Project No:15101807 Alamogordo Pure Project	\$461,517	\$12,864	\$461,517	80
Project No:15200207 Line Extension - Commercial	\$103,164	(\$2,476)	\$103,164	84
Project No:15200507 Lighting	\$118,364	\$3,812	\$118,364	88
Project No:15200607 ED Remove & Replace	\$728,864	(\$14,823)	\$728,864	92
Project No:15200807 Services	\$509,037	\$59,574	\$509,037	96
Project No:15200907 Transformers	\$335,831	\$19,625	\$335,831	100
Project No:15201007 Meter Equipment	\$186,999	\$13,658	\$186,999	104
Project No:15201307 Cable Replacement	\$168,240	\$0	\$168,240	108
Project No:15201707 Ruidoso Pure Project	\$298,528	\$7,753	\$298,528	112
Project No:15500107 Line Extension - Residential	\$203,463	(\$2,899)	\$203,463	116
Project No:15500207 Line Extension - Commercial	\$362,833	\$51,528	\$362,833	120
Project No:15500907 Transformers	\$729,150	\$15,604	\$729,150	124
Project No:15501007 Meter Equipment	\$138,367	\$8,839	\$138,367	128

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Project No:89900707 Distr. system Improvements	\$709,418 (.....\$105,815)	\$709,418....	189
Project No:89901707 Bernalillo Pure Project	\$665,429	\$11,038	\$665,429....	193
Specifics	\$12,335,407	\$43,030 ..	\$12,335,407....	197
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Project No:10001617 Voltage Controlled Capacitor Controller Upgrade to Two Way Comm	\$268,475	\$0	\$268,475....	206

Project No:10001815 Telecom Monitoring-ESC DR	\$101,054	\$0	\$101,054....	210
Project No:10001817 Uptown Underground Improvements	\$491,723	\$0	\$491,723....	214
Project No:10001912 Wayne Feeder 23	\$735,046	\$0	\$735,046....	218
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Project No:10002416 Anchor Assemblies	\$209,851 (..... \$26,029)		\$209,851....	227
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Project No:10032015 Small Cap Purch (Off Furn & Equip)	\$109,360	\$0	\$109,360....	236
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Project No:15001814 Southern Microwave Comm Upgrade Co 34	\$367,389	\$327,130	\$367,389....	245
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Project No:41002316 Bird Guard Reliability	\$568,927	\$0	\$568,927	296
Project No:41002516 Pole Grounds	\$104,375	\$0	\$104,375	300
Project No:60001618 CESR On-line Application Upgrade	\$149,942	\$0	\$149,942	304
Project No:60001717 Switchgear non-load break replacements metro	\$498,760	\$0	\$498,760	308
Project No:60001814 La Morada Substation	\$148,619	\$0	\$148,619	312
Project No:60002013 Distr Substation Grounding Repairs	\$695,388 (..... \$150,121)		\$695,388	316
Project No:60003118 Distr Cable Testing and Replace 2018	\$480,646 (..... \$435,766)		\$480,646	320
Project No:60028113 DOC Scada System Replace	\$464,927	\$0	\$464,927	324
Project No:60034016 Cedro Peak Battery Replacement (.....	\$328,649)	\$0 (..... \$328,649)		328
Project No:89901613 Rio Hondo Service Area Reconfiguration	\$231,257	\$0	\$231,257	332
Project No:89901615 Veranda Feeder 23	\$410,043	\$0	\$410,043	337
Totals for Report.....	\$28,577,274	(\$63,346)	\$28,577,274	
.....				340

Blanket

Project No: 10000507 Lighting \$330,485 (\$101,085) \$330,485

Company: 001-Electric Services

Location: 100 Distribution

Project Information

Construction Start Date 1/1/2017

Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual customer work orders which are placed in service at various times throughout the year.

Project Need Justification

This project provides the funds necessary to meet PNM's contractual obligations with municipal corporations and subdivisions within the state of New Mexico. This project will install street lighting and flood lighting systems in accordance with PNM Rate Schedule 20 Integrated System Street Lighting and Flood Lighting Service – New Installations and PNM Rate Schedule 6 Private Area Lighting Service.

Project Alternatives

Due to these contractual obligations, there are no other alternative methods for this project. Under Rate Schedule 20, customers have the option to own streetlights and pay PNM or a contractor for their installation, or to request that PNM install and own the lights. Under Rate Schedule 6 and the terms of the Agreement for Lighting Service thereunder, private lights are removed at the customer's request and at PNM's costs. PNM must honor installation requests under PNM Rate 20.

Technical Aspects

This project includes costs for the installation, relocation, or removal of street lighting and floodlighting and the removal or relocation of private area lighting. This work will include poles, light fixtures, wiring, and ancillary lighting equipment. The poles may be either wood or aluminum ranging in size from 30 to 45 feet. Fixtures include high pressure sodium or low pressure sodium lights ranging from 70 to 400 watts per fixture. For PNM owned street lights, this will include the installation of 150 feet of service wire and the luminaire. All street lighting and floodlighting systems installed will adhere to PNM equipment standards provided in Rate Schedule 20 to ensure ease of future maintenance.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01										
Project	10000507	Year	2016							
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	197,219			9,112	5,479	4,863	3,566	3,909	3,641	227,789
120-Overtime-General	173,822			970	-832	1,349	-323	3,289	897	179,172
350-Material Issues-Major	725,421			6,166	7,900	5,100	4,259	13,365	9,268	771,479
370-Outside Services	245,957			6,302	10,416	3,863	3,823	1,789	8,328	280,478
374-Outside Svcs Legal	0			0	0	0	0	0	0	0
377-Outside Services-Temp Labor	6,880			0	1,064	-77	98	1,248	327	9,540
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0
530-Employee Expense	990			0	0	0	0	0	0	990
610-Expenses - General	-1,593			2,608	1,473	2,554	1,230	2,909	1,615	10,796
805-Land and Land Rights	0			0	0	0	0	0	0	0
807-Non Refundable Contribution	-369,949			-20,311	-22,154	-7,138	-53,051	-17,251	-25,732	-515,586
829-Construction Adjustment	0			0	0	0	0	0	0	0
426-Capitalized Interest	0			0	0	0	0	0	0	0
908-Luna AR - Labor	0			0	0	0	0	0	0	0
909-Luna AR - Other	0			0	0	0	0	0	0	0
913-Payroll Taxes Load	28,953			793	366	489	255	566	357	31,780
914-Pension and Benefits Load	107,818			3,019	1,391	1,860	971	2,155	1,359	118,572
915-Injuries and Damages Load	27,758			657	303	405	211	469	296	30,100
918-San Juan AR-Labor	0			0	0	0	0	0	0	0
921-Stores / Purchasing Load	43,168			686	878	567	474	1,486	1,031	48,289
922-Minor Material Load	35,977			0	0	0	0	0	0	35,977
925-E and S Loads	270,413			5,481	5,099	3,775	2,607	5,494	4,826	297,696
926-A and G Loads	99,384			2,093	2,122	1,469	1,053	2,206	2,003	110,329
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0
937-San Juan AR - Other	0			0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0
Cost Sum	1,592,218			17,576	13,505	19,079	-34,827	21,635	8,216	1,637,401
825-Clearings	-1,641,875			-21,169	-19,176	-19,151	-5,117	-9,411	-9,100	-1,724,999
Clr Sum	-1,641,875			-21,169	-19,176	-19,151	-5,117	-9,411	-9,100	-1,724,999
Proj Net	-49,657			-3,593	-5,672	-72	-39,944	12,224	-885	-87,598

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10000507	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oci	Nov	Dec	Total
110-Straight Time-General	227,789	1,879	866	3,094	2,206	-884	89	1,439	4,007	232	-629	830	1,434	242,352
120-Overtime-General	179,172	4,627	2,133	7,621	5,434	-2,178	220	3,544	9,870	571	-1,550	2,045	3,532	215,041
350-Material Issues-Major	771,479	13,539	6,242	22,302	15,900	-6,374	644	10,372	28,882	1,672	-4,536	5,984	10,337	876,443
370-Outside Services	280,478	8,283	3,819	13,645	9,728	-3,900	394	6,346	17,670	1,023	-2,775	3,661	6,324	344,696
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	9,540	741	341	1,220	870	-349	35	567	1,580	91	-248	327	565	15,280
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	990	0	0	0	0	0	0	0	0	0	0	0	0	990
610-Expenses - General	10,796	2,072	955	3,412	2,433	-975	99	1,587	4,419	256	-694	916	1,582	26,858
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-515,586	-30,781	-14,192	-50,704	-36,149	14,491	-1,465	-23,580	-65,663	-3,800	10,313	-13,606	-23,501	-754,223
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	31,780	510	235	840	599	-240	24	391	1,088	63	-171	225	389	35,734
914-Pension and Benefits Load	118,572	1,775	818	2,924	2,085	-836	84	1,360	3,787	219	-595	785	1,355	132,335
915-Injuries and Damages Load	30,100	405	187	666	475	-190	19	310	863	50	-136	179	309	33,237
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	48,289	2,342	1,080	3,858	2,751	-1,103	111	1,794	4,997	289	-785	1,035	1,788	66,448
922-Minor Material Load	35,977	0	0	0	0	0	0	0	0	0	0	0	0	35,977
925-E and S Loads	297,696	6,496	2,994	10,699	7,628	-3,058	309	4,976	13,856	802	-2,176	2,871	4,959	348,051
926-A and G Loads	110,329	2,093	965	3,447	2,458	-985	100	1,603	4,464	258	-701	925	1,598	126,552
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	1,637,401	13,981	6,443	23,025	16,418	-6,581	664	10,709	29,820	1,727	-4,682	6,177	10,671	1,745,771
825-Clearings	-1,724,999	-13,959	-11,328	-15,422	-15,771	-7,948	-5,398	-7,257	-15,154	-10,454	-5,157	-5,514	-7,319	-1,845,679
Clr Sum	-1,724,999	-13,959	-11,328	-15,422	-15,771	-7,948	-5,398	-7,257	-15,154	-10,454	-5,157	-5,514	-7,319	-1,845,679
Proj Net	-87,598	22	-4,885	7,603	647	-14,528	-4,735	3,452	14,666	-8,728	-9,838	663	3,352	-99,908

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10000507	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	242,352	2,241	1,033	3,692	2,632	-1,055	107	1,717	4,782	277	-751	991	1,711	259,729
120-Overtime-General	215,041	5,521	2,545	9,094	6,483	-2,599	263	4,229	11,777	682	-1,850	2,440	4,215	257,841
350-Material Issues-Major	876,443	16,076	7,412	26,481	18,879	-7,568	765	12,315	34,293	1,985	-5,386	7,106	12,274	1,001,075
370-Outside Services	344,696	9,835	4,535	16,201	11,551	-4,630	468	7,535	20,981	1,214	-3,295	4,347	7,509	420,947
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	15,280	879	405	1,448	1,033	-414	42	674	1,876	109	-295	389	671	22,097
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	990	0	0	0	0	0	0	0	0	0	0	0	0	990
610-Expenses - General	26,858	2,460	1,134	4,052	2,889	-1,158	117	1,884	5,247	304	-824	1,087	1,878	45,928
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-754,223	-36,549	-16,851	-60,205	-42,922	17,207	-1,739	-27,998	-77,967	-4,512	12,245	-16,155	-27,905	-1,037,574
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	35,734	609	281	1,002	715	-286	29	466	1,298	75	-204	269	465	40,452
914-Pension and Benefits Load	132,335	2,118	976	3,489	2,487	-997	101	1,623	4,519	262	-710	936	1,617	148,757
915-Injuries and Damages Load	33,237	483	223	795	567	-227	23	370	1,030	60	-162	213	369	36,980
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	66,448	2,781	1,282	4,581	3,266	-1,309	132	2,130	5,933	343	-932	1,229	2,123	88,009
922-Minor Material Load	35,977	0	0	0	0	0	0	0	0	0	0	0	0	35,977
925-E and S Loads	348,051	7,723	3,560	12,721	9,069	-3,636	368	5,916	16,474	954	-2,587	3,414	5,896	407,923
926-A and G Loads	126,552	2,487	1,147	4,097	2,921	-1,171	118	1,905	5,306	307	-833	1,099	1,899	145,835
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	1,745,771	16,663	7,682	27,449	19,570	-7,844	794	12,767	35,549	2,060	-5,584	7,366	12,722	1,874,966
825-Clearings	-1,845,679	-10,589	-9,572	-15,829	-17,138	-8,395	-5,735	-8,196	-17,769	-12,271	-6,022	-6,492	-8,673	-1,972,360
Clr Sum	-1,845,679	-10,589	-9,572	-15,829	-17,138	-8,395	-5,735	-8,196	-17,769	-12,271	-6,022	-6,492	-8,673	-1,972,360
Proj Net	-99,908	6,074	-1,890	11,620	2,432	-16,238	-4,940	4,571	17,779	-10,211	-11,606	874	4,049	-97,394

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Project No: 10034007 ABQ Metro 2010 Tools & Equipment

Company: 001-Electric Services
Location: 100 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Clearings are expected to be completed quarterly, including: 03-17,06-17, 09-17,12-17.

Project Need Justification

This project funds the purchase of tools and equipment to replace defective and broken equipment and is necessary to ensure Line Staff is able to perform work safely and effectively.

Project Alternatives

No alternatives exist for this project. Not purchasing the equipment, will directly affect the ability of PNM employees conducting distribution work, potentially increasing costs as time and effort required to perform work will increase. Specific alternatives as to the type of tools and equipment purchased will be evaluated at the time of replacement.

Technical Aspects

The tools and equipment to be purchased include, but are not limited to, magnetic drill press, hydraulic paving breaker, streamline robo crimp, cordless phasing sets, cable cutter, recording devices for power/voltage monitoring and surveying equipment for engineering of power line construction.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10034007	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	203			0	0	0	0	0	0	203		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	-246			35,229	19,610	0	0	19,476	0	74,069		
370-Outside Services	45,337			0	0	0	0	0	0	45,337		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	43,898			0	0	0	0	0	0	43,898		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-277	-101	-104	-482		
426-Capitalized Interest	4,165			95	242	273	278	101	153	5,308		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	17			0	0	0	0	0	0	17		
914-Pension and Benefits Load	64			0	0	0	0	0	0	64		
915-Injuries and Damages Load	22			0	0	0	0	0	0	22		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	21,193			3,917	2,181	0	0	2,166	0	29,457		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	13,253			0	0	0	0	0	0	13,253		
926-A and G Loads	116,410			2,931	1,632	0	0	1,620	0	122,593		
928-AFUDC Debt Reg	3,344			0	0	0	0	0	0	3,344		
929-AFUDC - Equity Regular	2,018			0	0	0	0	0	0	2,018		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	249,678			42,172	23,664	273	1	23,263	49	339,100		
825-Clearings	-1,821,453			0	0	0	-52,888	0	-36,534	-1,910,875		
Clr Sum	-1,821,453			0	0	0	-52,888	0	-36,534	-1,910,875		
Proj Net	-1,571,775			42,172	23,664	273	-52,888	23,263	-36,485	-1,571,775		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10034007	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	203	0	0	0	0	0	0	0	0	0	0	0	0	203
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	74,069	0	30,985	0	0	31,091	0	0	31,091	0	0	30,879	0	198,115
	370-Outside Services	45,337	0	0	0	0	0	0	0	0	0	0	0	0	45,337
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	43,898	0	0	0	0	0	0	0	0	0	0	0	0	43,898
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-482	0	0	0	0	0	0	0	0	0	0	0	0	-482
	426-Capitalized Interest	5,308	0	74	165	161	116	192	199	123	200	207	120	208	7,071
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	17	0	0	0	0	0	0	0	0	0	0	0	0	17
	914-Pension and Benefits Load	64	0	0	0	0	0	0	0	0	0	0	0	0	64
	915-Injuries and Damages Load	22	0	0	0	0	0	0	0	0	0	0	0	0	22
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	29,457	0	5,360	0	0	5,379	0	0	5,379	0	0	5,342	0	50,917
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	13,253	0	0	0	0	0	0	0	0	0	0	0	0	13,253
	926-A and G Loads	122,593	0	2,082	0	0	2,089	0	0	2,089	0	0	2,075	0	130,929
	928-AFUDC Debt Reg	3,344	0	0	0	0	0	0	0	0	0	0	0	0	3,344
	929-AFUDC - Equity Regular	2,018	0	0	0	0	0	0	0	0	0	0	0	0	2,018
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	339,100	0	38,502	165	161	38,675	192	199	38,682	200	207	38,416	208	494,705
	825-Clearings	-1,910,875	0	0	0	-31,061	0	0	-37,465	0	0	-38,764	0	-48,315	-2,066,480
	Clr Sum	-1,910,875	0	0	0	-31,061	0	0	-37,465	0	0	-38,764	0	-48,315	-2,066,480
	Proj Net	-1,571,775	0	38,502	165	-30,901	38,675	192	-37,266	38,682	200	-38,556	38,416	-48,107	-1,571,775

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10034007	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	203	0	0	0	0	0	0	0	0	0	0	0	0	203
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	198,115	0	14,650	0	0	14,700	0	0	14,700	0	0	14,600	0	256,765
	370-Outside Services	45,337	0	0	0	0	0	0	0	0	0	0	0	0	45,337
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	43,898	0	0	0	0	0	0	0	0	0	0	0	0	43,898
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-482	0	0	0	0	0	0	0	0	0	0	0	0	-482
	426-Capitalized Interest	7,071	0	36	79	77	52	80	82	49	79	82	47	81	7,814
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	17	0	0	0	0	0	0	0	0	0	0	0	0	17
	914-Pension and Benefits Load	64	0	0	0	0	0	0	0	0	0	0	0	0	64
	915-Injuries and Damages Load	22	0	0	0	0	0	0	0	0	0	0	0	0	22
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	50,917	0	2,534	0	0	2,543	0	0	2,543	0	0	2,526	0	61,063
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	13,253	0	0	0	0	0	0	0	0	0	0	0	0	13,253
	926-A and G Loads	130,929	0	984	0	0	988	0	0	988	0	0	981	0	134,870
	928-AFUDC Debt Reg	3,344	0	0	0	0	0	0	0	0	0	0	0	0	3,344
	929-AFUDC - Equity Regular	2,018	0	0	0	0	0	0	0	0	0	0	0	0	2,018
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	494,705	0	18,205	79	77	18,283	80	82	18,280	79	82	18,154	81	568,186
	825-Clearings	-2,066,480	0	0	0	-14,689	0	0	-17,694	0	0	-18,291	0	-22,808	-2,139,961
	Clr Sum	-2,066,480	0	0	0	-14,689	0	0	-17,694	0	0	-18,291	0	-22,808	-2,139,961
	Proj Net	-1,571,775	0	18,205	79	-14,612	18,283	80	-17,611	18,280	79	-18,209	18,154	-22,727	-1,571,775

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Project No: 10034012 Tech Services Distr Tools

Company: 001-Electric Services
Location: 100 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates

Clearings are expected to be completed quarterly, including: 03-17,06-17, 09-17,12-17.

Project Need Justification

This project funds the purchase of tools and equipment to replace defective and broken equipment and is necessary to ensure Line Staff is able to perform work safely and effectively.

Project Alternatives

No alternatives exist for this project. Not purchasing the equipment, will directly affect the ability of PNM employees conducting distribution work, potentially increasing costs as time and effort required to perform work will increase. Specific alternatives as to the type of tools and equipment purchased will be evaluated at the time of replacement.

Technical Aspects

The tools and equipment to be purchased include, but are not limited to, magnetic drill press, hydraulic paving breaker, streamline robo crimp, cordless phasing sets, cable cutter, and recording devices for power/voltage monitoring and surveying equipment for engineering of power line construction.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10034012	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	6,116	38,142	0	4,448	0	48,706		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-44	-43	-44	-132		
426-Capitalized Interest	325			0	16	125	44	54	67	632		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	1,141			0	680	4,241	0	495	0	6,557		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	4,990			0	509	3,173	0	370	0	9,042		
928-AFUDC Debt Reg	49			0	0	0	0	0	0	49		
929-AFUDC - Equity Regular	52			0	0	0	0	0	0	52		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	6,557			0	7,321	45,682	0	5,324	22	64,906		
825-Clearings	-65,583			0	0	-42,402	0	0	-15,947	-123,932		
Clr Sum	-65,583			0	0	-42,402	0	0	-15,947	-123,932		
Proj Net	-59,026			0	7,321	3,279	0	5,324	-15,924	-59,026		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10034012	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	48,706	0	5,500	0	0	5,500	0	0	5,500	0	0	4,000	0	69,206
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-132	0	0	0	0	0	0	0	0	0	0	0	0	-132
	426-Capitalized Interest	632	0	13	29	6	21	34	7	22	35	7	18	29	852
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	6,557	0	952	0	0	952	0	0	952	0	0	692	0	10,104
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	9,042	0	370	0	0	370	0	0	370	0	0	269	0	10,420
	928-AFUDC Debt Reg	49	0	0	0	0	0	0	0	0	0	0	0	0	49
	929-AFUDC - Equity Regular	52	0	0	0	0	0	0	0	0	0	0	0	0	52
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	64,906	0	6,834	29	6	6,842	34	7	6,843	35	7	4,978	29	90,551
	825-Clearings	-123,932	0	0	-5,491	0	0	-6,603	0	0	-6,829	0	0	-6,722	-149,576
	Clr Sum	-123,932	0	0	-5,491	0	0	-6,603	0	0	-6,829	0	0	-6,722	-149,576
	Proj Net	-59,026	0	6,834	-5,462	6	6,842	-6,569	7	6,843	-6,793	7	4,978	-6,693	-59,026

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10034012	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	69,206	0	5,500	0	0	5,500	0	0	5,500	0	0	4,000	0	89,706
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-132	0	0	0	0	0	0	0	0	0	0	0	0	-132
426-Capitalized Interest	852	0	13	30	6	19	30	6	18	29	6	15	24	1,049
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	10,104	0	952	0	0	952	0	0	952	0	0	692	0	13,650
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
926-A and G Loads	10,420	0	370	0	0	370	0	0	370	0	0	269	0	11,798
928-AFUDC Debt Reg	49	0	0	0	0	0	0	0	0	0	0	0	0	49
929-AFUDC - Equity Regular	52	0	0	0	0	0	0	0	0	0	0	0	0	52
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	90,551	0	6,835	30	6	6,840	30	6	6,839	29	6	4,975	24	116,171
825-Clearings	-149,576	0	0	-5,491	0	0	-6,599	0	0	-6,820	0	0	-6,710	-175,197
Clr Sum	-149,576	0	0	-5,491	0	0	-6,599	0	0	-6,820	0	0	-6,710	-175,197
Proj Net	-59,026	0	6,835	-5,462	6	6,840	-6,569	6	6,839	-6,790	6	4,975	-6,686	-59,026

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Project No: 14000607 Distr. Remove & Replace

Company: 001-Electric Services
Location: 140 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

This project consists of many individual work orders which are placed in service at various times throughout the year the timing of which are determined by governmental road widening schedules and the occurrence of significant storms.

Project Need Justification

This project includes relocations of distribution facilities in road rights-of-way for road re-alignments or widening projects. The project also includes the removal and replacement of existing electric distribution facilities that have been damaged during storms or deteriorated through normal aging. Generally the work under this project involves the replacement of like for like equipment. Project drivers include the need to replace failed equipment and governmental roadway improvement projects.

Project Alternatives

This project has no alternatives. The work is required under franchise agreements or as necessary for maintaining system integrity and/or restoring power after storms. Though there are no alternatives to executing this work, there are typically several potential solutions that are evaluated on a project-by-project basis.

Technical Aspects

Removal and replacement of electric distribution facilities include the design, installation, and removal of wire, poles, pole hardware including insulators, cross arms, cut outs, anchor assemblies, overhead and underground switches, protection equipment, underground cable and conduits, and other equipment.

Project Estimate Approach

Often, these activities are driven by governmental roadway improvement projects and replacement of storm damaged facilities. Thus the work required is largely unknown at the time when the spend forecast is developed. Historical spend in this funding project is analyzed to develop this project’s estimated spend. The initial budget for this project was developed by applying escalation factors to the most recent 12-month actual spend (July 2015-June 2016) by the Q2RF expected customer growth provided by PNM Strategic Marketing & Product Mgmt. expressed as the percentage change in number of new customers year-over-year. Additionally, labor and non-labor cost components are escalated using annual expected cost increase percentages as supplied by PNM Budget. The typical breakdown of cost by categories is as follows: outside services (43%), company labor (19%), materials (31%), and company transportation (7%). This breakdown can fluctuate depending on the nature of the removals and replacement facilities including whether they are overhead construction or underground facilities.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	14000607	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	172,118		3,194	3,923	3,352	2,279	1,400	1,458	187,725		
	120-Overtime-General	106,228		2,541	3,069	2,712	1,809	1,091	1,164	118,613		
	350-Material Issues-Major	165,261		3,557	1,631	4,476	1,929	1,616	988	179,459		
	370-Outside Services	135,301		4,217	1,227	6,160	1,503	967	1,197	150,571		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	668		69	64	69	35	27	12	944		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	38		0	0	0	0	0	0	38		
	610-Expenses - General	0		2,243	2,315	2,827	1,482	2,022	1,434	12,323		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	-203,892		-3,539	-4,112	-2,460	-2,268	-2,176	-1,664	-220,111		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	22,329		451	550	477	322	196	206	24,532		
	914-Pension and Benefits Load	84,332		1,717	2,093	1,816	1,224	746	785	92,713		
	915-Injuries and Damages Load	23,148		374	456	395	267	162	171	24,973		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	14,882		396	181	498	215	180	110	16,460		
	922-Minor Material Load	9,861		0	0	0	0	0	0	9,861		
	925-E and S Loads	130,998		3,397	2,836	4,123	2,007	1,522	1,372	146,255		
	926-A and G Loads	43,193		1,316	1,018	1,630	752	593	520	49,022		
	928-AFUDC Debt Reg	0		0	0	0	0	0	0	0		
	929-AFUDC - Equity Regular	0		0	0	0	0	0	0	0		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	704,465		19,934	15,252	26,076	11,554	8,344	7,753	793,379		
	825-Clearings	-842,754		-11,188	-12,489	-16,837	-15,146	-12,970	-11,300	-922,684		
	Clr Sum	-842,754		-11,188	-12,489	-16,837	-15,146	-12,970	-11,300	-922,684		
	Proj Net	-138,289		8,746	2,764	9,239	-3,592	-4,625	-3,547	-129,304		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	14000607	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	187,725	-62	3,028	1,566	1,292	1,246	2,284	1,218	2,814	1,128	256	232	1,148	203,875
	120-Overtime-General	118,613	-26	1,298	672	554	534	980	522	1,208	484	110	100	492	125,541
	350-Material Issues-Major	179,459	-38	1,812	936	772	746	1,368	728	1,684	676	154	140	688	189,125
	370-Outside Services	150,571	-86	4,146	2,142	1,768	1,706	3,128	1,666	3,852	1,546	352	318	1,572	172,681
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	944	0	0	0	0	0	0	0	0	0	0	0	0	944
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	38	0	0	0	0	0	0	0	0	0	0	0	0	38
	610-Expenses - General	12,323	-40	1,894	978	808	780	1,428	762	1,760	706	160	146	718	22,423
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	-220,111	56	-2,730	-1,412	-1,164	-1,124	-2,060	-1,098	-2,538	-1,018	-232	-210	-1,036	-234,677
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	24,532	-7	339	175	145	140	256	136	315	126	29	26	129	26,341
	914-Pension and Benefits Load	92,713	-24	1,181	611	504	486	891	475	1,098	440	100	91	448	99,011
	915-Injuries and Damages Load	24,973	-5	269	139	115	111	203	108	250	100	23	21	102	26,408
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	16,460	-7	313	162	134	129	237	126	291	117	27	24	119	18,132
	922-Minor Material Load	9,861	0	0	0	0	0	0	0	0	0	0	0	0	9,861
	925-E and S Loads	146,255	-55	2,682	1,386	1,144	1,104	2,023	1,078	2,492	1,000	227	206	1,017	160,558
	926-A and G Loads	49,022	-17	818	423	349	337	617	329	761	305	69	63	310	53,387
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	793,379	-311	15,050	7,778	6,420	6,194	11,355	6,051	13,987	5,610	1,275	1,156	5,706	873,650
	825-Clearings	-922,684	-7,585	-9,974	-6,133	-2,478	-3,792	-6,822	-3,479	-4,816	-16,765	-7,165	-4,213	-12,185	-1,008,093
	Clr Sum	-922,684	-7,585	-9,974	-6,133	-2,478	-3,792	-6,822	-3,479	-4,816	-16,765	-7,165	-4,213	-12,185	-1,008,093
	Proj Net	-129,304	-7,896	5,077	1,645	3,942	2,402	4,533	2,571	9,171	-11,155	-5,891	-3,057	-6,479	-134,442

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	14000607	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	203,875	-74	3,614	1,868	1,540	1,488	2,726	1,452	3,358	1,346	306	278	1,370	223,147
120-Overtime-General	125,541	-32	1,550	800	660	638	1,170	624	1,440	578	132	120	588	133,809
350-Material Issues-Major	189,125	-44	2,152	1,112	918	886	1,624	866	2,000	802	182	166	816	200,605
370-Outside Services	172,681	-102	4,922	2,544	2,098	2,026	3,714	1,980	4,574	1,834	418	378	1,866	198,933
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	944	0	0	0	0	0	0	0	0	0	0	0	0	944
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	38	0	0	0	0	0	0	0	0	0	0	0	0	38
610-Expenses - General	22,423	-46	2,248	1,162	958	926	1,696	904	2,090	838	190	172	852	34,413
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-234,677	66	-3,242	-1,676	-1,382	-1,334	-2,446	-1,304	-3,012	-1,208	-274	-250	-1,230	-251,969
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	26,341	-8	405	209	172	167	305	163	376	151	34	31	154	28,500
914-Pension and Benefits Load	99,011	-29	1,409	728	600	580	1,063	567	1,309	525	120	109	534	106,527
915-Injuries and Damages Load	26,408	-7	321	166	137	132	242	129	298	120	27	25	122	28,121
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	18,132	-8	372	192	159	153	281	150	346	139	31	29	141	20,119
922-Minor Material Load	9,861	0	0	0	0	0	0	0	0	0	0	0	0	9,861
925-E and S Loads	160,558	-66	3,191	1,649	1,360	1,314	2,408	1,283	2,966	1,189	271	245	1,210	177,579
926-A and G Loads	53,387	-20	973	503	415	401	734	392	905	363	83	75	369	58,579
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	873,650	-369	17,916	9,258	7,635	7,377	13,518	7,205	16,650	6,676	1,520	1,378	6,792	969,207
825-Clearings	-1,008,093	-3,028	-6,559	-7,641	-3,057	-4,647	-8,294	-4,217	-5,808	-20,188	-8,625	-5,070	-14,633	-1,099,858
Clr Sum	-1,008,093	-3,028	-6,559	-7,641	-3,057	-4,647	-8,294	-4,217	-5,808	-20,188	-8,625	-5,070	-14,633	-1,099,858
Proj Net	-134,442	-3,397	11,358	1,617	4,579	2,730	5,224	2,988	10,842	-13,512	-7,105	-3,692	-7,841	-130,651

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Project No: 14000707 Distr. System Improvements

Company: 001-Electric Services
Location: 140 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

This project consists of many individual work orders which are placed in service at various times throughout the year.

Project Need Justification

This project provides for numerous small miscellaneous distribution facility improvements to improve service and operation by providing voltage support, enhancing system protection, and maintaining or improving system reliability. System improvements can include the design and installation of conduit systems, cable, wire, poles, overhead and underground switches, voltage and power factor supporting devices, and protection equipment. This project supports required standards for service as required of New Mexico Administrative Code (NMAC) Rule 17.9.560.15. The need for the improvements are typically identified through annual load analysis and system modeling of the distribution system to identify operational issues caused by normal load growth, during design of line extensions to serve new customers, through operating problems that may arise during the year such as customer low voltage complaints, and if it is found that there is a need to replace obsolete or problematic equipment

Project Alternatives

Alternatives are evaluated on a case-by case basis. This usually involves analysis by PNM’s Distribution Planning or Distribution Protection departments using simulation models of the distribution system. With these distribution models the engineers can evaluate different equipment or configuration alternatives to arrive at the best solutions for maintaining adequate voltage to all customers or for enhancing reliability. For example, the engineer might evaluate multiple options for correcting a low voltage issue such as installation of voltage regulators, increasing wire size to reduce voltage drop, or adding additional wires (phases) to split load and reduce voltage drop. The engineer will select the most cost effective and practical solution.

Technical Aspects

Distribution system improvements can include the design and installation of conduit systems, cable, wire, poles, overhead and underground switches, voltage and power factor controlling devices, and protection equipment. Examples include the installation of: capacitor banks; voltage regulators; protective devices such as fusing, sectionalizers, or reclosures; increased wire sizes or adding additional wire (such as changing single phase circuits to three phase); switches; and supervisory control and data acquisitions for monitoring and operating above devices (aka SCADA systems)Cost components include labor, materials, outside services (contractors), and transportation and equipment necessary to install the improvements.

Project Estimate Approach

Historical spend is used as a guide to estimate future funding for the project. The initial budget for this project was developed by applying labor and non-labor cost escalation factors to the most recent 12-month actual spend (July 2015-June 2016). The typical breakdown of cost by categories is as follows: company labor (11%), outside services (66%), materials (20%), and company transportation (3%). This breakdown can fluctuate depending on the nature of the system improvement work.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	14000707	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	90,505		1,853	1,996	1,590	646	2,772	3,509	102,871		
	120-Overtime-General	29,931		486	318	251	226	66	14	31,292		
	350-Material Issues-Major	172,646		15,783	8,731	8,244	4,075	1,700	689	211,868		
	370-Outside Services	456,281		629	581	355	94	282	318	458,540		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		782	850	484	193	594	770	3,673		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	-58,617		-812	-849	-905	-598	-314	-381	-62,476		
	829-Construction Adjustment	0		0	0	0	-108	-90	-82	-280		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	9,371		184	182	145	69	223	277	10,451		
	914-Pension and Benefits Load	34,761		700	693	551	261	850	1,055	38,870		
	915-Injuries and Damages Load	9,404		153	151	120	57	185	230	10,299		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	33,931		1,755	971	917	453	189	77	38,293		
	922-Minor Material Load	10,810		0	0	0	0	0	0	10,810		
	925-E and S Loads	122,824		3,805	2,498	2,172	1,040	1,234	1,269	134,843		
	926-A and G Loads	62,256		1,625	1,038	909	435	450	441	67,155		
	928-AFUDC Debt Reg	9,089		35	57	60	52	43	39	9,374		
	929-AFUDC - Equity Regular	9,537		38	61	65	56	47	42	9,846		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	992,726		27,016	17,277	14,958	6,951	8,232	8,267	1,075,428		
	825-Clearings	-1,047,198		-12,465	-14,534	-14,716	-11,377	-10,025	-9,269	-1,119,584		
	Clr Sum	-1,047,198		-12,465	-14,534	-14,716	-11,377	-10,025	-9,269	-1,119,584		
	Proj Net	-54,471		14,551	2,743	241	-4,426	-1,793	-1,002	-44,157		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	14000707	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	102,871	56	526	70	79	131	257	192	118	331	565	352	574	106,121
	120-Overtime-General	31,292	5	43	6	7	11	21	16	10	27	46	29	47	31,558
	350-Material Issues-Major	211,868	106	1,000	133	151	249	490	365	224	628	1,074	668	1,092	218,048
	370-Outside Services	458,540	1,228	15,550	2,220	2,455	4,065	6,993	5,952	3,661	10,260	17,539	10,912	17,833	557,206
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	3,673	7	60	8	9	15	29	22	14	38	64	40	65	4,045
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	-62,476	-46	-436	-58	-66	-109	-214	-159	-98	-274	-468	-291	-476	-65,169
	829-Construction Adjustment	-280	-80	-80	0	0	0	0	0	0	0	0	0	0	-439
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	10,451	5	45	6	7	11	22	16	10	28	48	30	49	10,726
	914-Pension and Benefits Load	38,870	17	155	21	23	39	76	57	35	98	167	104	169	39,830
	915-Injuries and Damages Load	10,299	4	35	5	5	9	17	13	8	22	38	24	39	10,518
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	38,293	18	173	23	26	43	85	63	39	109	186	116	189	39,362
	922-Minor Material Load	10,810	0	0	0	0	0	0	0	0	0	0	0	0	10,810
	925-E and S Loads	134,843	274	3,343	474	525	870	1,518	1,273	783	2,195	3,752	2,334	3,815	155,999
	926-A and G Loads	67,155	94	1,154	164	181	300	524	440	271	758	1,296	806	1,318	74,462
	928-AFUDC Debt Reg	9,374	34	49	48	50	48	63	76	84	101	134	155	190	10,407
	929-AFUDC - Equity Regular	9,846	45	64	63	66	62	83	100	110	133	176	203	249	11,201
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	1,075,428	1,766	21,681	3,184	3,519	5,744	9,964	8,426	5,268	14,454	24,617	15,481	25,152	1,214,684
	825-Clearings	-1,119,584	-6,043	-12,767	-2,488	-5,690	-1,810	-4,176	-3,970	-3,116	-6,820	-12,278	-6,821	-33,381	-1,218,945
	Clr Sum	-1,119,584	-6,043	-12,767	-2,488	-5,690	-1,810	-4,176	-3,970	-3,116	-6,820	-12,278	-6,821	-33,381	-1,218,945
	Proj Net	-44,157	-4,277	8,914	696	-2,171	3,934	5,789	4,456	2,152	7,633	12,339	8,660	-8,229	-4,261

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	14000707	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	106,121	57	536	71	81	134	263	196	121	337	576	358	586	109,436
120-Overtime-General	31,558	5	44	6	7	11	22	16	10	28	47	29	47	31,829
350-Material Issues-Major	218,048	107	1,015	135	153	253	497	370	227	638	1,090	678	1,108	224,319
370-Outside Services	557,206	1,754	16,568	2,203	2,492	4,126	8,113	6,041	4,716	9,700	17,803	11,075	18,100	659,897
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	4,045	7	61	8	9	15	30	22	14	38	65	41	67	4,422
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-65,169	-47	-442	-59	-67	-110	-217	-161	-99	-278	-475	-296	-483	-67,901
829-Construction Adjustment	-439	0	0	0	0	0	0	0	0	0	0	0	0	-439
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	10,726	5	45	6	7	11	22	17	10	29	49	30	50	11,008
914-Pension and Benefits Load	39,830	17	158	21	24	39	78	58	36	100	170	106	173	40,809
915-Injuries and Damages Load	10,518	4	36	5	5	9	18	13	8	23	39	24	39	10,741
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	39,362	19	176	23	26	44	86	64	39	110	189	117	192	40,447
922-Minor Material Load	10,810	0	0	0	0	0	0	0	0	0	0	0	0	10,810
925-E and S Loads	155,999	375	3,545	471	533	883	1,736	1,293	987	2,091	3,809	2,370	3,873	177,966
926-A and G Loads	74,462	130	1,225	163	184	305	600	447	342	722	1,316	819	1,338	82,051
928-AFUDC Debt Reg	10,407	139	160	165	154	124	135	140	142	155	180	193	225	12,319
929-AFUDC - Equity Regular	11,201	126	144	149	139	111	122	126	128	140	163	174	203	12,925
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	1,214,684	2,697	23,269	3,369	3,747	5,954	11,504	8,642	6,682	13,833	25,020	15,718	25,516	1,360,636
825-Clearings	-1,218,945	-5,271	-11,051	-8,066	-16,387	-4,307	-8,202	-6,863	-5,170	-9,819	-15,679	-8,299	-38,630	-1,356,690
Clr Sum	-1,218,945	-5,271	-11,051	-8,066	-16,387	-4,307	-8,202	-6,863	-5,170	-9,819	-15,679	-8,299	-38,630	-1,356,690
Proj Net	-4,261	-2,575	12,218	-4,697	-12,639	1,647	3,302	1,779	1,511	4,013	9,341	7,420	-13,114	3,945

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Project No: 14000807 Services \$286,634 (\$1,461) \$286,634

Company: 001-Electric Services

Location: 140 Distribution

Project Information

Construction Start Date 1/1/2017

Estimated Completion Date

List Interim In-Service Dates

Generally, this blanket work order is cleared quarterly; 04-15,07-15,10-15,12-15.

Project Need Justification

This project provides for the electrical connection of residential and non-residential customers' facilities to PNM's distribution system primarily within the East Mountain area east of Albuquerque. The project includes the cost of PNM labor, materials, outside services (contractors), and PNM transportation costs. PNM is obligated to serve customers within its service territory. PNM's and the customer's service cost responsibilities are defined within PNM's Rules and Regulations, specifically Rules 15, 16, & 18 filed with the New Mexico Public Regulatory Commission (NMPRC) pursuant to NMPRC Rule 210.

Project Alternatives

Customers may be served with either an overhead or underground service depending on the distribution system configuration from which they will be served and the customer's preference. For each service to a new residential customer or a non-residential customer served with an overhead service, the point of service location, service wire size and length, and route are defined to maintain service voltage within regulatory requirements. Non-residential customers located in underground electric distribution areas, or residential or non-residential customers located in overhead electric distribution areas but requesting and underground service, are required to provide the service wires per PNM rules. This project is required to provide service to new customers and existing customers upgrading their service.

Technical Aspects

This project includes the installation, connection, and in the case of service retirement, removal costs of overhead and underground conductors leading from the point where PNM wires leave the last pole or distribution box to the point of connection with the residential or non-residential customer. Only costs of labor, outside services, and transportation are included in the project. Service material costs associated with the services installed within the East Mountain area are not included within this project but instead captured in the Albuquerque services blanket, 10000807, due to PNM's centralized metro area warehouse.

Project Estimate Approach

Since the number, length, and types of services to be installed in a given year is unknown at the time of budget preparation, the budget for this blanket is

estimated by applying escalation factors to historical spend. The initial budget for this project was developed by applying customer growth and cost escalation factors to the most recent 12-month actual spend (July 2015-June 2016). The customer growth escalation factor is derived from the second quarter reforecast (Q2RF) expected customer growth provided by PNM Strategic Marketing & Product Management expressed as the percentage change in number of new customers year-over-year. Additionally, labor and non-labor cost components are escalated using annual expected cost increase percentages as supplied by PNM Budget. The typical breakdown of cost by categories is as follows: company labor (41%), outside services (47%), and company transportation (11%). This breakdown can vary over time depending on the number, type, and locations of service installations.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	14000807	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	78,251		7,509	1,956	9,007	2,808	1,892	3,086	104,509		
	120-Overtime-General	8,329		1,182	0	903	0	0	0	10,414		
	350-Material Issues-Major	228		0	0	0	0	0	0	228		
	370-Outside Services	101,355		2,107	2,395	2,148	1,281	1,307	940	111,533		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		658	817	815	501	611	986	4,388		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	-205		-18	-24	-24	-16	-18	-24	-329		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	6,822		684	154	780	221	149	243	9,053		
	914-Pension and Benefits Load	25,106		2,602	586	2,967	841	566	924	33,592		
	915-Injuries and Damages Load	6,605		567	128	646	183	123	201	8,453		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	2,849		0	0	0	0	0	0	2,849		
	922-Minor Material Load	12		0	0	0	0	0	0	12		
	925-E and S Loads	36,947		2,832	1,116	3,194	1,079	860	1,180	47,209		
	926-A and G Loads	16,693		953	430	1,071	382	317	417	20,263		
	928-AFUDC Debt Reg	0		0	0	0	0	0	0	0		
	929-AFUDC - Equity Regular	0		0	0	0	0	0	0	0		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	282,993		19,076	7,558	21,507	7,280	5,808	7,953	352,175		
	825-Clearings	-288,000		-34,641	0	0	-36,004	0	-22,762	-381,407		
	Clr Sum	-288,000		-34,641	0	0	-36,004	0	-22,762	-381,407		
Proj Net		-5,007		-15,565	7,558	21,507	-28,724	5,808	-14,809	-29,232		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	14000807	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	104,509	1,502	1,005	1,270	1,058	1,224	1,423	1,200	1,281	1,292	1,386	1,260	1,324	119,734
120-Overtime-General	10,414	62	42	52	44	51	59	50	53	53	57	52	55	11,044
350-Material Issues-Major	228	0	0	0	0	0	0	0	174	0	26	0	0	428
370-Outside Services	111,533	4,851	3,245	4,100	3,417	3,952	4,595	3,873	4,137	4,172	4,475	4,067	4,273	160,690
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	4,388	96	64	81	68	78	91	77	82	83	89	81	85	5,363
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-329	-33	-28	-33	-30	-28	-16	-28	-35	-38	-24	-28	-37	-687
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	9,053	123	82	104	86	100	116	98	105	105	113	103	108	10,296
914-Pension and Benefits Load	33,592	427	286	361	301	348	404	341	364	367	394	358	376	37,918
915-Injuries and Damages Load	8,453	97	65	82	69	79	92	78	83	84	90	82	86	9,439
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	2,849	0	0	0	0	0	0	0	30	0	4	0	0	2,884
922-Minor Material Load	12	0	0	0	0	0	0	0	0	0	0	0	0	12
925-E and S Loads	47,209	1,374	919	1,162	968	1,120	1,302	1,098	1,205	1,182	1,273	1,152	1,211	61,176
926-A and G Loads	20,263	438	293	370	308	356	414	349	385	376	405	367	386	24,711
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	352,175	8,937	5,973	7,548	6,289	7,280	8,481	7,136	7,864	7,677	8,288	7,494	7,867	443,009
825-Clearings	-381,407	-4,290	-956	-1,721	-10,672	-4,597	-6,236	-4,866	0	-2,031	-27,672	-1,594	-21,483	-467,525
Clr Sum	-381,407	-4,290	-956	-1,721	-10,672	-4,597	-6,236	-4,866	0	-2,031	-27,672	-1,594	-21,483	-467,525
Proj Net	-29,232	4,647	5,017	5,826	-4,383	2,683	2,245	2,270	7,864	5,646	-19,384	5,900	-13,616	-24,516

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	14000807	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	119,734	1,793	1,199	1,515	1,263	1,461	1,698	1,432	1,529	1,542	1,654	1,503	1,579	137,902
120-Overtime-General	11,044	74	50	63	52	60	70	59	63	64	68	62	65	11,794
350-Material Issues-Major	428	0	0	0	0	0	0	0	177	0	26	0	0	631
370-Outside Services	160,690	5,760	3,854	4,868	4,057	4,692	5,456	4,599	4,912	4,954	5,314	4,830	5,074	219,060
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	5,363	114	76	96	80	93	108	91	97	98	105	96	100	6,517
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-687	-34	-29	-34	-31	-29	-16	-28	-36	-39	-25	-28	-38	-1,054
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	10,296	146	98	124	103	119	139	117	125	126	135	123	129	11,779
914-Pension and Benefits Load	37,918	510	341	431	359	415	482	407	434	438	470	427	449	43,081
915-Injuries and Damages Load	9,439	116	78	98	82	95	110	93	99	100	107	97	102	10,616
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	2,884	0	0	0	0	0	0	0	31	0	4	0	0	2,919
922-Minor Material Load	12	0	0	0	0	0	0	0	0	0	0	0	0	12
925-E and S Loads	61,176	1,634	1,094	1,381	1,151	1,332	1,548	1,305	1,428	1,406	1,513	1,371	1,440	77,778
926-A and G Loads	24,711	520	348	440	366	424	493	415	455	447	482	436	458	29,996
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	443,009	10,634	7,108	8,981	7,482	8,661	10,088	8,490	9,314	9,137	9,853	8,916	9,358	551,031
825-Clearings	-467,525	-7,368	-1,358	-2,271	-13,683	-5,726	-7,634	-5,905	0	-2,440	-33,174	-1,906	-25,644	-574,633
Clr Sum	-467,525	-7,368	-1,358	-2,271	-13,683	-5,726	-7,634	-5,905	0	-2,440	-33,174	-1,906	-25,644	-574,633
Proj Net	-24,516	3,266	5,750	6,710	-6,200	2,936	2,454	2,584	9,314	6,697	-23,321	7,011	-16,286	-23,603

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Project No: 14001707 Abq East Mtn Pure Project

Company: 001-Electric Services
Location: 140 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2015	<u>Estimated Completion Date</u>
<u>List Interim In-Service Dates</u>		

Continuous throughout the year. Work orders are written and completed by feeder.

Project Need Justification

This work for this project is identified through the Automated Line Patrols (ALPS) process and involves repairing and replacing aging overhead distribution construction components. This work is necessary to maintain reliable service and reduce hazards to the public and PNM line crews. NMPRC Rule 17.9.560, Service Standards for Electric Utilities Rules, outlines requirements for following electrical and safety standards (National Electric Safety Code), minimizing interruption of service, and protective safety measures. Not performing this work may decrease reliability and increase hazards to PNM personnel and the public.

Project Alternatives

This project has no alternatives. The project is necessary to ensure system reliability and minimize hazardous risks to PNM personnel and the public. Alternatives for all replacements are considered on the work order level to determine the optimal replacement for the damaged/obsolete equipment.

Technical Aspects

This project involves the like-for-like replacement of aging/obsolete or damaged equipment on distribution poles. Physical items identified for replacement include lightning arrestors, cross-arms, cut-outs, capacitors, and insulators.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	14001707	Year	2016									
	Cost Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	30,826		4,194	4,393	8,029	0	5,892	0	53,334		
	120-Overtime-General	25,167		0	0	0	0	0	0	25,167		
	350-Material Issues-Major	36,190		0	0	19,296	0	0	0	55,487		
	370-Outside Services	309,977		0	0	0	0	0	0	309,977		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	4,464		330	346	632	0	464	0	6,235		
	914-Pension and Benefits Load	16,446		1,256	1,315	2,404	0	1,764	0	23,184		
	915-Injuries and Damages Load	4,009		273	286	524	0	384	0	5,476		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	15,702		0	0	2,146	0	0	0	17,847		
	922-Minor Material Load	2,367		0	0	0	0	0	0	2,367		
	925-E and S Loads	69,277		1,120	1,173	5,714	0	1,573	0	78,856		
	926-A and G Loads	34,246		349	365	2,274	0	490	0	37,724		
	928-AFUDC Debt Reg	15		0	0	0	0	0	0	15		
	929-AFUDC - Equity Regular	23		0	0	0	0	0	0	23		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	548,709		7,522	7,878	41,018	0	10,567	0	615,694		
	825-Clearings	-517,011		-17,661	0	0	-72,085	0	-22,870	-629,626		
	Clr Sum	-517,011		-17,661	0	0	-72,085	0	-22,870	-629,626		
Proj Net	31,698			-10,139	7,878	41,018	-72,085	10,567	-22,870	-13,932		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	14001707	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oci	Nov	Dec	Total
	110-Straight Time-General	53,334	670	476	474	273	327	384	384	327	273	474	476	670	58,543
	120-Overtime-General	25,167	0	0	0	0	0	0	0	0	0	0	0	0	25,167
	350-Material Issues-Major	55,487	1,266	1,560	1,796	343	1,997	1,104	1,104	1,997	343	1,796	1,560	1,266	71,619
	370-Outside Services	309,977	5,617	7,380	23,575	8,508	12,467	19,143	19,143	12,467	8,508	23,575	7,380	5,617	463,360
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	6,235	53	37	37	21	26	30	30	26	21	37	37	53	6,643
	914-Pension and Benefits Load	23,184	183	130	129	75	89	105	105	89	75	129	130	183	24,606
	915-Injuries and Damages Load	5,476	42	30	29	17	20	24	24	20	17	29	30	42	5,800
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	17,847	219	270	311	59	346	191	191	346	59	311	270	219	20,638
	922-Minor Material Load	2,367	0	0	0	0	0	0	0	0	0	0	0	0	2,367
	925-E and S Loads	78,856	1,504	1,846	5,000	1,774	2,866	3,991	3,991	2,866	1,774	5,000	1,846	1,504	112,817
	926-A and G Loads	37,724	508	633	1,737	613	994	1,386	1,386	994	613	1,737	633	508	49,466
	928-AFUDC Debt Reg	15	0	0	0	0	0	0	0	0	0	0	0	0	15
	929-AFUDC - Equity Regular	23	0	0	0	0	0	0	0	0	0	0	0	0	23
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	615,694	10,061	12,361	33,090	11,684	19,133	26,358	26,358	19,133	11,684	33,090	12,361	10,061	841,065
	825-Clearings	-629,626	-12,623	-12,413	-28,954	-15,138	-18,334	-24,753	-26,037	-20,513	-13,450	-29,162	-15,721	-11,193	-857,916
	Clr Sum	-629,626	-12,623	-12,413	-28,954	-15,138	-18,334	-24,753	-26,037	-20,513	-13,450	-29,162	-15,721	-11,193	-857,916
	Proj Net	-13,932	-2,562	-52	4,135	-3,454	799	1,605	321	-1,381	-1,766	3,928	-3,360	-1,132	-16,852

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	14001707	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	58,543	324	230	229	131	158	185	185	158	131	229	230	324	61,056
120-Overtime-General	25,167	0	0	0	0	0	0	0	0	0	0	0	0	25,167
350-Material Issues-Major	71,619	612	753	868	166	965	533	533	965	166	868	753	612	79,413
370-Outside Services	463,360	2,715	3,566	11,392	4,111	6,024	9,250	9,250	6,024	4,111	11,392	3,566	2,715	537,477
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	6,643	25	18	18	10	12	14	14	12	10	18	18	25	6,840
914-Pension and Benefits Load	24,606	88	63	63	36	43	50	50	43	36	63	63	88	25,292
915-Injuries and Damages Load	5,800	20	14	14	8	10	12	12	10	8	14	14	20	5,957
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	20,638	106	130	150	29	167	92	92	167	29	150	130	106	21,987
922-Minor Material Load	2,367	0	0	0	0	0	0	0	0	0	0	0	0	2,367
925-E and S Loads	112,817	727	892	2,416	857	1,385	1,929	1,929	1,385	857	2,416	892	727	129,226
926-A and G Loads	49,466	245	306	839	296	480	670	670	480	296	839	306	245	55,139
928-AFUDC Debt Reg	15	0	0	0	0	0	0	0	0	0	0	0	0	15
929-AFUDC - Equity Regular	23	0	0	0	0	0	0	0	0	0	0	0	0	23
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	841,065	4,862	5,972	15,990	5,644	9,244	12,736	12,736	9,244	5,644	15,990	5,972	4,862	949,959
825-Clearings	-857,916	-6,128	-6,003	-13,993	-7,313	-8,858	-11,960	-12,580	-9,912	-6,497	-14,091	-7,596	-5,409	-968,257
Clr Sum	-857,916	-6,128	-6,003	-13,993	-7,313	-8,858	-11,960	-12,580	-9,912	-6,497	-14,091	-7,596	-5,409	-968,257
Proj Net	-16,852	-1,266	-31	1,997	-1,670	386	775	155	-667	-854	1,899	-1,624	-547	-18,298

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Project No: 15001716 Tyrone Sub Rebuild

Company: 001-Electric Services
Location: 150 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2018	<u>Estimated Completion Date</u>	11/30/2018
<u>List Interim In-Service Dates</u>	na		

Project Need Justification

This project is to replace the three existing single-phase transformers with a three-phase transformer. It is recommended to eliminate the risk involved with losing one of three single-phase transformers. The project will also replace aging infrastructure and bring the non-standard substation up to PNM's standard design.

Project Alternatives

There are no other alternatives for this project, as this is the only viable solution. Doing nothing would lead to the failure of a single phase transformer and extended power outages for customers in the Tyrone area.

Technical Aspects

Specific work will involve the replacement of three existing 69-12.47 kV, 1.25 MVA single-phase transformers and a voltage regulator at the Tyrone Substation with one 69-12.47 kV, 7.5 MVA three-phase transformer with an load tap changer (LTC).

Project Estimate Approach

Estimate from System Engineering using similar projects

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15001716	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Cir Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15001716	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15001716	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	5,317	1,546	1,936	2,133	2,062	3,106	5,185	5,644	7,708	1,034	1,034	0	36,705
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	6,433	2,571	14,179	1,935	2,285	5,793	4,012	1,183	1,316	108	0	39,815
370-Outside Services	0	57,718	97,588	10,000	12,000	101,491	12,500	13,734	58,479	33,410	20,592	15,857	0	433,369
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	417	121	152	167	162	244	407	442	604	81	81	0	2,878
914-Pension and Benefits Load	0	1,451	422	528	582	563	848	1,415	1,540	2,104	282	282	0	10,017
915-Injuries and Damages Load	0	331	96	120	133	128	193	323	351	479	64	64	0	2,283
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	1,113	445	2,453	335	395	1,002	694	205	228	19	0	6,888
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	12,525	20,392	2,939	5,605	20,417	3,682	5,156	13,530	8,734	4,487	3,346	0	100,813
926-A and G Loads	0	4,236	7,094	975	1,903	7,089	1,202	1,661	4,579	2,843	1,542	1,142	0	34,265
928-AFUDC Debt Reg	0	107	391	594	674	904	1,115	1,198	1,366	1,564	1,685	1,761	0	11,360
929-AFUDC - Equity Regular	0	97	352	536	608	815	1,005	1,080	1,231	1,410	1,519	1,587	0	10,240
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	82,198	135,548	20,796	40,436	135,900	26,575	36,953	91,869	60,243	32,830	25,282	0	688,632
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	-688,632	0	-688,632
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	-688,632	0	-688,632
Proj Net	0	82,198	135,548	20,796	40,436	135,900	26,575	36,953	91,869	60,243	32,830	-663,350	0	0

Project No: 15002114 SNM Misc 69kv Line Improvements

Company: 034-PNM TNMPNM Distribution
Location: 150 Distribution

Project Information

Construction Start Date 2/3/2014 Estimated Completion Date 11/30/2021

List Interim In-Service Dates

Project consists of individual work orders which are placed in service at various times throughout the year.

Project Need Justification

This project includes capital expenditures for upgrades and replacements needed to maintain safe and reliable operation of the 69kV transmission system that provides electrical power to the Silver City Service Territory. PNM routinely inspects it's transmission and distribution facilities to determine if repairs/replacements are required.. For these 69kV lines, maintenance concerns and/or failing equipment are identified and evaluated on a 1 to 5 scale where 1 is low risk. From this evaluation, PNM develops it's program for capital improvements for the coming year, focusing on the work that is highest risk while monitoring those items which currently present a low risk.

Project Alternatives

This is a blanket project, multiple work orders will be written for small capital replacement or improvements. Alternatives for each project will be evaluated at work order level.

Technical Aspects

This project will involve the inspection, repair ,and replacement of structure poles cross timbers, line switches, insulators, and conductors.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15002114	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	1,530	4,850	4,500	4,000	0	14,880		
120-Overtime-General	0			0	1,500	550	150	0	0	2,200		
350-Material Issues-Major	0			0	0	1,000	1,250	895	0	3,145		
370-Outside Services	0			0	0	0	50	0	0	50		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	238	425	366	315	0	1,344		
914-Pension and Benefits Load	0			0	907	1,617	1,392	1,198	0	5,114		
915-Injuries and Damages Load	0			0	198	352	303	261	0	1,114		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	154	192	138	0	483		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	809	1,627	1,482	1,234	0	5,152		
926-A and G Loads	0			0	252	532	495	407	0	1,687		
928-AFUDC Debt Reg	0			143	150	169	194	216	226	1,099		
929-AFUDC - Equity Regular	0			155	162	183	210	234	245	1,190		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			298	5,747	11,459	10,585	8,896	472	37,457		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			298	5,747	11,459	10,585	8,896	472	37,457		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15002114	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	14,880	0	0	2,072	6,359	8,287	0	0	0	2,072	6,359	5,300	0	45,329
120-Overtime-General	2,200	0	0	0	0	0	0	0	0	0	0	0	0	2,200
350-Material Issues-Major	3,145	0	0	1,600	6,500	6,800	0	0	0	1,700	6,500	6,800	0	33,045
370-Outside Services	50	0	0	0	0	0	0	0	0	0	0	0	0	50
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	1,344	0	0	162	499	650	0	0	0	162	499	416	0	3,731
914-Pension and Benefits Load	5,114	0	0	565	1,735	2,262	0	0	0	565	1,735	1,446	0	13,423
915-Injuries and Damages Load	1,114	0	0	129	396	515	0	0	0	129	396	330	0	3,008
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	483	0	0	277	1,125	1,176	0	0	0	294	1,125	1,176	0	5,656
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	5,152	0	0	870	2,974	3,555	0	0	0	889	2,974	2,744	0	19,156
926-A and G Loads	1,687	0	0	247	864	1,014	0	0	0	253	864	813	0	5,742
928-AFUDC Debt Reg	1,099	263	265	274	310	370	404	81	82	90	125	177	203	3,744
929-AFUDC - Equity Regular	1,190	345	347	359	407	486	530	107	107	118	164	233	267	4,660
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	37,457	608	612	6,555	21,168	25,114	934	188	189	6,274	20,740	19,435	470	139,745
825-Clearings	0	0	0	0	0	0	-124,749	0	0	0	0	0	-78,484	-203,233
Clr Sum	0	0	0	0	0	0	-124,749	0	0	0	0	0	-78,484	-203,233
Proj Net	37,457	608	612	6,555	21,168	25,114	-123,815	188	189	6,274	20,740	19,435	-78,014	-63,488

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15002114	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	45,329	0	0	2,072	6,359	8,287	0	0	0	2,072	6,359	5,300	0	75,778	
120-Overtime-General	2,200	0	0	0	0	0	0	0	0	0	0	0	0	2,200	
350-Material Issues-Major	33,045	0	0	1,600	6,500	6,800	0	0	0	1,700	6,500	6,800	0	62,945	
370-Outside Services	50	0	0	0	0	0	0	0	0	0	0	0	0	50	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	3,731	0	0	162	499	650	0	0	0	162	499	416	0	6,119	
914-Pension and Benefits Load	13,423	0	0	565	1,735	2,262	0	0	0	565	1,735	1,446	0	21,733	
915-Injuries and Damages Load	3,008	0	0	129	396	515	0	0	0	129	396	330	0	4,901	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	5,656	0	0	277	1,125	1,176	0	0	0	294	1,125	1,176	0	10,829	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	19,156	0	0	870	2,974	3,555	0	0	0	889	2,974	2,744	0	33,160	
926-A and G Loads	5,742	0	0	247	864	1,014	0	0	0	253	864	813	0	9,798	
928-AFUDC Debt Reg	3,744	0	0	8	42	101	133	27	27	35	70	122	147	4,455	
929-AFUDC - Equity Regular	4,660	0	0	7	38	91	120	24	24	31	63	110	133	5,300	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	139,745	0	0	5,937	20,531	24,450	253	51	51	6,131	20,583	19,256	280	237,268	
825-Clearings	-203,233	0	0	0	0	0	-40,937	0	0	0	0	0	-56,587	-300,756	
Clr Sum	-203,233	0	0	0	0	0	-40,937	0	0	0	0	0	-56,587	-300,756	
Proj Net	-63,488	0	0	5,937	20,531	24,450	-40,684	51	51	6,131	20,583	19,256	-56,307	-63,488	

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Project No: 15003010 SNM Substation Equip Repl.2010

Company: 034-PNM TNMPNM Distribution
Location: 150 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2012	<u>Estimated Completion Date</u>
<u>List Interim In-Service Dates</u>		

Each WO is closed as completed, with an estimated 4 clearings per year.

Project Need Justification

This annual project includes small capital projects for the replacement and upgrade of distribution substation equipment. These small projects are needed to replace equipment which is failing, cannot be readily repaired, does not meet current compliance or safety requirements, or can no longer meet system performance requirements. Typical projects include surge arrestors, grounding improvements, load tap changer rebuilds, bushing replacements, or instrument transformer replacements.

Project Alternatives

Alternatives are assessed at WO level. Various solutions are considered from repair to redesign with direct replacement being most common. Solutions must meet key criteria including satisfying performance needs and addressing any safety or compliance issues. In addition, the solution should be easy to maintain and repair, can be completed in the desired schedule, and at a reasonable total owning cost.

Technical Aspects

This blanket project may be used for replacement of station batteries, lightning arrestors, transformer bushings and upgrades to substation relay protection system. Typically projects are identified through station checks and equipment testing, then prioritized for implementation. Materials are ordered and work scheduled with in-house or contract crews. Budget funding includes both materials/equipment as well as labor. Crew assignments (in-house or contract) are decided on a project by project basis depending on availability and type of work.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15003010	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			2,667	2,667	2,667	2,667	2,667	2,614	15,947		
370-Outside Services	0			1,554	1,554	1,554	1,554	1,554	1,554	9,323		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-20	-20	-20	-61		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			410	410	410	410	410	402	2,451		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			781	781	781	781	781	771	4,675		
926-A and G Loads	0			351	351	351	351	351	347	2,102		
928-AFUDC Debt Reg	0			6	9	10	10	10	10	54		
929-AFUDC - Equity Regular	0			7	10	10	11	11	10	59		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			5,776	5,781	5,782	5,762	5,762	5,687	34,551		
825-Clearings	0			-4,621	-5,549	-5,736	-5,757	-5,761	-5,702	-33,125		
Clr Sum	0			-4,621	-5,549	-5,736	-5,757	-5,761	-5,702	-33,125		
Proj Net	0			1,155	232	47	5	1	-15	1,425		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15003010	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	15,947	2,933	2,933	2,933	2,933	2,933	2,933	2,933	2,933	2,933	2,933	2,933	2,924	51,137
	370-Outside Services	9,323	1,899	1,899	1,899	1,899	1,899	1,899	1,899	1,899	1,899	1,899	1,899	1,899	32,113
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391~Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-61	-26	-26	0	0	0	0	0	0	0	0	0	0	-112
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	2,451	507	507	507	507	507	507	507	507	507	507	507	506	8,539
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	4,675	928	928	928	928	928	928	928	928	928	928	928	926	15,807
	926-A and G Loads	2,102	325	325	325	325	325	325	325	325	325	325	325	324	5,999
	928-AFUDC Debt Reg	54	12	19	22	24	25	25	26	26	26	26	26	26	338
	929-AFUDC - Equity Regular	59	16	25	29	32	33	33	34	34	34	34	34	34	431
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	34,551	6,595	6,611	6,644	6,648	6,650	6,651	6,652	6,652	6,652	6,652	6,652	6,638	114,251
	825-Clearings	-33,125	-4,010	-5,310	-5,977	-6,313	-6,482	-6,567	-6,609	-6,631	-6,642	-6,647	-6,650	-6,644	-107,607
	Clr Sum	-33,125	-4,010	-5,310	-5,977	-6,313	-6,482	-6,567	-6,609	-6,631	-6,642	-6,647	-6,650	-6,644	-107,607
	Proj Net	1,425	2,585	1,300	667	335	169	85	43	21	11	5	3	-6	6,644

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15003010	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	51,137	2,933	2,933	2,933	2,933	2,933	2,933	2,933	2,933	2,933	2,933	2,933	2,933	86,327
	370-Outside Services	32,113	1,899	1,899	1,899	1,899	1,899	1,899	1,899	1,899	1,899	1,899	1,899	1,899	54,903
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment		-112	0	0	0	0	0	0	0	0	0	0	0	0	-112
426-Capitalized Interest		0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other		0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load		0	0	0	0	0	0	0	0	0	0	0	0	0	0
914-Pension and Benefits Load		0	0	0	0	0	0	0	0	0	0	0	0	0	0
915-Injuries and Damages Load		0	0	0	0	0	0	0	0	0	0	0	0	0	0
918-San Juan AR-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load		8,539	507	507	507	507	507	507	507	507	507	507	507	507	14,627
922-Minor Material Load		0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads		15,807	928	928	928	928	928	928	928	928	928	928	928	928	26,939
926-A and G Loads		5,999	325	325	325	325	325	325	325	325	325	325	325	325	9,895
928-AFUDC Debt Reg		338	26	26	26	26	26	26	26	26	26	26	26	26	649
929-AFUDC - Equity Regular		431	23	23	23	23	23	23	23	23	23	23	23	23	711
937-San Juan AR - Other		0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	114,251	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,641	193,940
	825-Clearings	-107,607	-6,642	-6,642	-6,641	-6,641	-6,641	-6,641	-6,641	-6,641	-6,641	-6,641	-6,641	-6,641	-187,299
	Clr Sum	-107,607	-6,642	-6,642	-6,641	-6,641	-6,641	-6,641	-6,641	-6,641	-6,641	-6,641	-6,641	-6,641	-187,299
	Proj Net	6,644	-2	-1	0	0	0	0	0	0	0	0	0	0	6,641

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Project No: 15100107 Line Extension - Residential

Company: 034-PNM TNMPNM Distribution

Location: 151 Distribution

Project Information

Construction Start Date 1/1/2017

Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual customer work orders which are placed in service at various times throughout the year.

Project Need Justification

This project is for the installation of residential line extensions for new residential customers, apartment complexes, and residential subdivisions. PNM is required to complete this work per its obligation to serve. The project funding covers the labor, materials and right-of-way acquisition for both overhead and underground extensions. Customers are responsible for these costs less credits they are allowed under PNM's Rule 15 Line Extension Policy approved by the New Mexico Public Regulatory Commission. This project provides for PNM's portion of the cost of these line extensions.

Project Alternatives

There are no alternatives to conducting this work. However, each line extension goes through a design process to ensure that it is designed to the minimum technical standards according to PNM Rule 15. Typically, the best option is a balance of cost, timing, and efficacy

Technical Aspects

The project includes the costs of labor for engineering, design, right-of-way acquisition, environmental review, and construction. The cost also includes electrical distribution line materials for the installation of the overhead or underground extensions. The distribution material for installation include but are not limited to primary wires, secondary wires, wood or steel poles and other supporting structures, trenches, switchgear, and duct-bank systems. Customers are responsible for these costs less credits they are allowed under PNM's Rule 15 Line Extension Policy approved by the New Mexico Public Regulatory Commission.

Project Estimate Approach

Most of the system improvement projects for this blanket are not identified prior to budget. Therefore, historical spend is used as a guide to estimate future funding for the project. The initial budget for this project was developed by applying labor and non-labor cost escalation factors to the most recent 12-month actual spend (July 2015-June 2016).The typical breakdown of cost by categories is as follows: company labor 11%, outside services 66%, materials 20%, and company transportation 3%. This breakdown can fluctuate depending on the nature of the system improvement work.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15100107	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			5,100	6,215	4,550	4,407	2,700	2,790	25,762		
120-Overtime-General	0			0	498	100	325	0	0	923		
350-Material Issues-Major	0			7,618	4,635	3,708	5,734	2,199	1,522	25,416		
370-Outside Services	0			0	0	0	11	0	0	11		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			1,178	1,451	9,338	737	684	654	14,041		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			-8,657	-18,135	-396	-6,423	-2,558	-2,427	-38,597		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			401	528	366	372	212	220	2,100		
914-Pension and Benefits Load	0			1,527	2,010	1,392	1,417	808	835	7,989		
915-Injuries and Damages Load	0			333	438	303	309	176	182	1,740		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,171	712	570	881	338	234	3,906		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			2,989	2,918	3,655	2,463	1,254	1,147	14,427		
926-A and G Loads	0			1,156	1,065	1,472	933	464	413	5,504		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			12,817	2,335	25,058	11,165	6,278	5,570	63,222		
825-Clearings	0			-677	-2,329	-16,427	-7,726	-9,674	-9,918	-46,751		
Clr Sum	0			-677	-2,329	-16,427	-7,726	-9,674	-9,918	-46,751		
Proj Net	0			12,139	6	8,631	3,439	-3,395	-4,349	16,471		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15100107	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	25,762	4,026	-437	739	7,513	2,199	3,007	12,241	17,420	1,336	14,229	-28,527	1,433	60,941
120-Overtime-General	923	1,092	-119	201	2,039	597	816	3,322	6,196	363	3,861	-7,741	389	11,937
350-Material Issues-Major	25,416	2,311	-251	424	4,313	1,263	1,726	7,027	13,108	767	8,168	-16,377	823	48,719
370-Outside Services	11	0	0	0	0	0	0	0	0	0	0	0	0	11
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	14,041	2,133	-232	392	3,981	1,165	1,593	6,486	12,099	708	7,539	-15,115	759	35,550
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-38,597	-9,874	1,072	-1,812	-18,426	-5,394	-7,375	-30,022	-56,000	-3,277	-34,896	69,964	-3,514	-138,151
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	2,100	401	-44	74	749	219	300	1,220	1,851	133	1,418	-2,843	143	5,722
914-Pension and Benefits Load	7,989	1,397	-152	256	2,607	763	1,043	4,247	6,445	464	4,937	-9,897	497	20,596
915-Injuries and Damages Load	1,740	318	-35	58	594	174	238	968	1,469	106	1,125	-2,256	113	4,613
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	3,906	400	-43	73	746	218	299	1,216	2,268	133	1,413	-2,833	142	7,938
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	14,427	2,243	-243	412	4,185	1,225	1,675	6,818	11,249	744	7,925	-15,889	798	35,567
926-A and G Loads	5,504	643	-70	118	1,199	351	480	1,954	3,281	213	2,271	-4,553	229	11,619
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	63,222	5,091	-553	934	9,499	2,781	3,802	15,477	19,385	1,689	17,990	-36,069	1,812	105,061
825-Clearings	-46,751	-5,508	-1,338	-3,568	-2,612	-3,263	-2,224	-3,413	-4,423	-5,300	-5,397	-9,036	-2,188	-95,023
Clr Sum	-46,751	-5,508	-1,338	-3,568	-2,612	-3,263	-2,224	-3,413	-4,423	-5,300	-5,397	-9,036	-2,188	-95,023
Proj Net	16,471	-418	-1,891	-2,634	6,887	-483	1,578	12,064	14,962	-3,611	12,594	-45,105	-376	10,039

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15100107	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	60,941	6,085	-661	1,117	11,355	3,324	4,545	18,500	26,199	2,019	21,504	-43,114	2,166	113,980
120-Overtime-General	11,937	1,651	-179	303	3,081	902	1,233	5,020	9,364	548	5,835	-11,698	588	28,583
350-Material Issues-Major	48,719	3,476	-377	638	6,487	1,899	2,596	10,569	19,713	1,153	12,285	-24,629	1,237	83,765
370-Outside Services	11	0	0	0	0	0	0	0	0	0	0	0	0	11
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	35,550	3,208	-348	589	5,987	1,753	2,396	9,755	18,195	1,065	11,338	-22,732	1,142	67,897
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-138,151	-14,850	1,612	-2,725	-27,711	-8,112	-11,091	-45,150	-84,218	-4,928	-52,481	105,219	-5,285	-287,873
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	5,722	607	-66	111	1,132	331	453	1,844	2,788	201	2,143	-4,297	216	11,185
914-Pension and Benefits Load	20,596	2,111	-229	387	3,940	1,153	1,577	6,419	9,705	701	7,461	-14,958	751	39,613
915-Injuries and Damages Load	4,613	481	-52	88	898	263	359	1,463	2,212	160	1,700	-3,409	171	8,948
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	7,938	601	-65	110	1,122	329	449	1,828	3,410	200	2,125	-4,261	214	14,001
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	35,567	3,383	-367	621	6,313	1,848	2,527	10,285	16,930	1,123	11,955	-23,969	1,204	67,419
926-A and G Loads	11,619	969	-105	178	1,808	529	724	2,946	4,937	322	3,425	-6,866	345	20,831
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	105,061	7,722	-838	1,417	14,410	4,218	5,767	23,479	29,235	2,562	27,291	-54,715	2,748	168,359
825-Clearings	-95,023	-1,033	-1,919	-3,665	-3,411	-4,376	-3,067	-4,946	-6,518	-7,819	-8,033	-12,835	-3,156	-155,802
Clr Sum	-95,023	-1,033	-1,919	-3,665	-3,411	-4,376	-3,067	-4,946	-6,518	-7,819	-8,033	-12,835	-3,156	-155,802
Proj Net	10,039	6,690	-2,758	-2,248	10,999	-158	2,700	18,533	22,717	-5,257	19,258	-67,550	-408	12,558

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Project No: 15100207 Line Extension - Commercial

Company: 034-PNM TNMPNM Distribution
Location: 151 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual customer work orders which are placed in service at various times throughout the year.

Project Need Justification

This project includes capital expenditures for the installation of electrical distribution line extensions necessary to serve new or expanding non-residential customers. The project includes the costs associated with labor for engineering, design, environmental review, right of way acquisition, construction and cost of material for installation of overhead or underground distribution extension. PNM is required to complete this work per its obligation to serve.

Project Alternatives

There are no alternatives to conducting this work. However, each line extension goes through a design process to ensure that it is designed to the minimum technical standards according to PNM Rule 15. Typically, the best option is a balance of cost, timing, and efficacy.

Technical Aspects

The construction material required for distribution line extension include but not limited to primary wire, secondary wires, wood or steel poles as required and associated distribution hardware used for complete construction of projects. Customers are responsible for these costs less credits they are allowed under PNM's Rule 15 Line Extension Policy approved by the New Mexico Public Regulatory Commission. This project provides for PNM's portion of the cost of these line extensions.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15100207	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			4,953	5,087	5,256	3,477	3,000	3,064	24,837		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			4,037	3,407	2,217	2,964	1,207	1,763	15,595		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			935	900	765	950	815	850	5,215		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			-2,225	-1,142	-9,236	-857	-5,956	-1,725	-21,142		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			390	400	414	274	236	241	1,955		
914-Pension and Benefits Load	0			1,483	1,523	1,574	1,041	898	917	7,436		
915-Injuries and Damages Load	0			323	332	343	227	196	200	1,619		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			620	524	341	456	186	271	2,397		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			2,242	2,155	1,955	1,652	1,175	1,302	10,482		
926-A and G Loads	0			826	782	685	615	418	472	3,798		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			13,584	13,967	4,313	10,798	2,174	7,355	52,192		
825-Clearings	0			0	-17,412	-6,605	-9,131	-6,961	-18,466	-58,574		
Clr Sum	0			0	-17,412	-6,605	-9,131	-6,961	-18,466	-58,574		
Proj Net	0			13,584	-3,444	-2,291	1,667	-4,787	-11,111	-6,382		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15100207	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	24,837	9,636	8,398	12,407	13,780	9,104	1,607	12,031	12,185	6,862	8,375	11,111	-63,059	67,273
120-Overtime-General	0	160	126	342	1	130	43	1,213	444	85	126	334	-1,699	1,305
350-Material Issues-Major	15,595	9,198	8,016	15,662	17,898	8,146	1,534	46,627	19,279	6,550	7,995	15,380	-60,196	111,686
370-Outside Services	0	213	185	362	414	188	35	1,078	446	151	185	356	-1,392	2,222
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	5,215	4,906	4,276	8,354	9,547	4,345	819	24,871	10,284	3,494	4,265	8,204	-32,109	56,470
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-21,142	-2,146	-189	-3,012	-1,861	-4,808	-41,500	-2,160	-4,219	-12,124	-4,187	-2,500	-57,633	-157,480
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	1,955	768	668	1,000	1,080	724	129	1,038	990	545	667	897	-5,077	5,384
914-Pension and Benefits Load	7,436	2,673	2,326	3,479	3,761	2,520	450	3,614	3,446	1,896	2,320	3,123	-17,673	19,373
915-Injuries and Damages Load	1,619	609	530	793	857	574	103	824	786	432	529	712	-4,028	4,340
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	2,397	1,591	1,387	2,710	3,096	1,409	265	8,066	3,335	1,133	1,383	2,661	-10,414	19,021
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	10,482	5,407	4,709	8,141	9,089	4,941	907	17,529	9,189	3,843	4,697	7,702	-35,565	51,070
926-A and G Loads	3,798	1,620	1,411	2,495	2,798	1,473	271	5,767	2,865	1,152	1,408	2,378	-10,648	16,788
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	52,192	34,636	31,844	52,733	60,460	28,747	-35,335	120,500	59,031	14,019	27,762	50,357	-299,493	197,453
825-Clearings	-58,574	0	-18,987	-29,160	-38,811	-28,268	-15,399	-16,154	-21,540	-28,030	-36,562	-22,955	42,519	-271,920
Clr Sum	-58,574	0	-18,987	-29,160	-38,811	-28,268	-15,399	-16,154	-21,540	-28,030	-36,562	-22,955	42,519	-271,920
Proj Net	-6,382	34,636	12,857	23,573	21,649	479	-50,733	104,345	37,491	-14,011	-8,800	27,403	-256,974	-74,467

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15100207	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	67,273	6,738	5,872	11,473	13,111	5,968	1,124	30,740	14,123	4,798	5,857	11,266	-44,096	134,247
120-Overtime-General	1,305	182	158	309	353	161	30	920	380	129	158	304	-1,188	3,202
350-Material Issues-Major	111,686	6,401	5,578	10,899	12,454	5,669	1,068	32,446	13,416	4,558	5,563	10,702	-41,888	178,551
370-Outside Services	2,222	148	129	252	288	131	25	750	310	105	129	247	-969	3,768
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	56,470	3,414	2,975	5,813	6,643	3,024	570	17,307	7,156	2,431	2,968	5,709	-22,343	92,136
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-157,480	-10,650	-9,282	-18,134	-20,722	-9,432	-1,777	-53,986	-22,322	-7,584	-9,257	-17,807	69,697	-268,736
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	5,384	542	473	924	1,056	480	91	2,482	1,137	386	472	907	-3,550	10,783
914-Pension and Benefits Load	19,373	1,888	1,646	3,215	3,674	1,672	315	8,640	3,958	1,345	1,641	3,157	-12,358	38,168
915-Injuries and Damages Load	4,340	430	375	733	837	381	72	1,969	902	306	374	720	-2,817	8,624
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	19,021	1,107	965	1,885	2,155	981	185	5,613	2,321	789	962	1,851	-7,247	30,588
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	51,070	3,791	3,304	6,455	7,376	3,357	632	18,289	7,945	2,699	3,295	6,338	-24,808	89,743
926-A and G Loads	16,788	1,134	989	1,932	2,207	1,005	189	5,521	2,378	808	986	1,897	-7,424	28,410
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	197,453	15,126	13,183	25,756	29,432	13,396	2,523	70,691	31,704	10,772	13,148	25,292	-98,991	349,485
825-Clearings	-271,920	966	-1,590	-6,128	-11,830	-9,402	-7,255	-8,691	-11,584	-15,446	-19,824	-12,267	-16,975	-391,946
Clr Sum	-271,920	966	-1,590	-6,128	-11,830	-9,402	-7,255	-8,691	-11,584	-15,446	-19,824	-12,267	-16,975	-391,946
Proj Net	-74,467	16,092	11,592	19,628	17,602	3,994	-4,731	62,000	20,121	-4,674	-6,676	13,025	-115,966	-42,460

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Project No: 15100507 Lighting \$247,201 (\$4,182) \$247,201

Company: 034-PNM TNMPNM Distribution

Location: 151 Distribution

Project Information

Construction Start Date 1/1/2015

Estimated Completion Date

List Interim In-Service Dates

Quarterly clearings occur during the year, with large street light projects cleared at completion of project during the year.03-15, 06-15, 09-15,10-15,11-15,12-15.

Project Need Justification

This project includes capital expenditures for the installation/repair or removal of street lighting systems under contract with any municipal corporation. PNM installed security lights per customer request in Southern New Mexico until 2012. In maintaining current lights, older fixtures that burn out are replaced with new light fixtures meeting the New Mexico Night Sky Act. Older fixtures are removed upon customer request.

Project Alternatives

PNM must honor installation/repair and removal requests under PNM Rate 20. Under Rate 20 customers have the option to own streetlights and pay PNM or a contractor for their installation. When requested by a municipal corporation for the installation/repair of a single street light location from PNM, a standard light is installed with light control.

Technical Aspects

This project includes the installation or removal of street lighting equipment such as Steel or Wood Poles, light fixtures with standoff brackets, overhead wiring, and ancillary lighting equipment.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15100507	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			1,611	1,396	1,981	2,787	1,107	930	9,812		
120-Overtime-General	0			0	422	0	711	0	0	1,133		
350-Material Issues-Major	0			5,214	1,776	2,969	3,212	3,807	3,636	20,614		
370-Outside Services	0			0	0	1,456	0	0	0	1,456		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			442	1,489	1,417	478	1,678	401	5,905		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			127	143	156	275	87	73	861		
914-Pension and Benefits Load	0			482	544	593	1,047	331	278	3,277		
915-Injuries and Damages Load	0			105	119	129	228	72	61	714		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			801	273	456	494	585	559	3,168		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			1,477	1,089	1,610	1,617	1,310	995	8,098		
926-A and G Loads	0			605	423	651	598	548	413	3,238		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			10,864	7,674	11,418	11,447	9,526	7,346	58,276		
825-Clearings	0			-4,499	-6,379	-11,640	-5,801	-7,408	-17,885	-53,612		
Cir Sum	0			-4,499	-6,379	-11,640	-5,801	-7,408	-17,885	-53,612		
Proj Net	0			6,366	1,294	-222	5,646	2,118	-10,538	4,664		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15100507	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	9,812	637	515	106	535	743	876	908	940	602	780	530	25	17,010
120-Overtime-General	1,133	2,250	1,819	373	1,888	2,624	1,799	1,478	1,557	1,605	1,100	1,792	90	19,509
350-Material Issues-Major	20,614	1,716	1,388	285	1,440	2,002	2,897	4,466	3,764	1,421	4,996	3,961	69	49,018
370-Outside Services	1,456	99	80	16	83	115	167	372	332	93	403	343	4	3,563
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	5,905	412	333	68	346	481	696	1,553	1,384	389	1,680	1,432	16	14,697
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	-640	0	0	0	0	3,269	0	0	0	-14,085	-11,456
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	861	226	183	38	190	264	210	187	196	173	147	182	9	2,866
914-Pension and Benefits Load	3,277	788	637	131	661	919	730	651	681	602	513	634	32	10,256
915-Injuries and Damages Load	714	180	145	30	151	209	166	148	155	137	117	144	7	2,304
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	3,168	297	240	49	249	346	501	773	651	246	864	685	12	8,082
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	8,098	1,211	979	201	1,016	1,413	1,448	1,875	1,730	964	1,869	1,731	48	22,584
926-A and G Loads	3,238	344	278	57	288	401	432	590	536	276	602	542	14	7,598
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	58,276	8,159	6,598	714	6,848	9,518	9,922	13,001	15,196	6,509	13,072	11,976	-13,759	146,031
825-Clearings	-53,612	-13,236	-3,797	-1,664	-4,267	-4,813	-9,803	-4,597	0	-8,417	-17,630	-8,664	-20,173	-150,672
Clr Sum	-53,612	-13,236	-3,797	-1,664	-4,267	-4,813	-9,803	-4,597	0	-8,417	-17,630	-8,664	-20,173	-150,672
Proj Net	4,664	-5,077	2,801	-950	2,581	4,705	119	8,404	15,196	-1,907	-4,558	3,313	-33,932	-4,640

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15100507	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	17,010	760	615	126	638	887	1,284	3,865	2,584	3,018	3,100	2,642	430	36,959
120-Overtime-General	19,509	0	0	0	0	0	0	477	191	0	1,205	0	205	21,587
350-Material Issues-Major	49,018	2,037	1,647	338	1,710	2,377	3,440	7,678	6,844	1,924	8,307	7,078	82	92,480
370-Outside Services	3,563	117	95	19	98	137	198	442	394	111	478	407	5	6,065
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	14,697	489	396	81	411	571	826	1,844	1,644	462	1,995	1,700	20	25,137
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-11,456	0	0	-658	0	0	0	0	3,363	0	0	0	-14,489	-23,240
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	2,866	60	48	10	50	70	101	340	218	237	338	207	50	4,593
914-Pension and Benefits Load	10,256	207	168	34	174	242	350	1,185	757	824	1,175	721	173	16,267
915-Injuries and Damages Load	2,304	47	38	8	40	55	80	270	173	188	268	164	39	3,674
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	8,082	352	285	58	296	411	595	1,328	1,184	333	1,437	1,225	14	15,601
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	22,584	714	577	119	599	833	1,206	3,091	2,458	1,299	3,238	2,481	193	39,392
926-A and G Loads	7,598	229	185	38	192	267	386	961	783	371	1,014	795	50	12,868
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	146,031	5,014	4,055	174	4,208	5,849	8,466	21,483	20,593	8,765	22,555	17,419	-13,229	251,383
825-Clearings	-150,672	-10,064	-2,806	-1,216	-3,046	-3,350	-7,088	-4,235	0	-8,763	-20,261	-10,367	-25,335	-247,201
Clr Sum	-150,672	-10,064	-2,806	-1,216	-3,046	-3,350	-7,088	-4,235	0	-8,763	-20,261	-10,367	-25,335	-247,201
Proj Net	-4,640	-5,050	1,248	-1,042	1,162	2,499	1,378	17,248	20,593	3	2,294	7,052	-38,564	4,182

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Project No: 15100607 ED Remove & Replace

Company: 034-PNM TNMPNM Distribution
Location: 151 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates

Project consists of individual work orders which are placed in service at various times throughout the year.

Project Need Justification

The project is for the replacement of electrical distribution line facilities that have been damaged by storms or that have deteriorated through normal aging. The project also covers the required relocation of distribution facilities on government road right-of-way to accommodate construction projects such as road re-alignments and road widening. The project is generally for the replacement of like to like equipment that makes up the existing electrical distribution line facilities for both overhead and underground systems. The project drivers are the need to replace failed distribution line equipment and governmental roadway improvement projects.

Project Alternatives

This is mandatory blanket project that will have multiple projects built that are required for the safe and reliable operation of the distribution facilities for PNM customers. The alternatives to each project built are evaluated at work order level to determine the optimal solution.

Technical Aspects

The project involves the removal and replacement of existing electrical distribution line facilities for both overhead and underground systems. The project includes design, installation and removal of wire, poles, pole hardware including insulators, cross arms, cut outs, anchor assemblies, switches, protective equipment, underground cable and conduits, and other equipment.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01.

Project	15100607	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			6,412	6,632	5,512	5,117	5,059	4,865	33,597		
120-Overtime-General	0			1,412	1,211	1,025	1,100	1,423	1,056	7,227		
350-Material Issues-Major	0			5,250	5,523	6,579	6,985	6,475	4,123	34,935		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			2,103	1,865	2,587	1,876	2,369	2,417	13,217		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			616	617	514	489	510	466	3,213		
914-Pension and Benefits Load	0			2,343	2,348	1,957	1,861	1,941	1,773	12,223		
915-Injuries and Damages Load	0			510	511	426	405	423	386	2,662		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			807	849	1,011	1,074	995	634	5,370		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			3,449	3,461	3,441	3,299	3,367	2,791	19,809		
926-A and G Loads	0			1,263	1,267	1,306	1,254	1,275	1,037	7,403		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			24,164	24,285	24,360	23,461	23,837	19,547	139,654		
825-Clearings	0			-5,501	-11,645	-17,042	-9,696	-14,197	-35,750	-93,831		
Clr Sum	0			-5,501	-11,645	-17,042	-9,696	-14,197	-35,750	-93,831		
Proj Net	0			18,664	12,639	7,317	13,765	9,640	-16,203	45,823		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15100607	Year	2017											
Cost Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	33,597	4,010	3,915	4,681	3,273	3,191	5,870	4,854	3,230	3,161	3,235	2,645	3,296	78,958
120-Overtime-General	7,227	965	641	774	427	706	799	415	222	462	475	347	163	13,622
350-Material Issues-Major	34,935	3,628	3,080	3,305	2,741	3,190	3,345	2,700	2,374	2,779	2,802	2,584	1,274	68,737
370-Outside Services	0	3,100	3,058	3,485	3,372	2,267	2,566	2,333	2,712	2,482	2,527	2,113	2,522	32,536
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	13,217	4,633	3,075	3,714	2,051	3,387	3,834	1,992	1,063	2,216	2,282	1,663	781	43,908
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	-4,125	-2,738	-3,307	-1,826	-3,016	-3,414	-1,774	-947	-1,973	-2,032	-1,481	-695	-27,330
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	3,213	390	357	428	290	306	523	413	271	284	291	235	271	7,270
914-Pension and Benefits Load	12,223	1,358	1,243	1,489	1,010	1,063	1,820	1,438	942	989	1,013	816	944	26,347
915-Injuries and Damages Load	2,662	309	283	339	230	242	415	328	215	225	231	186	215	5,881
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	5,370	628	533	572	474	552	579	467	411	481	485	447	220	11,217
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	19,809	3,531	3,005	3,497	2,572	2,755	3,681	2,779	2,117	2,419	2,468	2,033	1,817	52,484
926-A and G Loads	7,403	1,098	925	1,072	797	856	1,103	826	645	746	761	628	540	17,401
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	139,654	19,525	17,378	20,049	15,411	15,499	21,119	16,771	13,255	14,270	14,537	12,216	11,348	331,031
825-Clearings	-93,831	-12,737	-16,202	-18,278	-7,070	-10,569	-17,243	-8,923	-10,185	-36,243	-17,862	-11,834	-32,388	-293,366
Clr Sum	-93,831	-12,737	-16,202	-18,278	-7,070	-10,569	-17,243	-8,923	-10,185	-36,243	-17,862	-11,834	-32,388	-293,366
Proj Net	45,823	6,788	1,176	1,770	8,341	4,930	3,876	7,848	3,070	-21,974	-3,325	382	-21,040	37,665

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15100607	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	78,958	8,473	7,624	8,193	7,780	6,195	7,012	6,100	6,945	4,680	3,845	3,142	3,428	152,375
120-Overtime-General	13,622	1,152	765	923	510	842	953	495	264	551	567	414	194	21,252
350-Material Issues-Major	68,737	1,933	1,283	1,549	856	1,413	1,599	831	444	925	952	694	326	81,541
370-Outside Services	32,536	3,681	2,443	2,951	1,629	2,691	3,046	1,583	845	1,761	1,813	1,322	620	56,922
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	43,908	5,501	3,651	4,410	2,435	4,022	4,552	2,366	1,263	2,631	2,709	1,975	927	80,349
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-27,330	-4,898	-3,251	-3,927	-2,168	-3,581	-4,054	-2,107	-1,124	-2,343	-2,413	-1,759	-825	-59,781
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	7,270	755	658	715	650	552	624	517	565	410	346	279	284	13,625
914-Pension and Benefits Load	26,347	2,627	2,289	2,488	2,262	1,920	2,174	1,800	1,967	1,428	1,204	970	988	48,465
915-Injuries and Damages Load	5,881	599	522	567	516	438	495	410	448	325	274	221	225	10,922
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	11,217	334	222	268	148	244	277	144	77	160	165	120	56	13,432
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	52,484	4,746	3,693	4,185	3,194	3,470	3,928	2,708	2,446	2,440	2,248	1,731	1,343	88,617
926-A and G Loads	17,401	1,394	1,059	1,211	888	1,019	1,153	764	656	709	664	507	369	27,796
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	331,031	26,295	20,958	23,534	18,699	19,225	21,761	15,612	14,796	13,677	12,376	9,616	7,935	535,514
825-Clearings	-293,366	-12,510	-16,677	-19,428	-7,711	-11,794	-18,938	-9,555	-10,963	-38,461	-18,341	-11,734	-30,813	-500,289
Clr Sum	-293,366	-12,510	-16,677	-19,428	-7,711	-11,794	-18,938	-9,555	-10,963	-38,461	-18,341	-11,734	-30,813	-500,289
Proj Net	37,665	13,785	4,281	4,106	10,988	7,431	2,824	6,057	3,833	-24,784	-5,965	-2,118	-22,877	35,225

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Project No: 15100807 Services \$682,509 \$41,447 \$682,509

Company: 034-PNM TNMPNM Distribution
Location: 151 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates
04-2015, 07-2015, 10-2015, 12-2015. Quarterly clearings occur every year thereafter.

Project Need Justification
This project provides for the connection of residential and non-residential customers’ electrical facilities to PNM’s distribution system. The project includes the cost of PNM labor, PNM transportation and material. Project includes cost of replacement of customer service conductors due to service upgrade or deteriorated service conductors. PNM is obligated to serve customers within its service territory. PNM and the customer’s service requirements are defined within PNM’s Rules and Regulations, specifically Rules 15, 16, & 18 filed with the New Mexico Public Regulatory Commission (NMPRC) pursuant to NMPRC Rule 210.

Project Alternatives
PNM is required to offer these services, therefore there are no potential alternatives. However, each customer request for overhead service is evaluated based on service location, service wire length, and route and potential solutions that maintain service voltage within regulatory requirements are evaluated. Non-residential customers located in underground electric distribution areas, or residential/non-residential customers located in an overhead electric distribution areas but requesting underground service, are required to provide the service wires per PNM rules. In these instances, PNM determines the optimal solution to meet the customer request while maintaining system reliability and compliance with regulatory standards.

Technical Aspects
This project includes the installation and, in the case of service retirement, removal costs of overhead and underground conductors leading from the point where PNM wires leave the last pole or distribution box to the point of connection with the residential or non-residential customer. Materials include overhead and underground, three or four, bundled wire service conductor and associated connecting or terminating parts.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15100807	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			7,711	8,229	8,439	8,678	8,816	7,139	49,012		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			4,863	4,488	5,800	4,187	3,921	1,302	24,562		
370-Outside Services	0			0	1,245	500	0	0	0	1,745		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			2,276	2,179	3,288	4,447	2,903	3,418	18,510		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			607	648	664	683	694	562	3,857		
914-Pension and Benefits Load	0			2,309	2,464	2,527	2,598	2,640	2,138	14,674		
915-Injuries and Damages Load	0			503	537	550	566	575	465	3,196		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			747	690	892	644	603	200	3,775		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			3,380	3,661	4,027	3,914	3,616	2,780	21,378		
926-A and G Loads	0			1,235	1,343	1,500	1,440	1,301	987	7,807		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			23,631	25,482	28,187	27,157	25,069	18,991	148,517		
825-Clearings	0			-71,697	0	0	-79,001	0	-63,810	-214,508		
Clr Sum	0			-71,697	0	0	-79,001	0	-63,810	-214,508		
Proj Net	0			-48,066	25,482	28,187	-51,844	25,069	-44,819	-65,990		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15100807	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	49,012	3,411	5,046	6,466	5,812	5,257	5,357	5,456	5,772	4,737	4,251	4,276	3,395	108,248
120-Overtime-General	0	357	243	312	280	253	258	263	300	228	253	303	212	3,263
350-Material Issues-Major	24,562	3,309	2,253	2,887	2,595	2,347	2,392	2,436	3,024	2,115	2,345	2,802	1,962	55,029
370-Outside Services	1,745	1,690	1,151	1,474	1,325	1,199	1,222	1,244	1,544	1,080	1,198	1,431	1,002	17,305
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	18,510	4,660	3,173	4,065	3,654	3,306	3,368	3,431	4,258	2,978	3,303	3,946	2,763	61,415
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	3,857	295	415	531	478	432	440	448	476	389	353	359	283	8,757
914-Pension and Benefits Load	14,674	1,028	1,443	1,850	1,663	1,504	1,532	1,561	1,657	1,355	1,229	1,249	984	31,730
915-Injuries and Damages Load	3,196	234	329	422	379	343	349	356	378	309	280	285	224	7,083
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	3,775	572	390	499	449	406	414	421	523	366	406	485	339	9,046
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	21,378	2,877	2,698	3,457	3,108	2,811	2,864	2,917	3,343	2,533	2,537	2,813	2,079	55,415
926-A and G Loads	7,807	902	797	1,022	918	831	846	862	1,001	748	763	857	627	17,983
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	148,517	19,337	17,938	22,985	20,662	18,689	19,043	19,396	22,276	16,839	16,917	18,805	13,872	375,275
825-Clearings	-214,508	-3,777	-3,403	-8,005	-31,429	-11,145	-14,292	-16,156	-7	-3,131	-63,254	-3,829	-48,124	-421,061
Clr Sum	-214,508	-3,777	-3,403	-8,005	-31,429	-11,145	-14,292	-16,156	-7	-3,131	-63,254	-3,829	-48,124	-421,061
Proj Net	-65,990	15,560	14,535	14,981	-10,767	7,544	4,751	3,239	22,269	13,708	-46,337	14,976	-34,252	-45,786

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15100807	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	108,248	4,842	4,021	7,715	5,935	5,273	6,392	5,510	5,081	4,652	5,267	6,488	4,244	173,669
120-Overtime-General	3,263	426	290	372	334	302	308	314	390	272	302	361	253	7,188
350-Material Issues-Major	55,029	3,929	2,675	3,428	3,081	2,787	2,840	2,893	3,590	2,511	2,785	3,327	2,330	91,204
370-Outside Services	17,305	2,007	1,366	1,751	1,574	1,423	1,450	1,477	1,834	1,283	1,422	1,699	1,190	35,782
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	61,415	5,490	5,616	4,842	4,682	4,985	3,357	3,472	3,702	5,910	5,409	3,674	3,827	116,381
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	8,757	413	338	634	492	437	525	457	429	386	437	537	353	14,194
914-Pension and Benefits Load	31,730	1,438	1,177	2,207	1,711	1,522	1,828	1,589	1,493	1,344	1,520	1,869	1,227	50,655
915-Injuries and Damages Load	7,083	328	268	503	390	347	417	362	340	306	346	426	280	11,396
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	9,046	680	463	593	533	482	491	500	621	434	482	576	403	15,304
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	55,415	3,623	3,024	4,119	3,494	3,279	3,287	3,086	3,237	3,200	3,358	3,529	2,631	95,281
926-A and G Loads	17,983	1,122	939	1,217	1,049	993	964	918	981	983	1,020	1,045	796	30,009
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	375,275	24,297	20,177	27,380	23,275	21,830	21,860	20,579	21,697	21,281	22,347	23,531	17,533	641,063
825-Clearings	-421,061	-8,691	-5,688	-11,714	-42,666	-14,385	-17,809	-19,253	-8	-3,603	-74,568	-4,604	-58,459	-682,509
Clr Sum	-421,061	-8,691	-5,688	-11,714	-42,666	-14,385	-17,809	-19,253	-8	-3,603	-74,568	-4,604	-58,459	-682,509
Proj Net	-45,786	15,606	14,489	15,666	-19,391	7,444	4,051	1,325	21,689	17,678	-52,220	18,927	-40,926	-41,447

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Project No: 15100907 Transformers \$536,019 \$33,480 \$536,019

Company: 034-PNM TNMPNM Distribution
Location: 151 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates
01-15,02-15,03-15,04-15,05-15,06-15,07-15,08-15,09-15,10-15,11-15,12-15. Monthly clearings occur every year thereafter.

Project Need Justification
This project is for the purchase and installation of transformers required to provide electrical service to new customer loads, increased customer loads and to replace transformers that have failed.

Project Alternatives
This project is necessary to replace failed equipment and meet new or growing customer needs. For service to new customers consideration is given to serving customers from existing transformers or installing a new transformer for the customer requested voltage and sized appropriately from the customer provided electric load information. For electrical service to existing customer load increase the current loading is reviewed to determine if it is possible to 1) use the same transformer; 2) replace the existing transformer to one that is larger to meet the system requirements; or 3) add a new transformer to the Distribution system to accommodate the customer projected load increase. In the case of failed transformers, a similar evaluation is done to determine the appropriate replacement.

Technical Aspects
This project includes the cost for the purchase and installation of distribution transformers. These transformers reduce the primary distribution voltage of 7,200 volts to a usable level required for residential and non- residential customer; secondary voltages generally range from 120 volts to 480 volts. The installation costs include PNM labor, transportation and the ancillary material required for the transformer operation.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15100907	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			698	740	560	1,092	495	2,212	5,797		
120-Overtime-General	0			601	442	162	0	118	479	1,803		
350-Material Issues-Major	0			13,795	12,414	16,550	17,412	9,784	13,530	83,485		
370-Outside Services	0			0	4,167	0	0	0	0	4,167		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			532	303	275	777	368	1,690	3,944		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			102	93	57	86	48	212	598		
914-Pension and Benefits Load	0			389	354	216	327	184	806	2,275		
915-Injuries and Damages Load	0			85	77	47	71	40	175	495		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			2,120	1,908	2,544	2,676	1,504	2,080	12,832		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			2,997	3,439	3,305	3,657	2,042	3,534	18,975		
926-A and G Loads	0			1,300	1,503	1,460	1,604	896	1,490	8,253		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			22,619	25,440	25,175	27,702	15,478	26,208	142,624		
825-Clearings	0			-47,117	-29,776	-26,095	-27,381	-17,859	-24,538	-172,766		
Clr Sum	0			-47,117	-29,776	-26,095	-27,381	-17,859	-24,538	-172,766		
Proj Net	0			-24,497	-4,335	-920	321	-2,381	1,670	-30,142		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15100907	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	5,797	1,955	2,753	2,670	2,054	3,676	2,713	2,940	1,923	2,395	2,903	2,605	1,983	36,367
120-Overtime-General	1,803	507	269	597	735	599	612	846	298	570	323	216	959	8,336
350-Material Issues-Major	83,485	9,127	4,853	10,758	13,234	10,794	11,033	15,246	5,363	10,272	5,815	3,899	17,284	201,163
370-Outside Services	4,167	0	0	0	0	0	0	0	0	0	0	0	0	4,167
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	3,944	-26	-14	-31	-38	-31	-32	-44	-15	-30	-17	-11	-50	3,606
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	598	193	237	256	219	335	261	297	174	232	253	221	231	3,507
914-Pension and Benefits Load	2,275	672	825	892	761	1,167	908	1,033	606	809	880	770	803	12,401
915-Injuries and Damages Load	495	153	188	203	173	266	207	236	138	184	201	175	183	2,803
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	12,832	1,579	840	1,861	2,290	1,867	1,909	2,638	928	1,777	1,006	674	2,990	33,190
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	18,975	2,415	1,749	2,946	3,291	3,227	3,015	3,946	1,629	2,771	1,989	1,512	4,108	51,573
926-A and G Loads	8,253	777	528	940	1,074	1,011	963	1,276	509	888	606	451	1,356	18,632
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	142,624	17,352	12,228	21,094	23,793	22,910	21,588	28,414	11,553	19,869	13,959	10,513	29,847	375,744
825-Clearings	-172,766	-2,459	-3,878	-31,989	-17,473	-19,338	-30,532	-23,415	-3,649	-22,792	-18,211	-10,088	-49,261	-405,851
Clr Sum	-172,766	-2,459	-3,878	-31,989	-17,473	-19,338	-30,532	-23,415	-3,649	-22,792	-18,211	-10,088	-49,261	-405,851
Proj Net	-30,142	14,893	8,351	-10,895	6,320	3,572	-8,944	4,999	7,904	-2,922	-4,252	425	-19,415	-30,107

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15100907	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	36,367	510	699	993	1,051	1,399	1,044	1,285	993	1,103	1,077	722	550	47,794
120-Overtime-General	8,336	205	221	313	377	315	231	310	255	280	285	258	145	11,531
350-Material Issues-Major	201,163	5,837	5,762	6,774	7,714	6,816	7,100	7,103	3,638	6,197	3,905	4,629	5,522	272,160
370-Outside Services	4,167	0	0	0	0	0	0	0	0	0	0	0	0	4,167
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	3,606	-31	-17	-37	-45	-37	-38	-52	-18	-35	-20	-13	-59	3,204
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	3,507	56	72	102	112	134	100	125	98	108	107	77	54	4,653
914-Pension and Benefits Load	12,401	195	251	356	390	468	348	435	341	377	372	268	190	16,391
915-Injuries and Damages Load	2,803	44	57	81	89	107	79	99	78	86	85	61	43	3,713
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	33,190	1,010	997	1,172	1,335	1,179	1,228	1,229	629	1,072	676	801	955	45,472
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	51,573	1,309	1,353	1,648	1,860	1,767	1,702	1,787	1,034	1,558	1,116	1,152	1,238	69,096
926-A and G Loads	18,632	438	448	541	611	571	560	581	327	507	353	376	414	24,358
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	375,744	9,573	9,844	11,944	13,493	12,719	12,355	12,902	7,375	11,254	7,954	8,331	9,052	502,539
825-Clearings	-405,851	-1,648	-2,791	-20,973	-10,585	-11,245	-17,633	-11,806	-1,997	-12,639	-10,189	-6,337	-22,326	-536,019
Clr Sum	-405,851	-1,648	-2,791	-20,973	-10,585	-11,245	-17,633	-11,806	-1,997	-12,639	-10,189	-6,337	-22,326	-536,019
Proj Net	-30,107	7,925	7,052	-9,029	2,908	1,474	-5,278	1,096	5,378	-1,385	-2,234	1,994	-13,274	-33,480

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15101007	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			121	323	301	317	304	300	1,667		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			7,990	4,575	6,382	4,982	2,938	2,899	29,766		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			148	96	163	107	121	198	834		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			9	25	24	25	24	24	131		
914-Pension and Benefits Load	0			36	97	90	95	91	90	499		
915-Injuries and Damages Load	0			8	21	20	21	20	20	109		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,228	703	981	766	452	446	4,575		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			1,538	950	1,291	1,026	647	653	6,106		
926-A and G Loads	0			687	416	570	450	280	283	2,685		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			11,765	7,207	9,822	7,787	4,877	4,912	46,371		
825-Clearings	0			-22,309	0	0	-24,315	0	-15,868	-62,492		
Clr Sum	0			-22,309	0	0	-24,315	0	-15,868	-62,492		
Proj Net	0			-10,544	7,207	9,822	-16,528	4,877	-10,956	-16,121		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15101007	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	1,667	712	585	854	939	994	985	492	967	849	764	630	699	11,136
120-Overtime-General	0	303	183	0	0	0	0	0	0	0	0	0	0	486
350-Material Issues-Major	29,766	2,898	1,858	4,303	3,621	3,794	3,131	1,563	3,930	3,971	2,428	2,003	4,763	68,028
370-Outside Services	0	0	0	0	0	0	0	6	0	0	0	0	0	6
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	834	75	48	112	94	99	82	41	102	103	63	52	124	1,830
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	131	80	60	67	74	78	77	39	76	67	60	49	55	912
914-Pension and Benefits Load	499	277	210	233	256	271	269	134	264	232	208	172	191	3,216
915-Injuries and Damages Load	109	63	48	53	58	62	61	31	60	53	48	39	43	728
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	4,575	501	321	744	626	656	542	270	680	687	420	346	824	11,194
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	6,106	846	574	1,079	968	1,017	884	442	1,037	1,013	686	566	1,128	16,346
926-A and G Loads	2,685	268	180	354	313	328	282	141	336	331	219	180	375	5,992
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	46,371	6,024	4,067	7,799	6,950	7,300	6,313	3,159	7,452	7,305	4,895	4,038	8,203	119,874
825-Clearings	-62,492	-662	-1,831	-7,440	-4,488	-11,141	-7,622	-3,522	-3,569	-6,904	-5,807	-2,461	-14,251	-132,189
Clr Sum	-62,492	-662	-1,831	-7,440	-4,488	-11,141	-7,622	-3,522	-3,569	-6,904	-5,807	-2,461	-14,251	-132,189
Proj Net	-16,121	5,362	2,236	360	2,461	-3,841	-1,309	-363	3,883	401	-912	1,578	-6,048	-12,315

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15101007	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	11,136	988	698	915	959	924	976	587	1,176	1,291	911	752	1,288	22,601
120-Overtime-General	486	0	0	0	0	0	0	0	0	0	0	0	0	486
350-Material Issues-Major	68,028	3,441	2,206	5,109	4,299	4,505	3,718	1,856	4,666	4,715	2,882	2,378	5,656	113,459
370-Outside Services	6	0	0	0	0	0	0	0	0	0	0	0	0	6
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	1,830	90	57	133	112	117	97	48	121	123	75	62	147	3,012
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	912	77	55	72	75	72	77	46	92	101	71	59	101	1,811
914-Pension and Benefits Load	3,216	270	190	250	262	252	266	160	321	352	249	205	351	6,345
915-Injuries and Damages Load	728	61	43	57	60	57	61	36	73	80	57	47	80	1,441
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	11,194	595	382	884	744	779	643	321	807	816	499	411	978	19,054
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	16,346	946	624	1,255	1,107	1,138	997	525	1,238	1,279	815	673	1,464	28,408
926-A and G Loads	5,992	304	199	414	361	373	322	167	401	412	260	215	477	9,895
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	119,874	6,772	4,454	9,087	7,979	8,218	7,157	3,747	8,897	9,169	5,820	4,801	10,542	206,517
825-Clearings	-132,189	-1,163	-2,694	-9,792	-5,556	-13,276	-8,866	-4,127	-4,229	-8,402	-7,010	-2,956	-17,662	-217,920
Clr Sum	-132,189	-1,163	-2,694	-9,792	-5,556	-13,276	-8,866	-4,127	-4,229	-8,402	-7,010	-2,956	-17,662	-217,920
Proj Net	-12,315	5,610	1,761	-704	2,423	-5,058	-1,709	-380	4,667	767	-1,190	1,846	-7,120	-11,403

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Project No: 15101714 Alamogordo Feeder 12-11 Reconductor

Company: 034-PNM TNMPNM Distribution
Location: 151 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date 6/30/2017

List Interim In-Service Dates

Project Need Justification

This project is needed to increase the capacity of the Alamogordo Feeder 12-11 to mitigate overloads during normal conditions. Failure to perform this project could negatively impact system reliability. There is a 1.5 mile section of Alamogordo Feeder 12-11 that runs along North Florida Avenue from pole Y93C257 south of Scenic Drive to pole Y92C095 south of Highway 82 that is built with 1/0 aluminum-conductor steel-reinforced wire (ACSR) conductor. The conductor upstream and downstream of this section is 4/0 ACSR, with a normal ampacity of 336 Amps/phase. The 1/0 ACSR has a normal ampacity of 200 Amps/phase. Under peak load conditions, analysis shows that the load on the 1/0 ACSR is 194 Amps on A-phase, 151Amps on B-phase, and 167 Amps on C-phase, with phase A at 97% of the normal conductor rating. Further analysis also shows that moving two single-phase laterals from A-phase to C-phase improves the balance on the feeder and the section of 1/0 ACSR. However, the load on C-phase is still at 186 Amps or 93% of the normal rating of the conductor. Phase balancing alone will not alone correct the line capacity issue through the 1/0 ACSR section. Therefore, replacing the 1/0 ACSR section with 4/0 ACSR is also recommended. After the reconductoring, the load on the 4/0 ACSR will be at 55% of the normal rating of 4/0 ACSR and will provide long-term capacity on Alamogordo Feeder 12-11.

Project Alternatives

There are no other alternatives to this project and the current solution is the only viable solution as it utilizes an existing route and pole line.

Technical Aspects

Work will include the reconductor of 1.5 miles of 1/0 ACSR to 397 AAC from Pole #Y93C257 to Pole #Y92C095.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15101714	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15101714	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	32,785	3,278	3,278	3,278	60,652	60,652	0	0	0	0	0	0	163,923	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	199,602	24,950	24,950	0	0	0	0	0	0	0	249,502	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	2,570	257	257	257	4,755	4,755	0	0	0	0	0	0	12,852	
914-Pension and Benefits Load	0	8,947	895	895	895	16,552	16,552	0	0	0	0	0	0	44,735	
915-Injuries and Damages Load	0	2,039	204	204	204	3,773	3,773	0	0	0	0	0	0	10,196	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	34,531	4,316	4,316	0	0	0	0	0	0	0	43,164	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	8,898	890	39,213	5,680	21,251	16,460	0	0	0	0	0	0	92,392	
926-A and G Loads	0	2,203	220	13,634	1,897	5,752	4,076	0	0	0	0	0	0	27,782	
928-AFUDC Debt Reg	0	75	158	546	984	1,229	1,560	0	0	0	0	0	0	4,551	
929-AFUDC - Equity Regular	0	98	207	716	1,290	1,612	2,046	0	0	0	0	0	0	5,969	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	57,615	6,108	292,876	43,750	144,842	109,873	0	0	0	0	0	0	655,064	
825-Clearings	0	0	0	0	0	0	-655,064	0	0	0	0	0	0	-655,064	
Clr Sum	0	0	0	0	0	0	-655,064	0	0	0	0	0	0	-655,064	
Proj Net	0	57,615	6,108	292,876	43,750	144,842	-545,191	0	0	0	0	0	0	0	

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15101714	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	163,923	0	0	0	0	0	0	0	0	0	0	0	0	163,923
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	249,502	0	0	0	0	0	0	0	0	0	0	0	0	249,502
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	12,852	0	0	0	0	0	0	0	0	0	0	0	0	12,852
	914-Pension and Benefits Load	44,735	0	0	0	0	0	0	0	0	0	0	0	0	44,735
	915-Injuries and Damages Load	10,196	0	0	0	0	0	0	0	0	0	0	0	0	10,196
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	43,164	0	0	0	0	0	0	0	0	0	0	0	0	43,164
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	92,392	0	0	0	0	0	0	0	0	0	0	0	0	92,392
	926-A and G Loads	27,782	0	0	0	0	0	0	0	0	0	0	0	0	27,782
	928-AFUDC Debt Reg	4,551	0	0	0	0	0	0	0	0	0	0	0	0	4,551
	929-AFUDC - Equity Regular	5,969	0	0	0	0	0	0	0	0	0	0	0	0	5,969
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	655,064	0	0	0	0	0	0	0	0	0	0	0	0	655,064
	825-Clearings	-655,064	0	0	0	0	0	0	0	0	0	0	0	0	-655,064
	Clr Sum	-655,064	0	0	0	0	0	0	0	0	0	0	0	0	-655,064
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 15101807 Alamorgordo Pure Project

Company: 034-PNM TNMPNM Distribution
Location: 151 Distribution

Project Information

Construction Start Date 1/1/2016 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual work orders which are placed in service at various times throughout the year.

Project Need Justification

This work was identified through Line Patrols and involves repairing and replacing small capital items including arrestors, cross-arms, cut-outs, capacitors, and insulators. This work is necessary to maintain reliable service, public safety, and a safe working environment for PNM line crews. NMPRC Rule 17.9.560, Service Standards for Electric Utilities Rules, outlines requirements for following electrical and safety standards (NESC), minimizing interruption of service, and maintain protective safety measures. Not performing this work may decrease reliability and increase hazards to PNM personnel and the public.

Project Alternatives

There are no alternatives to conducting this work as it is required to ensure system reliability and minimize hazardous risks to PNM personnel and the public. However, the replacement of each equipment item is evaluated to ensure that the proper replacement equipment is identified and used.

Technical Aspects

This project involves the like-for-like replacement of deteriorated distribution line equipment from aging, obsolete and damaged equipment. The distribution equipment items identified for replacement include lightning arrestors, cross-arms, cut-outs, capacitors, and insulators.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15101807	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			650	2,500	935	18,700	6,076	500	29,361		
120-Overtime-General	0			1,000	200	400	2,500	1,500	250	5,850		
350-Material Issues-Major	0			1,000	1,250	1,250	10,488	1,000	500	15,488		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			130	212	105	1,668	596	59	2,771		
914-Pension and Benefits Load	0			494	808	400	6,347	2,268	225	10,542		
915-Injuries and Damages Load	0			108	176	87	1,382	494	49	2,296		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			154	192	192	1,612	154	77	2,381		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			626	952	588	7,601	2,208	293	12,267		
926-A and G Loads	0			220	329	215	2,636	714	104	4,218		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			4,381	6,620	4,172	52,935	15,010	2,056	85,174		
825-Clearings	0			-13,796	-8,055	-4,948	-43,338	-20,675	-7,225	-98,038		
Clr Sum	0			-13,796	-8,055	-4,948	-43,338	-20,675	-7,225	-98,038		
Proj Net	0			-9,415	-1,435	-777	9,597	-5,666	-5,169	-12,864		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15101807	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	29,361	3,200	3,200	2,950	8,510	8,150	10,300	10,300	9,650	8,980	7,380	6,100	5,100	113,181
120-Overtime-General	5,850	0	0	1,500	650	500	500	1,000	200	400	250	1,500	250	12,600
350-Material Issues-Major	15,488	250	1,250	1,000	500	1,250	500	1,000	1,250	1,250	500	1,000	500	25,738
370-Outside Services	0	0	0	0	0	0	0	20	0	0	0	0	0	20
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	500	1,200	500	1,200	1,200	1,200	1,200	500	500	0	8,000
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	2,771	251	251	349	718	678	847	886	772	735	598	596	419	9,872
914-Pension and Benefits Load	10,542	873	873	1,214	2,500	2,361	2,947	3,084	2,688	2,560	2,082	2,074	1,460	35,259
915-Injuries and Damages Load	2,296	199	199	277	570	538	672	703	613	583	475	473	333	7,929
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	2,381	43	216	173	87	216	87	173	216	216	87	173	87	4,154
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	12,267	916	1,108	1,496	2,812	2,684	3,257	3,493	3,144	3,016	2,263	2,351	1,548	40,355
926-A and G Loads	4,218	232	299	400	730	699	840	909	827	795	580	612	393	11,532
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	85,174	5,965	7,397	9,859	18,276	17,575	21,150	22,767	20,559	19,736	14,714	15,378	10,090	268,639
825-Clearings	-98,038	0	0	-18,576	0	0	-49,316	0	0	-60,313	0	0	-55,260	-281,503
Clr Sum	-98,038	0	0	-18,576	0	0	-49,316	0	0	-60,313	0	0	-55,260	-281,503
Proj Net	-12,864	5,965	7,397	-8,718	18,276	17,575	-28,167	22,767	20,559	-40,577	14,714	15,378	-45,170	-12,864

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15101807	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	113,181	700	4,500	4,000	4,000	6,000	5,600	6,000	6,000	4,015	4,500	2,550	2,500	163,546
120-Overtime-General	12,600	0	0	1,500	650	2,500	500	1,000	1,000	1,500	1,000	1,500	250	24,000
350-Material Issues-Major	25,738	450	2,250	3,500	6,000	7,000	7,000	6,000	5,250	5,180	4,500	2,000	1,000	75,868
370-Outside Services	20	0	0	0	0	0	0	0	0	0	0	0	0	20
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	8,000	0	0	0	0	0	0	0	0	0	0	0	0	8,000
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	9,872	55	353	431	365	666	478	549	549	432	431	318	216	14,714
914-Pension and Benefits Load	35,259	191	1,228	1,501	1,269	2,320	1,665	1,910	1,910	1,505	1,501	1,105	750	52,114
915-Injuries and Damages Load	7,929	44	280	342	289	529	379	435	435	343	342	252	171	11,771
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	4,154	78	389	606	1,038	1,211	1,211	1,038	908	896	779	346	173	12,826
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	40,355	276	1,653	2,165	2,414	3,651	2,999	3,052	2,908	2,491	2,357	1,483	938	66,742
926-A and G Loads	11,532	77	454	605	716	1,042	880	874	823	719	672	407	252	19,052
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	268,639	1,871	11,107	14,649	16,740	24,918	20,713	20,858	19,784	17,082	16,081	9,960	6,250	448,654
825-Clearings	-281,503	-1,497	-9,185	-13,556	-16,104	-23,155	-21,202	-20,927	-20,012	-17,668	-16,399	-11,248	-9,062	-461,517
Clr Sum	-281,503	-1,497	-9,185	-13,556	-16,104	-23,155	-21,202	-20,927	-20,012	-17,668	-16,399	-11,248	-9,062	-461,517
Proj Net	-12,864	374	1,922	1,093	637	1,763	-488	-69	-229	-586	-317	-1,288	-2,812	-12,864

Project No: 15200207 Line Extension - Commercial

Company: 034-PNM TNMPNM Distribution
Location: 152 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual customer work orders which are placed in service at various times throughout the year.

Project Need Justification

This project is for the installation of commercial line extensions for new or expanding non-residential customers. PNM is required to complete this work per its obligation to serve. The project funding covers the labor, materials and right-of-way acquisition for both overhead and underground extensions. Customers are responsible for these costs less credits they are allowed under PNM’s Rule 15 Line Extension Policy approved by the New Mexico Public Regulatory Commission. This project provides for PNM’s portion of the cost of these line extensions.

Project Alternatives

There are no alternatives to conducting this work. However, each line extension goes through a design process to ensure that it is designed to the minimum technical standards according to PNM Rule 15. Typically, the best option is a balance of cost, timing, and efficacy

Technical Aspects

The project costs related to labor include engineering, design, right-of-way acquisition, environmental and construction in the Ruidoso NM service territory. Physical components include, but are not limited to, primary wires, secondary wires, wood or steel poles and other supporting structures , trenches, switchgear, and conduit systems.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15200207	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			823	3,201	698	445	568	2,015	7,750		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			1,473	1,526	427	0	732	271	4,429		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			656	878	223	128	331	1,371	3,587		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	-243	-820	0	-1,171	-673	-2,907		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			65	252	55	35	45	159	610		
914-Pension and Benefits Load	0			246	958	209	133	170	603	2,320		
915-Injuries and Damages Load	0			54	209	46	29	37	131	505		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			226	235	66	0	113	42	681		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			614	1,299	307	142	348	842	3,552		
926-A and G Loads	0			246	466	112	48	136	304	1,312		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			4,403	8,781	1,323	960	1,308	5,063	21,839		
825-Clearings	0			0	-3,311	-1,306	-1,653	-1,361	-4,661	-12,292		
Clr Sum	0			0	-3,311	-1,306	-1,653	-1,361	-4,661	-12,292		
Proj Net	0			4,403	5,470	17	-693	-53	402	9,547		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15200207	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	7,750	2,224	5,597	3,900	2,210	2,577	1,652	2,251	2,398	203	-2,367	1,174	-77	29,492
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	4,429	1,201	3,024	2,135	1,194	1,554	893	1,216	2,105	109	-1,279	634	-41	17,175
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	3,587	1,086	2,733	1,930	1,079	1,405	807	1,099	1,903	99	-1,156	573	-37	15,108
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-2,907	-2,028	-5,104	-3,604	-2,015	-2,623	-1,507	-2,052	-3,554	-185	2,159	-1,070	70	-24,420
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	610	174	439	306	173	202	130	176	188	16	-186	92	-6	2,315
914-Pension and Benefits Load	2,320	607	1,528	1,064	603	703	451	614	654	55	-646	320	-21	8,254
915-Injuries and Damages Load	505	138	348	243	137	160	103	140	149	13	-147	73	-5	1,858
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	681	208	523	369	207	269	154	210	364	19	-221	110	-7	2,886
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	3,552	1,043	2,624	1,839	1,036	1,268	775	1,055	1,420	95	-1,110	550	-36	14,112
926-A and G Loads	1,312	303	763	535	301	372	225	307	431	28	-323	160	-10	4,404
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	21,839	4,957	12,476	8,718	4,925	5,887	3,683	5,017	6,060	452	-5,277	2,617	-171	71,183
825-Clearings	-12,292	0	-4,904	-7,512	-6,605	-4,977	-4,192	-2,243	-2,806	-3,494	-3,243	-1,871	-12,295	-66,433
Clr Sum	-12,292	0	-4,904	-7,512	-6,605	-4,977	-4,192	-2,243	-2,806	-3,494	-3,243	-1,871	-12,295	-66,433
Proj Net	9,547	4,957	7,572	1,206	-1,679	910	-509	2,775	3,254	-3,042	-8,519	746	-12,466	4,750

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15200207	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	29,492	1,555	3,914	2,764	1,545	2,012	1,155	1,574	1,425	142	-1,655	821	-54	44,691
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	17,175	836	2,104	1,486	831	1,082	621	846	1,465	76	-890	441	-29	26,044
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	15,108	756	1,902	1,343	751	978	561	765	1,324	69	-804	399	-26	23,125
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-24,420	-1,411	-3,551	-2,508	-1,402	-1,825	-1,048	-1,428	-2,473	-129	1,502	-745	49	-39,389
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	2,315	122	307	217	121	158	91	123	112	11	-130	64	-4	3,506
914-Pension and Benefits Load	8,254	424	1,068	754	422	549	315	430	389	39	-452	224	-15	12,401
915-Injuries and Damages Load	1,858	97	243	172	96	125	72	98	89	9	-103	51	-3	2,803
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	2,886	145	364	257	144	187	107	146	253	13	-154	76	-5	4,420
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	14,112	728	1,831	1,293	723	941	541	737	922	66	-775	384	-25	21,479
926-A and G Loads	4,404	211	532	376	210	274	157	214	283	19	-225	112	-7	6,560
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	71,183	3,462	8,715	6,154	3,441	4,480	2,573	3,505	3,790	316	-3,686	1,828	-119	105,640
825-Clearings	-66,433	-1,257	-4,358	-3,877	-4,150	-3,260	-2,769	-1,496	-1,851	-2,306	-2,110	-1,229	-8,069	-103,164
Clr Sum	-66,433	-1,257	-4,358	-3,877	-4,150	-3,260	-2,769	-1,496	-1,851	-2,306	-2,110	-1,229	-8,069	-103,164
Proj Net	4,750	2,205	4,357	2,277	-709	1,220	-197	2,009	1,939	-1,991	-5,796	599	-8,188	2,476

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Project No: 15200507 Lighting \$118,364 \$3,812 \$118,364

Company: 034-PNM TNMPNM Distribution
Location: 152 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2015	<u>Estimated Completion Date</u>
<u>List Interim In-Service Dates</u>		

Quarterly clearings occur during the year, with large street light projects cleared at completion of project during the year.03-15, 06-15, 09-15,10-15,11-15,12-15.

Project Need Justification

This project includes capital expenditures for the installation/repair or removal of street lighting systems under contract with any municipal corporation. PNM installed security lights per customer request in Southern New Mexico until 2012. In maintaining current lights, older fixtures that burn out are replaced with new light fixtures meeting the New Mexico Night Sky Act. Older fixtures are removed upon customer request.

Project Alternatives

PNM must honor installation/repair and removal requests under PNM Rate 20. Under Rate 20 customers have the option to own streetlights and pay PNM or a contractor for their installation. When requested by a municipal corporation for the installation/repair of a single street light location from PNM, a standard light is installed with light control.

Technical Aspects

This project includes the installation or removal of street lighting equipment such as Steel or Wood Poles, light fixtures with standoff brackets, overhead wiring, and ancillary lighting equipment.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15200507	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			716	1,379	1,245	745	2,001	483	6,570		
120-Overtime-General	0			0	104	0	0	0	0	104		
350-Material Issues-Major	0			875	564	1,160	926	1,432	1,021	5,978		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			397	409	539	487	1,512	1,427	4,771		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			56	117	98	59	157	38	525		
914-Pension and Benefits Load	0			214	444	373	223	599	145	1,998		
915-Injuries and Damages Load	0			47	97	81	49	130	31	435		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			134	87	178	142	220	157	919		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			427	576	647	461	1,079	582	3,771		
926-A and G Loads	0			165	204	245	180	411	244	1,450		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			3,033	3,981	4,567	3,272	7,542	4,127	26,521		
825-Clearings	0			-20,510	0	0	-13,558	0	-15,058	-49,126		
Clr Sum	0			-20,510	0	0	-13,558	0	-15,058	-49,126		
Proj Net	0			-17,477	3,981	4,567	-10,286	7,542	-10,931	-22,605		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15200507	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	6,570	1,338	873	488	910	556	896	698	711	598	249	897	1,028	15,814
120-Overtime-General	104	13	9	5	15	6	9	7	7	6	2	9	10	202
350-Material Issues-Major	5,978	1,812	1,182	661	1,985	753	1,212	945	963	810	337	1,214	1,392	19,243
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	4,771	526	343	192	577	219	352	275	280	235	98	353	405	8,626
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	525	106	69	39	72	44	71	55	56	47	20	71	81	1,258
914-Pension and Benefits Load	1,998	369	241	135	252	153	247	192	196	165	69	247	283	4,548
915-Injuries and Damages Load	435	84	55	31	58	35	56	44	45	38	16	56	65	1,016
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	919	313	204	114	343	130	210	164	167	140	58	210	241	3,214
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	3,771	816	532	298	743	339	546	426	434	365	152	547	627	9,593
926-A and G Loads	1,450	248	162	90	234	103	166	129	132	111	46	166	191	3,228
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	26,521	5,626	3,670	2,052	5,189	2,337	3,765	2,936	2,990	2,515	1,048	3,770	4,323	66,741
825-Clearings	-49,126	0	0	-447	-1,448	-1,552	-3,257	-1,423	0	-2,474	-4,587	-2,328	-8,380	-75,021
Clr Sum	-49,126	0	0	-447	-1,448	-1,552	-3,257	-1,423	0	-2,474	-4,587	-2,328	-8,380	-75,021
Proj Net	-22,605	5,626	3,670	1,605	3,741	786	508	1,513	2,990	41	-3,539	1,442	-4,057	-8,281

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15200507	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	15,814	1,510	1,042	582	1,150	663	1,069	833	849	714	297	1,070	1,227	26,821
120-Overtime-General	202	16	10	6	18	7	11	8	9	7	3	11	12	319
350-Material Issues-Major	19,243	2,151	1,403	784	2,357	894	1,439	1,122	1,143	962	401	1,441	1,653	34,993
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	8,626	625	408	228	685	260	418	326	332	279	116	419	480	13,203
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	1,258	120	82	46	92	53	85	66	67	57	24	85	97	2,130
914-Pension and Benefits Load	4,548	416	287	161	319	183	295	230	234	197	82	295	338	7,583
915-Injuries and Damages Load	1,016	95	65	37	73	42	67	52	53	45	19	67	77	1,708
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	3,214	372	243	136	408	155	249	194	198	166	69	249	286	5,938
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	9,593	947	633	354	901	403	650	507	516	434	181	650	746	16,515
926-A and G Loads	3,228	289	192	108	283	123	197	154	157	132	55	198	227	5,341
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	66,741	6,541	4,366	2,441	6,283	2,781	4,479	3,493	3,558	2,992	1,247	4,485	5,144	114,552
825-Clearings	-75,021	-5,317	-1,669	-815	-2,354	-2,430	-4,859	-2,056	0	-3,424	-6,304	-3,121	-10,995	-118,364
Clr Sum	-75,021	-5,317	-1,669	-815	-2,354	-2,430	-4,859	-2,056	0	-3,424	-6,304	-3,121	-10,995	-118,364
Proj Net	-8,281	1,225	2,697	1,626	3,929	351	-380	1,437	3,558	-431	-5,057	1,364	-5,851	-3,812

Project No: 15200607 ED Remove & Replace

Company: 034-PNM TNMPNM Distribution
Location: 152 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual work orders which are placed in service at various times throughout the year.

Project Need Justification

The project is for the replacement of electrical distribution line facilities that have been damaged by storms/fire or that have deteriorated through normal aging. The project also covers the required relocation of distribution facilities on government road right-of-way to accommodate construction projects such as road re-alignments and road widening. The project is generally for the replacement of like to like equipment that makes up the existing electrical distribution line facilities for both overhead and underground systems. The project drivers are the need to replace failed distribution line equipment and governmental roadway improvement projects.

Project Alternatives

This is mandatory blanket project that will have multiple projects built that are required for the safe and reliable operation of the distribution facilities for PNM customers. The alternatives to each project are evaluated at work order level to determine the optimal solution.

Technical Aspects

The project involves the removal and replacement of existing electrical distribution line facilities for both overhead and underground systems. The project includes design, installation and removal of wire, poles, pole hardware including insulators, cross arms, cut outs, anchor assemblies, switches, protective equipment, underground cable and conduits, and other equipment.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15200607	Year	2016									
Cost Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			6,800	6,184	4,094	3,721	2,275	2,298	25,372		
120-Overtime-General	0			2,211	1,012	1,550	1,500	1,500	0	7,773		
350-Material Issues-Major	0			8,100	6,285	5,581	3,136	2,980	1,850	27,931		
370-Outside Services	0			17,500	27,500	27,400	15,000	8,000	15	95,415		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			4,848	2,848	2,086	4,155	2,733	3,498	20,168		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			-6,523	-5,790	0	0	0	0	-12,313		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			709	566	444	411	297	181	2,609		
914-Pension and Benefits Load	0			2,698	2,154	1,690	1,563	1,130	688	9,924		
915-Injuries and Damages Load	0			588	469	368	340	246	150	2,161		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,245	966	858	482	458	284	4,293		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			8,039	8,699	7,994	5,518	3,545	1,606	35,400		
926-A and G Loads	0			3,283	3,647	3,387	2,289	1,455	637	14,698		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			49,497	54,541	55,452	38,115	24,619	11,207	233,431		
825-Clearings	0			-13,218	-27,183	-39,428	-20,332	-25,710	-55,549	-181,419		
Clr Sum	0			-13,218	-27,183	-39,428	-20,332	-25,710	-55,549	-181,419		
Proj Net	0			36,280	27,358	16,024	17,783	-1,090	-44,342	52,012		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15200607	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	25,372	11,985	10,651	13,441	12,865	10,985	13,982	10,411	10,155	8,968	9,700	7,380	7,683	153,578
	120-Overtime-General	7,773	847	636	1,013	1,075	366	1,228	466	431	132	780	555	343	15,645
	350-Material Issues-Major	27,931	6,414	4,814	7,671	8,141	2,769	9,297	3,531	3,266	1,003	5,905	4,201	2,600	87,543
	370-Outside Services	95,415	-1,426	-1,070	-1,706	-1,810	-616	-2,067	-785	-726	-223	-1,313	-934	-578	82,162
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	20,168	2,798	2,100	3,346	3,551	1,208	4,055	1,540	1,425	437	2,576	1,832	1,134	46,170
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	-12,313	-4,068	-3,053	-4,866	-5,163	-1,756	-5,897	-2,239	-2,071	-636	-3,746	-2,665	-1,649	-50,123
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	2,609	1,006	885	1,133	1,093	890	1,192	853	830	713	822	622	629	13,277
	914-Pension and Benefits Load	9,924	3,502	3,080	3,945	3,804	3,098	4,151	2,968	2,889	2,484	2,860	2,165	2,190	47,059
	915-Injuries and Damages Load	2,161	798	702	899	867	706	946	677	658	566	652	494	499	10,625
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	4,293	1,110	833	1,327	1,408	479	1,608	611	565	173	1,022	727	450	14,606
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	35,400	4,977	4,185	5,711	5,680	3,726	6,295	3,775	3,634	2,703	4,220	3,133	2,784	86,224
	926-A and G Loads	14,698	1,386	1,151	1,597	1,601	989	1,780	1,019	978	693	1,186	876	751	28,705
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	233,431	29,329	24,913	33,512	33,112	22,843	36,571	22,826	22,034	17,015	24,664	18,386	16,838	535,472
	825-Clearings	-181,419	-32,390	-16,873	-27,336	-11,422	-16,830	-27,952	-14,077	-16,183	-55,716	-27,926	-18,407	-50,038	-496,569
	Clr Sum	-181,419	-32,390	-16,873	-27,336	-11,422	-16,830	-27,952	-14,077	-16,183	-55,716	-27,926	-18,407	-50,038	-496,569
	Proj Net	52,012	-3,061	8,040	6,176	21,690	6,013	8,619	8,749	5,850	-38,701	-3,262	-21	-33,200	38,903

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15200607	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	153,578	6,834	5,549	8,742	9,384	3,192	10,690	4,070	3,765	1,456	4,808	4,843	2,997	219,909
120-Overtime-General	15,645	1,011	759	1,209	1,283	436	1,465	556	515	158	931	662	410	25,038
350-Material Issues-Major	87,543	7,616	5,716	9,108	9,666	3,288	11,039	4,192	3,878	1,191	7,012	4,988	3,087	158,324
370-Outside Services	82,162	-1,693	-1,271	-2,025	-2,149	-731	-2,454	-932	-862	-265	-1,559	-1,109	-686	66,425
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	46,170	3,322	2,493	3,973	4,216	1,434	4,815	1,829	1,691	519	3,059	2,176	1,347	77,045
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-50,123	-4,831	-3,625	-5,777	-6,131	-2,085	-7,001	-2,659	-2,460	-755	-4,447	-3,164	-1,958	-95,017
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	13,277	615	495	780	836	284	953	363	336	127	450	432	267	19,214
914-Pension and Benefits Load	47,059	2,141	1,721	2,716	2,911	990	3,317	1,263	1,168	440	1,566	1,502	930	67,725
915-Injuries and Damages Load	10,625	488	392	619	664	226	756	288	266	100	357	342	212	15,335
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	14,606	1,318	989	1,576	1,672	569	1,910	725	671	206	1,213	863	534	26,851
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	86,224	3,904	3,044	4,823	5,148	1,751	5,871	2,233	2,065	716	3,192	2,657	1,644	123,271
926-A and G Loads	28,705	1,148	890	1,412	1,505	512	1,717	653	604	206	958	777	481	39,568
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	535,472	21,873	17,152	27,156	29,006	9,866	33,077	12,580	11,637	4,099	17,538	14,968	9,264	743,687
825-Clearings	-496,569	-16,257	-19,692	-22,812	-9,648	-13,132	-22,574	-10,857	-11,968	-38,418	-19,363	-13,079	-34,495	-728,864
Clr Sum	-496,569	-16,257	-19,692	-22,812	-9,648	-13,132	-22,574	-10,857	-11,968	-38,418	-19,363	-13,079	-34,495	-728,864
Proj Net	38,903	5,616	-2,540	4,344	19,358	-3,265	10,503	1,723	-331	-34,319	-1,825	1,889	-25,232	14,823

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Project No: 15200807 Services \$509,037 \$59,574 \$509,037

Company: 034-PNM TNMPNM Distribution
Location: 152 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates
04-2015, 07-2015, 10-2015, 12-2015. Quarterly clearings occur every year thereafter.

Project Need Justification
This project provides for the connection of residential and non-residential customers’ electrical facilities to PNM’s distribution system. The project includes the cost of PNM labor, PNM transportation and material. Project includes cost of replacement of customer service conductors due to service upgrade or deteriorated service conductors. PNM is obligated to serve customers within its service territory. PNM and the customer’s service requirements are defined within PNM’s Rules and Regulations, specifically Rules 15, 16, & 18 filed with the New Mexico Public Regulatory Commission (NMPRC) pursuant to NMPRC Rule 210.

Project Alternatives
PNM is required to offer these services, therefore there are no potential alternatives. However, each customer request for overhead service is evaluated based on service location, service wire length, and route and potential solutions that maintain service voltage within regulatory requirements are evaluated. Non-residential customers located in underground electric distribution areas, or residential/non-residential customers located in an overhead electric distribution areas but requesting underground service, are required to provide the service wires per PNM rules. In these instances, PNM determines the optimal solution to meet the customer request while maintaining system reliability and compliance with regulatory standards. Technical Aspects

Technical Aspects
This project includes the installation and, in the case of service retirement, removal costs of overhead and underground conductors leading from the point where PNM wires leave the last pole or distribution box to the point of connection with the residential or non-residential customer. Materials include overhead and underground, three or four, bundled wire service conductor and associated connecting or terminating parts.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15200807	Year	2016									
Cost Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			3,347	3,366	2,142	2,353	2,357	1,955	15,520		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			7,322	4,068	4,511	4,070	1,776	1,215	22,962		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			1,927	1,646	3,081	2,144	1,566	1,713	12,078		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			263	265	169	185	186	154	1,221		
914-Pension and Benefits Load	0			1,002	1,008	641	704	706	585	4,647		
915-Injuries and Damages Load	0			218	219	140	153	154	127	1,012		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,125	625	693	626	273	187	3,529		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			2,605	1,956	1,976	1,778	1,248	1,064	10,626		
926-A and G Loads	0			1,048	755	810	713	474	406	4,207		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			18,858	13,908	14,163	12,726	8,739	7,406	75,801		
825-Clearings	0			-77,682	0	0	-48,175	0	-28,189	-154,045		
Clr Sum	0			-77,682	0	0	-48,175	0	-28,189	-154,045		
Proj Net	0			-58,824	13,908	14,163	-35,449	8,739	-20,783	-78,244		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15200807	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	15,520	3,743	6,109	8,653	5,438	6,038	5,350	4,802	8,475	5,374	7,069	5,349	2,500	84,419
120-Overtime-General	0	28	26	37	24	26	23	21	37	23	31	23	28	327
350-Material Issues-Major	22,962	802	760	1,077	677	752	666	598	1,055	669	880	666	809	32,372
370-Outside Services	0	123	116	165	103	115	102	91	161	102	134	102	124	1,438
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	12,078	2,306	2,186	3,097	1,946	2,161	1,915	1,719	3,033	1,923	2,530	1,914	2,326	39,134
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	1,221	296	481	681	428	475	421	378	667	423	557	421	198	6,649
914-Pension and Benefits Load	4,647	1,029	1,674	2,371	1,490	1,655	1,466	1,316	2,323	1,473	1,938	1,466	690	23,538
915-Injuries and Damages Load	1,012	235	382	541	340	377	334	300	529	336	442	334	157	5,318
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	3,529	139	132	186	117	130	115	103	183	116	152	115	140	5,157
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	10,626	1,644	2,253	3,191	2,006	2,227	1,973	1,771	3,126	1,982	2,607	1,973	1,312	36,691
926-A and G Loads	4,207	470	618	875	550	611	541	486	858	544	715	541	389	11,406
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	75,801	10,813	14,738	20,875	13,119	14,567	12,907	11,585	20,447	12,964	17,055	12,904	8,673	246,448
825-Clearings	-154,045	0	0	-7,003	-25,118	-8,830	-10,812	-11,467	-6	-2,423	-51,354	-2,954	-35,695	-309,708
Clr Sum	-154,045	0	0	-7,003	-25,118	-8,830	-10,812	-11,467	-6	-2,423	-51,354	-2,954	-35,695	-309,708
Proj Net	-78,244	10,813	14,738	13,871	-12,000	5,737	2,095	118	20,441	10,541	-34,299	9,950	-27,021	-63,260

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15200807	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	84,419	5,688	7,289	10,324	6,488	7,205	6,384	5,730	8,113	6,412	6,260	6,382	5,756	166,450
120-Overtime-General	327	33	32	45	28	31	28	25	44	28	36	28	34	717
350-Material Issues-Major	32,372	952	903	1,279	804	892	791	710	1,253	794	1,045	791	961	43,546
370-Outside Services	1,438	145	138	195	123	136	121	108	191	121	160	121	147	3,145
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	39,134	2,738	2,596	3,677	2,311	2,566	2,273	2,041	3,602	2,284	3,004	2,273	2,762	71,260
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	6,649	449	574	813	511	567	503	451	639	505	494	503	454	13,111
914-Pension and Benefits Load	23,538	1,561	1,998	2,830	1,778	1,975	1,750	1,570	2,226	1,757	1,718	1,749	1,580	46,031
915-Injuries and Damages Load	5,318	356	455	645	405	450	399	358	507	401	392	399	360	10,444
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	5,157	165	156	221	139	154	137	123	217	137	181	137	166	7,090
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	36,691	2,289	2,685	3,803	2,390	2,654	2,351	2,111	3,182	2,362	2,517	2,351	2,314	67,701
926-A and G Loads	11,406	642	736	1,043	655	728	645	579	887	648	706	645	649	19,969
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	246,448	15,019	17,562	24,875	15,633	17,359	15,380	13,805	20,862	15,449	16,512	15,377	15,183	449,463
825-Clearings	-309,708	-5,860	-4,237	-9,404	-32,782	-11,177	-13,461	-14,125	-7	-2,814	-57,611	-3,373	-44,477	-509,037
Clr Sum	-309,708	-5,860	-4,237	-9,404	-32,782	-11,177	-13,461	-14,125	-7	-2,814	-57,611	-3,373	-44,477	-509,037
Proj Net	-63,260	9,159	13,325	15,471	-17,149	6,182	1,919	-320	20,855	12,634	-41,099	12,004	-29,294	-59,574

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Project No: 15200907 Transformers \$335,831 \$19,625 \$335,831

Company: 034-PNM TNMPNM Distribution
Location: 152 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date
List Interim In-Service Dates

Project consists of many individual customer work orders which are placed in service at various times throughout the year.

Project Need Justification

This blanket project is for the purchase and installation of transformers required to provide electrical service to new customer loads, increased customer loads and to replace transformers that have failed.

Project Alternatives

This project is necessary to replace failed equipment and meet new or growing customer needs. For service to new customers consideration is given to serving customers from existing transformers or installing a new transformer for the customer requested voltage and sized appropriately from the customer provided electric load information. For electrical service to existing customer load increase the current loading is reviewed to determine if it is possible to 1) use the same transformer; 2) replace the existing transformer to one that is larger to meet the system requirements; or 3) add a new transformer to the Distribution system to accommodate the customer projected load increase. In the case of failed transformers, a similar evaluation is done to determine the appropriate replacement.

Technical Aspects

This project includes the cost for the purchase and installation of distribution transformers. These transformers reduce the primary distribution voltage of 7,200 volts to a usable level required for residential and non-residential customer; secondary voltages generally range from 120 volts to 480 volts. The installation costs include PNM labor, transportation and the ancillary material required for the transformer operation.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15200907	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			1,748	3,902	1,172	1,501	1,440	1,653	11,417		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			7,996	11,426	3,158	1,465	1,412	1,212	26,668		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			1,277	333	578	237	236	253	2,914		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			138	307	92	118	113	130	898		
914-Pension and Benefits Load	0			523	1,168	351	449	431	495	3,418		
915-Injuries and Damages Load	0			114	254	76	98	94	108	744		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,229	1,756	485	225	217	186	4,099		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			2,182	3,217	1,004	716	689	712	8,521		
926-A and G Loads	0			917	1,303	408	266	257	259	3,411		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			16,123	23,667	7,326	5,075	4,890	5,009	62,091		
825-Clearings	0			-30,761	-25,086	-10,878	-6,236	-5,159	-5,039	-83,159		
Clr Sum	0			-30,761	-25,086	-10,878	-6,236	-5,159	-5,039	-83,159		
Proj Net	0			-14,638	-1,419	-3,552	-1,160	-269	-30	-21,069		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15200907	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	11,417	574	417	727	734	524	649	827	852	624	553	752	361	19,011
120-Overtime-General	0	212	97	180	284	135	245	220	251	168	158	191	72	2,213
350-Material Issues-Major	26,668	6,051	3,308	7,679	7,755	4,221	6,841	7,804	7,837	7,776	4,753	6,948	2,719	100,360
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	2,914	292	134	387	391	186	338	510	402	508	217	402	99	6,779
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	-12	-5	-15	-16	-7	-14	-20	-16	-20	-9	-16	-4	-154
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	898	62	40	71	80	52	70	82	86	62	56	74	34	1,667
914-Pension and Benefits Load	3,418	215	140	248	278	180	244	286	301	216	194	257	118	6,094
915-Injuries and Damages Load	744	49	32	56	63	41	56	65	69	49	44	59	27	1,354
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	4,099	1,047	572	1,328	1,342	730	1,183	1,350	1,356	1,345	822	1,202	470	16,848
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	8,521	1,431	800	1,795	1,840	1,025	1,621	1,880	1,881	1,805	1,147	1,667	659	26,074
926-A and G Loads	3,411	479	266	603	616	340	543	629	628	610	382	557	219	9,282
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	62,091	10,400	5,801	13,058	13,366	7,428	11,777	13,633	13,646	13,144	8,317	12,093	4,774	189,528
825-Clearings	-83,159	-9,328	-6,506	-9,307	-7,748	-7,468	-13,893	-10,997	-2,548	-15,595	-11,943	-8,084	-22,466	-209,041
Clr Sum	-83,159	-9,328	-6,506	-9,307	-7,748	-7,468	-13,893	-10,997	-2,548	-15,595	-11,943	-8,084	-22,466	-209,041
Proj Net	-21,069	1,072	-705	3,751	5,619	-41	-2,116	2,636	11,098	-2,451	-3,626	4,009	-17,691	-19,514

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15200907	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	19,011	566	259	749	757	361	655	987	777	984	421	778	193	26,495	
120-Overtime-General	2,213	253	116	335	338	161	293	441	347	440	188	348	86	5,558	
350-Material Issues-Major	100,360	5,998	2,741	6,930	7,020	3,824	6,935	8,453	8,236	8,420	4,457	6,239	2,041	171,654	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	6,779	347	159	459	464	221	401	605	477	603	258	477	118	11,369	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	-154	-14	-6	-18	-19	-9	-16	-24	-19	-24	-10	-19	-5	-338	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	1,667	64	29	85	86	41	74	112	88	112	48	88	22	2,516	
914-Pension and Benefits Load	6,094	224	102	296	299	143	258	390	307	388	166	307	76	9,050	
915-Injuries and Damages Load	1,354	51	23	67	68	32	59	89	70	89	38	70	17	2,028	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	16,848	1,038	474	1,199	1,214	662	1,200	1,462	1,425	1,457	771	1,079	353	29,181	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	26,074	1,441	658	1,713	1,734	918	1,666	2,127	1,978	2,119	1,070	1,595	490	43,582	
926-A and G Loads	9,282	481	220	569	577	307	557	705	661	702	358	527	164	15,109	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	189,528	10,449	4,775	12,382	12,539	6,662	12,082	15,346	14,348	15,288	7,764	11,488	3,555	316,206	
825-Clearings	-209,041	-1,389	-1,941	-17,170	-9,284	-8,042	-14,594	-12,053	-2,731	-17,239	-12,601	-8,170	-21,577	-335,831	
Clr Sum	-209,041	-1,389	-1,941	-17,170	-9,284	-8,042	-14,594	-12,053	-2,731	-17,239	-12,601	-8,170	-21,577	-335,831	
Proj Net	-19,514	9,060	2,834	-4,787	3,256	-1,380	-2,512	3,292	11,617	-1,951	-4,837	3,318	-18,022	-19,625	

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Project No: 15201007 Meter Equipment \$186,999 \$13,658 \$186,999

Company: 034-PNM TNMPNM Distribution
Location: 152 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates
04-2015, 07-2015, 10-2015, 12-2015. Quarterly clearings occur every year thereafter.

Project Need Justification
This project is for the purchase of metering equipment that will be installed for new residential/commercial customers, to replace existing meters that are damaged or nearing the end of useful life, as well as other routine replacements as required by New Mexico Administrative Code Title 17, Chapter 9, Part 560 (NMAC 17.9.560 Section 14, Paragraphs A, D, F, E & G. The meters purchase are also for meter replacement due to failure of in service sample testing (NMAC 17.9.560.14 (E)) in Ruidoso NM.

Project Alternatives
This project is required to ensure that PNM meets it's obligation to serve its customers and maintain system reliability. The decision as to the specific metering equipment that will be installed is dependent on the location and other factors and will therefore be evaluated on a project level basis.

Technical Aspects
This project involves the purchase and installation of single and three phase solid state meters. Some of the meters will have remote communication capabilities, current and voltage transformers that provide safe and accurate monitoring of higher voltage loads, test switches that can interrupt the flow of current to safely allow testing of equipment on site, and wire, lugs and nuts to securely connect transformer equipment to metering equipment.. As equipment is removed from service and tested, the accuracy and condition is investigated. If equipment does not meet the required accuracy, condition, or current standards, the equipment is retired from the plant and replaced.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15201007	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			1,306	1,010	1,080	975	446	129	4,946		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			2,485	2,486	1,758	2,877	1,266	767	11,639		
370-Outside Services	0			5	0	0	0	0	871	876		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			644	534	436	665	314	308	2,901		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			103	79	85	77	35	10	389		
914-Pension and Benefits Load	0			391	302	323	292	134	39	1,481		
915-Injuries and Damages Load	0			85	66	70	64	29	8	322		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			382	382	270	442	195	118	1,789		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			929	828	694	916	411	394	4,173		
926-A and G Loads	0			369	335	272	376	169	173	1,694		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			6,699	6,024	4,990	6,683	2,998	2,817	30,210		
825-Clearings	0			-19,099	0	0	-17,977	0	-10,309	-47,386		
Clr Sum	0			-19,099	0	0	-17,977	0	-10,309	-47,386		
Proj Net	0			-12,400	6,024	4,990	-11,294	2,998	-7,492	-17,175		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15201007	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	4,946	576	885	985	636	718	672	1,175	1,313	956	502	45	704	14,113
120-Overtime-General	0	0	0	83	942	964	895	1,438	1,526	1,012	2,899	800	752	11,311
350-Material Issues-Major	11,639	908	1,412	1,591	948	919	1,004	1,743	3,959	2,924	1,579	70	2,055	30,751
370-Outside Services	876	0	0	0	0	0	0	0	0	0	0	0	0	876
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	2,901	58	179	197	124	122	128	238	252	186	100	4	131	4,619
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	389	45	69	84	124	132	123	205	223	154	267	66	114	1,995
914-Pension and Benefits Load	1,481	157	242	291	431	459	428	713	775	537	928	230	397	7,069
915-Injuries and Damages Load	322	36	55	66	98	105	97	163	177	122	212	53	91	1,596
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	1,789	157	244	275	164	159	174	302	685	506	273	12	356	5,095
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	4,173	342	546	633	634	656	643	1,090	1,579	1,131	1,245	244	815	13,730
926-A and G Loads	1,694	104	166	192	178	183	181	309	474	341	341	62	245	4,470
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	30,210	2,384	3,798	4,397	4,279	4,417	4,344	7,374	10,961	7,870	8,347	1,586	5,659	95,626
825-Clearings	-47,386	0	0	-5,112	-2,934	-7,061	-5,033	-4,535	-4,989	-8,648	-8,187	-2,648	-12,839	-109,372
Clr Sum	-47,386	0	0	-5,112	-2,934	-7,061	-5,033	-4,535	-4,989	-8,648	-8,187	-2,648	-12,839	-109,372
Proj Net	-17,175	2,384	3,798	-715	1,344	-2,644	-689	2,839	5,972	-779	160	-1,062	-7,179	-13,747

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15201007	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	14,113	688	2,130	2,340	1,475	1,453	1,518	2,834	2,998	2,214	1,196	53	1,557	34,569
120-Overtime-General	11,311	414	426	85	526	549	342	475	328	570	725	336	273	16,360
350-Material Issues-Major	30,751	679	1,733	1,870	1,313	1,278	1,380	2,444	2,701	3,471	1,875	83	2,440	52,019
370-Outside Services	876	0	0	0	0	0	0	0	0	0	0	0	0	876
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	4,619	69	212	233	147	145	151	283	299	221	119	5	155	6,660
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	1,995	86	200	190	157	157	146	259	261	218	151	31	143	3,994
914-Pension and Benefits Load	7,069	301	697	662	546	546	508	903	908	760	524	106	499	14,029
915-Injuries and Damages Load	1,596	69	159	151	124	125	116	206	207	173	119	24	114	3,183
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	5,095	117	300	324	227	221	239	423	467	601	324	14	422	8,775
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	13,730	443	1,067	1,062	823	817	799	1,422	1,479	1,465	904	123	995	25,127
926-A and G Loads	4,470	124	302	304	233	230	228	406	425	435	263	32	297	7,750
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	95,626	2,989	7,227	7,222	5,572	5,520	5,426	9,655	10,072	10,128	6,200	808	6,896	173,341
825-Clearings	-109,372	-705	-2,513	-8,528	-4,424	-9,929	-6,674	-5,962	-5,307	-9,952	-8,018	-2,444	-13,171	-186,999
Clr Sum	-109,372	-705	-2,513	-8,528	-4,424	-9,929	-6,674	-5,962	-5,307	-9,952	-8,018	-2,444	-13,171	-186,999
Proj Net	-13,747	2,284	4,714	-1,306	1,148	-4,409	-1,248	3,693	4,766	176	-1,817	-1,637	-6,275	-13,658

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Project No: 15201307 Cable Replacement

Company: 034-PNM TNMPNM Distribution
Location: 152 Distribution

Project Information

Construction Start Date 1/1/2016 Estimated Completion Date

List Interim In-Service Dates

This project consists of multiple individual work orders which are placed in service at various times throughout the year.

Project Need Justification

This project provides for the emergent replacement of aging underground distribution cable that are at a higher risk of failure. Emergent cable replacements address those cables which experience failures of their insulation that can cause multiple outages over a short period of time and/or impacting a large number of customers. Underground cable has a life expectancy of 30-40 years. The risk of not replacing aging and failing cable includes more frequent and extended power outages which adversely affect reliability and customer satisfaction.

Project Alternatives

An alternative to replacing failing cable is to inject a substance to improve the integrity of insulation materials and extend the life of the cable. This technique has short comings as it does address potential problems with cable splices made during installation or the ends of cable where terminating equipment is installed. Cable testing is another alternative, providing predictive identification of cable failures before they occur, specifically targeting the replacement of cable segments. However, not all cables are good candidates for testing, especially if extensive corrosion of neutral or too many past failures have caused degradation to insulation of cable. If either of these events were found, then replacement would be the better option.

Technical Aspects

Cable is replaced either by pulling the cable from existing conduit and replacing it with new cable or in the case of direct buried cable, by installing new conduit using directional boring equipment and pulling cable in the newly installed conduit. In some cases the new cable is installed along new routes to reduce the difficulty of the installation and/or future maintenance issues.

Project Estimate Approach

As PNM increases efforts to target cable replacements through proactive testing, less funding is required for emergent cable replacement. Prior years emergent cable replacements spend were escalated to reflect material and labor cost changes. Costs were estimated based on historical cable replacement costs per foot. The costs for these projects include engineering, project coordination, cable and conduits, and contractor costs for boring and excavation.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15201307	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			9,000	8,983	8,850	8,850	8,350	6,450	50,483		
120-Overtime-General	0			1,500	1,500	1,500	1,500	1,500	1,500	9,000		
350-Material Issues-Major	0			5,300	5,850	5,100	5,000	3,850	3,950	29,050		
370-Outside Services	0			4,250	4,480	1,500	1,300	1,300	1,300	14,130		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-325	-325	-325	-974		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			826	825	815	815	775	626	4,681		
914-Pension and Benefits Load	0			3,144	3,139	3,099	3,099	2,949	2,380	17,809		
915-Injuries and Damages Load	0			685	683	675	675	642	518	3,878		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			815	899	784	769	592	607	4,465		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			4,570	4,710	3,985	3,929	3,583	3,094	23,871		
926-A and G Loads	0			1,668	1,732	1,410	1,385	1,248	1,098	8,542		
928-AFUDC Debt Reg	0			36	92	131	156	172	178	764		
929-AFUDC - Equity Regular	0			39	100	142	169	186	193	828		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			31,832	32,993	27,990	27,321	24,822	21,569	166,527		
825-Clearings	0			-7,321	-13,226	-16,622	-19,082	-20,403	-20,671	-97,325		
Clr Sum	0			-7,321	-13,226	-16,622	-19,082	-20,403	-20,671	-97,325		
Proj Net	0			24,511	19,767	11,368	8,239	4,419	899	69,203		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15201307	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	50,483	0	0	0	0	0	0	0	0	0	0	0	0	50,483
120-Overtime-General	9,000	0	0	0	0	0	0	0	0	0	0	0	0	9,000
350-Material Issues-Major	29,050	0	0	0	0	0	0	0	0	0	0	0	0	29,050
370-Outside Services	14,130	0	0	0	0	0	0	0	0	0	0	0	0	14,130
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-974	-416	-416	0	0	0	0	0	0	0	0	0	0	-1,807
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	4,681	0	0	0	0	0	0	0	0	0	0	0	0	4,681
914-Pension and Benefits Load	17,809	0	0	0	0	0	0	0	0	0	0	0	0	17,809
915-Injuries and Damages Load	3,878	0	0	0	0	0	0	0	0	0	0	0	0	3,878
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	4,465	0	0	0	0	0	0	0	0	0	0	0	0	4,465
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	23,871	0	0	0	0	0	0	0	0	0	0	0	0	23,871
926-A and G Loads	8,542	0	0	0	0	0	0	0	0	0	0	0	0	8,542
928-AFUDC Debt Reg	764	180	180	180	140	108	84	65	50	39	30	23	18	1,862
929-AFUDC - Equity Regular	828	236	236	237	183	142	110	85	66	51	40	31	24	2,268
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	166,527	-1	-1	417	323	250	194	150	116	90	70	54	42	168,233
825-Clearings	-97,325	0	0	-16,012	-12,404	-9,608	-7,443	-5,766	-4,466	-3,460	-2,680	-2,076	-6,293	-167,533
Clr Sum	-97,325	0	0	-16,012	-12,404	-9,608	-7,443	-5,766	-4,466	-3,460	-2,680	-2,076	-6,293	-167,533
Proj Net	69,203	-1	-1	-15,595	-12,081	-9,358	-7,249	-5,616	-4,350	-3,370	-2,610	-2,022	-6,251	699

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15201307	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	50,483	0	0	0	0	0	0	0	0	0	0	0	0	50,483
	120-Overtime-General	9,000	0	0	0	0	0	0	0	0	0	0	0	0	9,000
	350-Material Issues-Major	29,050	0	0	0	0	0	0	0	0	0	0	0	0	29,050
	370-Outside Services	14,130	0	0	0	0	0	0	0	0	0	0	0	0	14,130
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-1,807	0	0	0	0	0	0	0	0	0	0	0	0	-1,807
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	4,681	0	0	0	0	0	0	0	0	0	0	0	0	4,681
	914-Pension and Benefits Load	17,809	0	0	0	0	0	0	0	0	0	0	0	0	17,809
	915-Injuries and Damages Load	3,878	0	0	0	0	0	0	0	0	0	0	0	0	3,878
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	4,465	0	0	0	0	0	0	0	0	0	0	0	0	4,465
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	23,871	0	0	0	0	0	0	0	0	0	0	0	0	23,871
	926-A and G Loads	8,542	0	0	0	0	0	0	0	0	0	0	0	0	8,542
	928-AFUDC Debt Reg	1,862	2	2	0	0	0	0	0	0	0	0	0	0	1,866
	929-AFUDC - Equity Regular	2,268	2	2	0	0	0	0	0	0	0	0	0	0	2,271
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	168,233	3	3	0	0	0	0	0	0	0	0	0	0	168,240
	825-Clearings	-167,533	0	-706	0	0	0	0	0	0	0	0	0	0	-168,240
	Clr Sum	-167,533	0	-706	0	0	0	0	0	0	0	0	0	0	-168,240
	Proj Net	699	3	-703	0	0	0	0	0	0	0	0	0	0	0

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Project No: 15201707 Ruidoso Pure Project

Company: 034-PNM TNMPNM Distribution
Location: 152 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual work orders which are placed in service at various times throughout the year.

Project Need Justification

This work was identified through Line Patrols and involves repairing and replacing small capital items including; arrestors, cross-arms, cut-outs, capacitors, and insulators. This is work is necessary to maintain reliable service and safety to the public and PNM line crews. NMPRC Rule 17.9.560, Service Standards for Electric Utilities Rules, outlines requirements for following electrical and safety standards (NESC), minimizing interruption of service, and abiding by protective safety measures. Failure to perform this this work may decrease reliability and increase hazards to PNM personnel and the public. The funds for this project will cover the internal and external labor, equipment, and materials associated with the replacement of the equipment.

Project Alternatives

There are no alternatives to conducting this work as it is required to ensure system reliability and minimize hazardous risks to PNM personnel and the public. However, the replacement of each equipment item is evaluated to ensure that the proper replacement equipment is identified and used.

Technical Aspects

This project involves the like-for-like replacement of deteriorated distribution line equipment from aging, obsolete and damaged equipment. The distribution equipment items identified for replacement include lightning arrestors, cross-arms, cut-outs, capacitors, and insulators.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15201707	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			500	500	1,000	1,000	500	500	4,000		
120-Overtime-General	0			750	1,500	1,500	1,500	800	500	6,550		
350-Material Issues-Major	0			1,250	1,500	1,500	1,000	500	250	6,000		
370-Outside Services	0			2,500	3,500	3,500	2,000	1,000	379	12,879		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			98	157	197	197	102	79	830		
914-Pension and Benefits Load	0			374	599	749	749	389	299	3,159		
915-Injuries and Damages Load	0			82	130	163	163	85	65	688		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			192	231	231	154	77	38	922		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			1,028	1,459	1,593	1,223	625	383	6,310		
926-A and G Loads	0			416	582	624	458	233	136	2,448		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			7,190	10,159	11,055	8,442	4,311	2,630	43,786		
825-Clearings	0			-11,954	-10,518	-10,948	-8,943	-5,237	-3,939	-51,539		
Cir Sum	0			-11,954	-10,518	-10,948	-8,943	-5,237	-3,939	-51,539		
Proj Net	0			-4,765	-359	108	-501	-927	-1,309	-7,753		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15201707	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	4,000	2,500	3,800	2,800	7,800	7,100	7,800	7,800	5,800	4,938	4,800	4,442	3,140	66,720
120-Overtime-General	6,550	0	250	500	0	265	0	0	250	0	0	250	0	8,065
350-Material Issues-Major	6,000	250	500	2,000	4,000	4,000	4,500	4,500	3,500	3,500	3,500	2,000	1,200	39,450
370-Outside Services	12,879	0	0	0	0	0	0	0	0	0	0	0	0	12,879
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	830	196	318	259	612	577	612	612	474	387	376	368	246	5,866
914-Pension and Benefits Load	3,159	682	1,105	901	2,129	2,010	2,129	2,129	1,651	1,348	1,310	1,280	857	20,688
915-Injuries and Damages Load	688	156	252	205	485	458	485	485	376	307	299	292	195	4,683
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	922	43	87	346	692	692	779	779	606	606	606	346	208	6,709
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	6,310	726	1,195	1,280	2,885	2,767	2,981	2,981	2,314	2,012	1,975	1,657	1,083	30,165
926-A and G Loads	2,448	185	306	356	793	764	827	827	642	567	558	450	292	9,013
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	43,786	4,738	7,812	8,646	19,395	18,633	20,111	20,111	15,613	13,665	13,423	11,085	7,220	204,239
825-Clearings	-51,539	0	0	0	0	0	0	0	0	0	0	0	-160,453	-211,992
Clr Sum	-51,539	0	0	0	0	0	0	0	0	0	0	0	-160,453	-211,992
Proj Net	-7,753	4,738	7,812	8,646	19,395	18,633	20,111	20,111	15,613	13,665	13,423	11,085	-153,233	-7,753

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15201707	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	66,720	1,500	1,500	1,000	5,500	5,500	5,500	4,500	4,500	3,500	2,720	1,500	1,500	105,440
120-Overtime-General	8,065	0	250	500	0	265	0	0	250	0	0	250	0	9,580
350-Material Issues-Major	39,450	250	0	500	1,250	0	2,500	1,250	0	2,000	1,500	1,500	450	50,650
370-Outside Services	12,879	0	0	0	0	0	0	0	0	0	0	0	0	12,879
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	5,866	118	137	118	431	452	431	353	372	274	213	137	118	9,021
914-Pension and Benefits Load	20,688	409	478	409	1,501	1,573	1,501	1,228	1,296	955	742	478	409	31,669
915-Injuries and Damages Load	4,683	93	109	93	342	359	342	280	295	218	169	109	93	7,186
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	6,709	43	0	87	216	0	433	216	0	346	260	260	78	8,647
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	30,165	455	475	503	1,733	1,565	1,973	1,461	1,289	1,334	1,026	763	493	43,235
926-A and G Loads	9,013	118	118	134	454	387	538	386	319	370	284	218	131	12,469
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	204,239	2,986	3,066	3,344	11,427	10,101	13,217	9,675	8,322	8,997	6,914	5,214	3,273	290,775
825-Clearings	-211,992	0	-4,842	-3,644	-9,870	-10,055	-12,585	-10,257	-8,709	-8,939	-7,319	-5,635	-4,681	-298,528
Clr Sum	-211,992	0	-4,842	-3,644	-9,870	-10,055	-12,585	-10,257	-8,709	-8,939	-7,319	-5,635	-4,681	-298,528
Proj Net	-7,753	2,986	-1,776	-300	1,557	46	632	-582	-387	57	-405	-421	-1,409	-7,753

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Project No: 15500107 Line Extension - Residential

Company: 034-PNM TNMPNM Distribution
Location: 155 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date
List Interim In-Service Dates

Project consists of many individual customer work orders which are placed in service at various times throughout the year.

Project Need Justification

This project is for the installation of residential line extensions for new residential customers, apartment complexes, and residential subdivisions. PNM is required to complete this work per its obligation to serve. The project funding covers the labor, materials and right-of-way acquisition for both overhead and underground extensions. Customers are responsible for these costs less credits they are allowed under PNM’s Rule 15 Line Extension Policy approved by the New Mexico Public Regulatory Commission. This project provides for PNM’s portion of the cost of these line extensions.

Project Alternatives

There are no alternatives to conducting this work. However, each line extension goes through a design process to ensure that it is designed to the minimum technical standards according to PNM Rule 15. Typically, the best option is a balance of cost, timing, and efficacy

Technical Aspects

The project includes the costs of labor for engineering, design, right-of-way acquisition, environmental review, and construction. The cost also includes electrical distribution line materials for the installation of the overhead or underground extensions. The distribution material for installation include but are not limited to primary wires, secondary wires, wood or steel poles and other supporting structures, trenches, switchgear, and duct-bank systems. Customers are responsible for these costs less credits they are allowed under PNM's Rule 15 Line Extension Policy approved by the New Mexico Public Regulatory Commission.

Project Estimate Approach

Historical spend in this funding project was analyzed to develop this project’s estimated spend. This blanket’s project spend forecast is prepared by escalating the most recent 12-month actual spend (July 2015-June 2016) by the second quarter reforecast (Q2RF) of expected customer growth provided by PNM Strategic Marketing & Product Management expressed as the percentage change in number of new customers year-over-year. The typical breakdown of total cost by high level cost categories is as follows: PNM labor 51%, material 26%, PNM transportation & equipment 22%, and contract labor 1%. This breakdown typically fluctuates for each project depending on the specifics and complexity of the project.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15500107	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			4,289	5,952	2,541	5,371	3,586	2,563	24,302		
120-Overtime-General	0			40	108	25	41	83	41	337		
350-Material Issues-Major	0			2,071	3,836	4,380	2,723	1,953	1,652	16,615		
370-Outside Services	0			300	240	650	0	0	0	1,190		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			4,265	2,932	5,437	3,889	2,488	2,172	21,184		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			-12,408	-16,110	-15,602	-15,624	-9,914	-7,057	-76,714		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			341	477	202	426	289	205	1,939		
914-Pension and Benefits Load	0			1,296	1,814	768	1,620	1,099	780	7,377		
915-Injuries and Damages Load	0			282	395	167	353	239	170	1,606		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			318	590	673	419	300	254	2,554		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			2,383	2,915	2,622	2,668	1,801	1,403	13,792		
926-A and G Loads	0			912	1,087	1,084	1,000	675	535	5,294		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			4,090	4,237	2,948	2,885	2,599	2,717	19,476		
825-Clearings	0			-2,479	-7,531	-14,080	-4,750	-5,481	-5,422	-39,742		
Clr Sum	0			-2,479	-7,531	-14,080	-4,750	-5,481	-5,422	-39,742		
Proj Net	0			1,611	-3,294	-11,132	-1,865	-2,882	-2,705	-20,267		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15500107	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	24,302	812	6,613	5,882	-2,242	-5,172	17,437	-3,259	4,747	-419	1,951	13,779	5,683	70,114	
120-Overtime-General	337	3	24	22	-8	-19	64	-12	18	-2	7	51	21	506	
350-Material Issues-Major	16,615	512	4,168	3,708	-1,413	-3,260	10,991	-2,054	2,992	-264	1,230	8,685	3,582	45,492	
370-Outside Services	1,190	0	0	0	0	0	0	0	0	0	0	0	0	1,190	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	21,184	570	4,645	4,132	-1,575	-3,633	12,248	-2,289	3,334	-295	1,370	9,678	3,992	53,361	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	-76,714	-1,561	-12,709	-11,305	4,309	9,940	-33,510	6,264	-9,122	806	-3,750	-26,480	-10,921	-164,753	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	1,939	64	520	463	-176	-407	1,372	-256	374	-33	154	1,084	447	5,544	
914-Pension and Benefits Load	7,377	222	1,811	1,611	-614	-1,417	4,776	-893	1,300	-115	534	3,774	1,557	19,925	
915-Injuries and Damages Load	1,606	51	413	367	-140	-323	1,089	-203	296	-26	122	860	355	4,466	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	2,554	89	721	641	-244	-564	1,901	-355	518	-46	213	1,503	620	7,549	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	13,792	429	3,493	3,108	-1,184	-2,732	9,212	-1,722	2,508	-222	1,031	7,279	3,002	37,993	
926-A and G Loads	5,294	127	1,038	924	-352	-812	2,738	-512	745	-66	306	2,163	892	12,487	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	19,476	1,318	10,738	9,553	-3,640	-8,399	28,317	-5,291	7,710	-681	3,167	22,377	9,230	93,874	
825-Clearings	-39,742	-2,542	-1,937	-7,887	-1,915	-371	-3,819	-2,312	-2,482	-2,777	-2,230	-26,040	-7,418	-101,473	
Clr Sum	-39,742	-2,542	-1,937	-7,887	-1,915	-371	-3,819	-2,312	-2,482	-2,777	-2,230	-26,040	-7,418	-101,473	
Proj Net	-20,267	-1,224	8,801	1,666	-5,555	-8,770	24,498	-7,603	5,228	-3,458	937	-3,664	1,812	-7,599	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15500107	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	70,114	1,227	9,994	8,890	-3,388	-7,817	26,353	-4,926	7,174	-634	2,949	20,824	8,589	139,349
120-Overtime-General	506	5	37	33	-12	-29	97	-18	26	-2	11	77	32	763
350-Material Issues-Major	45,492	770	6,269	5,576	-2,125	-4,903	16,530	-3,090	4,500	-398	1,850	13,062	5,387	88,920
370-Outside Services	1,190	0	0	0	0	0	0	0	0	0	0	0	0	1,190
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	53,361	858	6,986	6,214	-2,368	-5,464	18,419	-3,443	5,014	-443	2,061	14,555	6,003	101,753
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-164,753	-2,347	-19,113	-17,001	6,480	14,949	-50,396	9,420	-13,719	1,212	-5,639	-39,823	-16,425	-297,155
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	5,544	97	786	700	-267	-615	2,074	-388	564	-50	232	1,639	676	10,992
914-Pension and Benefits Load	19,925	336	2,737	2,435	-928	-2,141	7,218	-1,349	1,965	-174	808	5,704	2,353	38,890
915-Injuries and Damages Load	4,466	77	624	555	-211	-488	1,645	-308	448	-40	184	1,300	536	8,789
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	7,549	133	1,085	965	-368	-848	2,860	-535	779	-69	320	2,260	932	15,062
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	37,993	647	5,267	4,685	-1,785	-4,120	13,889	-2,596	3,781	-334	1,554	10,975	4,527	74,482
926-A and G Loads	12,487	192	1,565	1,392	-530	-1,224	4,126	-771	1,123	-99	462	3,260	1,345	23,327
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNM D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	93,874	1,995	16,237	14,444	-5,502	-12,700	42,814	-8,003	11,655	-1,030	4,792	33,833	13,954	206,362
825-Clearings	-101,473	-1,639	-5,968	-14,729	-3,779	-1,482	-6,265	-3,867	-4,034	-4,523	-3,597	-40,651	-11,454	-203,463
Clr Sum	-101,473	-1,639	-5,968	-14,729	-3,779	-1,482	-6,265	-3,867	-4,034	-4,523	-3,597	-40,651	-11,454	-203,463
Proj Net	-7,599	355	10,269	-285	-9,281	-14,183	36,549	-11,871	7,621	-5,553	1,195	-6,818	2,500	2,899

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Project No: 15500207 Line Extension - Commercial

Company: 034-PNM TNMPNM Distribution
Location: 155 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual customer work orders which are placed in service at various times throughout the year.

Project Need Justification

This project is necessary to meet PNM's obligation to serve new customers and provides for the installation of distribution line extensions necessary to serve new or expanding non-residential customers.

Project Alternatives

Because this project is necessary for PNM to serve new customers, there are no alternatives to conducting this work. However, each line extension goes through a design process to ensure that it is designed to the minimum technical standards according to PNM Rule 15. Typically, the best option is a balance of cost, timing, and efficacy.

Technical Aspects

The construction material required for distribution line extension include but not limited to primary wire, secondary wires, wood or steel poles as required and associated distribution hardware used for complete construction of projects. Customers are responsible for these costs less credits they are allowed under PNM's Rule 15 Line Extension Policy approved by the New Mexico Public Regulatory Commission. This project provides for PNM's portion of the cost of these line extensions.

Project Estimate Approach

Historical spend in this funding project was analyzed to develop this project's estimated spend. This blanket's project spend forecast is prepared by escalating the most recent 2-month actual spend (July 2015-June 2016) by the second quarter reforecast (Q2RF) of expected customer growth provided by PNM Strategic Marketing & Product Management expressed as the percentage change in number of new customers year-over-year. The typical breakdown of total cost by high level cost categories is as follows: PNM labor 53%, material 33%, PNM transportation & equipment 12%, and contract labor 2%. This breakdown typically fluctuates for each project depending on the specifics and complexity of the project.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15500207	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			18,025	15,504	5,130	15,497	3,237	8,474	65,868		
120-Overtime-General	0			1,237	403	280	0	417	0	2,337		
350-Material Issues-Major	0			10,328	2,228	8,987	16,475	9,969	12,207	60,194		
370-Outside Services	0			0	0	5,059	0	548	930	6,537		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			8,287	7,524	2,376	3,796	4,978	6,580	33,541		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			-32,257	-40,333	-38,472	-17,130	-3,504	-93,576	-225,271		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			1,516	1,252	426	1,220	288	667	5,368		
914-Pension and Benefits Load	0			5,767	4,763	1,620	4,640	1,094	2,537	20,421		
915-Injuries and Damages Load	0			1,256	1,037	353	1,010	238	553	4,447		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,587	342	1,381	2,532	1,532	1,876	9,252		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			8,587	6,052	4,483	7,888	3,842	5,910	36,762		
926-A and G Loads	0			3,151	2,135	1,816	2,976	1,593	2,346	14,017		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			27,484	907	-6,561	38,905	24,233	-51,496	33,473		
825-Clearings	0			0	-21,632	-7,014	-13,263	-12,430	-14,231	-68,570		
Clr Sum	0			0	-21,632	-7,014	-13,263	-12,430	-14,231	-68,570		
Proj Net	0			27,484	-20,725	-13,575	25,641	11,804	-65,726	-35,097		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15500207	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	65,868	5,446	3,719	4,525	3,650	4,899	3,862	9,677	2,500	5,155	2,280	5,491	-552	116,520
120-Overtime-General	2,337	302	44	89	126	58	46	115	0	61	27	65	-7	3,263
350-Material Issues-Major	60,194	5,670	2,003	4,053	5,736	2,639	2,080	4,212	180	2,777	1,228	2,957	-297	93,432
370-Outside Services	6,537	0	137	0	0	0	142	0	8	0	0	202	-20	7,006
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	33,541	5,837	2,022	4,092	5,791	2,664	2,100	5,262	-10,208	2,803	1,240	2,986	-300	57,830
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-225,271	-23,309	-3,407	-6,892	-9,755	-4,488	-3,538	-8,865	17,195	-4,722	-2,088	-5,030	505	-279,665
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	5,368	451	295	362	296	389	306	768	196	409	181	436	-44	9,411
914-Pension and Benefits Load	20,421	1,569	1,027	1,259	1,030	1,353	1,066	2,672	682	1,423	630	1,516	-153	34,496
915-Injuries and Damages Load	4,447	358	234	287	235	308	243	609	156	324	143	346	-35	7,655
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	9,252	981	347	701	992	457	360	729	31	480	212	512	-51	15,002
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	36,762	3,769	1,820	2,816	3,238	2,363	1,890	4,476	-1,245	2,487	1,100	2,688	-270	61,895
926-A and G Loads	14,017	1,160	533	857	1,028	689	553	1,295	-505	725	321	786	-79	21,381
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	33,473	2,233	8,773	12,150	12,368	11,331	9,111	20,950	8,989	11,924	5,274	12,954	-1,303	148,227
825-Clearings	-68,570	0	-7,794	-10,066	-11,530	-8,871	-7,850	-5,094	-5,967	-8,690	-10,834	-6,626	-43,091	-194,982
Clr Sum	-68,570	0	-7,794	-10,066	-11,530	-8,871	-7,850	-5,094	-5,967	-8,690	-10,834	-6,626	-43,091	-194,982
Proj Net	-35,097	2,233	980	2,084	838	2,460	1,261	15,856	3,023	3,234	-5,560	6,328	-44,394	-46,755

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15500207	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	116,520	29,656	4,334	8,769	12,412	5,710	4,501	11,279	-21,877	6,008	2,657	6,400	-643	185,726
120-Overtime-General	3,263	352	51	104	147	68	53	134	-260	71	32	76	-8	4,083
350-Material Issues-Major	93,432	15,894	2,323	4,700	6,652	3,060	2,412	6,045	-11,725	3,220	1,424	3,430	-345	130,522
370-Outside Services	7,006	1,088	159	322	455	209	165	414	-802	220	97	235	-24	9,544
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	57,830	16,048	2,345	4,745	6,716	3,090	2,436	6,103	-11,838	3,251	1,438	3,463	-348	95,279
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-279,665	-27,033	-3,951	-7,994	-11,314	-5,205	-4,103	-10,281	19,942	-5,477	-2,422	-5,834	586	-342,751
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	9,411	2,353	344	696	985	453	357	895	-1,736	477	211	508	-51	14,901
914-Pension and Benefits Load	34,496	8,189	1,197	2,421	3,427	1,577	1,243	3,115	-6,041	1,659	734	1,767	-178	53,606
915-Injuries and Damages Load	7,655	1,866	273	552	781	359	283	710	-1,377	378	167	403	-40	12,011
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	15,002	2,750	402	813	1,151	529	417	1,046	-2,028	557	246	593	-60	21,419
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	61,895	14,486	2,117	4,283	6,062	2,789	2,198	5,509	-10,686	2,934	1,298	3,126	-314	95,698
926-A and G Loads	21,381	4,236	619	1,253	1,773	816	643	1,611	-3,125	858	380	914	-92	31,266
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	148,227	69,885	10,212	20,664	29,247	13,455	10,606	26,579	-51,553	14,156	6,262	15,082	-1,517	311,305
825-Clearings	-194,982	-11,605	-22,781	-17,956	-22,146	-15,630	-13,018	-7,814	-3,546	-5,978	-7,849	-5,309	-34,219	-362,833
Clr Sum	-194,982	-11,605	-22,781	-17,956	-22,146	-15,630	-13,018	-7,814	-3,546	-5,978	-7,849	-5,309	-34,219	-362,833
Proj Net	-46,755	58,279	-12,569	2,708	7,101	-2,175	-2,412	18,766	-55,099	8,178	-1,587	9,772	-35,736	-51,528

Project No: 15500907 Transformers \$729,150 \$15,604 \$729,150

Company: 034-PNM TNMPNM Distribution
Location: 155 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Interim service dates are as follows: 04-2017, 07-2017, 10-2017, 12-2017. Quarterly clearings occur every year thereafter.

Project Need Justification

This blanket project is for the purchase and installation of transformers required to provide electrical service to new customer loads, increased customer loads and to replace transformers that have failed.

Project Alternatives

This project is necessary to replace failed equipment and meet new or growing customer needs. Consideration will be given to deciding between serving new customers from existing transformers or installing new transformers to meet voltage and load demands. Outside of these parameters, there are no other alternatives..

Technical Aspects

This project includes the cost for the purchase and installation of distribution transformers. These transformers reduce the primary distribution voltage ranging from 7,200 volts to 14,400 volts to a usable level required for residential and non-residential customer; secondary voltages generally range from 120 volts to 480 volts. The installation costs include PNM labor, transportation and the ancillary material required for the transformer operation.

Project Estimate Approach

The specific work items for this blanket will not be known until customer requests for new or upgraded service are received or fail during the budget year. As a result, forecasted spend is developed from historical activity. The project includes labor associated with the installation or exchange of transformers. The initial budget for this project was developed by applying escalation factors to the actual 12 months spend ending June 2016. The resulting forecasted spend is adjusted quarterly as appropriate consistent with the trends in new service and replacement activity.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15500907	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			2,479	4,059	3,521	2,505	1,574	4,020	18,158		
120-Overtime-General	0			3,160	5,367	2,804	927	1,043	545	13,846		
350-Material Issues-Major	0			6,960	9,178	7,853	16,282	11,112	12,167	63,552		
370-Outside Services	0			0	0	0	1,055	0	0	1,055		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			4,333	4,034	4,133	1,895	969	3,164	18,528		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			-617	-668	-1,619	-284	-405	-9,870	-13,462		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			444	742	498	270	206	359	2,519		
914-Pension and Benefits Load	0			1,688	2,822	1,894	1,027	783	1,367	9,582		
915-Injuries and Damages Load	0			368	615	412	224	171	298	2,087		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,070	1,411	1,207	2,503	1,708	1,870	9,768		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			3,595	4,961	3,906	4,474	2,934	4,055	23,925		
926-A and G Loads	0			1,409	1,883	1,523	1,886	1,223	1,655	9,579		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			24,889	34,403	26,133	32,763	21,317	19,630	159,136		
825-Clearings	0			-38,983	0	0	-82,436	0	-61,556	-182,975		
Clr Sum	0			-38,983	0	0	-82,436	0	-61,556	-182,975		
Proj Net	0			-14,094	34,403	26,133	-49,673	21,317	-41,926	-23,840		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15500907	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	18,158	1,207	1,233	760	1,563	800	1,469	2,333	1,967	1,201	1,824	1,118	1,558	35,191
120-Overtime-General	13,846	490	500	308	634	324	596	946	797	487	740	453	632	20,753
350-Material Issues-Major	63,552	9,830	10,042	6,186	12,724	6,511	11,961	18,994	16,011	9,777	14,851	9,101	12,686	202,226
370-Outside Services	1,055	0	0	0	0	0	0	0	0	0	0	0	0	1,055
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	18,528	1,080	1,104	680	1,398	716	1,315	2,088	1,760	1,075	1,632	1,000	1,394	33,770
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-13,462	-454	-464	-286	-588	-301	-552	-877	-739	-451	-686	-420	-586	-19,866
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	2,519	133	136	84	172	88	162	257	217	132	201	123	172	4,396
914-Pension and Benefits Load	9,582	463	473	291	600	307	564	895	754	461	700	429	598	16,115
915-Injuries and Damages Load	2,087	106	108	66	137	70	128	204	172	105	159	98	136	3,576
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	9,768	1,701	1,737	1,070	2,201	1,126	2,069	3,286	2,770	1,691	2,569	1,574	2,195	33,759
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	23,925	2,555	2,610	1,608	3,308	1,693	3,109	4,938	4,162	2,542	3,861	2,366	3,298	59,974
926-A and G Loads	9,579	847	865	533	1,097	561	1,031	1,637	1,380	843	1,280	784	1,093	21,531
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	159,136	17,958	18,345	11,301	23,245	11,895	21,852	34,701	29,251	17,863	27,131	16,626	23,175	412,478
825-Clearings	-182,975	0	0	-30,171	-16,812	-14,494	-26,350	-25,189	-5,631	-29,585	-27,423	-15,416	-55,340	-429,387
Clr Sum	-182,975	0	0	-30,171	-16,812	-14,494	-26,350	-25,189	-5,631	-29,585	-27,423	-15,416	-55,340	-429,387
Proj Net	-23,840	17,958	18,345	-18,870	6,433	-2,599	-4,498	9,511	23,620	-11,723	-292	1,210	-32,165	-16,909

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15500907	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	35,191	1,441	1,472	907	1,865	954	1,753	2,784	2,347	1,433	2,177	1,334	1,859	55,517
120-Overtime-General	20,753	584	597	368	756	387	711	1,129	952	581	883	541	754	28,996
350-Material Issues-Major	202,226	11,672	11,924	7,345	15,108	7,731	14,203	22,554	19,011	11,609	17,634	10,806	15,064	366,887
370-Outside Services	1,055	0	0	0	0	0	0	0	0	0	0	0	0	1,055
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	33,770	1,283	1,311	807	1,660	850	1,561	2,479	2,089	1,276	1,938	1,188	1,656	51,868
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-19,866	-539	-551	-339	-698	-357	-656	-1,041	-878	-536	-814	-499	-696	-27,470
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	4,396	159	162	100	205	105	193	307	259	158	240	147	205	6,635
914-Pension and Benefits Load	16,115	553	565	348	715	366	672	1,068	900	550	835	512	713	23,911
915-Injuries and Damages Load	3,576	126	129	79	163	83	153	243	205	125	190	117	163	5,353
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	33,759	2,019	2,063	1,271	2,614	1,337	2,457	3,902	3,289	2,008	3,051	1,869	2,606	62,245
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	59,974	3,037	3,103	1,911	3,931	2,011	3,695	5,868	4,947	3,021	4,588	2,812	3,919	102,817
926-A and G Loads	21,531	1,007	1,028	633	1,303	667	1,225	1,945	1,640	1,001	1,521	932	1,299	35,733
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	412,478	21,341	21,802	13,431	27,622	14,135	25,968	41,238	34,760	21,226	32,243	19,758	27,542	713,546
825-Clearings	-429,387	-2,960	-5,494	-34,892	-19,748	-17,091	-31,194	-29,898	-6,688	-35,142	-32,581	-18,317	-65,759	-729,150
Clr Sum	-429,387	-2,960	-5,494	-34,892	-19,748	-17,091	-31,194	-29,898	-6,688	-35,142	-32,581	-18,317	-65,759	-729,150
Proj Net	-16,909	18,381	16,309	-21,461	7,874	-2,956	-5,226	11,341	28,073	-13,917	-338	1,442	-38,217	-15,604

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Project No: 15501007 Meter Equipment

Company: 034-PNM TNMPNM Distribution
Location: 155 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Interim service dates are as follows: 04-2017, 07-2017, 10-2017, 12-2017. Quarterly clearings occur every year thereafter.

Project Need Justification

This project is for the purchase of metering equipment that will be installed for new residential/commercial customers, to replace existing meters that are damaged or nearing the end of useful life, as well as other routine replacements as required by New Mexico Administrative Code Title 17, Chapter 9, Part 560 (NMAC 17.9.560 Section 14, Paragraphs A, D, F, E & G. The meters purchase are also for meter replacement due to failure of in service sample testing (NMAC 17.9.560.14 (E)) in Ruidoso NM.

Project Alternatives

This project is required to ensure that PNM meets it's obligation to serve its customers and maintain system reliability. The decision as to the specific metering equipment that will be installed is dependent on the location and other factors and will therefore be evaluated on a project level basis.

Technical Aspects

This project involves the purchase and installation of single and three phase solid state meters. Some of the meters will have remote communication capabilities, current and voltage transformers that provide safe and accurate monitoring of higher voltage loads, test switches that can interrupt the flow of current to safely allow testing of equipment on site, and wire, lugs and nuts to securely connect transformer equipment to metering equipment.. As equipment is removed from service and tested, the accuracy and condition is investigated. If equipment does not meet the required accuracy, condition, or current standards, the equipment is retired from the plant and replaced.

Project Estimate Approach

The estimated costs for this project are based on the three categories: 1. Normal: classified as new service, maintenance, routines. 2. Retirements: include planned and unplanned removal of meter equipment due to damage, NMAC 17.9.560 required maintenance; 3. Replacements: include meters that fail the in-service performance testing criteria (NMAC 17.9.560.14 (E)). The estimates for all three categories are based on labor and non-labor costs. The Normal category is calculated using the preceding 12 month actual charges for labor and materials for this type of work then escalated by negotiated labor increase

percentages and projected growth rates provide by the Financial Planning and Business Analysis group, below are the rates used:

	Cust.	Labor	Non-labor	Material	2015	0.6%	2.0%	0.0%	2.4%	2016	34%	2.0%	1.5%	Year	New
1.3%	2017	26%		2.0%	1.5%		1.2%	2018	1.0%	2.0%	1.5%	1.0%	2019	1.0%	2.0%
1.5%															

0.9% The Retirements category is calculated based on an 25% of the average number of actual retirements over the past 5 years. These quantities are multiplied by an average cost per meter for labor and transportation. The Replacements category includes a specific quantity of meters that failed to meet acceptable accuracy criteria during an in-service performance testing plan. With meters on a four year removal plan the total number of in-service meters to be removed are identified then divided by four to give a per year quantity to be removed. All estimates for this category are for non-labor. Meter cost is based on the preferred vendor quotes of current year.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15501007	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			10,677	3,640	982	7,701	3,697	1,681	28,377		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	25	30	25	66	179	325		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,641	559	151	1,184	568	258	4,362		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			1,975	678	187	1,429	696	344	5,310		
926-A and G Loads	0			888	305	84	643	313	155	2,388		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			15,182	5,207	1,434	10,982	5,340	2,617	40,762		
825-Clearings	0			-20,476	0	0	-18,194	0	-12,506	-51,176		
Cir Sum	0			-20,476	0	0	-18,194	0	-12,506	-51,176		
Proj Net	0			-5,295	5,207	1,434	-7,212	5,340	-9,889	-10,414		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15501007	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oci	Nov	Dec	Total
110-Straight Time-General	0	1,590	501	1,930	1,817	1,086	2,486	932	1,997	611	579	180	1,043	14,752
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	28,377	980	309	1,189	1,120	669	1,532	574	1,231	377	357	111	643	37,469
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	325	141	44	171	161	96	220	83	177	54	51	16	92	1,631
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	125	39	151	142	85	195	73	157	48	45	14	82	1,157
914-Pension and Benefits Load	0	434	137	527	496	296	678	254	545	167	158	49	285	4,026
915-Injuries and Damages Load	0	99	31	120	113	68	155	58	124	38	36	11	65	918
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	4,362	170	53	206	194	116	265	99	213	65	62	19	111	5,934
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	5,310	647	204	785	739	442	1,011	379	812	249	235	73	424	11,310
926-A and G Loads	2,388	182	57	221	208	124	285	107	229	70	66	21	119	4,078
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	40,762	4,367	1,376	5,300	4,990	2,982	6,827	2,560	5,485	1,678	1,590	494	2,864	81,275
825-Clearings	-51,176	0	0	-5,336	-3,221	-6,576	-6,332	-2,899	-2,750	-3,625	-2,645	-852	-4,954	-90,366
Clr Sum	-51,176	0	0	-5,336	-3,221	-6,576	-6,332	-2,899	-2,750	-3,625	-2,645	-852	-4,954	-90,366
Proj Net	-10,414	4,367	1,376	-36	1,769	-3,594	495	-339	2,735	-1,947	-1,055	-358	-2,090	-9,091

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15501007	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	14,752	1,897	598	2,303	2,168	1,296	2,967	1,112	2,383	729	691	215	1,245	32,356
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	37,469	1,163	366	1,412	1,329	795	1,819	682	1,461	447	423	132	763	48,261
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	1,631	167	53	203	191	114	261	98	210	64	61	19	110	3,182
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	1,157	149	47	181	170	102	233	87	187	57	54	17	98	2,537
914-Pension and Benefits Load	4,026	518	163	628	592	354	810	303	650	199	189	59	340	8,830
915-Injuries and Damages Load	918	118	37	143	135	81	185	69	148	45	43	13	77	2,013
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	5,934	201	63	244	230	138	315	118	253	77	73	23	132	7,802
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	11,310	770	243	935	880	526	1,205	452	968	296	280	87	505	18,457
926-A and G Loads	4,078	217	68	263	248	148	339	127	272	83	79	25	142	6,091
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	81,275	5,200	1,639	6,313	5,942	3,553	8,132	3,048	6,532	1,998	1,893	590	3,413	129,528
825-Clearings	-90,366	-717	-1,446	-5,949	-3,705	-7,642	-7,476	-3,433	-3,268	-4,309	-3,145	-1,014	-5,897	-138,367
Clr Sum	-90,366	-717	-1,446	-5,949	-3,705	-7,642	-7,476	-3,433	-3,268	-4,309	-3,145	-1,014	-5,897	-138,367
Proj Net	-9,091	4,483	193	364	2,237	-4,089	656	-385	3,264	-2,311	-1,252	-424	-2,484	-8,839

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Project No: 15501307 Cable Replacement \$160,920 (\$87,511) \$160,920

Company: 034-PNM TNMPNM Distribution

Location: 155 Distribution

Project Information

Construction Start Date 5/1/2014

Estimated Completion Date

List Interim In-Service Dates

This project consists of multiple individual work orders which are placed in service at various times throughout the year.

Project Need Justification

This project involves the replacement of aging and failing underground distribution cable. Underground cable has a life expectancy of 30-40 years. Older cable is more vulnerable to experience insulation failures which, if not replaced, increase the risk of more frequent and extended power outages which adversely affect reliability and customer satisfaction. The primary costs for this project include engineering, project coordination, cable and conduits, and contractor costs for boring and excavation.

Project Alternatives

One alternative to replacing the failing cable is to inject a substance to improve the integrity of insulation materials to extend the life of the cable. However, this technique has short comings as it does address potential problems with cable splices made during installation or the ends of cable where terminating equipment is installed. Furthermore., the relatively small quantities of underground cable in the Silver City area makes cable injecting less economical for this service area. Another potential alternative is cable testing. This would better enable predictive identification of cable failures before they occur, specifically targeting the replacement of cable segments. However, the small quantities of underground cable in the Silver City area make cable testing less economical for this service area.

Technical Aspects

The aged cable is either replaced by pulling it from the existing conduit and replacing it with new cable or by boring in new cable using direction boring equipment. In some cases the new cable is installed along new routes to make the installation and/or future maintenance easier.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15501307	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15501307	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	7	7	7	7	7	7	7	7	7	7	7	72	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	3	3	3	3	3	7	7	7	7	7	7	56	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	2	2	2	2	2	3	3	3	3	3	3	24	
926-A and G Loads	0	0	1	1	1	1	1	1	1	1	1	1	1	9	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	12	12	12	13	13	17	17	17	17	17	17	163	
825-Clearings	0	0	-3	-5	-7	-8	-9	-11	-12	-13	-14	-15	-66	-163	
Clr Sum	0	0	-3	-5	-7	-8	-9	-11	-12	-13	-14	-15	-66	-163	
Proj Net	0	0	10	7	6	4	3	6	5	4	3	2	-49	0	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15501307	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	944	944	944	944	944	2,059	2,734	2,734	2,059	2,734	2,734	19,774
120-Overtime-General	0	0	14	14	14	14	14	21	21	21	21	21	21	196
350-Material Issues-Major	0	0	1,801	1,801	1,801	1,801	1,801	3,069	3,977	3,977	3,069	3,977	3,977	31,051
370-Outside Services	0	0	7,373	7,373	7,373	7,373	7,373	14,742	16,340	16,340	14,742	16,340	16,340	131,709
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	72	0	5	5	5	5	5	5	5	5	5	5	5	122
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	56	0	2	2	2	2	2	5	5	5	5	5	5	94
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	75	75	75	75	75	163	216	216	163	216	216	1,566
914-Pension and Benefits Load	0	0	261	261	261	261	261	568	752	752	568	752	752	5,450
915-Injuries and Damages Load	0	0	60	60	60	60	60	129	171	171	129	171	171	1,242
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	312	312	312	312	312	531	688	688	531	688	688	5,372
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	24	0	2,023	2,023	2,023	2,023	2,023	3,986	4,650	4,650	3,986	4,650	4,650	36,711
926-A and G Loads	9	0	681	681	681	681	681	1,337	1,551	1,551	1,337	1,551	1,551	12,294
928-AFUDC Debt Reg	1	0	18	45	66	83	95	122	162	197	219	237	255	1,498
929-AFUDC - Equity Regular	1	0	16	41	60	74	86	110	146	178	197	213	230	1,351
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	163	0	13,584	13,636	13,676	13,707	13,732	26,847	31,417	31,484	27,030	31,559	31,594	248,430
825-Clearings	-163	0	-3,124	-5,542	-7,413	-8,861	-9,981	-13,860	-17,898	-21,023	-22,405	-24,510	-26,140	-160,920
Clr Sum	-163	0	-3,124	-5,542	-7,413	-8,861	-9,981	-13,860	-17,898	-21,023	-22,405	-24,510	-26,140	-160,920
Proj Net	0	0	10,460	8,094	6,263	4,847	3,751	12,987	13,519	10,461	4,625	7,049	5,455	87,511

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Project No: 15501707 Silver City Pure Project

Company: 034-PNM TNMPNM Distribution
Location: 155 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date
List Interim In-Service Dates

This project consists of many individual work orders which are placed in service at various times throughout the year.

Project Need Justification

This work was identified through Line Patrols and includes the repair and replacement of small capital items including arrestors, cross-arms, cut-outs, capacitors, and insulators. This is work is necessary to maintain reliable service and safety to the public and PNM line crews. NMPRC Rule 17.9.560, Service Standards for Electric Utilities Rules, outlines requirements for following electrical and safety standards (NESC), minimizing interruption of service, and protective safety measures. By not performing this work, system reliability could be impacted and PNM personnel would be at an increased risk.

Project Alternatives

There are no alternatives to conducting this work as it is required to ensure system reliability and minimize hazardous risks to PNM personnel and the public. However, the replacement of each equipment item is evaluated to ensure that the proper replacement equipment is identified and used.

Technical Aspects

This project involves the like-for-like replacement of aging/obsolete or damaged equipment on distribution poles. Physical items identified for replacement include lightning arrestors, wire conductor supports such as cross-arms and insulators, cut-outs and capacitors for system voltage support. The project includes cost for PNM labor and transportation in the change of equipment.

Project Estimate Approach

Project work is identified through line patrols and estimates of the work are developed through the database where the information is collected. The project’s annual spend was initially established to complete the backlog of work over a five year period but has since been adjusted annually and quarterly as necessary based upon variability in other distribution line construction work and availability of line crews. The work is identified by distribution lines (feeders). Those feeders which experience higher numbers of outages and impact the greatest number of customers are given higher priority scheduling. The typical breakdown of cost by categories is as follows: company labor (80%), materials (18%), and company transportation (2%).

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15501707	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			3,500	5,500	3,500	5,500	2,500	250	20,750		
120-Overtime-General	0			1,250	0	1,000	250	250	0	2,750		
350-Material Issues-Major	0			2,500	0	1,500	1,500	2,500	200	8,200		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			374	433	354	453	216	20	1,849		
914-Pension and Benefits Load	0			1,422	1,647	1,347	1,722	823	75	7,036		
915-Injuries and Damages Load	0			310	359	293	375	179	16	1,532		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			384	0	231	231	384	31	1,260		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			1,731	1,469	1,479	1,813	1,197	104	7,792		
926-A and G Loads	0			603	458	499	603	437	37	2,637		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			12,074	9,864	10,204	12,446	8,487	733	53,807		
825-Clearings	0			-31,796	-14,251	-11,013	-12,159	-9,221	-3,038	-81,478		
Clr Sum	0			-31,796	-14,251	-11,013	-12,159	-9,221	-3,038	-81,478		
Proj Net	0			-19,722	-4,386	-809	286	-734	-2,305	-27,671		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15501707	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	20,750	500	2,500	3,500	9,550	6,500	9,500	8,500	9,500	8,550	8,500	1,500	1,500	90,850
120-Overtime-General	2,750	0	1,000	0	1,500	2,500	1,350	1,250	1,250	2,500	1,250	1,250	0	16,600
350-Material Issues-Major	8,200	1,500	1,500	1,500	4,500	1,150	3,750	1,750	3,250	3,500	7,000	1,000	1,200	39,800
370-Outside Services	0	0	0	0	0	8,500	7,500	5,500	8,500	5,500	4,000	800	0	40,300
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	1,500	1,500	2,500	500	5,000	1,500	1,500	1,500	1,500	500	500	18,000
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	1,849	39	274	274	866	706	851	764	843	866	764	216	118	8,431
914-Pension and Benefits Load	7,036	136	955	955	3,016	2,456	2,961	2,661	2,934	3,016	2,661	750	409	29,946
915-Injuries and Damages Load	1,532	31	218	218	687	560	675	606	669	687	606	171	93	6,754
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	1,260	260	260	260	779	199	649	303	562	606	1,211	173	208	6,727
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	7,792	424	1,526	1,526	4,343	4,391	6,065	4,326	5,461	5,015	5,046	1,188	733	47,836
926-A and G Loads	2,637	134	437	437	1,213	1,287	1,821	1,243	1,613	1,448	1,495	339	215	14,320
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	53,807	3,024	10,169	10,169	28,954	28,749	40,121	28,404	36,082	33,188	34,034	7,887	4,976	319,564
825-Clearings	-81,478	0	0	-18,691	0	0	-81,997	0	0	-94,538	0	0	-70,532	-347,235
Clr Sum	-81,478	0	0	-18,691	0	0	-81,997	0	0	-94,538	0	0	-70,532	-347,235
Proj Net	-27,671	3,024	10,169	-8,521	28,954	28,749	-41,876	28,404	36,082	-61,350	34,034	7,887	-65,556	-27,671

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project 15501707	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	90,850	500	1,500	3,500	9,550	6,500	7,500	8,500	8,500	3,500	5,500	2,500	1,500	149,900
120-Overtime-General	16,600	0	1,000	0	1,500	2,500	1,350	1,250	1,250	2,500	250	1,250	180	29,630
350-Material Issues-Major	39,800	1,500	3,000	1,500	4,500	1,150	3,750	1,750	3,250	1,500	2,000	2,500	750	66,950
370-Outside Services	40,300	0	0	0	0	4,500	3,500	5,500	4,500	5,500	0	0	0	63,800
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	18,000	0	1,500	1,500	2,500	500	5,000	1,500	1,500	1,500	1,500	500	500	36,000
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	8,431	39	196	274	866	706	694	764	764	470	451	294	132	14,082
914-Pension and Benefits Load	29,946	136	682	955	3,016	2,456	2,415	2,661	2,661	1,637	1,569	1,023	458	49,616
915-Injuries and Damages Load	6,754	31	156	218	687	560	550	606	606	373	358	233	104	11,237
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	6,727	260	519	260	779	199	649	303	562	260	346	433	130	11,424
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	47,836	424	1,542	1,526	4,343	3,623	4,754	4,326	4,422	3,260	2,233	1,594	696	80,579
926-A and G Loads	14,320	134	470	437	1,213	1,018	1,418	1,243	1,277	974	622	454	197	23,777
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNM D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	319,564	3,024	10,566	10,169	28,954	23,712	31,580	28,404	29,293	21,475	14,828	10,780	4,647	536,996
825-Clearings	-347,235	-2,419	-8,936	-9,923	-25,147	-23,999	-30,064	-28,736	-29,181	-23,016	-16,465	-11,917	-7,627	-564,667
Clr Sum	-347,235	-2,419	-8,936	-9,923	-25,147	-23,999	-30,064	-28,736	-29,181	-23,016	-16,465	-11,917	-7,627	-564,667
Proj Net	-27,671	605	1,629	247	3,806	-287	1,516	-332	111	-1,541	-1,638	-1,137	-2,979	-27,671

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Project No: 15534007 Tools & Equipment

Company: 034-PNM TNMPNM Distribution
Location: 155 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2017	<u>Estimated Completion Date</u>
<u>List Interim In-Service Dates</u>		

Project consists of many individual work orders which are placed in service at various times throughout the year.

Project Need Justification

This blanket project involves the purchase of tools and other work equipment required for building and maintaining distribution and transmission power lines. The purchase will in part replace tools that are either obsolete or that have been damaged and no longer function as designed.

Project Alternatives

There are two alternatives to this project: 1) do not purchase the tools and equipment or 2) purchase the tools and equipment. Given that transmission and distribution power lines must be maintained to ensure the reliability of the system and electric service to PNM customers, the purchase of the new tools and equipment is required. The purchase of the tools and equipment is evaluated to ensure the proper tools are being purchased and that they will be available when needed.

Technical Aspects

The project involves the purchase of tools, including but not limited to magnetic drill presses, hydraulic paving breaker, Streamline Robo crimp, cordless phasing sets, cable cutters, drum cables, new augers for digger trucks, core barrels, etc.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15534007	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			40,250	4,610	4,600	0	4,700	0	54,160		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-90	-87	-90	-267		
426-Capitalized Interest	0			112	58	77	90	99	115	551		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			6,186	709	707	0	722	0	8,324		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			3,349	384	383	0	391	0	4,506		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			49,897	5,760	5,767	0	5,825	25	67,274		
825-Clearings	0			-39,918	0	0	0	0	-27,357	-67,274		
Clr Sum	0			-39,918	0	0	0	0	-27,357	-67,274		
Proj Net	0			9,979	5,760	5,767	0	5,825	-27,332	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15534007	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	54,160	0	0	3,500	0	0	3,500	0	0	3,500	0	3,500	0	68,160
	370-Outside Services	0	0	0	0	0	0	161	0	0	200	0	0	0	361
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-267	0	0	0	0	0	0	0	0	0	0	0	0	-267
	426-Capitalized Interest	551	0	0	9	18	19	27	38	8	17	27	36	47	797
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	8,324	0	0	606	0	0	606	0	0	606	0	606	0	10,746
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	4,506	0	0	235	0	0	246	0	0	249	0	235	0	5,471
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	67,274	0	0	4,350	18	19	4,540	38	8	4,571	27	4,376	47	85,268
	825-Clearings	-67,274	0	0	0	0	0	0	-7,172	0	0	0	0	-10,822	-85,268
	Clr Sum	-67,274	0	0	0	0	0	0	-7,172	0	0	0	0	-10,822	-85,268
	Proj Net	0	0	0	4,350	18	19	4,540	-7,134	8	4,571	27	4,376	-10,776	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15534007	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	68,160	0	0	3,500	0	0	3,500	0	0	3,500	0	3,500	0	82,160	
370-Outside Services	361	0	0	0	0	0	161	0	0	180	0	0	0	702	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	-267	0	0	0	0	0	0	0	0	0	0	0	0	-267	
426-Capitalized Interest	797	0	0	9	18	18	24	33	6	14	23	30	38	1,011	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	10,746	0	0	606	0	0	606	0	0	606	0	606	0	13,168	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	5,471	0	0	235	0	0	246	0	0	247	0	235	0	6,435	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	85,268	0	0	4,350	18	18	4,537	33	6	4,547	23	4,370	38	103,209	
825-Clearings	-85,268	0	0	0	0	0	0	-7,165	0	0	0	0	-10,776	-103,209	
Clr Sum	-85,268	0	0	0	0	0	0	-7,165	0	0	0	0	-10,776	-103,209	
Proj Net	0	0	0	4,350	18	18	4,537	-7,132	6	4,547	23	4,370	-10,738	0	

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Project No: 20000207 Line Extensions - Commercial

Company: 001-Electric Services
Location: 200 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual customer work orders which are placed in service at various times throughout the year.

Project Need Justification

This project is necessary to meet PNM’s obligation to serve new customers and provides for the installation of distribution line extensions necessary to serve new or expanding non-residential customers.

Project Alternatives

Because this project is necessary for PNM to serve new customers, there are no alternatives to conducting this work. Nonetheless, line extension options for each new service request are evaluated individually taking into account many factors such as available capacity on existing lines, route distances, customer preferences, and right-of way requirements, per PNM Rule 15. The best method for the extension is selected based on a balance of cost, timing, and efficacy.

Technical Aspects

Line extensions are designed to the minimum system requirements in accordance with PNM Rule 15. Physical components include but are not limited to primary wires, secondary wires, wood or steel poles and other supporting structures, trenches, switchgear, and duct-bank systems.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	20000207	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	213,032		5,268	150	1,150	1,332	1,904	2,185	225,021		
	120-Overtime-General	13,249		0	0	0	0	0	0	13,249		
	350-Material Issues-Major	367,116		3,463	600	500	2,019	1,746	4,604	380,047		
	370-Outside Services	29,853		0	0	9	0	0	0	29,862		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	7,435		0	0	0	0	0	0	7,435		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	1,858		0	0	0	0	0	0	1,858		
	610-Expenses - General	0		400	1,662	3,744	27	430	1,225	7,489		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	-503,579		-637	-2,385	-2,509	-1,822	127	-954	-511,758		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	18,780		415	12	91	105	150	172	19,724		
	914-Pension and Benefits Load	71,939		1,577	45	344	399	570	654	75,529		
	915-Injuries and Damages Load	19,721		343	10	75	87	124	142	20,503		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	29,395		385	67	56	225	194	512	30,833		
	922-Minor Material Load	19,844		0	0	0	0	0	0	19,844		
	925-E and S Loads	129,340		2,121	458	1,094	734	911	1,662	136,321		
	926-A and G Loads	47,222		760	201	450	281	339	667	49,919		
	928-AFUDC Debt Reg	0		0	0	0	0	0	0	0		
	929-AFUDC - Equity Regular	0		0	0	0	0	0	0	0		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	465,205		14,095	819	5,003	3,386	6,497	10,870	505,874		
	825-Clearings	-647,340		0	-5,912	-2,596	-3,478	-3,275	-10,836	-673,437		
	Clr Sum	-647,340		0	-5,912	-2,596	-3,478	-3,275	-10,836	-673,437		
Proj Net		-182,135		14,095	-5,093	2,407	-92	3,222	33	-167,563		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	20000207	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	225,021	2,641	3,512	468	603	276	1,333	1,322	2,115	4,981	1,867	2,598	1,704	248,441	
120-Overtime-General	13,249	237	315	42	54	25	120	119	190	447	168	233	153	15,352	
350-Material Issues-Major	380,047	1,884	2,505	334	430	197	951	943	1,509	3,553	1,332	1,853	1,216	396,754	
370-Outside Services	29,862	0	0	0	0	0	0	0	0	0	0	0	0	29,862	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	7,435	0	0	0	0	0	0	0	0	0	0	0	0	7,435	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	1,858	0	0	0	0	0	0	0	0	0	0	0	0	1,858	
610-Expenses - General	7,489	1,585	2,108	281	362	166	800	793	1,270	2,989	1,120	1,559	1,023	21,545	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	-511,758	-2,504	-3,329	-444	-572	-262	-1,264	-1,253	-2,006	-4,722	-1,770	-2,463	-1,616	-533,963	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	19,724	226	300	40	52	24	114	113	181	426	160	222	146	21,725	
914-Pension and Benefits Load	75,529	785	1,044	139	179	82	397	393	629	1,481	555	773	507	82,494	
915-Injuries and Damages Load	20,503	179	238	32	41	19	90	90	143	338	127	176	116	22,091	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	30,833	326	433	58	74	34	165	163	261	615	230	321	210	33,723	
922-Minor Material Load	19,844	0	0	0	0	0	0	0	0	0	0	0	0	19,844	
925-E and S Loads	136,321	1,447	1,924	256	330	151	731	724	1,159	2,729	1,023	1,423	934	149,154	
926-A and G Loads	49,919	427	567	76	97	45	215	213	342	804	302	420	275	53,702	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	505,874	7,233	9,618	1,282	1,651	757	3,651	3,621	5,793	13,641	5,114	7,114	4,667	570,015	
825-Clearings	-673,437	0	-7,375	-7,476	-6,909	-4,293	-3,686	-1,909	-2,444	-4,568	-6,047	-3,688	-27,489	-749,320	
Clr Sum	-673,437	0	-7,375	-7,476	-6,909	-4,293	-3,686	-1,909	-2,444	-4,568	-6,047	-3,688	-27,489	-749,320	
Proj Net	-167,563	7,233	2,243	-6,195	-5,258	-3,536	-34	1,712	3,349	9,073	-933	3,426	-22,821	-179,305	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	20000207	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	248,441	1,847	2,456	327	422	193	932	924	1,479	3,483	1,305	1,817	1,192	264,818
120-Overtime-General	15,352	166	221	29	38	17	84	83	133	313	117	163	107	16,823
350-Material Issues-Major	396,754	1,311	1,743	232	299	137	662	656	1,050	2,472	927	1,290	846	408,379
370-Outside Services	29,862	0	0	0	0	0	0	0	0	0	0	0	0	29,862
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	7,435	0	0	0	0	0	0	0	0	0	0	0	0	7,435
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	1,858	0	0	0	0	0	0	0	0	0	0	0	0	1,858
610-Expenses - General	21,545	1,103	1,467	196	252	115	557	552	883	2,080	780	1,085	712	31,327
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-533,963	-1,742	-2,317	-309	-398	-182	-879	-872	-1,396	-3,286	-1,231	-1,714	-1,124	-549,413
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	21,725	158	210	28	36	16	80	79	126	298	111	155	102	23,124
914-Pension and Benefits Load	82,494	549	731	97	126	57	277	275	440	1,036	388	540	354	87,365
915-Injuries and Damages Load	22,091	125	167	22	29	13	63	63	100	236	88	123	81	23,201
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	33,723	227	302	40	52	24	115	113	182	428	160	223	146	35,734
922-Minor Material Load	19,844	0	0	0	0	0	0	0	0	0	0	0	0	19,844
925-E and S Loads	149,154	1,010	1,343	179	231	105	510	505	809	1,904	714	993	652	158,108
926-A and G Loads	53,702	297	396	53	68	31	150	149	238	561	210	293	192	56,340
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	570,015	5,051	6,717	894	1,154	527	2,551	2,527	4,044	9,524	3,570	4,969	3,260	614,803
825-Clearings	-749,320	-2,474	-5,985	-3,808	-3,588	-2,252	-2,028	-1,092	-1,461	-2,888	-3,874	-2,399	-18,029	-799,198
Clr Sum	-749,320	-2,474	-5,985	-3,808	-3,588	-2,252	-2,028	-1,092	-1,461	-2,888	-3,874	-2,399	-18,029	-799,198
Proj Net	-179,305	2,577	732	-2,914	-2,434	-1,725	522	1,435	2,583	6,637	-303	2,570	-14,769	-184,394

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Project No: 20000807 Services \$445,909 \$2,630 \$445,909

Company: 001-Electric Services
Location: 200 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date
List Interim In-Service Dates

The projects consist of many individual work orders which are placed in service at various times throughout the year.

Project Need Justification

PNM's customer service requirements are defined within PNM's Rules and Regulations, specifically Rules 15, 16, and 18 filed with the New Mexico Public Regulatory Commission (NMPRC) pursuant to NMPRC Rule 210. This project addresses these required service obligations to customers within the service territory by connecting residential and non-residential customers' facilities to PNM's distribution system.

Project Alternatives

Outside of this regulatory requirement, there are no other alternatives. As a new residential customer service location, each project will be evaluated with the review of service location, service wire length and route as defined to maintain service voltage within regulatory requirements.

Technical Aspects

This project includes the removal and installation costs of overhead and underground conductors leading from the connection with the customer to PNM poles or distribution boxes. Customers located in an overhead electric distribution areas but requesting and underground service, are required to provide the service wires per PNM rules. Materials used will include 3 to 4 overhead and underground bundled wire service conductors and associated connecting or terminating parts.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	20000807	Year	2016									
Cost_Type	Bal 6/30/16			Jui	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	182,723			3,502	4,735	2,338	2,371	1,477	1,831	198,977		
120-Overtime-General	17,400			192	1,500	500	183	0	263	20,037		
350-Material Issues-Major	145,567			1,463	8,349	2,299	1,665	1,120	4,687	165,151		
370-Outside Services	90,387			570	0	0	0	0	0	90,957		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	11,418			0	0	0	0	0	0	11,418		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	133			0	0	0	0	0	0	133		
610-Expenses - General	0			2,939	1,965	1,310	1,455	779	1,715	10,163		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	16,422			291	491	223	201	116	165	17,909		
914-Pension and Benefits Load	61,722			1,106	1,867	850	764	442	627	67,378		
915-Injuries and Damages Load	16,231			241	407	185	166	96	137	17,463		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	17,637			163	928	256	185	125	521	19,814		
922-Minor Material Load	7,932			0	0	0	0	0	0	7,932		
925-E and S Loads	100,780			1,906	3,573	1,425	1,259	746	1,744	111,433		
926-A and G Loads	38,825			721	1,377	536	472	281	707	42,920		
928-AFUDC Debt Reg	4,592			0	0	0	0	0	0	4,592		
929-AFUDC - Equity Regular	1,124			0	0	0	0	0	0	1,124		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	712,893			13,093	25,192	9,922	8,722	5,183	12,396	787,402		
825-Clearings	-885,875			-43,220	0	0	-43,713	0	-28,507	-1,001,315		
Clr Sum	-885,875			-43,220	0	0	-43,713	0	-28,507	-1,001,315		
Proj Net	-172,981			-30,127	25,192	9,922	-34,991	5,183	-16,111	-213,914		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	20000807	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	198,977	5,175	5,808	9,494	3,630	4,034	4,958	5,092	5,366	3,948	4,528	1,678	2,646	255,334	
120-Overtime-General	20,037	228	256	419	160	178	219	225	237	174	200	74	117	22,524	
350-Material Issues-Major	165,151	1,575	1,768	2,890	1,105	1,228	1,509	1,550	1,633	1,202	1,378	511	806	182,306	
370-Outside Services	90,957	0	0	0	0	500	0	0	285	0	0	0	0	91,742	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	11,418	0	0	0	0	0	0	0	0	0	0	0	0	11,418	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	133	0	0	0	0	0	0	0	0	0	0	0	0	133	
610-Expenses - General	10,163	2,882	3,234	5,287	2,022	2,247	2,761	2,836	2,988	2,199	2,522	934	1,474	41,549	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	17,909	424	475	777	297	330	406	417	439	323	371	137	217	22,522	
914-Pension and Benefits Load	67,378	1,474	1,655	2,705	1,034	1,149	1,413	1,451	1,529	1,125	1,290	478	754	83,437	
915-Injuries and Damages Load	17,463	336	377	617	236	262	322	331	349	256	294	109	172	21,123	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	19,814	272	306	500	191	212	261	268	283	208	238	88	139	22,782	
922-Minor Material Load	7,932	0	0	0	0	0	0	0	0	0	0	0	0	7,932	
925-E and S Loads	111,433	2,322	2,606	4,260	1,629	1,906	2,225	2,285	2,463	1,772	2,032	753	1,188	136,873	
926-A and G Loads	42,920	663	744	1,216	465	550	635	652	706	506	580	215	339	50,189	
928-AFUDC Debt Reg	4,592	0	0	0	0	0	0	0	0	0	0	0	0	4,592	
929-AFUDC - Equity Regular	1,124	0	0	0	0	0	0	0	0	0	0	0	0	1,124	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	787,402	15,351	17,229	28,165	10,769	12,598	14,708	15,107	16,277	11,713	13,433	4,978	7,851	955,581	
825-Clearings	-1,001,315	0	0	-9,160	-29,811	-9,493	-11,818	-13,132	-6	-2,411	-48,959	-2,335	-28,914	-1,157,355	
Clr Sum	-1,001,315	0	0	-9,160	-29,811	-9,493	-11,818	-13,132	-6	-2,411	-48,959	-2,335	-28,914	-1,157,355	
Proj Net	-213,914	15,351	17,229	19,005	-19,042	3,105	2,890	1,975	16,271	9,302	-35,526	2,643	-21,062	-201,774	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	20000807	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	255,334	5,175	5,808	9,494	3,630	4,034	4,958	5,092	5,366	3,948	4,528	5,678	3,646	316,691	
120-Overtime-General	22,524	228	256	419	160	178	219	225	237	174	200	74	117	25,011	
350-Material Issues-Major	182,306	1,575	1,768	2,890	1,105	1,228	1,509	1,550	1,633	1,202	1,378	511	806	199,461	
370-Outside Services	91,742	0	0	0	0	500	0	0	285	0	0	0	0	92,527	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	11,418	0	0	0	0	0	0	0	0	0	0	0	0	11,418	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	133	0	0	0	0	0	0	0	0	0	0	0	0	133	
610-Expenses - General	41,549	2,882	3,234	5,287	2,022	2,247	2,761	2,836	2,988	2,199	2,522	934	1,474	72,935	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	22,522	424	475	777	297	330	406	417	439	323	371	451	295	27,528	
914-Pension and Benefits Load	83,437	1,474	1,655	2,705	1,034	1,149	1,413	1,451	1,529	1,125	1,290	1,570	1,027	100,860	
915-Injuries and Damages Load	21,123	336	377	617	236	262	322	331	349	256	294	358	234	25,094	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	22,782	272	306	500	191	212	261	268	283	208	238	88	139	25,750	
922-Minor Material Load	7,932	0	0	0	0	0	0	0	0	0	0	0	0	7,932	
925-E and S Loads	136,873	2,322	2,606	4,260	1,629	1,906	2,225	2,285	2,463	1,772	2,032	1,838	1,459	163,670	
926-A and G Loads	50,189	663	744	1,216	465	550	635	652	706	506	580	484	406	57,794	
928-AFUDC Debt Reg	4,592	0	0	0	0	0	0	0	0	0	0	0	0	4,592	
929-AFUDC - Equity Regular	1,124	0	0	0	0	0	0	0	0	0	0	0	0	1,124	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	955,581	15,351	17,229	28,165	10,769	12,598	14,708	15,107	16,277	11,713	13,433	11,986	9,604	1,132,520	
825-Clearings	-1,157,355	-5,369	-3,998	-9,578	-30,937	-9,751	-12,046	-13,314	-6	-2,431	-49,292	-2,809	-34,896	-1,331,783	
Clr Sum	-1,157,355	-5,369	-3,998	-9,578	-30,937	-9,751	-12,046	-13,314	-6	-2,431	-49,292	-2,809	-34,896	-1,331,783	
Proj Net	-201,774	9,982	13,231	18,586	-20,168	2,846	2,662	1,793	16,271	9,282	-35,859	9,177	-25,293	-199,263	

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Project No: 20001707 Deming Pure Project

Company: 001-Electric Services
Location: 200 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates

Interim service dates include: 04-2015, 07-2015, 10-2015, 12-2015. Quarterly clearings will occur every year thereafter.

Project Need Justification

The Automated Line Patrols (ALPS) process identified a large quantity of work needed for repairing and replacing aging overhead distribution construction components. The work includes cost for internal labor, material, transportation, and contractors. This work is necessary to maintain reliable service and reduce hazards to the public and PNM line crews. NMPRC Rule 17.9.560, Service Standards for Electric Utilities Rules, outlines requirements for following electrical and safety standards (National Electric Safety Code), minimizing interruption of service, and protective safety measures. Not performing this work may decrease reliability and increase hazards to PNM personnel and the public.

Project Alternatives

There are minimal alternatives for this project, as most repairs will be for damaged equipment. Not performing this work may decrease reliability and increase hazards to PNM personnel and the public.

Technical Aspects

This project involves the like-for-like replacement of aging/obsolete or damaged equipment on distribution poles. Physical items identified for replacement include lightning arrestors, cross-arms, cut-outs, capacitors, and insulators.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	20001707	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	21,853		1,500	2,500	2,500	2,000	1,000	1,000	32,353		
	120-Overtime-General	13,600		1,000	2,000	2,000	1,500	1,000	1,500	22,600		
	350-Material Issues-Major	46,731		1,500	1,500	2,500	2,500	500	500	55,731		
	370-Outside Services	425,015		10,500	15,000	15,000	15,000	15,000	305	495,820		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		200	520	150	150	50	50	1,120		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	2,568		197	354	354	275	157	197	4,103		
	914-Pension and Benefits Load	9,709		749	1,347	1,347	1,048	599	749	15,547		
	915-Injuries and Damages Load	2,561		163	293	293	228	130	163	3,832		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	12,510		167	167	278	278	56	56	13,510		
	922-Minor Material Load	2,549		0	0	0	0	0	0	2,549		
	925-E and S Loads	51,783		2,925	4,350	4,467	4,200	3,411	826	71,961		
	926-A and G Loads	42,872		1,223	1,790	1,843	1,760	1,460	279	51,227		
	928-AFUDC Debt Reg	2,113		0	0	0	0	0	0	2,113		
	929-AFUDC - Equity Regular	3,030		0	0	0	0	0	0	3,030		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	636,893		20,123	29,822	30,733	28,939	23,363	5,624	775,496		
	825-Clearings	-658,692		-31,600	-30,178	-30,622	-29,276	-24,546	-11,760	-816,673		
	Clr Sum	-658,692		-31,600	-30,178	-30,622	-29,276	-24,546	-11,760	-816,673		
	Proj Net	-21,799		-11,478	-356	111	-337	-1,182	-6,136	-41,177		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	20001707	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	32,353	1,500	1,000	1,500	3,500	2,500	4,500	7,500	5,500	4,500	4,000	1,000	1,000	70,353
120-Overtime-General	22,600	0	500	500	500	1,500	1,500	1,500	1,500	500	500	250	500	31,850
350-Material Issues-Major	55,731	1,000	0	1,000	1,500	1,500	500	1,000	4,500	1,500	5,000	500	340	74,071
370-Outside Services	495,820	0	0	0	0	4,500	0	5,280	0	3,500	2,500	0	0	511,600
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	1,120	150	200	50	50	200	200	200	520	150	150	50	50	3,090
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	4,103	118	118	157	314	314	470	706	549	392	353	98	118	7,807
914-Pension and Benefits Load	15,547	409	409	546	1,092	1,092	1,637	2,456	1,910	1,365	1,228	341	409	28,441
915-Injuries and Damages Load	3,832	93	93	124	249	249	373	560	435	311	280	78	93	6,771
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	13,510	173	0	173	260	260	87	173	779	260	865	87	59	16,683
922-Minor Material Load	2,549	0	0	0	0	0	0	0	0	0	0	0	0	2,549
925-E and S Loads	71,961	628	445	744	1,383	2,276	1,763	3,687	2,864	2,346	2,690	445	482	91,714
926-A and G Loads	51,227	178	114	205	373	685	450	1,040	808	682	816	121	127	56,827
928-AFUDC Debt Reg	2,113	0	0	0	0	0	0	0	0	0	0	0	0	2,113
929-AFUDC - Equity Regular	3,030	0	0	0	0	0	0	0	0	0	0	0	0	3,030
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	775,496	4,249	2,880	4,999	9,220	15,075	11,480	24,101	19,364	15,505	18,382	2,969	3,178	906,900
825-Clearings	-816,673	0	0	-9,703	0	0	-30,561	0	0	-53,289	0	0	-37,852	-948,077
Clr Sum	-816,673	0	0	-9,703	0	0	-30,561	0	0	-53,289	0	0	-37,852	-948,077
Proj Net	-41,177	4,249	2,880	-4,703	9,220	15,075	-19,080	24,101	19,364	-37,784	18,382	2,969	-34,674	-41,177

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	20001707	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jui	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	70,353	1,500	1,000	500	2,500	3,500	4,500	3,500	2,500	2,500	2,000	1,000	1,000	96,353
120-Overtime-General	31,850	0	0	0	500	1,500	500	1,500	500	1,500	500	500	0	38,850
350-Material Issues-Major	74,071	1,000	0	1,500	1,500	950	1,500	2,500	1,500	500	1,000	500	500	87,021
370-Outside Services	511,600	0	0	0	0	0	2,500	165	2,000	0	1,500	0	0	517,765
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	3,090	150	200	50	50	200	200	200	520	150	150	50	50	5,060
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	7,807	118	78	39	235	392	392	392	235	314	196	118	78	10,394
914-Pension and Benefits Load	28,441	409	273	136	819	1,365	1,365	1,365	819	1,092	682	409	273	37,447
915-Injuries and Damages Load	6,771	93	62	31	187	311	311	311	187	249	156	93	62	8,824
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	16,683	173	0	260	260	164	260	433	260	87	173	87	87	18,924
922-Minor Material Load	2,549	0	0	0	0	0	0	0	0	0	0	0	0	2,549
925-E and S Loads	91,714	628	310	433	1,112	1,578	2,163	1,907	1,586	1,210	1,187	513	377	104,718
926-A and G Loads	56,827	178	81	138	306	413	618	529	472	312	346	138	104	60,462
928-AFUDC Debt Reg	2,113	0	0	0	0	0	0	0	0	0	0	0	0	2,113
929-AFUDC - Equity Regular	3,030	0	0	0	0	0	0	0	0	0	0	0	0	3,030
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	906,900	4,249	2,004	3,087	7,468	10,373	14,309	12,801	10,578	7,913	7,890	3,407	2,531	993,510
825-Clearings	-948,077	-3,399	-2,283	-2,926	-6,559	-9,610	-13,369	-12,914	-11,045	-8,540	-8,020	-4,330	-3,614	-1,034,686
Clr Sum	-948,077	-3,399	-2,283	-2,926	-6,559	-9,610	-13,369	-12,914	-11,045	-8,540	-8,020	-4,330	-3,614	-1,034,686
Proj Net	-41,177	850	-279	161	908	763	940	-114	-467	-626	-130	-923	-1,082	-41,177

Project No: 30000807 Services \$265,229 (\$4,393) \$265,229

Company: 001-Electric Services
Location: 300 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Generally, blanket work orders of this nature are cleared quarterly.

Project Need Justification

PNM's customer service requirements are defined within PNM's Rules and Regulations, specifically Rules 15, 16, and 18 filed with the New Mexico Public Regulatory Commission (NMPRC) pursuant to NMPRC Rule 210. This project addresses these required service obligations to customers within the service territory by connecting residential and non-residential customers' facilities to PNM's distribution system.

Project Alternatives

Outside of this regulatory requirement, there are no other alternatives. As a new residential customer service location, each project will be evaluated with the review of service location, service wire length and route as defined to maintain service voltage within regulatory requirements.

Technical Aspects

This project includes the removal and installation costs of overhead and underground conductors leading from the connection with the customer to PNM pole or distribution box. Customers located in an overhead electric distribution areas but requesting and underground service, are required to provide the service wires per PNM rules. Materials used will include three to four overhead and underground bundled wire service conductors and associated connecting or terminating parts.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	30000807	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	215,956		3,000	3,745	2,291	608	1,818	2,047	229,465		
	120-Overtime-General	2,976		50	54	31	12	38	49	3,210		
	350-Material Issues-Major	70,500		203	212	226	149	79	95	71,464		
	370-Outside Services	17,643		0	0	0	0	0	0	17,643		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	6,659		0	0	0	0	0	0	6,659		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	140		0	0	0	0	0	0	140		
	610-Expenses - General	0		1,671	1,563	1,133	439	1,301	1,465	7,572		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	18,382		240	299	183	49	146	165	19,464		
	914-Pension and Benefits Load	69,181		913	1,137	695	186	556	628	73,296		
	915-Injuries and Damages Load	18,964		199	248	151	40	121	137	19,860		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	6,487		23	24	25	17	9	11	6,594		
	922-Minor Material Load	3,550		0	0	0	0	0	0	3,550		
	925-E and S Loads	83,200		1,161	1,343	871	274	751	848	88,448		
	926-A and G Loads	25,091		410	464	306	101	269	304	26,945		
	928-AFUDC Debt Reg	7,240		0	0	0	0	0	0	7,240		
	929-AFUDC - Equity Regular	1,698		0	0	0	0	0	0	1,698		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	547,667		7,869	9,088	5,913	1,874	5,088	5,748	583,248		
	825-Clearings	-695,331		-11,261	-11,414	-651	-13,507	-6,844	-12,611	-751,619		
	Clr Sum	-695,331		-11,261	-11,414	-651	-13,507	-6,844	-12,611	-751,619		
	Proj Net	-147,664		-3,392	-2,325	5,262	-11,633	-1,756	-6,863	-168,372		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	30000807	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	229,465	2,660	1,897	2,877	2,306	2,033	1,418	5,223	2,550	1,943	3,220	2,097	1,810	259,500
120-Overtime-General	3,210	4	3	5	4	3	2	9	4	3	5	4	3	3,260
350-Material Issues-Major	71,464	1,035	738	1,119	897	791	552	2,032	992	756	1,253	816	704	83,150
370-Outside Services	17,643	109	78	118	94	83	58	214	104	80	132	86	74	18,873
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	6,659	0	0	0	0	0	0	0	0	0	0	0	0	6,659
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	140	0	0	0	0	0	0	0	0	0	0	0	0	140
610-Expenses - General	7,572	1,670	1,191	1,806	1,447	1,276	890	3,278	1,601	1,219	2,021	1,316	1,136	26,424
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	19,464	209	149	226	181	160	111	410	200	153	253	165	142	21,822
914-Pension and Benefits Load	73,296	727	519	786	630	556	388	1,428	697	531	880	573	495	81,506
915-Injuries and Damages Load	19,860	166	118	179	144	127	88	325	159	121	201	131	113	21,731
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	6,594	179	128	194	155	137	95	352	172	131	217	141	122	8,616
922-Minor Material Load	3,550	0	0	0	0	0	0	0	0	0	0	0	0	3,550
925-E and S Loads	88,448	1,264	901	1,366	1,095	966	674	2,481	1,211	923	1,529	996	860	102,713
926-A and G Loads	26,945	368	263	398	319	281	196	723	353	269	446	290	251	31,101
928-AFUDC Debt Reg	7,240	0	0	0	0	0	0	0	0	0	0	0	0	7,240
929-AFUDC - Equity Regular	1,698	0	0	0	0	0	0	0	0	0	0	0	0	1,698
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	583,248	8,392	5,983	9,074	7,273	6,413	4,474	16,475	8,044	6,128	10,156	6,614	5,710	677,984
825-Clearings	-751,619	-3,205	-8,212	-3,571	-13,087	-4,353	-4,887	-7,934	-3	-1,362	-29,207	-1,633	-20,372	-849,445
Clr Sum	-751,619	-3,205	-8,212	-3,571	-13,087	-4,353	-4,887	-7,934	-3	-1,362	-29,207	-1,633	-20,372	-849,445
Proj Net	-168,372	5,186	-2,229	5,503	-5,814	2,060	-413	8,541	8,040	4,766	-19,051	4,982	-14,661	-171,461

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	30000807	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	259,500	3,174	2,263	3,432	2,751	2,426	1,692	6,232	3,043	2,318	3,842	2,502	2,160	295,337
120-Overtime-General	3,260	5	4	6	5	4	3	10	5	4	6	4	4	3,321
350-Material Issues-Major	83,150	1,229	876	1,329	1,065	939	655	2,413	1,178	898	1,488	969	836	97,026
370-Outside Services	18,873	129	92	140	112	99	69	254	124	95	157	102	88	20,334
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	6,659	0	0	0	0	0	0	0	0	0	0	0	0	6,659
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	140	0	0	0	0	0	0	0	0	0	0	0	0	140
610-Expenses - General	26,424	1,983	1,414	2,144	1,718	1,515	1,057	3,893	1,901	1,448	2,400	1,563	1,349	48,808
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	21,822	249	178	270	216	191	133	489	239	182	302	196	170	24,637
914-Pension and Benefits Load	81,506	868	619	938	752	663	463	1,704	832	634	1,050	684	590	91,303
915-Injuries and Damages Load	21,731	198	141	214	171	151	105	388	190	144	239	156	135	23,964
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	8,616	213	152	230	184	163	113	417	204	155	257	168	145	11,016
922-Minor Material Load	3,550	0	0	0	0	0	0	0	0	0	0	0	0	3,550
925-E and S Loads	102,713	1,505	1,073	1,627	1,304	1,150	802	2,954	1,442	1,099	1,821	1,186	1,024	119,698
926-A and G Loads	31,101	438	312	474	380	335	234	860	420	320	530	345	298	36,049
928-AFUDC Debt Reg	7,240	0	0	0	0	0	0	0	0	0	0	0	0	7,240
929-AFUDC - Equity Regular	1,698	0	0	0	0	0	0	0	0	0	0	0	0	1,698
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	677,984	9,991	7,124	10,803	8,659	7,636	5,327	19,616	9,577	7,296	12,092	7,875	6,799	790,779
825-Clearings	-849,445	-3,622	-2,240	-4,617	-16,565	-5,409	-6,018	-9,606	-4	-1,638	-35,066	-1,956	-24,375	-960,560
Clr Sum	-849,445	-3,622	-2,240	-4,617	-16,565	-5,409	-6,018	-9,606	-4	-1,638	-35,066	-1,956	-24,375	-960,560
Proj Net	-171,461	6,370	4,884	6,186	-7,906	2,227	-691	10,010	9,573	5,658	-22,973	5,919	-17,576	-169,781

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Project No: 41000107 Line Extensions - Residential

Company: 001-Electric Services
Location: 410 Distribution

Project Information

Construction Start Date 1/1/2016 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual customer work orders which are placed in service at various times throughout the year.

Project Need Justification

This project is necessary to meet PNM’s obligation to serve new customers and provides for the installation of electric line extensions for new residential customers, apartment complexes, and residential subdivisions.

Project Alternatives

Because this project is necessary for PNM to serve new customers, there are no alternatives to conducting this work. Nonetheless, line extension options for each new service request are evaluated individually taking into account many factors such as available capacity on existing lines, route distances, customer preferences, and right-of way requirements, per PNM Rule 15. The best method for the extension is selected based on a balance of cost, timing, and efficacy.

Technical Aspects

Line extensions are designed to the minimum system requirements in accordance with PNM Rule 15. Physical components include but are not limited to primary wires, secondary wires, wood or steel poles and other supporting structures, trenches, switchgear, and conduit systems.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	41000107	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	1,000,106		14,371	22,163	22,117	19,910	12,000	2,128	1,092,795		
	120-Overtime-General	51,526		60	215	250	516	6,365	1,642	60,574		
	350-Material Issues-Major	1,831,284		12,000	12,500	16,000	22,200	28,053	19,500	1,941,537		
	370-Outside Services	1,418,720		9,857	12,000	22,800	16,600	11,000	23,500	1,514,477		
	374-Outside Svcs Legal	901		0	0	0	0	0	0	901		
	377-Outside Services-Temp Labor	146,927		176	1,670	0	-1,562	0	0	147,211		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	762		0	0	0	0	0	0	762		
	610-Expenses - General	104,432		5,899	6,485	7,629	11,417	5,318	2,499	143,679		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	-6,003,058		-25,229	-71,306	-48,407	-111,000	-114,512	-11,899	-6,385,411		
	829-Construction Adjustment	9,261		0	0	0	0	0	0	9,261		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	87,495		1,136	1,761	1,760	1,608	1,445	297	95,502		
	914-Pension and Benefits Load	334,687		4,321	6,700	6,697	6,116	5,498	1,129	365,147		
	915-Injuries and Damages Load	87,622		941	1,459	1,458	1,332	1,197	246	94,255		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	164,640		1,334	1,390	1,779	2,469	3,119	2,168	176,900		
	922-Minor Material Load	111,847		0	0	0	0	0	0	111,847		
	925-E and S Loads	876,120		9,021	12,016	14,562	14,455	13,112	9,424	948,710		
	926-A and G Loads	317,674		3,525	4,579	5,724	5,748	5,220	4,099	346,568		
	928-AFUDC Debt Reg	3		0	0	0	0	0	0	3		
	929-AFUDC - Equity Regular	3		0	0	0	0	0	0	3		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	540,952		37,411	11,632	52,369	-10,193	-22,183	54,733	664,720		
	825-Clearings	-1,157,494		-15,697	-14,925	-22,039	-15,915	-8,676	-17,427	-1,252,174		
	Clr Sum	-1,157,494		-15,697	-14,925	-22,039	-15,915	-8,676	-17,427	-1,252,174		
Proj Net		-616,542		21,714	-3,293	30,330	-26,108	-30,860	37,306	-587,454		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	41000107	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	1,092,795	1,613	5,919	9,540	289	5,488	-464	930	5,382	7,279	-12,866	4,115	13,990	1,134,009	
120-Overtime-General	60,574	78	287	463	14	266	-23	45	261	354	-625	200	679	62,575	
350-Material Issues-Major	1,941,537	1,980	7,264	11,708	355	6,735	-570	1,141	6,605	8,934	-15,790	5,050	17,170	1,992,121	
370-Outside Services	1,514,477	3,797	13,929	22,451	681	12,914	-1,093	2,188	12,665	17,131	-30,278	9,684	32,924	1,611,470	
374-Outside Svcs Legal	901	21	79	127	4	73	-6	12	71	97	-171	55	186	1,448	
377-Outside Services-Temp Labor	147,211	0	0	0	0	0	0	0	0	0	0	0	0	147,211	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	762	0	0	0	0	0	0	0	0	0	0	0	0	762	
610-Expenses - General	143,679	3,627	110	2,086	-177	353	2,046	2,768	-4,891	1,565	5,319	1,560	3,063	161,108	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	-6,385,411	-8,475	-31,087	-50,106	-1,520	-28,823	2,439	-4,883	-28,266	-38,234	67,575	-21,614	-73,481	-6,601,885	
829-Construction Adjustment	9,261	0	0	0	0	0	0	0	0	0	0	0	0	9,261	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	95,502	133	487	784	24	451	-38	76	442	598	-1,058	338	1,150	98,890	
914-Pension and Benefits Load	365,147	462	1,694	2,730	83	1,570	-133	266	1,540	2,083	-3,682	1,178	4,003	376,940	
915-Injuries and Damages Load	94,255	105	386	622	19	358	-30	61	351	475	-839	268	912	96,943	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	176,900	343	1,257	2,026	61	1,165	-99	197	1,143	1,546	-2,732	874	2,970	185,651	
922-Minor Material Load	111,847	0	0	0	0	0	0	0	0	0	0	0	0	111,847	
925-E and S Loads	948,710	2,269	5,790	9,698	248	5,416	-60	1,437	4,306	7,395	-11,518	4,310	14,223	992,225	
926-A and G Loads	346,568	747	1,854	3,116	78	1,736	-7	476	1,350	2,376	-3,656	1,389	4,570	360,597	
928-AFUDC Debt Reg	3	0	0	0	0	0	0	0	0	0	0	0	0	3	
929-AFUDC - Equity Regular	3	0	0	0	0	0	0	0	0	0	0	0	0	3	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	664,720	6,701	7,967	15,245	161	7,703	1,962	4,714	959	11,598	-10,319	7,407	22,361	741,179	
825-Clearings	-1,252,174	-7,897	-11,260	-28,551	-7,388	-6,569	-4,608	-6,690	-4,870	-3,197	-3,416	-21,405	-16,590	-1,374,618	
Clr Sum	-1,252,174	-7,897	-11,260	-28,551	-7,388	-6,569	-4,608	-6,690	-4,870	-3,197	-3,416	-21,405	-16,590	-1,374,618	
Proj Net	-587,454	-1,196	-3,293	-13,307	-7,228	1,134	-2,646	-1,976	-3,912	8,400	-13,735	-13,998	5,771	-633,439	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	41000107	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	1,134,009	2,438	8,945	14,418	437	8,294	-702	1,405	8,133	11,001	-19,444	6,219	21,144	1,196,298
120-Overtime-General	62,575	118	434	700	21	403	-34	68	395	534	-944	302	1,027	65,600
350-Material Issues-Major	1,992,121	2,978	10,924	17,608	534	10,129	-857	1,716	9,933	13,436	-23,747	7,595	25,823	2,068,193
370-Outside Services	1,611,470	5,711	20,948	33,764	1,024	19,422	-1,643	3,290	19,047	25,763	-45,535	14,564	49,515	1,757,339
374-Outside Svcs Legal	1,448	32	118	190	6	110	-9	19	107	145	-257	82	279	2,270
377-Outside Services-Temp Labor	147,211	0	0	0	0	0	0	0	0	0	0	0	0	147,211
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	762	0	0	0	0	0	0	0	0	0	0	0	0	762
610-Expenses - General	161,108	923	3,384	5,455	165	3,138	-265	532	3,077	4,162	-7,356	2,353	7,999	184,673
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-6,601,885	-12,745	-46,752	-75,356	-2,286	-43,347	3,668	-7,343	-42,510	-57,500	101,627	-32,505	-110,510	-6,927,443
829-Construction Adjustment	9,261	0	0	0	0	0	0	0	0	0	0	0	0	9,261
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	98,890	200	735	1,185	36	682	-58	115	669	904	-1,598	511	1,738	104,010
914-Pension and Benefits Load	376,940	698	2,560	4,126	125	2,373	-201	402	2,327	3,148	-5,564	1,780	6,050	394,764
915-Injuries and Damages Load	96,943	159	583	940	29	541	-46	92	530	718	-1,268	406	1,379	101,005
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	185,651	515	1,890	3,046	92	1,752	-148	297	1,718	2,324	-4,108	1,314	4,467	198,812
922-Minor Material Load	111,847	0	0	0	0	0	0	0	0	0	0	0	0	111,847
925-E and S Loads	992,225	2,545	9,337	15,050	457	8,657	-733	1,467	8,490	11,484	-20,297	6,492	22,071	1,057,246
926-A and G Loads	360,597	820	3,007	4,847	147	2,788	-236	472	2,735	3,699	-6,537	2,091	7,109	381,539
928-AFUDC Debt Reg	3	0	0	0	0	0	0	0	0	0	0	0	0	3
929-AFUDC - Equity Regular	3	0	0	0	0	0	0	0	0	0	0	0	0	3
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	741,179	4,393	16,115	25,974	788	14,941	-1,264	2,531	14,653	19,820	-35,030	11,204	38,091	853,395
825-Clearings	-1,374,618	-3,188	-6,338	-21,909	-5,756	-6,149	-4,041	-5,662	-5,564	-4,046	-2,443	-18,187	-21,151	-1,479,052
Clr Sum	-1,374,618	-3,188	-6,338	-21,909	-5,756	-6,149	-4,041	-5,662	-5,564	-4,046	-2,443	-18,187	-21,151	-1,479,052
Proj Net	-633,439	1,205	9,777	4,065	-4,968	8,792	-5,305	-3,131	9,089	15,774	-37,473	-6,983	16,940	-625,658

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Project No: 41002215 Mejia 14 to Santa Fe Estates Line Extension

Company: 001-Electric Services
Location: 410 Distribution

Project Information

Construction Start Date 1/1/2018 Estimated Completion Date 6/30/2018

List Interim In-Service Dates
N/A

Project Need Justification

The projected load during normal system hours will exceed acceptable operating limits on the existing distribution substation and its feeders. This project will install the equipment and systems necessary to upgrade the operating limits for the subject equipment.

Project Alternatives

There are no alternatives. If redundant loops are not created, the outages on the radial systems would continue until the existing cable could be repaired.

Technical Aspects

The project consists of constructing approximately 6,500ft of 397AAC overhead conductor from Mejia Feeder 14 north to Highway 599 then north to the Fort Marcy Feeder 14. A new PMH-10 will be installed tying into Fort Mary Feeder 14 as well. This design will support a 570-amp rating.

Project Estimate Approach
N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	41002215	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	41002215	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	41002215	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	9,637	964	964	964	17,829	17,829	0	0	0	0	0	0	48,187
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	58,959	7,370	7,370	0	0	0	0	0	0	0	73,699
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	756	76	76	76	1,398	1,398	0	0	0	0	0	0	3,778
914-Pension and Benefits Load	0	2,630	263	263	263	4,866	4,866	0	0	0	0	0	0	13,150
915-Injuries and Damages Load	0	599	60	60	60	1,109	1,109	0	0	0	0	0	0	2,997
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	10,200	1,275	1,275	0	0	0	0	0	0	0	12,750
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	2,615	262	11,582	1,677	6,254	4,839	0	0	0	0	0	0	27,228
926-A and G Loads	0	648	65	4,027	560	1,693	1,198	0	0	0	0	0	0	8,191
928-AFUDC Debt Reg	0	22	46	161	291	363	460	0	0	0	0	0	0	1,343
929-AFUDC - Equity Regular	0	20	42	145	262	327	414	0	0	0	0	0	0	1,210
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	16,927	1,777	86,437	12,797	42,483	32,112	0	0	0	0	0	0	192,533
825-Clearings	0	0	0	0	0	0	-192,533	0	0	0	0	0	0	-192,533
Clr Sum	0	0	0	0	0	0	-192,533	0	0	0	0	0	0	-192,533
Proj Net	0	16,927	1,777	86,437	12,797	42,483	-160,420	0	0	0	0	0	0	0

Project No: 41034007 Tools & Equipment

Company: 001-Electric Services
Location: 410 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Clearings are expected to be completed quarterly.

Project Need Justification

This project funds the purchase of tools and equipment to replace defective and broken equipment and is necessary to ensure Line Staff is able to perform work safely and effectively.

Project Alternatives

No alternatives exist for this project. Not purchasing the equipment, will directly affect the ability of PNM employees conducting distribution work, potentially increasing costs as time and effort required to perform work will increase. Specific alternatives as to the type of tools and equipment purchased will be evaluated at the time of replacement.

Technical Aspects

The tools and equipment to be purchased include but are not limited to, magnetic drill press, hydraulic paving breaker, streamline robo crimp, phasing sets, cable cutters, recording devices for power/voltage monitoring and surveying equipment for engineering of power line construction.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	41034007	Year	2016									
Cost Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	2,120			0	0	0	0	0	0	2,120		
120-Overtime-General	136			0	0	0	0	0	0	136		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	38,905			0	0	0	0	0	0	38,905		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	9,585			0	0	0	0	0	0	9,585		
610-Expenses - General	0			0	0	11,034	11,034	0	0	22,068		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-80	-78	-80	-237		
426-Capitalized Interest	1,146			25	25	30	80	102	105	1,514		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	188			0	0	0	0	0	0	188		
914-Pension and Benefits Load	772			0	0	0	0	0	0	772		
915-Injuries and Damages Load	172			0	0	0	0	0	0	172		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	2,860			0	0	0	0	0	0	2,860		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	2,124			0	0	0	0	0	0	2,124		
926-A and G Loads	23,418			0	0	918	918	0	0	25,254		
928-AFUDC Debt Reg	4,740			0	0	0	0	0	0	4,740		
929-AFUDC - Equity Regular	904			0	0	0	0	0	0	904		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	87,071			25	25	11,982	11,952	25	25	111,106		
825-Clearings	-378,050			0	-4,539	0	0	0	-25,118	-407,707		
Clr Sum	-378,050			0	-4,539	0	0	0	-25,118	-407,707		
Proj Net	-290,978			25	-4,514	11,982	11,952	25	-25,093	-296,601		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	41034007	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	2,120	0	0	0	0	0	0	0	0	0	0	0	0	2,120	
120-Overtime-General	136	0	0	0	0	0	0	0	0	0	0	0	0	136	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	38,905	0	0	0	0	0	0	0	0	0	0	0	0	38,905	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	9,585	0	0	0	0	0	0	0	0	0	0	0	0	9,585	
610-Expenses - General	22,068	0	0	11,221	0	36,700	11,221	0	0	11,221	11,221	0	0	103,652	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	-237	0	0	0	0	0	0	0	0	0	0	0	0	-237	
426-Capitalized Interest	1,514	0	0	26	50	94	59	87	18	42	95	24	5	2,013	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	188	0	0	0	0	0	0	0	0	0	0	0	0	188	
914-Pension and Benefits Load	772	0	0	0	0	0	0	0	0	0	0	0	0	772	
915-Injuries and Damages Load	172	0	0	0	0	0	0	0	0	0	0	0	0	172	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	2,860	0	0	0	0	0	0	0	0	0	0	0	0	2,860	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	2,124	0	0	0	0	0	0	0	0	0	0	0	0	2,124	
926-A and G Loads	25,254	0	0	754	0	2,466	754	0	0	754	754	0	0	30,736	
928-AFUDC Debt Reg	4,740	0	0	0	0	0	0	0	0	0	0	0	0	4,740	
929-AFUDC - Equity Regular	904	0	0	0	0	0	0	0	0	0	0	0	0	904	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	111,106	0	0	12,001	50	39,261	12,034	87	18	12,017	12,070	24	5	198,671	
825-Clearings	-407,707	0	0	0	-9,640	-33,337	0	-16,364	0	0	-22,557	-4,530	-1,137	-495,272	
Clr Sum	-407,707	0	0	0	-9,640	-33,337	0	-16,364	0	0	-22,557	-4,530	-1,137	-495,272	
Proj Net	-296,601	0	0	12,001	-9,591	5,924	12,034	-16,277	18	12,017	-10,486	-4,507	-1,133	-296,601	

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	41034007	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	2,120	0	0	0	0	0	0	0	0	0	0	0	0	2,120	
120-Overtime-General	136	0	0	0	0	0	0	0	0	0	0	0	0	136	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	38,905	0	0	0	0	0	0	0	0	0	0	0	0	38,905	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	9,585	0	0	0	0	0	0	0	0	0	0	0	0	9,585	
610-Expenses - General	103,652	0	0	11,372	0	0	11,372	0	0	11,371	11,371	0	0	149,138	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	-237	0	0	0	0	0	0	0	0	0	0	0	0	-237	
426-Capitalized Interest	2,013	0	0	26	51	10	31	55	11	31	76	19	4	2,327	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	188	0	0	0	0	0	0	0	0	0	0	0	0	188	
914-Pension and Benefits Load	772	0	0	0	0	0	0	0	0	0	0	0	0	772	
915-Injuries and Damages Load	172	0	0	0	0	0	0	0	0	0	0	0	0	172	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	2,860	0	0	0	0	0	0	0	0	0	0	0	0	2,860	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	2,124	0	0	0	0	0	0	0	0	0	0	0	0	2,124	
926-A and G Loads	30,736	0	0	764	0	0	764	0	0	764	764	0	0	33,793	
928-AFUDC Debt Reg	4,740	0	0	0	0	0	0	0	0	0	0	0	0	4,740	
929-AFUDC - Equity Regular	904	0	0	0	0	0	0	0	0	0	0	0	0	904	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	198,671	0	0	12,163	51	10	12,167	55	11	12,166	12,211	19	4	247,527	
825-Clearings	-495,272	0	0	0	-9,771	0	0	-11,740	0	0	-21,858	-4,387	-1,101	-544,129	
Clr Sum	-495,272	0	0	0	-9,771	0	0	-11,740	0	0	-21,858	-4,387	-1,101	-544,129	
Proj Net	-296,601	0	0	12,163	-9,720	10	12,167	-11,685	11	12,166	-9,647	-4,368	-1,097	-296,601	

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Project No: 50000207 Line Extension - Commercial

Company: 001-Electric Services
Location: 500 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

This project consists of many individual work orders which are placed in service at various times throughout the year.

Project Need Justification

This project is necessary to meet PNM’s obligation to serve new customers and provides for the installation of distribution line extensions necessary to serve new or expanding non-residential customers.

Project Alternatives

Because this project is necessary for PNM to serve new customers, there are no alternatives to conducting this work. Nonetheless, line extension options for each new service request are evaluated individually taking into account many factors such as available capacity on existing lines, route distances, customer preferences, and right-of way requirements, per PNM Rule 15. The best method for the extension is selected based on a balance of cost, timing, and efficacy.

Technical Aspects

Line extensions are designed to the minimum system requirements in accordance with PNM Rule 15. Physical components include but are not limited to primary wires, secondary wires, wood or steel poles and other supporting structures, trenches, switchgear, and duct-bank systems.

Project Estimate Approach

Historical spend in this funding project was analyzed to develop this project’s estimated spend. This blanket’s project spend forecast is prepared by escalating the most recent 12-month actual spend (July 2015-June 2016) by the second quarter reforecast (Q2RF) of expected customer growth provided by PNM Strategic Marketing & Product Management expressed as the percentage change in number of new customers year-over-year. The typical breakdown of total cost by high level cost categories is as follows: outside services including contract labor 41%, material 39%, PNM labor 15%, and PNM transportation & equipment 4%. This breakdown typically fluctuates for each project depending on the specifics and complexity of the project and whether or customers elect the PNM Built or Customer Built Option. Under the Customer Built Option, PNM purchases the system from the customer for \$1 and pays the customer for the entitled credits less PNM’s cost to design and energize the system. Many residential subdivision projects are built under the Customer Built Option, where customers are responsible for line extension costs less allowed credits under PNM's Rule 15. This project provides for PNM’s portion of the cost of these line extensions.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	50000207	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	454,755		5,408	10,408	5,408	5,408	5,408	5,408	492,201		
	120-Overtime-General	13,658		154	154	154	154	154	154	14,579		
	350-Material Issues-Major	764,250		9,383	9,383	9,383	9,383	9,383	9,383	820,549		
	370-Outside Services	565,953		9,245	9,245	9,245	9,245	9,245	9,245	621,426		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	38,034		0	0	0	0	0	0	38,034		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	409		0	0	0	0	0	0	409		
	610-Expenses - General	12,720		710	710	710	710	710	710	16,978		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	-1,895,426		-33,836	-18,495	-10,571	-17,649	-15,137	-56,982	-2,048,096		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	39,240		438	831	438	438	438	438	42,259		
	914-Pension and Benefits Load	146,901		1,665	3,162	1,665	1,665	1,665	1,665	158,388		
	915-Injuries and Damages Load	39,812		363	689	363	363	363	363	42,313		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	70,327		1,043	1,043	1,043	1,043	1,043	1,043	76,588		
	922-Minor Material Load	42,390		0	0	0	0	0	0	42,390		
	925-E and S Loads	361,308		5,062	6,398	5,062	5,062	5,062	5,062	393,018		
	926-A and G Loads	125,741		2,072	2,488	2,072	2,072	2,072	2,072	138,587		
	928-AFUDC Debt Reg	0		0	0	0	0	0	0	0		
	929-AFUDC - Equity Regular	0		0	0	0	0	0	0	0		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	780,072		1,706	26,014	24,971	17,893	20,405	-21,440	849,621		
	825-Clearings	-1,005,162		-1,942	-8,201	-12,561	-13,947	-15,626	-5,989	-1,063,428		
	Clr Sum	-1,005,162		-1,942	-8,201	-12,561	-13,947	-15,626	-5,989	-1,063,428		
	Proj Net	-225,090		-236	17,813	12,410	3,946	4,779	-27,429	-213,807		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	50000207	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	492,201	4,263	5,001	3,290	3,062	21,099	-6,859	5,063	5,261	3,351	14,282	3,575	-5,730	547,859
120-Overtime-General	14,579	268	315	207	193	1,329	-432	319	331	211	899	225	-361	18,083
350-Material Issues-Major	820,549	7,381	8,660	5,697	5,302	36,536	-11,877	8,767	9,110	5,803	24,732	6,190	-9,922	916,928
370-Outside Services	621,426	10,682	12,532	8,245	7,673	52,876	-17,189	12,688	13,184	8,398	35,792	8,959	-14,359	760,907
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	38,034	0	0	23	0	0	0	0	0	0	0	0	0	38,056
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	409	0	0	0	0	0	0	0	0	0	0	0	0	409
610-Expenses - General	16,978	925	1,086	714	665	4,581	-1,489	1,099	1,142	728	3,101	776	-1,244	29,062
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-2,048,096	-18,370	-21,552	-14,179	-13,195	-90,929	29,560	-21,820	-22,672	-14,441	-61,550	-15,406	24,693	-2,287,957
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	42,259	355	417	274	255	1,758	-572	422	438	279	1,190	298	-478	46,898
914-Pension and Benefits Load	158,388	1,237	1,451	954	888	6,121	-1,990	1,469	1,526	972	4,143	1,037	-1,662	174,533
915-Injuries and Damages Load	42,313	282	331	218	202	1,395	-454	335	348	222	944	236	-379	45,993
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	76,588	1,277	1,498	986	917	6,321	-2,055	1,517	1,576	1,004	4,279	1,071	-1,717	93,261
922-Minor Material Load	42,390	0	0	0	0	0	0	0	0	0	0	0	0	42,390
925-E and S Loads	393,018	4,875	5,720	3,767	3,502	24,133	-7,845	5,791	6,017	3,833	16,336	4,089	-6,554	456,684
926-A and G Loads	138,587	1,580	1,854	1,221	1,135	7,823	-2,543	1,877	1,951	1,243	5,296	1,326	-2,125	159,226
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	849,621	14,755	17,313	11,417	10,601	73,044	-23,744	17,526	18,212	11,602	49,444	12,376	-19,837	1,042,331
825-Clearings	-1,063,428	-8,904	-11,259	-11,303	-11,106	-28,449	-13,835	-14,868	-15,805	-14,628	-24,376	-21,016	-9,577	-1,248,556
Clr Sum	-1,063,428	-8,904	-11,259	-11,303	-11,106	-28,449	-13,835	-14,868	-15,805	-14,628	-24,376	-21,016	-9,577	-1,248,556
Proj Net	-213,807	5,851	6,054	114	-506	44,595	-37,579	2,658	2,408	-3,026	25,067	-8,641	-29,414	-206,225

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	50000207	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	547,859	2,981	3,497	2,301	2,141	14,754	-4,796	3,540	3,679	2,343	9,987	2,500	-4,007	586,779
120-Overtime-General	18,083	188	220	145	135	929	-302	223	232	148	629	157	-252	20,535
350-Material Issues-Major	916,928	5,136	6,026	3,965	3,689	25,424	-8,265	6,101	6,339	4,038	17,210	4,308	-6,904	983,995
370-Outside Services	760,907	7,433	8,721	5,738	5,339	36,794	-11,961	8,829	9,174	5,844	24,906	6,234	-9,992	857,966
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	38,056	0	0	23	0	0	0	0	0	0	0	0	0	38,079
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	409	0	0	0	0	0	0	0	0	0	0	0	0	409
610-Expenses - General	29,062	644	756	497	463	3,188	-1,036	765	795	506	2,158	540	-866	37,472
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-2,287,957	-12,783	-14,997	-9,867	-9,182	-63,273	20,569	-15,183	-15,776	-10,049	-42,830	-10,720	17,182	-2,454,866
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	46,898	248	291	192	178	1,230	-400	295	307	195	832	208	-334	50,141
914-Pension and Benefits Load	174,533	865	1,014	668	621	4,280	-1,391	1,027	1,067	680	2,897	725	-1,162	185,824
915-Injuries and Damages Load	45,993	197	231	152	142	975	-317	234	243	155	660	165	-265	48,567
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	93,261	889	1,042	686	638	4,398	-1,430	1,055	1,097	699	2,977	745	-1,194	104,864
922-Minor Material Load	42,390	0	0	0	0	0	0	0	0	0	0	0	0	42,390
925-E and S Loads	456,684	3,397	3,985	2,627	2,440	16,814	-5,466	4,035	4,193	2,671	11,382	2,849	-4,566	501,043
926-A and G Loads	159,226	1,101	1,292	851	791	5,449	-1,771	1,308	1,359	865	3,689	923	-1,480	173,602
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	1,042,331	10,296	12,079	7,978	7,395	50,963	-16,566	12,229	12,708	8,095	34,497	8,635	-13,840	1,176,798
825-Clearings	-1,248,556	-9,779	-10,423	-9,738	-9,082	-20,809	-10,344	-10,872	-11,386	-10,464	-17,194	-14,797	-6,779	-1,390,221
Clr Sum	-1,248,556	-9,779	-10,423	-9,738	-9,082	-20,809	-10,344	-10,872	-11,386	-10,464	-17,194	-14,797	-6,779	-1,390,221
Proj Net	-206,225	517	1,657	-1,761	-1,687	30,154	-26,910	1,357	1,322	-2,370	17,304	-6,162	-20,619	-213,422

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Project No: 60002110 Misc 46kv Line \$286,733 \$4,287 \$286,733

Company: 001-Electric Services

Location: 600 Distribution

Project Information

Construction Start Date 1/1/2014

Estimated Completion Date

List Interim In-Service Dates

Individual work orders are placed in service as completed, with an estimated 4 clearing per year.

Project Need Justification

This project is for annual minor capital improvements and replacements associated with 46kv lines, such as replacement of structures to improve clearances or poles which have reached the end of their useful service life.

Project Alternatives

These minor improvements or replacements are required to maintain continued safe and reliable operation of 46kv lines. There typically are no alternatives to performing the work. Each task is evaluated individually. Life extension (such as ground line reinforcement) verses replacement is evaluated based on the possible impact on reliability and long-term maintenance costs.

Technical Aspects

Technical aspects are considered on a task by task basis, but might include improved lightning performance from enhanced grounding, or improved clearances provided by the installation of taller poles. Replacement of aged wood cross arms and pin type insulators with polymer post insulators may be done to improve reliability and reduce maintenance costs.

Project Estimate Approach

The budget is developed from historical spend with trending based on input from line inspection reports (such as pole ground line testing or wood cross arm inspections). Cost estimates are prepared on a per task basis. Estimates typically include major equipment prices from master agreements, and minor material and construction costs from previous similar work or competitive bids. Overall spend is tracked quarterly and adjusted to reflect timing of specific tasks.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	60002110	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	106,116		1,250	1,250	1,250	1,000	500	500	111,866		
	120-Overtime-General	39,044		0	0	0	0	0	0	39,044		
	350-Material Issues-Major	128,434		0	1,000	1,000	2,000	1,000	0	133,434		
	370-Outside Services	127,231		1,000	1,000	1,000	1,000	1,000	1,000	133,231		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	317		0	0	0	0	0	0	317		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	-27,783		0	0	0	0	0	0	-27,783		
	829-Construction Adjustment	0		0	0	0	-136	-136	-136	-408		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	11,366		98	98	98	79	39	39	11,818		
	914-Pension and Benefits Load	42,016		374	374	374	299	150	150	43,737		
	915-Injuries and Damages Load	12,485		82	82	82	65	33	33	12,860		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	12,753		0	111	111	222	111	0	13,309		
	922-Minor Material Load	5,946		0	0	0	0	0	0	5,946		
	925-E and S Loads	85,068		519	704	704	822	504	319	88,638		
	926-A and G Loads	34,468		187	270	270	333	208	125	35,862		
	928-AFUDC Debt Reg	10,187		141	42	53	65	76	82	10,646		
	929-AFUDC - Equity Regular	9,396		153	45	58	71	82	89	9,894		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	597,043		3,804	4,977	5,000	5,821	3,566	2,200	622,412		
	825-Clearings	-691,885		-48,489	0	0	0	0	-28,295	-768,669		
	Clr Sum	-691,885		-48,489	0	0	0	0	-28,295	-768,669		
	Proj Net	-94,842		-44,685	4,977	5,000	5,821	3,566	-26,095	-146,258		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	60002110	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	111,866	2,000	3,000	2,000	3,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	137,866
120-Overtime-General	39,044	0	0	0	0	0	0	0	0	0	0	0	0	39,044
350-Material Issues-Major	133,434	0	1,000	1,000	0	2,000	2,000	0	2,000	2,000	2,000	2,000	0	147,434
370-Outside Services	133,231	3,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	158,231
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	317	0	0	0	0	0	0	0	0	0	0	0	0	317
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-27,783	0	0	0	0	0	0	0	0	0	0	0	0	-27,783
829-Construction Adjustment	-408	-79	-79	0	0	0	0	0	0	0	0	0	0	-567
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	11,818	157	235	157	235	157	157	157	157	157	157	157	157	13,857
914-Pension and Benefits Load	43,737	546	819	546	819	546	546	546	546	546	546	546	546	50,833
915-Injuries and Damages Load	12,860	124	187	124	187	124	124	124	124	124	124	124	124	14,477
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	13,309	0	173	173	0	346	346	0	346	346	346	346	0	15,731
922-Minor Material Load	5,946	0	0	0	0	0	0	0	0	0	0	0	0	5,946
925-E and S Loads	88,638	1,119	1,390	1,119	1,198	1,311	1,311	927	1,311	1,311	1,311	1,311	927	103,183
926-A and G Loads	35,862	336	403	336	336	403	403	269	403	403	403	403	269	40,230
928-AFUDC Debt Reg	10,646	34	55	77	98	120	144	86	106	130	154	178	198	12,027
929-AFUDC - Equity Regular	9,894	45	73	102	128	157	189	113	139	170	202	233	260	11,704
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	622,412	7,281	9,256	7,634	8,001	9,164	9,220	6,221	9,132	9,187	9,242	9,298	6,481	722,529
825-Clearings	-768,669	0	0	0	0	0	-29,993	0	0	0	0	0	-59,667	-858,329
Clr Sum	-768,669	0	0	0	0	0	-29,993	0	0	0	0	0	-59,667	-858,329
Proj Net	-146,258	7,281	9,256	7,634	8,001	9,164	-20,774	6,221	9,132	9,187	9,242	9,298	-53,186	-135,801

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	60002110	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	137,866	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	155,866
120-Overtime-General	39,044	0	0	0	0	0	0	0	0	0	0	0	0	39,044
350-Material Issues-Major	147,434	0	500	2,000	0	2,000	2,000	0	2,000	2,000	2,000	2,000	0	161,934
370-Outside Services	158,231	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	194,231
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	317	0	0	0	0	0	0	0	0	0	0	0	0	317
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	-27,783	0	0	0	0	0	0	0	0	0	0	0	0	-27,783
829-Construction Adjustment	-567	0	0	0	0	0	0	0	0	0	0	0	0	-567
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	13,857	118	118	118	118	118	118	118	118	118	118	118	118	15,268
914-Pension and Benefits Load	50,833	409	409	409	409	409	409	409	409	409	409	409	409	55,745
915-Injuries and Damages Load	14,477	93	93	93	93	93	93	93	93	93	93	93	93	15,597
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	15,731	0	87	346	0	346	346	0	346	346	346	346	0	18,240
922-Minor Material Load	5,946	0	0	0	0	0	0	0	0	0	0	0	0	5,946
925-E and S Loads	103,183	983	1,079	1,367	983	1,367	1,367	983	1,367	1,367	1,367	1,367	983	117,764
926-A and G Loads	40,230	302	336	437	302	437	437	302	437	437	437	437	302	44,833
928-AFUDC Debt Reg	12,027	60	78	100	121	142	167	98	119	144	169	194	60	13,480
929-AFUDC - Equity Regular	11,704	54	71	90	109	128	151	89	108	130	152	175	54	13,014
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	722,529	6,520	7,271	9,460	6,636	9,540	9,588	6,593	9,497	9,544	9,592	9,639	6,520	822,929
825-Clearings	-858,329	0	0	0	0	0	-34,452	0	0	0	0	-59,487	-26,349	-978,618
Clr Sum	-858,329	0	0	0	0	0	-34,452	0	0	0	0	-59,487	-26,349	-978,618
Proj Net	-135,801	6,520	7,271	9,460	6,636	9,540	-24,864	6,593	9,497	9,544	9,592	-49,848	-19,829	-155,690

Project No: 60002216 Outage Contingency Application

Company: 001-Electric Services
Location: 600 Distribution

Project Information

Construction Start Date 1/2/2017 Estimated Completion Date 12/31/2017

List Interim In-Service Dates

Project dollars are in 2016 dollars.

Project Need Justification

This project is meant to upgrade the current Outage Contingency Application to be able to accurately calculate, determine and store PNM's single contingency plans for unplanned distribution substation outages. This application helps to identify overloads on feeders and substations during outages. It is necessary to rebuild this application to address issues in the current code, as well as to provide new functionality to accommodate for solar generation.

Project Alternatives

There are no other alternatives for this project, upgrades are necessary to maintain adequate functionality.

Technical Aspects

In general, work will include: - Add Solar to the application's processes- Rebuild back-end code in SQL database- Rebuild front end code in ".NET," and - Initiate a technical evaluation of multiple connections to other PNM systems.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	60002216	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	60002216	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	84,000
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	549	549	549	549	549	549	549	549	549	549	549	549	6,586
914-Pension and Benefits Load	0	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	22,924
915-Injuries and Damages Load	0	435	435	435	435	435	435	435	435	435	435	435	435	5,225
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	22,797
926-A and G Loads	0	470	470	470	470	470	470	470	470	470	470	470	470	5,645
928-AFUDC Debt Reg	0	16	48	80	113	145	178	211	245	278	312	345	380	2,351
929-AFUDC - Equity Regular	0	21	63	105	148	191	234	277	321	365	409	453	498	3,084
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	12,302	12,376	12,450	12,525	12,601	12,677	12,753	12,830	12,907	12,985	13,063	13,142	152,611
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	-152,611	-152,611
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	-152,611	-152,611
Proj Net	0	12,302	12,376	12,450	12,525	12,601	12,677	12,753	12,830	12,907	12,985	13,063	-139,469	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	60002216	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	84,000	0	0	0	0	0	0	0	0	0	0	0	0	84,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	6,586	0	0	0	0	0	0	0	0	0	0	0	0	6,586
	914-Pension and Benefits Load	22,924	0	0	0	0	0	0	0	0	0	0	0	0	22,924
	915-Injuries and Damages Load	5,225	0	0	0	0	0	0	0	0	0	0	0	0	5,225
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	22,797	0	0	0	0	0	0	0	0	0	0	0	0	22,797
	926-A and G Loads	5,645	0	0	0	0	0	0	0	0	0	0	0	0	5,645
	928-AFUDC Debt Reg	2,351	0	0	0	0	0	0	0	0	0	0	0	0	2,351
	929-AFUDC - Equity Regular	3,084	0	0	0	0	0	0	0	0	0	0	0	0	3,084
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	152,611	0	0	0	0	0	0	0	0	0	0	0	0	152,611
	825-Clearings	-152,611	0	0	0	0	0	0	0	0	0	0	0	0	-152,611
	Clr Sum	-152,611	0	0	0	0	0	0	0	0	0	0	0	0	-152,611
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 89900107 Line Extension - Residential

Company: 001-Electric Services
Location: 899 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual customer work orders which are placed in service at various times throughout the year.

Project Need Justification

This project is necessary to meet PNM’s obligation to serve new customers and provides for the installation of electric line extensions for new residential customers, apartment complexes, and residential subdivisions.

Project Alternatives

Because this project is necessary for PNM to serve new customers, there are no alternatives to conducting this work. Nonetheless, line extension options for each new service request are evaluated individually taking into account many factors such as available capacity on existing lines, route distances, customer preferences, and right-of way requirements, per PNM Rule 15. The best method for the extension is selected based on a balance of cost, timing, and efficacy.

Technical Aspects

Line extensions are designed to the minimum system requirements in accordance with PNM Rule 15. Physical components include but are not limited to primary wires, secondary wires, wood or steel poles and other supporting structures, trenches, switchgear, and conduit systems.

Project Estimate Approach

Historical spend in this funding project was analyzed to develop this project’s estimated spend. This blanket’s project spend forecast is prepared by escalating the most recent 12-month actual spend (July 2015-June 2016) by the second quarter reforecast (Q2RF) of expected customer growth provided by PNM Strategic Marketing & Product Management expressed as the percentage change in number of new customers year-over-year. The typical breakdown of total cost by high level cost categories is as follows: customer built purchases 16%, contract labor 43%, material 19%, PNM labor 18%, and PNM transportation & equipment 3%. This breakdown typically fluctuates for each project depending on the specifics and complexity of the project and whether or customers elect the PNM Built or Customer Built Option. Under the Customer Built Option, PNM purchases the system from the customer for \$1 and pays the customer for the entitled credits less PNM’s cost to design and energize the system. Many residential subdivision projects are built under the Customer Built Option, where customers are responsible for line extension costs less allowed credits under PNM's Rule 15. This project provides for PNM’s portion of the cost of these line extensions.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	89900107	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	695,899		3,289	4,386	1,595	4,024	1,776	1,723	712,690		
	120-Overtime-General	7,861		0	749	65	398	0	198	9,272		
	350-Material Issues-Major	1,970,254		2,182	3,321	1,187	460	1,668	1,454	1,980,526		
	370-Outside Services	2,057,359		6,274	27,582	18,801	7,108	6,954	4,890	2,128,967		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	52,288		0	0	0	0	0	0	52,288		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	371		0	0	0	0	0	0	371		
	610-Expenses - General	191,098		9,192	297	13,251	1,535	163	12,220	227,756		
	805-Land and Land Rights	3,600		0	0	0	0	0	0	3,600		
	807-Non Refundable Contribution	-5,287,241		-5,171	-7,504	-7,005	-14,690	-29,245	-12,125	-5,362,982		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	58,746		259	404	131	348	140	151	60,178		
	914-Pension and Benefits Load	228,220		985	1,537	497	1,324	532	575	233,670		
	915-Injuries and Damages Load	55,897		214	335	108	288	116	125	57,084		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	168,149		243	369	132	51	186	162	169,292		
	922-Minor Material Load	99,771		0	0	0	0	0	0	99,771		
	925-E and S Loads	891,505		4,143	7,143	6,592	2,865	2,099	3,947	918,294		
	926-A and G Loads	312,567		1,742	3,023	2,904	1,125	879	1,704	323,944		
	928-AFUDC Debt Reg	0		0	0	0	0	0	0	0		
	929-AFUDC - Equity Regular	0		0	0	0	0	0	0	0		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	1,506,345		23,351	41,642	38,258	4,835	-14,733	15,024	1,614,722		
	825-Clearings	-2,207,659		-7,654	-14,111	-18,699	-16,065	-10,213	-11,127	-2,285,529		
	Clr Sum	-2,207,659		-7,654	-14,111	-18,699	-16,065	-10,213	-11,127	-2,285,529		
	Proj Net	-701,313		15,697	27,530	19,558	-11,230	-24,947	3,897	-670,807		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	89900107	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	712,690	9,243	2,747	114	2,737	1,629	2,800	2,710	3,260	4,530	-960	-912	1,467	742,055
	120-Overtime-General	9,272	95	28	1	28	17	29	28	34	47	-10	-9	15	9,575
	350-Material Issues-Major	1,980,526	8,354	2,482	103	2,473	1,472	2,530	2,449	2,946	4,094	-867	-824	1,326	2,007,064
	370-Outside Services	2,128,967	31,006	9,214	382	9,180	5,464	9,391	9,090	10,936	15,197	-3,219	-3,059	4,920	2,227,469
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	52,288	0	0	0	0	0	0	0	0	0	0	0	0	52,288
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	371	0	0	0	0	0	0	0	0	0	0	0	0	371
	610-Expenses - General	227,756	2,013	598	25	596	355	610	590	710	987	-209	-199	319	234,151
	805-Land and Land Rights	3,600	0	0	0	0	0	0	0	0	0	0	0	0	3,600
	807-Non Refundable Contribution	-5,362,982	-40,608	-12,067	-500	-12,022	-7,155	-12,299	-11,905	-14,323	-19,903	4,215	4,006	-6,444	-5,491,987
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	60,178	732	218	9	217	129	222	215	258	359	-76	-72	116	62,504
	914-Pension and Benefits Load	233,670	2,548	757	31	755	449	772	747	899	1,249	-265	-251	404	241,766
	915-Injuries and Damages Load	57,084	581	173	7	172	102	176	170	205	285	-60	-57	92	58,929
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	169,292	1,445	429	18	428	255	438	424	510	708	-150	-143	229	173,883
	922-Minor Material Load	99,771	0	0	0	0	0	0	0	0	0	0	0	0	99,771
	925-E and S Loads	918,294	10,478	3,114	129	3,102	1,847	3,174	3,072	3,696	5,136	-1,088	-1,034	1,663	951,582
	926-A and G Loads	323,944	3,408	1,013	42	1,009	601	1,032	999	1,202	1,670	-354	-336	541	334,770
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	1,614,722	29,295	8,705	362	8,674	5,164	8,874	8,589	10,332	14,359	-3,043	-2,890	4,649	1,707,792
	825-Clearings	-2,285,529	-13,812	-12,893	-10,637	-10,284	-9,362	-9,274	-9,151	-9,364	-10,263	-7,868	-5,931	-5,700	-2,400,068
	Clr Sum	-2,285,529	-13,812	-12,893	-10,637	-10,284	-9,362	-9,274	-9,151	-9,364	-10,263	-7,868	-5,931	-5,700	-2,400,068
	Proj Net	-670,807	15,483	-4,188	-10,276	-1,610	-4,198	-400	-562	969	4,096	-10,911	-8,822	-1,052	-692,276

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	89900107	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	742,055	13,970	4,151	172	4,136	2,462	4,231	4,096	4,927	6,847	-1,450	-1,378	2,217	786,436
120-Overtime-General	9,575	144	43	2	43	25	44	42	51	70	-15	-14	23	10,033
350-Material Issues-Major	2,007,064	12,563	3,733	155	3,719	2,214	3,805	3,683	4,431	6,158	-1,304	-1,239	1,994	2,046,976
370-Outside Services	2,227,469	46,631	13,856	575	13,805	8,217	14,123	13,671	16,447	22,855	-4,841	-4,600	7,400	2,375,608
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	52,288	0	0	0	0	0	0	0	0	0	0	0	0	52,288
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	371	0	0	0	0	0	0	0	0	0	0	0	0	371
610-Expenses - General	234,151	3,027	900	37	896	533	917	888	1,068	1,484	-314	-299	480	243,768
805-Land and Land Rights	3,600	0	0	0	0	0	0	0	0	0	0	0	0	3,600
807-Non Refundable Contribution	-5,491,987	-61,071	-18,147	-753	-18,080	-10,761	-18,497	-17,905	-21,540	-29,932	6,340	6,025	-9,691	-5,685,999
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	62,504	1,107	329	14	328	195	335	324	390	542	-115	-109	176	66,019
914-Pension and Benefits Load	241,766	3,852	1,145	47	1,140	679	1,167	1,129	1,358	1,888	-400	-380	611	254,003
915-Injuries and Damages Load	58,929	878	261	11	260	155	266	257	310	430	-91	-87	139	61,718
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	173,883	2,173	646	27	643	383	658	637	767	1,065	-226	-214	345	180,788
922-Minor Material Load	99,771	0	0	0	0	0	0	0	0	0	0	0	0	99,771
925-E and S Loads	951,582	15,777	4,688	194	4,671	2,780	4,778	4,625	5,565	7,733	-1,638	-1,556	2,504	1,001,703
926-A and G Loads	334,770	5,130	1,524	63	1,519	904	1,554	1,504	1,809	2,514	-532	-506	814	351,067
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	1,707,792	44,180	13,128	544	13,080	7,785	13,381	12,953	15,583	21,654	-4,586	-4,357	7,012	1,848,151
825-Clearings	-2,400,068	-12,627	-12,717	-10,526	-10,986	-10,410	-10,944	-11,306	-12,076	-13,800	-10,491	-7,818	-7,673	-2,531,441
Clr Sum	-2,400,068	-12,627	-12,717	-10,526	-10,986	-10,410	-10,944	-11,306	-12,076	-13,800	-10,491	-7,818	-7,673	-2,531,441
Proj Net	-692,276	31,553	411	-9,982	2,094	-2,624	2,437	1,647	3,507	7,854	-15,076	-12,175	-661	-683,291

Project No: 89900707 Distr. system Improvements

Company: 001-Electric Services
Location: 899 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

This project consists of many individual work orders which are placed in service at various times throughout the year.

Project Need Justification

Annual load analysis and modeling of the distribution system identified possible operational issues caused by normal load growth and obsolete/problematic equipment, which will necessitate improvements and line extensions to serve new customers. These improvements are necessary to meet the standards for service as required of New Mexico Administrative Code (NMAC) Rule 17.9.560.15.

Project Alternatives

Alternatives are evaluated on a case-by case basis. This usually involves analysis by PNM’s Distribution Planning or Distribution Protection departments using simulation models of the distribution system. With these models, engineers will evaluate different equipment or configuration alternatives to arrive at the best solutions for maintaining adequate voltage to all customers, enhance reliability and ensure the most cost effective and practical solution.

Technical Aspects

This project provides for numerous small distribution facility improvements including the design and installation of conduit systems, cable, wire, poles, overhead and underground switches, voltage and power factor supporting devices, and protection equipment. Further system improvements include new capacitor banks, voltage regulators, protective devices, upgraded wires and supervisory control and data acquisitions (SCADA) devices.

Project Estimate Approach

Historical spend is used as a guide to estimate future funding for the project. The initial budget for this project was developed by applying labor and non-labor cost escalation factors to the most recent 12-month actual spend (July 2015-June 2016). The typical breakdown of cost by categories is as follows: company labor 11%, outside services 66%, materials 20%, and company transportation 3%. This breakdown can fluctuate depending on the nature of the system improvement work.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	89900707	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	278,316		1,594	2,186	3,087	3,256	2,916	1,047	292,402		
	120-Overtime-General	82,652		0	261	2,990	1,950	3,948	1,166	92,966		
	350-Material Issues-Major	1,034,673		430	4,241	21,558	5,728	9,272	-120	1,075,783		
	370-Outside Services	818,243		1,437	6,043	-734	15,668	29,038	22,515	892,211		
	374-Outside Svcs Legal	13,582		0	0	0	0	0	0	13,582		
	377-Outside Services-Temp Labor	9,131		0	0	0	0	0	0	9,131		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	5,961		0	0	0	0	0	0	5,961		
	610-Expenses - General	0		665	519	2,154	6,729	1,927	434	12,428		
	805-Land and Land Rights	6,000		0	0	0	0	0	0	6,000		
	807-Non Refundable Contribution	-121,765		0	0	-689	0	0	0	-122,454		
	829-Construction Adjustment	0		0	0	0	-410	-410	-410	-1,231		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	28,908		125	193	478	410	540	174	30,829		
	914-Pension and Benefits Load	112,536		477	733	1,819	1,559	2,055	663	119,842		
	915-Injuries and Damages Load	29,350		104	160	396	339	447	144	30,941		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	93,763		48	472	2,397	637	1,031	-13	98,335		
	922-Minor Material Load	57,861		0	0	0	0	0	0	57,861		
	925-E and S Loads	393,558		894	2,652	5,874	6,593	9,277	4,814	423,662		
	926-A and G Loads	162,409		343	1,102	2,417	2,773	3,919	2,084	175,047		
	928-AFUDC Debt Reg	36,355		77	88	135	197	271	312	37,435		
	929-AFUDC - Equity Regular	31,209		83	96	146	213	294	338	32,380		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	3,072,743		6,279	18,745	42,028	45,642	64,524	33,149	3,283,110		
	825-Clearings	-3,257,193		-7,476	-9,730	-16,190	-22,080	-30,569	-31,085	-3,374,324		
	Clr Sum	-3,257,193		-7,476	-9,730	-16,190	-22,080	-30,569	-31,085	-3,374,324		
	Proj Net	-184,450		-1,197	9,015	25,839	23,562	33,955	2,064	-91,213		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	89900707	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	292,402	3,565	5,525	882	772	-56	1,796	1,834	1,992	765	9,384	4,235	1,411	324,504
120-Overtime-General	92,966	350	543	86	75	-5	177	180	196	75	921	415	138	96,116
350-Material Issues-Major	1,075,783	6,517	10,105	1,612	1,412	-102	3,285	3,355	3,642	1,397	17,161	7,746	2,580	1,134,490
370-Outside Services	892,211	13,459	20,865	3,329	2,916	-210	6,781	6,928	7,520	2,886	35,436	15,993	5,327	1,013,441
374-Outside Svcs Legal	13,582	0	0	0	0	0	0	0	0	0	0	0	0	13,582
377-Outside Services-Temp Labor	9,131	19	30	5	4	0	9	11	11	4	51	23	7	9,303
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	5,961	0	0	0	0	0	0	0	0	0	0	0	0	5,961
610-Expenses - General	12,428	646	1,001	159	140	-11	326	333	361	138	1,701	768	256	18,245
805-Land and Land Rights	6,000	0	0	0	0	0	0	0	0	0	0	0	0	6,000
807-Non Refundable Contribution	-122,454	-3,064	-4,750	-758	-663	47	-1,544	-1,577	-1,712	-656	-8,066	-3,640	-1,213	-150,048
829-Construction Adjustment	-1,231	-526	-526	0	0	0	0	0	0	0	0	0	0	-2,283
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	30,829	307	476	76	66	-5	155	158	172	66	808	365	121	33,592
914-Pension and Benefits Load	119,842	1,068	1,656	264	231	-17	538	550	597	229	2,812	1,269	423	129,462
915-Injuries and Damages Load	30,941	243	377	60	53	-4	123	125	136	52	641	289	96	33,134
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	98,335	1,127	1,748	279	244	-18	568	580	630	242	2,969	1,340	446	108,491
922-Minor Material Load	57,861	0	0	0	0	0	0	0	0	0	0	0	0	57,861
925-E and S Loads	423,662	5,026	7,791	1,243	1,088	-78	2,532	2,587	2,808	1,077	13,231	5,972	1,989	468,926
926-A and G Loads	175,047	1,650	2,558	408	357	-26	831	849	922	354	4,345	1,961	653	189,910
928-AFUDC Debt Reg	37,435	364	386	370	344	259	258	260	272	278	352	420	438	41,436
929-AFUDC - Equity Regular	32,380	477	507	486	451	339	338	342	357	365	462	551	575	37,627
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	3,283,110	31,228	48,291	8,500	7,490	115	16,172	16,515	17,901	7,271	82,205	37,705	13,247	3,569,751
825-Clearings	-3,374,324	-31,114	-34,549	-18,149	-36,619	-8,499	-15,255	-12,817	-10,140	-16,328	-33,857	-18,302	-68,410	-3,678,362
Clr Sum	-3,374,324	-31,114	-34,549	-18,149	-36,619	-8,499	-15,255	-12,817	-10,140	-16,328	-33,857	-18,302	-68,410	-3,678,362
Proj Net	-91,213	115	13,742	-9,649	-29,129	-8,384	917	3,698	7,761	-9,057	48,349	19,403	-55,163	-108,611

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	89900707	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jui	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	324,504	3,635	5,635	900	788	-56	1,832	1,871	2,032	779	9,571	4,321	1,439	357,249
120-Overtime-General	96,116	357	553	88	77	-5	180	184	200	77	938	424	142	99,329
350-Material Issues-Major	1,134,490	6,615	10,255	1,636	1,433	-103	3,334	3,406	3,696	1,418	17,418	7,861	2,618	1,194,076
370-Outside Services	1,013,441	13,661	21,177	3,379	2,959	-214	6,883	7,032	7,634	2,928	35,968	16,233	5,408	1,136,487
374-Outside Svcs Legal	13,582	0	0	0	0	0	0	0	0	0	0	0	0	13,582
377-Outside Services-Temp Labor	9,303	19	30	5	4	0	11	11	11	4	51	23	7	9,476
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	5,961	0	0	0	0	0	0	0	0	0	0	0	0	5,961
610-Expenses - General	18,245	656	1,017	163	142	-11	331	338	366	140	1,727	779	259	24,152
805-Land and Land Rights	6,000	0	0	0	0	0	0	0	0	0	0	0	0	6,000
807-Non Refundable Contribution	-150,048	-3,110	-4,821	-768	-674	49	-1,566	-1,601	-1,738	-667	-8,187	-3,694	-1,230	-178,055
829-Construction Adjustment	-2,283	0	0	0	0	0	0	0	0	0	0	0	0	-2,283
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	33,592	313	485	77	68	-5	158	161	175	67	824	372	124	36,412
914-Pension and Benefits Load	129,462	1,089	1,689	269	236	-17	549	561	609	234	2,868	1,295	431	139,275
915-Injuries and Damages Load	33,134	248	385	61	54	-4	125	128	139	53	654	295	98	35,371
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	108,491	1,144	1,774	283	248	-18	577	589	639	245	3,013	1,360	453	118,799
922-Minor Material Load	57,861	0	0	0	0	0	0	0	0	0	0	0	0	57,861
925-E and S Loads	468,926	5,106	7,915	1,263	1,106	-79	2,573	2,628	2,853	1,094	13,443	6,067	2,021	514,917
926-A and G Loads	189,910	1,676	2,598	415	363	-26	845	863	937	359	4,413	1,992	663	205,008
928-AFUDC Debt Reg	41,436	320	392	398	368	276	274	275	285	291	365	432	450	45,562
929-AFUDC - Equity Regular	37,627	289	353	359	332	249	247	248	257	262	329	390	406	41,347
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	3,569,751	32,019	49,436	8,528	7,503	37	16,352	16,691	18,093	7,283	83,394	38,148	13,288	3,860,525
825-Clearings	-3,678,362	-13,348	-26,545	-19,428	-39,060	-9,058	-16,133	-13,464	-10,588	-17,003	-34,833	-18,765	-70,024	-3,966,612
Clr Sum	-3,678,362	-13,348	-26,545	-19,428	-39,060	-9,058	-16,133	-13,464	-10,588	-17,003	-34,833	-18,765	-70,024	-3,966,612
Proj Net	-108,611	18,671	22,891	-10,900	-31,557	-9,021	219	3,228	7,505	-9,721	48,561	19,383	-56,736	-106,087

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Project No: 89901707 Bernalillo Pure Project

Company: 001-Electric Services
Location: 899 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date

List Interim In-Service Dates

Completion will occur at various times throughout the year.

Project Need Justification

The Automated Line Patrols (ALPS) process identified a large quantity of work needed for repairing and replacing aging overhead distribution construction components. The work includes cost for internal labor, material, transportation, and contractors. This work is necessary to maintain reliable service and reduce hazards to the public and PNM line crews. NMPRC Rule 17.9.560, Service Standards for Electric Utilities Rules, outlines requirements for following electrical and safety standards (National Electric Safety Code), minimizing interruption of service, and protective safety measures. Not performing this work may decrease reliability and increase hazards to PNM personnel and the public.

Project Alternatives

No alternatives are available for this project, as it is necessary to ensure system reliability and minimize hazardous risks to PNM personnel and the public. All projects are sorted by priority in terms of condition and immediate impact to the system upon failure. High risk projects that would greatly impact the system if there is a failure are addressed immediately. The work identified that does not create an immediate hazard or pose imminent failure risk is scheduled based upon the level of deterioration or condition of the equipment and also the overall circuit performance in terms of number of outages and customers affected. As this work is not of immediate priority, work can be reasonably delayed if higher priority work exists or internal or contractor crews are limited.

Technical Aspects

This project involves the like-for-like replacement of aging/obsolete or damaged equipment on distribution poles. Physical items identified for replacement include lightning arrestors, cross-arms, cut-outs, capacitors, and insulators.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	89901707	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	33,227		683	10,611	3,280	1,548	1,347	0	50,697		
	120-Overtime-General	23,182		0	0	0	0	0	0	23,182		
	350-Material Issues-Major	11,040		0	0	1,359	0	0	0	12,398		
	370-Outside Services	180,619		0	0	0	0	0	9,114	189,733		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	4,377		54	835	258	122	106	0	5,752		
	914-Pension and Benefits Load	16,363		204	3,177	982	464	403	0	21,594		
	915-Injuries and Damages Load	4,055		45	692	214	101	88	0	5,194		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	5,747		0	0	151	0	0	0	5,898		
	922-Minor Material Load	904		0	0	0	0	0	0	904		
	925-E and S Loads	42,257		182	2,833	1,127	413	360	1,686	48,859		
	926-A and G Loads	21,224		57	883	386	129	112	758	23,549		
	928-AFUDC Debt Reg	309		0	0	0	0	0	0	309		
	929-AFUDC - Equity Regular	467		0	0	0	0	0	0	467		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	343,772		1,224	19,032	7,757	2,777	2,416	11,558	388,536		
	825-Clearings	-332,987		-40,622	0	0	-31,777	0	-17,535	-422,920		
	Clr Sum	-332,987		-40,622	0	0	-31,777	0	-17,535	-422,920		
Proj Net		10,785		-39,397	19,032	7,757	-29,000	2,416	-5,976	-34,384		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	89901707	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	50,697	1,054	679	1,029	1,860	2,370	1,760	415	357	296	517	517	729	62,278	
120-Overtime-General	23,182	354	38	6,833	3,187	1,783	745	0	0	0	0	0	0	36,122	
350-Material Issues-Major	12,398	248	3,498	2,270	4,532	2,092	2,155	1,198	2,171	372	1,952	1,695	1,377	35,959	
370-Outside Services	189,733	4,861	21,062	19,841	25,075	38,475	20,498	20,812	13,554	9,248	25,632	8,023	6,109	402,923	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	460	217	1,747	1,311	1,365	695	0	0	0	0	0	0	5,795	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	5,752	110	56	616	396	326	196	33	28	23	41	41	57	7,675	
914-Pension and Benefits Load	21,594	384	196	2,146	1,377	1,133	684	113	97	81	141	141	199	28,286	
915-Injuries and Damages Load	5,194	88	45	489	314	258	156	26	22	18	32	32	45	6,720	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	5,898	43	605	393	784	362	373	207	376	64	338	293	238	9,974	
922-Minor Material Load	904	0	0	0	0	0	0	0	0	0	0	0	0	904	
925-E and S Loads	48,859	1,452	4,952	6,715	7,306	9,178	5,163	4,339	3,116	1,927	5,436	2,006	1,635	102,083	
926-A and G Loads	23,549	469	1,713	2,132	2,417	3,097	1,737	1,507	1,081	666	1,888	688	552	41,496	
928-AFUDC Debt Reg	309	0	0	0	0	0	0	0	0	0	0	0	0	309	
929-AFUDC - Equity Regular	467	0	0	0	0	0	0	0	0	0	0	0	0	467	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	388,536	9,524	33,061	44,211	48,556	60,439	34,162	28,650	20,801	12,697	35,977	13,435	10,941	740,990	
825-Clearings	-422,920	-2,781	-8,837	-15,912	-22,441	-30,041	-30,865	-30,422	-28,498	-25,337	-27,465	-24,659	-76,705	-746,884	
Clr Sum	-422,920	-2,781	-8,837	-15,912	-22,441	-30,041	-30,865	-30,422	-28,498	-25,337	-27,465	-24,659	-76,705	-746,884	
Proj Net	-34,384	6,742	24,224	28,299	26,115	30,398	3,297	-1,772	-7,696	-12,641	8,512	-11,224	-65,764	-5,894	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	89901707	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	62,278	661	424	645	1,162	1,482	1,101	261	222	184	322	322	456	69,522
120-Overtime-General	36,122	222	25	4,277	1,995	1,117	465	0	0	0	0	0	0	44,223
350-Material Issues-Major	35,959	154	2,188	1,421	2,835	1,308	1,348	751	1,357	234	1,221	1,060	863	50,700
370-Outside Services	402,923	3,042	13,182	12,417	15,693	24,078	12,828	13,025	8,481	5,789	16,040	5,021	3,823	536,340
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	5,795	288	136	1,094	819	854	434	0	0	0	0	0	0	9,421
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	7,675	69	35	386	248	204	123	20	17	14	25	25	36	8,878
914-Pension and Benefits Load	28,286	241	123	1,343	862	709	427	71	61	50	88	88	125	32,473
915-Injuries and Damages Load	6,720	55	28	306	196	162	97	16	14	11	20	20	28	7,674
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	9,974	27	379	246	490	226	233	130	235	40	211	183	149	12,525
922-Minor Material Load	904	0	0	0	0	0	0	0	0	0	0	0	0	904
925-E and S Loads	102,083	909	3,099	4,203	4,572	5,743	3,230	2,716	1,949	1,206	3,402	1,255	1,023	135,390
926-A and G Loads	41,496	293	1,072	1,334	1,512	1,938	1,087	943	676	417	1,182	430	346	52,727
928-AFUDC Debt Reg	309	0	0	0	0	0	0	0	0	0	0	0	0	309
929-AFUDC - Equity Regular	467	0	0	0	0	0	0	0	0	0	0	0	0	467
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	740,990	5,961	20,692	27,671	30,385	37,820	21,374	17,935	13,013	7,946	22,511	8,406	6,848	961,552
825-Clearings	-746,884	-31,068	-22,767	-26,690	-29,646	-36,185	-24,336	-19,215	-14,253	-9,207	-19,850	-10,695	-7,618	-998,415
Clr Sum	-746,884	-31,068	-22,767	-26,690	-29,646	-36,185	-24,336	-19,215	-14,253	-9,207	-19,850	-10,695	-7,618	-998,415
Proj Net	-5,894	-25,107	-2,075	981	739	1,635	-2,962	-1,280	-1,240	-1,261	2,661	-2,289	-769	-36,864

Specifics

Project No: 10001614 Hawkins Feeder 22

Company: 001-Electric Services
Location: 100 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2014	<u>Estimated Completion Date</u>	7/31/2016
<u>List Interim In-Service Dates</u>	N/A		

Project Need Justification

This project is to reconfigure the primary distribution lines by providing a new feeder source from Hawkins Unit II substation. Using 2013 projected loads, an outage of Hawkins Unit I results in an overload of Reeves 14 (116%), Wyoming 12 (114%) and Signetics 22 (106%) substations. An outage of Reeves results in an overload of Wyoming 12 (112%), Signetics 22 (116%) and Wayne 13 (100%). The new Hawkins Feeder 22 will split the load on Reeves Feeder 14 and create a new path that can be utilized during contingencies to avoid customer power outages. The project funds will cover materials, labor, equipment and other costs (which include but are not limited to permitting, right-of-way, contractor costs, environmental screening and monitoring).

Project Alternatives

The need for Hawkins Feeder 22 was anticipated when the Hawkins Unit II transformer was installed. At that time, a four-feeder switchgear was installed at Hawkins Substation in preparation for the feeders to be placed into service. Feeder route alternatives were considered as part of the Hawkins Unit II transformer installation which was complete prior to this project. After the transformer was installed, the feeder routes were limited. No other viable routes were identified to tie into Reeves feeder 14. Inaction would cause extended power outages for customers due to lack of backup feeder tie capacity of Reeves Substation. Though the feeder was designed as overhead construction but due to the City of Albuquerque's underground ordinance could be built as underground construction in another variation.

Technical Aspects

Construction consists of a new getaway from the substation to the east side of Jefferson (approximately 435 ft.) extending Hawkins 22 north along Jefferson using 397 AAC overhead construction, (approximately 1,900 ft.), and installation of a riser down to connect to the existing underground line.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10001614	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	34,992			0	0	0	0	0	0	34,992		
120-Overtime-General	1,976			0	0	0	0	0	0	1,976		
350-Material Issues-Major	99,096			0	0	0	0	0	0	99,096		
370-Outside Services	117,665			0	0	0	0	0	0	117,665		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	-193,370			0	0	0	0	0	0	-193,370		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	2,903			0	0	0	0	0	0	2,903		
914-Pension and Benefits Load	9,815			0	0	0	0	0	0	9,815		
915-Injuries and Damages Load	2,837			0	0	0	0	0	0	2,837		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	8,795			0	0	0	0	0	0	8,795		
922-Minor Material Load	9,177			0	0	0	0	0	0	9,177		
925-E and S Loads	41,742			0	0	0	0	0	0	41,742		
926-A and G Loads	22,553			0	0	0	0	0	0	22,553		
928-AFUDC Debt Reg	10,619			-436	0	0	0	0	0	10,183		
929-AFUDC - Equity Regular	14,268			-472	0	0	0	0	0	13,796		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	183,067			-908	0	0	0	0	0	182,159		
825-Clearings	-406,107			194,278	0	0	0	0	0	-211,829		
Clr Sum	-406,107			194,278	0	0	0	0	0	-211,829		
Proj Net	-223,040			193,370	0	0	0	0	0	-29,670		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10001614	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	34,992	0	0	0	0	0	0	0	0	0	0	0	0	34,992
	120-Overtime-General	1,976	0	0	0	0	0	0	0	0	0	0	0	0	1,976
	350-Material Issues-Major	99,096	0	0	0	0	0	0	0	0	0	0	0	0	99,096
	370-Outside Services	117,665	0	0	0	0	0	0	0	0	0	0	0	0	117,665
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	-193,370	0	0	0	0	0	0	0	0	0	0	0	0	-193,370
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	2,903	0	0	0	0	0	0	0	0	0	0	0	0	2,903
	914-Pension and Benefits Load	9,815	0	0	0	0	0	0	0	0	0	0	0	0	9,815
	915-Injuries and Damages Load	2,837	0	0	0	0	0	0	0	0	0	0	0	0	2,837
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	8,795	0	0	0	0	0	0	0	0	0	0	0	0	8,795
	922-Minor Material Load	9,177	0	0	0	0	0	0	0	0	0	0	0	0	9,177
	925-E and S Loads	41,742	0	0	0	0	0	0	0	0	0	0	0	0	41,742
	926-A and G Loads	22,553	0	0	0	0	0	0	0	0	0	0	0	0	22,553
	928-AFUDC Debt Reg	10,183	0	0	0	0	0	0	0	0	0	0	0	0	10,183
	929-AFUDC - Equity Regular	13,796	0	0	0	0	0	0	0	0	0	0	0	0	13,796
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	182,159	0	0	0	0	0	0	0	0	0	0	0	0	182,159
	825-Clearings	-211,829	0	0	0	0	0	0	0	0	0	0	0	0	-211,829
	Clr Sum	-211,829	0	0	0	0	0	0	0	0	0	0	0	0	-211,829
	Proj Net	-29,670	0	0	0	0	0	0	0	0	0	0	0	0	-29,670

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10001614	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	34,992	0	0	0	0	0	0	0	0	0	0	0	0	34,992
	120-Overtime-General	1,976	0	0	0	0	0	0	0	0	0	0	0	0	1,976
	350-Material Issues-Major	99,096	0	0	0	0	0	0	0	0	0	0	0	0	99,096
	370-Outside Services	117,665	0	0	0	0	0	0	0	0	0	0	0	0	117,665
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	-193,370	0	0	0	0	0	0	0	0	0	0	0	0	-193,370
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	2,903	0	0	0	0	0	0	0	0	0	0	0	0	2,903
	914-Pension and Benefits Load	9,815	0	0	0	0	0	0	0	0	0	0	0	0	9,815
	915-Injuries and Damages Load	2,837	0	0	0	0	0	0	0	0	0	0	0	0	2,837
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	8,795	0	0	0	0	0	0	0	0	0	0	0	0	8,795
	922-Minor Material Load	9,177	0	0	0	0	0	0	0	0	0	0	0	0	9,177
	925-E and S Loads	41,742	0	0	0	0	0	0	0	0	0	0	0	0	41,742
	926-A and G Loads	22,553	0	0	0	0	0	0	0	0	0	0	0	0	22,553
	928-AFUDC Debt Reg	10,183	0	0	0	0	0	0	0	0	0	0	0	0	10,183
	929-AFUDC - Equity Regular	13,796	0	0	0	0	0	0	0	0	0	0	0	0	13,796
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	182,159	0	0	0	0	0	0	0	0	0	0	0	0	182,159
	825-Clearings	-211,829	0	0	0	0	0	0	0	0	0	0	0	0	-211,829
	Clr Sum	-211,829	0	0	0	0	0	0	0	0	0	0	0	0	-211,829
Proj Net		-29,670	0	0	0	0	0	0	0	0	0	0	0	0	-29,670

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Project No: 10001615 Hawkins Feeder 21

Company: 001-Electric Services
Location: 100 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2015	<u>Estimated Completion Date</u>	8/31/2016
<u>List Interim In-Service Dates</u>	N/A		

Project Need Justification

The purpose of this project is to provide a new feeder source, Hawkins Feeder 21, from the new Hawkins Unit II substation so that for an outage of the Los Angeles substation, load from the Reeves substation can be transferred to the Hawkins Unit II substation, thus avoiding a power outage that impacts customers. A single contingency outage involving Los Angeles substation causes the Reeves feeder 11 to be loaded to 104% of its emergency rating, based on 2014 peak loads. For single contingency conditions, Reeves Feeder 11 is unable to have full load restoration with just a single supplemental for contingency conditions. The Hawkins Feeder 21 will split the load on Reeves Feeder 11 and create a new path that can be utilized during contingencies. The project funds will cover materials, labor, equipment and other costs (which include but are not limited to include permitting, right-of-way, contractor costs, environmental screening and monitoring).

Project Alternatives

The need for Hawkins Feeder 21 was anticipated when the Hawkins Unit II transformer was installed. At that time, a four-feeder switchgear was installed at Hawkins Substation in preparation for the feeders to be placed into service. Feeder route alternatives were considered as part of the Hawkins Unit II transformer installation which was complete prior to this project. After the transformer was installed, the feeder routes were limited. No other viable routes were identified to tie into Reeves Feeder 11. Inaction could cause extended power outages for customers due to lack of backup feeder tie capacity during an outage of Reeves Substation. The feeder will be designed as overhead but due to the City of Albuquerque's underground ordinance, if no variance is given, the feeder could also be built underground.

Technical Aspects

Construction consists of a new getaway from the substation south of the ditch and then a riser up to 397 AAC via overhead construction. Hawkins 21 will be extended west along the drainage ditch and then north to the Reeves Switchyard to connect to the existing overhead line of Reeves Feeder 11. In addition, a Scadamate switch at pole G12D032 will be installed to create a new open point between the feeders.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10001615	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	9,830		15,000	10,000	0	0	0	0	34,830		
	120-Overtime-General	30		0	0	0	0	0	0	30		
	350-Material Issues-Major	175,724		2,500	1,000	0	0	0	0	179,224		
	370-Outside Services	71,273		45,000	0	0	0	0	0	116,273		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		150	150	0	0	0	0	300		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	894		1,181	787	0	0	0	0	2,861		
	914-Pension and Benefits Load	3,383		4,491	2,994	0	0	0	0	10,868		
	915-Injuries and Damages Load	744		978	652	0	0	0	0	2,374		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	18,837		278	111	0	0	0	0	19,226		
	922-Minor Material Load	14,927		0	0	0	0	0	0	14,927		
	925-E and S Loads	49,353		12,820	2,883	0	0	0	0	65,056		
	926-A and G Loads	22,991		5,212	928	0	0	0	0	29,132		
	928-AFUDC Debt Reg	1,508		954	1,079	1,106	0	0	0	4,648		
	929-AFUDC - Equity Regular	699		1,033	1,169	1,198	0	0	0	4,099		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	370,192		89,598	21,753	2,305	0	0	0	483,848		
	825-Clearings	0		0	0	-493,197	0	0	0	-493,197		
	Clr Sum	0		0	0	-493,197	0	0	0	-493,197		
Proj Net		370,192		89,598	21,753	-490,892	0	0	0	-9,349		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10001615	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	34,830	0	0	0	0	0	0	0	0	0	0	0	0	34,830
	120-Overtime-General	30	0	0	0	0	0	0	0	0	0	0	0	0	30
	350-Material Issues-Major	179,224	0	0	0	0	0	0	0	0	0	0	0	0	179,224
	370-Outside Services	116,273	0	0	0	0	0	0	0	0	0	0	0	0	116,273
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	300	0	0	0	0	0	0	0	0	0	0	0	0	300
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	2,861	0	0	0	0	0	0	0	0	0	0	0	0	2,861
	914-Pension and Benefits Load	10,868	0	0	0	0	0	0	0	0	0	0	0	0	10,868
	915-Injuries and Damages Load	2,374	0	0	0	0	0	0	0	0	0	0	0	0	2,374
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	19,226	0	0	0	0	0	0	0	0	0	0	0	0	19,226
	922-Minor Material Load	14,927	0	0	0	0	0	0	0	0	0	0	0	0	14,927
	925-E and S Loads	65,056	0	0	0	0	0	0	0	0	0	0	0	0	65,056
	926-A and G Loads	29,132	0	0	0	0	0	0	0	0	0	0	0	0	29,132
	928-AFUDC Debt Reg	4,648	0	0	0	0	0	0	0	0	0	0	0	0	4,648
	929-AFUDC - Equity Regular	4,099	0	0	0	0	0	0	0	0	0	0	0	0	4,099
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	483,848	0	0	0	0	0	0	0	0	0	0	0	0	483,848
	825-Clearings	-493,197	0	0	0	0	0	0	0	0	0	0	0	0	-493,197
	Clr Sum	-493,197	0	0	0	0	0	0	0	0	0	0	0	0	-493,197
	Proj Net	-9,349	0	0	0	0	0	0	0	0	0	0	0	0	-9,349

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10001615	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	34,830	0	0	0	0	0	0	0	0	0	0	0	0	34,830
	120-Overtime-General	30	0	0	0	0	0	0	0	0	0	0	0	0	30
	350-Material Issues-Major	179,224	0	0	0	0	0	0	0	0	0	0	0	0	179,224
	370-Outside Services	116,273	0	0	0	0	0	0	0	0	0	0	0	0	116,273
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	300	0	0	0	0	0	0	0	0	0	0	0	0	300
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	2,861	0	0	0	0	0	0	0	0	0	0	0	0	2,861
	914-Pension and Benefits Load	10,868	0	0	0	0	0	0	0	0	0	0	0	0	10,868
	915-Injuries and Damages Load	2,374	0	0	0	0	0	0	0	0	0	0	0	0	2,374
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	19,226	0	0	0	0	0	0	0	0	0	0	0	0	19,226
	922-Minor Material Load	14,927	0	0	0	0	0	0	0	0	0	0	0	0	14,927
	925-E and S Loads	65,056	0	0	0	0	0	0	0	0	0	0	0	0	65,056
	926-A and G Loads	29,132	0	0	0	0	0	0	0	0	0	0	0	0	29,132
	928-AFUDC Debt Reg	4,648	0	0	0	0	0	0	0	0	0	0	0	0	4,648
	929-AFUDC - Equity Regular	4,099	0	0	0	0	0	0	0	0	0	0	0	0	4,099
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	483,848	0	0	0	0	0	0	0	0	0	0	0	0	483,848
	825-Clearings	-493,197	0	0	0	0	0	0	0	0	0	0	0	0	-493,197
	Clr Sum	-493,197	0	0	0	0	0	0	0	0	0	0	0	0	-493,197
	Proj Net	-9,349	0	0	0	0	0	0	0	0	0	0	0	0	-9,349

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Project No: 10001617 Voltage Controlled Capacitor Controller Upgrade to Two Way Comm

Company: 001-Electric Services
Location: 100 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date 11/30/2017

List Interim In-Service Dates

N/A

Project Need Justification

This project is to ensure communications to all of PNM's Beckwith voltage controlled capacitor banks so that the open/close operation data can be retrieved remotely and stored in PNM's RCCS branded Volt Var Management System. Having the open/close operations data will allow Distribution Planning to more accurately model distribution circuits that have solar photovoltaics (PV) systems connected. PV systems can interfere with capacitor bank operations and cause localized voltage issues that Distribution Planning is unable to model without the capacitor open/close data. More accurate models of the capacitor bank operations also aids Distribution Planning in determining the proper location for capacitor bank voltage support.

Project Alternatives

There are no other alternatives. Doing nothing would leave the existing voltage controlled capacitors in operation without the proper communications equipment.

Technical Aspects

This project will require an internal team of Communications and Distribution Planning experts to evaluate new voltage control capacitor controls with remote communications capability. Once a new controller is selected, the project will include replacing approximately 45 old capacitor controllers with the new controllers.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10001617	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10001617	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	1,500	5,000	5,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	0	83,500
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	0	26,400	26,400	26,400	0	0	0	0	0	0	79,200
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	118	392	392	706	706	706	706	706	706	706	706	0	6,546
914-Pension and Benefits Load	0	409	1,365	1,365	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	0	22,787
915-Injuries and Damages Load	0	93	311	311	560	560	560	560	560	560	560	560	0	5,194
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	0	4,567	4,567	4,567	0	0	0	0	0	0	13,702
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	407	1,357	1,357	7,511	7,511	7,511	2,443	2,443	2,443	2,443	2,443	0	37,868
926-A and G Loads	0	101	336	336	2,379	2,379	2,379	605	605	605	605	605	0	10,933
928-AFUDC Debt Reg	0	3	18	41	123	263	404	497	541	586	630	675	0	3,783
929-AFUDC - Equity Regular	0	4	24	54	161	345	530	652	710	768	827	886	0	4,962
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	2,636	8,803	8,856	53,863	54,187	54,514	16,918	17,020	17,123	17,226	17,330	0	268,475
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	-268,475	0	-268,475
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	-268,475	0	-268,475
Proj Net	0	2,636	8,803	8,856	53,863	54,187	54,514	16,918	17,020	17,123	17,226	-251,145	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10001617	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	83,500	0	0	0	0	0	0	0	0	0	0	0	0	83,500
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	79,200	0	0	0	0	0	0	0	0	0	0	0	0	79,200
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	6,546	0	0	0	0	0	0	0	0	0	0	0	0	6,546
	914-Pension and Benefits Load	22,787	0	0	0	0	0	0	0	0	0	0	0	0	22,787
	915-Injuries and Damages Load	5,194	0	0	0	0	0	0	0	0	0	0	0	0	5,194
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	13,702	0	0	0	0	0	0	0	0	0	0	0	0	13,702
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	37,868	0	0	0	0	0	0	0	0	0	0	0	0	37,868
	926-A and G Loads	10,933	0	0	0	0	0	0	0	0	0	0	0	0	10,933
	928-AFUDC Debt Reg	3,783	0	0	0	0	0	0	0	0	0	0	0	0	3,783
	929-AFUDC - Equity Regular	4,962	0	0	0	0	0	0	0	0	0	0	0	0	4,962
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	268,475	0	0	0	0	0	0	0	0	0	0	0	0	268,475
	825-Clearings	-268,475	0	0	0	0	0	0	0	0	0	0	0	0	-268,475
	Clr Sum	-268,475	0	0	0	0	0	0	0	0	0	0	0	0	-268,475
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10001815	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	931			0	0	0	0	0	0	0	931	
922-Minor Material Load	0			0	0	0	0	0	0	0	0	
925-E and S Loads	10,100			0	0	0	0	0	0	0	10,100	
926-A and G Loads	6,688			0	0	0	0	0	0	0	6,688	
928-AFUDC Debt Reg	1,778			0	0	0	0	0	0	0	1,778	
929-AFUDC - Equity Regular	1,174			0	0	0	0	0	0	0	1,174	
937-San Juan AR - Other	0			0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0	0	
Cost Sum	20,670			0	0	0	0	0	0	0	20,670	
825-Clearings	0			0	0	0	0	0	0	0	0	
Clr Sum	0			0	0	0	0	0	0	0	0	
Proj Net	20,670			0	0	0	0	0	0	0	20,670	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10001815	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	931	0	0	0	0	0	0	0	0	0	0	0	0	931
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	10,100	0	0	0	0	0	0	0	0	0	0	0	0	10,100
	926-A and G Loads	6,688	0	0	0	0	0	0	0	0	0	0	0	0	6,688
	928-AFUDC Debt Reg	1,778	0	0	0	0	0	0	0	0	0	0	0	0	1,778
	929-AFUDC - Equity Regular	1,174	0	0	0	0	0	0	0	0	0	0	0	0	1,174
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	20,670	0	0	0	0	0	0	0	0	0	0	0	0	20,670
	825-Clearings	0	0	0	-101,054	0	0	0	0	0	0	0	0	0	-101,054
	Clr Sum	0	0	0	-101,054	0	0	0	0	0	0	0	0	0	-101,054
	Proj Net	20,670	0	0	-101,054	0	0	0	0	0	0	0	0	0	-80,384

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10001815	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	931	0	0	0	0	0	0	0	0	0	0	0	0	931
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	10,100	0	0	0	0	0	0	0	0	0	0	0	0	10,100
	926-A and G Loads	6,688	0	0	0	0	0	0	0	0	0	0	0	0	6,688
	928-AFUDC Debt Reg	1,778	0	0	0	0	0	0	0	0	0	0	0	0	1,778
	929-AFUDC - Equity Regular	1,174	0	0	0	0	0	0	0	0	0	0	0	0	1,174
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	20,670	0	0	0	0	0	0	0	0	0	0	0	0	20,670
	825-Clearings	-101,054	0	0	0	0	0	0	0	0	0	0	0	0	-101,054
	Clr Sum	-101,054	0	0	0	0	0	0	0	0	0	0	0	0	-101,054
	Proj Net	-80,384	0	0	0	0	0	0	0	0	0	0	0	0	-80,384

Project No: 10001817 Uptown Underground Improvements

Company: 001-Electric Services

Location: 100 Distribution

Project Information

Construction Start Date 6/1/2018 Estimated Completion Date 12/31/2018

List Interim In-Service Dates

Project Need Justification

The uptown Albuquerque area is a densely populated area, heavily developed with various retail and commercial users. Within this area, PNM has many older underground installations which have begun to fail or do not meet current operational or environmental standards. Upgrade work is necessary to maintain service reliability in this area.

Project Alternatives

Once the design process is complete, specific project alternatives will be considered that compares the cost/benefit of replacing aging or non-standard equipment to a complete or partial re-design.

Technical Aspects

The area is served by at least two underground double radial distribution systems. The backbone facilities have many directly connected transformer connections which do not provide sufficient fuse protection. Without this protection, a single transformer could fail and lead to extensive outages. The system also includes cables approximately 40 years old and of non-standard sizes which do not have easily available replacement parts. In addition, the two feeders are double-lug connected in a single switchgear, creating a vulnerable point of failure. A fair amount of the underground cable in this area is installed in transite conduit which prevents cable repairs due to the asbestos hazards.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01.

Project	10001817	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10001817	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
914-Pension and Benefits Load		0	0	0	0	0	0	0	0	0	0	0	0	0	0
915-Injuries and Damages Load		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10001817	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	0	0	2,510	4,517	3,513	3,513	0	502	0	0	0	14,555
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	0	13,050	8,031	2,008	2,008	0	201	0	0	0	25,298
370-Outside Services	0	25,000	25,000	25,000	39,054	38,050	25,000	25,000	25,000	25,000	25,000	25,000	27,353	329,457
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	0	0	197	354	275	275	0	39	0	0	0	1,141
914-Pension and Benefits Load	0	0	0	0	685	1,233	959	959	0	137	0	0	0	3,972
915-Injuries and Damages Load	0	0	0	0	156	281	219	219	0	31	0	0	0	905
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	0	2,258	1,389	347	347	0	35	0	0	0	4,377
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	4,800	4,800	4,800	10,685	10,073	6,139	6,139	4,800	4,975	4,800	4,800	5,252	72,063
926-A and G Loads	0	1,680	1,680	1,680	3,670	3,400	2,051	2,051	1,680	1,727	1,680	1,680	1,838	24,818
928-AFUDC Debt Reg	0	41	124	206	343	527	670	779	877	965	1,054	1,141	1,233	7,961
929-AFUDC - Equity Regular	0	37	111	186	309	475	604	703	791	870	950	1,029	1,112	7,176
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	31,558	31,715	31,872	72,917	68,330	41,785	41,993	33,148	34,483	33,484	33,650	36,787	491,723
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	-491,723	-491,723
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	-491,723	-491,723
Proj Net	0	31,558	31,715	31,872	72,917	68,330	41,785	41,993	33,148	34,483	33,484	33,650	-454,936	0

Project No: 10001912 Wayne Feeder 23

Company: 001-Electric Services

Location: 100 Distribution

Project Information

Construction Start Date 1/1/2016

Estimated Completion Date 10/31/2016

List Interim In-Service Dates

Project Need Justification

The purpose of the project is to decrease the load on the existing feeder (distribution circuit) by building a new feeder that will provide additional capacity and divide the load between the two. The project need is driven by conductor overloads during contingency which will cause outages if not corrected. The single contingency back up of the Wayne feeder 13 is Montano feeder 12 and the back up for Montano feeder 12 is Wayne 13. During an outage of Wayne feeder 13, the Montano feeder 12 getaway and feeder conductor is projected to be loaded to 113% of the emergency rating in 2016. Montano feeder 12 will exceed its emergency rating by 94 hours in 2016. The new Wayne feeder 23 will split Wayne feeder 13 load in half. The two feeders will be served from different Wayne Substation transformers and will be the single contingency back up for each other. The types of costs that are covered by the project funds are internal labor, external labor, materials, equipment, and right-of-way (ROW).

Project Alternatives

The alternative considered was to upgrade the existing distribution feeder conductor from Wayne Unit 1 Substation to Montano Substation. This would increase the available feeder capacity for backup, but this would not alleviate transformer capacity availability at Montano Substation for an outage of Wayne Unit 1 Substation. Wayne Unit 2 was installed with the intent to back up Wayne Unit 1 and has available capacity.

Technical Aspects

A new feeder from Wayne Unit II Substation, which is located on 4th street at Paseo Del Norte, will split the present Wayne Feeder 13 service area in half, eliminating conductor overloads which cause outages. Construction will consist of:-installing a new feeder getaway, approximately 270 ft., from Wayne Substation east to 4th Street. -installing a new three-phase overhead line, approximately 2,930 ft., utilizing or rebuilding the existing service poles on the west side of 4th Street going south along 4th Street to Ranchitos Rd. and connecting to the overhead line going west on Ranchitos Rd.-installing a normally open Scadamate switch near Ranchitos Rd. south of 4th Street with approximately 1,300 ft. of the existing overhead circuit going west on Ranchitos Rd. from 4th Street to Guadalupe Trail-upgrading approximately 5,400 ft. of the existing overhead conductor south along Guadalupe Trail to the intersection of Guadalupe Trail and Green Valley Rd (Pole F13B322)-upgrading approximately 2,100 ft. of the existing conductor from Pole F13B322 east to 4th St-removing the existing Sectionalizer, S23, and 400 amp bypass switch, SW073, and installing a normally closed Scadamate switch between Poles F13B246 and F13B248-upgrading approximately 600 ft. of the existing conductor from Pole F13B002 south to Pole F13D399 -replacing the existing 400 amp switch, SW004, with a 600 amp

GOLB switch-replacing the existing 1,800 KVAR capacitor bank C622 with a 1,200 KVAR capacitor bank-installing a new 1,200 KVAR RCCS capacitor on Guadalupe Trail between Pole F12D164 and Pole F12D156.

Project Estimate Approach

The project cost estimates are developed using PNM's Compatible Units (CUs) and in some cases historical cost information for similar type projects. The CUs provide unit costs for materials, equipment and labor. Initial estimates developed using CUs are based on best available information at the time of preliminary design and may change due to unforeseen routing or site specific conditions. For the materials and equipment cost, the items identified in the design are costed out using the corresponding CUs which represents approximately 48% of the project cost. For the labor cost, similar calculations are performed by using the identified labor hours from the design and costing them out using the CUs. The labor represents 49% of the total project cost. Other costs (which include but are not limited to include permitting, right-of-way, contractor costs, environmental screening and monitoring) are established by either using historical costs or using estimated costs determined by the governing agency and/or a bidding process. The other costs represents 3% of the total project cost.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10001912	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	10,302			76,500	95,000	25,225	0	0	0	207,027		
120-Overtime-General	0			11,000	11,000	11,000	0	0	0	33,000		
350-Material Issues-Major	0			100,000	45,000	15,000	0	0	0	160,000		
370-Outside Services	295			35,000	25,000	0	0	0	0	60,295		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			250	300	150	0	0	0	700		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-2,230	0	0	-2,230		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	905			6,886	8,342	2,851	0	0	0	18,984		
914-Pension and Benefits Load	3,336			26,198	31,736	10,846	0	0	0	72,116		
915-Injuries and Damages Load	783			5,705	6,911	2,362	0	0	0	15,761		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	2			11,120	5,004	1,668	0	0	0	17,794		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	1,713			48,385	41,309	12,475	0	0	0	103,882		
926-A and G Loads	577			18,533	14,668	4,274	0	0	0	38,053		
928-AFUDC Debt Reg	131			428	1,133	972	1,071	0	0	3,734		
929-AFUDC - Equity Regular	67			463	1,227	1,053	1,160	0	0	3,970		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	18,111			340,468	286,631	87,876	0	0	0	733,085		
825-Clearings	0			0	-258,868	0	-476,178	0	0	-735,046		
Clr Sum	0			0	-258,868	0	-476,178	0	0	-735,046		
Proj Net	18,111			340,468	27,763	87,876	-476,178	0	0	-1,961		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10001912	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	207,027	0	0	0	0	0	0	0	0	0	0	0	0	207,027
	120-Overtime-General	33,000	0	0	0	0	0	0	0	0	0	0	0	0	33,000
	350-Material Issues-Major	160,000	0	0	0	0	0	0	0	0	0	0	0	0	160,000
	370-Outside Services	60,295	0	0	0	0	0	0	0	0	0	0	0	0	60,295
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	700	0	0	0	0	0	0	0	0	0	0	0	0	700
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-2,230	0	0	0	0	0	0	0	0	0	0	0	0	-2,230
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	18,984	0	0	0	0	0	0	0	0	0	0	0	0	18,984
	914-Pension and Benefits Load	72,116	0	0	0	0	0	0	0	0	0	0	0	0	72,116
	915-Injuries and Damages Load	15,761	0	0	0	0	0	0	0	0	0	0	0	0	15,761
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	17,794	0	0	0	0	0	0	0	0	0	0	0	0	17,794
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	103,882	0	0	0	0	0	0	0	0	0	0	0	0	103,882
	926-A and G Loads	38,053	0	0	0	0	0	0	0	0	0	0	0	0	38,053
	928-AFUDC Debt Reg	3,734	0	0	0	0	0	0	0	0	0	0	0	0	3,734
	929-AFUDC - Equity Regular	3,970	0	0	0	0	0	0	0	0	0	0	0	0	3,970
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	733,085	0	0	0	0	0	0	0	0	0	0	0	0	733,085
	825-Clearings	-735,046	0	0	0	0	0	0	0	0	0	0	0	0	-735,046
	Clr Sum	-735,046	0	0	0	0	0	0	0	0	0	0	0	0	-735,046
	Proj Net	-1,961	0	0	0	0	0	0	0	0	0	0	0	0	-1,961

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10001912	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	207,027	0	0	0	0	0	0	0	0	0	0	0	0	207,027
	120-Overtime-General	33,000	0	0	0	0	0	0	0	0	0	0	0	0	33,000
	350-Material Issues-Major	160,000	0	0	0	0	0	0	0	0	0	0	0	0	160,000
	370-Outside Services	60,295	0	0	0	0	0	0	0	0	0	0	0	0	60,295
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	700	0	0	0	0	0	0	0	0	0	0	0	0	700
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-2,230	0	0	0	0	0	0	0	0	0	0	0	0	-2,230
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	18,984	0	0	0	0	0	0	0	0	0	0	0	0	18,984
	914-Pension and Benefits Load	72,116	0	0	0	0	0	0	0	0	0	0	0	0	72,116
	915-Injuries and Damages Load	15,761	0	0	0	0	0	0	0	0	0	0	0	0	15,761
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	17,794	0	0	0	0	0	0	0	0	0	0	0	0	17,794
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	103,882	0	0	0	0	0	0	0	0	0	0	0	0	103,882
	926-A and G Loads	38,053	0	0	0	0	0	0	0	0	0	0	0	0	38,053
	928-AFUDC Debt Reg	3,734	0	0	0	0	0	0	0	0	0	0	0	0	3,734
	929-AFUDC - Equity Regular	3,970	0	0	0	0	0	0	0	0	0	0	0	0	3,970
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	733,085	0	0	0	0	0	0	0	0	0	0	0	0	733,085
	825-Clearings	-735,046	0	0	0	0	0	0	0	0	0	0	0	0	-735,046
	Clr Sum	-735,046	0	0	0	0	0	0	0	0	0	0	0	0	-735,046
	Proj Net	-1,961	0	0	0	0	0	0	0	0	0	0	0	0	-1,961

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Project No: 10002010 Four Hills 13 to Lawrence 14 Feeder Tie

Company: 001-Electric Services
Location: 100 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2014	<u>Estimated Completion Date</u>	10/31/2017
<u>List Interim In-Service Dates</u>	N/A		

Project Need Justification

The purpose of this project is to establish a new feeder tie which will enable Lawrence 14 to back up Four Hills 13. Presently, the single contingency plan for Four Hills Substation transfers 100% of Four Hills 11 and 100% of Four Hills 13 to Lawrence 12 after cascading away 92% of Lawrence 12 to Lawrence 11. This new feeder tie will create a one-to-one feeder backup configuration between Four Hills 13 and Lawrence 14, and between Four Hills 11 and Lawrence 12, thus reducing the restoration time during an outage by reducing the number of switching steps to back up each feeder. This new feeder tie will also allow Four Hills 13 to serve as an alternate backup source to a portion of the East Mountain area in the event of an outage on the 46kV ID line. Presently, Lawrence 14 is the only backup source for any of the East Mountain area during an outage of the radial 46kV ID line that serves the entire East Mountain Division. In the event of a loss of the radial ID line while the Lawrence Substation is out of service would result in an extended outage for the entire East Mountain Division. This feeder tie would then allow Four Hills 13 to serve as a backup source to a portion of the East Mountain area.

Project Alternatives

Two alternatives were considered: (1) the proposed feeder-tie, and (2) a do-nothing alternative. The do-nothing alternative was dismissed because it could result in PNM curtailing load to maintain the American National Standards Institute (ANSI) Range A voltage mandates. The proposed feeder-tie was selected because there are no other feeders in the surrounding area to separate the loads of Four Hills feeder 11 and Four Hills feeder 13. Therefore, the proposed feeder-tie is the most reliable and quickest restoration of power for our customers.

Technical Aspects

This project entails rebuilding a single-phase #2 Aluminum-Conductor Steel-Reinforced (ACSR) line on the Lawrence 14 feeder to a three-phase 570 amp minimum normally rated line beginning 1.35 miles east of Tramway Blvd along Interstate-40 (old U.S. Highway 66) and continuing south for approximately 3,200 ft. This project will also construct a new 570 amp minimum normally rated line from the south end of the first line going west approximately 1,500 ft. to its intersection with the 394 All Aluminum Alloy Conductor (AAAC) line on Four Hills 13. A new Supervisory Controlled And Data Acquisition switch (SCADA-Mate) in the normally open position will also be installed on this second new line.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10002010	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	7,838		0	0	0	0	0	0	7,838		
	120-Overtime-General	0		0	0	0	0	0	0	0		
	350-Material Issues-Major	9,044		0	0	0	0	0	0	9,044		
	370-Outside Services	170		0	0	0	0	0	0	170		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	0	0	0	0		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	588		0	0	0	0	0	0	588		
	914-Pension and Benefits Load	2,302		0	0	0	0	0	0	2,302		
	915-Injuries and Damages Load	595		0	0	0	0	0	0	595		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	168		0	0	0	0	0	0	168		
	922-Minor Material Load	543		0	0	0	0	0	0	543		
	925-E and S Loads	3,163		0	0	0	0	0	0	3,163		
	926-A and G Loads	1,586		0	0	0	0	0	0	1,586		
	928-AFUDC Debt Reg	1,413		70	70	71	71	71	72	1,838		
	929-AFUDC - Equity Regular	1,546		76	76	77	77	77	78	2,007		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	28,955		146	147	147	148	149	150	29,842		
	825-Clearings	0		0	0	0	0	0	0	0		
	Clr Sum	0		0	0	0	0	0	0	0		
Proj Net		28,955		146	147	147	148	149	150	29,842		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10002010	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	7,838	0	0	0	0	0	660	660	416	137	0	0	0	9,711
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	9,044	0	0	0	0	0	21,564	7,188	645	2,382	0	0	0	40,823
370-Outside Services	170	0	0	0	0	0	55,115	55,115	50,080	68,166	0	0	0	228,645
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	26	24	3	0	0	0	54
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	588	0	0	0	0	0	52	52	33	11	0	0	0	735
914-Pension and Benefits Load	2,302	0	0	0	0	0	180	180	113	37	0	0	0	2,813
915-Injuries and Damages Load	595	0	0	0	0	0	41	41	26	8	0	0	0	712
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	168	0	0	0	0	0	3,731	1,244	112	412	0	0	0	5,666
922-Minor Material Load	543	0	0	0	0	0	0	0	0	0	0	0	0	543
925-E and S Loads	3,163	0	0	0	0	0	14,901	12,146	9,857	13,583	0	0	0	53,650
926-A and G Loads	1,586	0	0	0	0	0	5,197	4,233	3,438	4,750	0	0	0	19,204
928-AFUDC Debt Reg	1,838	83	84	84	85	85	218	457	650	855	976	0	0	5,417
929-AFUDC - Equity Regular	2,007	109	110	111	111	112	286	600	852	1,121	1,281	0	0	6,701
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	29,842	193	194	195	196	198	101,945	81,942	66,245	91,466	2,257	0	0	374,674
825-Clearings	0	0	0	0	0	0	0	0	0	0	-376,842	0	0	-376,842
Clr Sum	0	0	0	0	0	0	0	0	0	0	-376,842	0	0	-376,842
Proj Net	29,842	193	194	195	196	198	101,945	81,942	66,245	91,466	-374,585	0	0	-2,168

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10002010	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	9,711	0	0	0	0	0	0	0	0	0	0	0	0	9,711	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	40,823	0	0	0	0	0	0	0	0	0	0	0	0	40,823	
370-Outside Services	228,645	0	0	0	0	0	0	0	0	0	0	0	0	228,645	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	54	0	0	0	0	0	0	0	0	0	0	0	0	54	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	735	0	0	0	0	0	0	0	0	0	0	0	0	735	
914-Pension and Benefits Load	2,813	0	0	0	0	0	0	0	0	0	0	0	0	2,813	
915-Injuries and Damages Load	712	0	0	0	0	0	0	0	0	0	0	0	0	712	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	5,666	0	0	0	0	0	0	0	0	0	0	0	0	5,666	
922-Minor Material Load	543	0	0	0	0	0	0	0	0	0	0	0	0	543	
925-E and S Loads	53,650	0	0	0	0	0	0	0	0	0	0	0	0	53,650	
926-A and G Loads	19,204	0	0	0	0	0	0	0	0	0	0	0	0	19,204	
928-AFUDC Debt Reg	5,417	0	0	0	0	0	0	0	0	0	0	0	0	5,417	
929-AFUDC - Equity Regular	6,701	0	0	0	0	0	0	0	0	0	0	0	0	6,701	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	374,674	0	0	0	0	0	0	0	0	0	0	0	0	374,674	
825-Clearings	-376,842	0	0	0	0	0	0	0	0	0	0	0	0	-376,842	
Clr Sum	-376,842	0	0	0	0	0	0	0	0	0	0	0	0	-376,842	
Proj Net	-2,168	0	0	0	0	0	0	0	0	0	0	0	0	-2,168	

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Project No: 10002416 Anchor Assemblies \$209,851 (\$26,029) \$209,851

Company: 001-Electric Services

Location: 100 Distribution

Project Information

Construction Start Date 1/1/2017

Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual work orders packets which are placed in service at various times throughout the year.

Project Need Justification

This project is for the replacement of failing pole anchoring assemblies. Pole anchors are installed at and below grade and are subject to rust and deteriorate over time. If not replaced, damaged poles can lean, causing wires to sag and create unsafe conditions for the general public.

Project Alternatives

Guying and anchoring are usually the lowest-cost option of resisting lateral loads on poles. An alternative is to use self-supporting steel poles, however these are much more expensive and only used when guying and anchoring are not feasible due to physical constraints or inability to obtain easements.

Technical Aspects

Anchor and guy assemblies are normally required on angle poles or the last pole structure of a system of overhead conductors and poles. The anchor and guy act as counter forces to the conductors which would otherwise bend or lean the pole in the direction of the attached conductors. Anchor assemblies include an anchor (a power installed helix) below grade attached to an anchor rod which provides an attachment point for the guy wires above grade. This is then attached to the upper part of the pole for which it is supporting.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10002416	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			796	1,447	918	851	566	555	5,133		
120-Overtime-General	0			557	716	297	331	214	438	2,554		
350-Material Issues-Major	0			1,466	563	390	467	390	255	3,532		
370-Outside Services	0			315	1,183	396	469	1,649	419	4,431		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			3	1	5	1	12	2	23		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			471	460	540	471	151	258	2,351		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			106	170	96	93	61	78	605		
914-Pension and Benefits Load	0			405	648	364	354	233	298	2,301		
915-Injuries and Damages Load	0			88	141	79	77	51	65	501		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			163	63	43	52	43	28	393		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			778	986	571	576	616	438	3,965		
926-A and G Loads	0			300	364	212	215	248	160	1,500		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			5,449	6,742	3,911	3,957	4,234	2,995	27,288		
825-Clearings	0			0	0	-8,050	0	0	-19,237	-27,288		
Clr Sum	0			0	0	-8,050	0	0	-19,237	-27,288		
Proj Net	0			5,449	6,742	-4,140	3,957	4,234	-16,242	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10002416	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	5,133	1,518	1,518	1,518	2,976	902	702	1,841	3,348	2,123	1,967	1,309	1,284	26,139
120-Overtime-General	2,554	670	670	670	1,633	384	210	1,288	1,656	688	767	494	1,013	12,697
350-Material Issues-Major	3,532	1,214	1,214	1,214	1,471	289	352	3,389	1,302	902	1,081	902	589	17,450
370-Outside Services	4,431	1,304	1,304	1,304	4,399	3,889	29	729	2,734	916	1,085	3,813	970	26,907
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	23	0	0	29	-2	0	15	17	7	31	5	80	15	221
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	2,351	618	618	618	1,539	417	180	1,090	1,063	1,248	1,087	350	596	11,774
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	605	172	172	172	361	101	71	245	392	220	214	141	180	3,047
914-Pension and Benefits Load	2,301	597	597	597	1,258	351	249	854	1,366	767	746	492	627	10,802
915-Injuries and Damages Load	501	136	136	136	287	80	57	195	311	175	170	112	143	2,439
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	393	210	210	210	254	50	61	586	225	156	187	156	102	2,800
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	3,965	1,196	1,196	1,202	2,673	1,231	358	1,852	2,338	1,358	1,368	1,477	1,040	21,253
926-A and G Loads	1,500	358	358	360	808	395	100	561	679	397	403	467	300	6,685
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	27,288	7,993	7,993	8,029	17,657	8,090	2,384	12,647	15,422	8,981	9,080	9,792	6,858	142,214
825-Clearings	-27,288	0	0	-5,084	-3,098	-4,783	-6,595	-3,957	-5,433	-19,778	-9,979	-7,036	-19,293	-112,323
Clr Sum	-27,288	0	0	-5,084	-3,098	-4,783	-6,595	-3,957	-5,433	-19,778	-9,979	-7,036	-19,293	-112,323
Proj Net	0	7,993	7,993	2,945	14,559	3,307	-4,211	8,690	9,989	-10,797	-898	2,756	-12,436	29,891

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10002416	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	26,139	1,330	1,026	2,384	1,400	735	572	1,500	2,728	1,730	1,604	1,065	1,047	43,262
120-Overtime-General	12,697	435	349	1,205	983	312	172	1,049	1,349	560	625	404	825	20,964
350-Material Issues-Major	17,450	1,158	412	1,811	788	235	288	2,762	1,062	735	881	735	481	28,796
370-Outside Services	26,907	2,851	3,255	339	330	3,169	25	593	2,228	746	884	3,107	790	45,223
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	221	23	-1	0	0	0	12	14	6	25	4	63	12	378
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	11,774	519	354	988	900	340	147	888	867	1,018	886	284	486	19,452
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	3,047	138	108	281	187	82	58	200	320	180	175	115	147	5,038
914-Pension and Benefits Load	10,802	482	375	980	650	286	203	696	1,113	625	608	401	511	17,731
915-Injuries and Damages Load	2,439	110	86	223	148	65	46	159	254	142	139	91	116	4,018
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	2,800	200	71	313	136	41	50	478	184	127	152	127	83	4,763
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	21,253	1,353	1,145	1,577	1,034	1,003	292	1,509	1,906	1,106	1,115	1,203	848	35,343
926-A and G Loads	6,685	424	363	452	296	322	82	457	554	323	328	380	245	10,911
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	142,214	9,024	7,544	10,553	6,852	6,591	1,947	10,304	12,569	7,316	7,400	7,976	5,590	235,880
825-Clearings	-112,323	-6,365	-7,873	-9,056	-3,435	-5,029	-6,841	-3,858	-5,061	-18,079	-8,940	-6,191	-16,800	-209,851
Clr Sum	-112,323	-6,365	-7,873	-9,056	-3,435	-5,029	-6,841	-3,858	-5,061	-18,079	-8,940	-6,191	-16,800	-209,851
Proj Net	29,891	2,659	-329	1,498	3,417	1,561	-4,894	6,446	7,508	-10,763	-1,540	1,786	-11,210	26,029

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Project No: 10002617 Bridge Reconstruction Project

Company: 001-Electric Services

Location: 100 Distribution

Project Information

Construction Start Date 10/24/2016

Estimated Completion Date 6/30/2017

List Interim In-Service Dates

- Enter Interim In Service Dates o Tower (phase 1) – 11/19/2016o Bridge/Tower/Old Coors Intersection –12/16/2016o Bridge (phase 1) – 02/17/2017o Bridge (phase 2) – 04/07/2017

Project Need Justification

This project involves the construction of new PNM electric facilities in Albuquerque along Tower Road SW between Coors Boulevard SW and Bridge Boulevard SW, and also facilities along Bridge Boulevard SW between Old Coors Drive SW and Goff Boulevard SW. This work is necessary as a result of Bernalillo County's Bridge Reconstruction Project. The Bridge Reconstruction Project will also include widening and reconfiguring existing sidewalks to meet current Americans with Disabilities Act (ADA) requirements, and the installation of new aluminum streetlights and traffic signals. The below summary indicates the costs of installation, removal of right-of-way impacted facilities and service center modifications necessary to complete the project: Labor \$650,000.00 Material \$550,000.00 Contract Services \$100,000.00 Other \$350,000.00TOTAL \$1,650,000Failure to complete this project by 04/07/2017 will result in liquidated damages handed down by the Bernalillo County government. PNM facilities are in conflict with Bernalillo County's design with regards to ADA clearances along with streetlight clearances governed by the National Electric Safety Code.

Project Alternatives

One alternative considered was building a new single phase lateral line on the north side of Bridge to eliminate crossings on street. However, due to the amount of new poles required on the north side and the added cost, this alternative was eliminated.

Technical Aspects

This project involves the design, purchase of power line poles, new PNM standard alley arms and new power line cable. This project will utilize existing road right of way (ROW). This project will also include the re-conductor of the existing power line cable along Tower and Bridge. Due to obsolete power line cable and how brittle the material is along Tower and Bridge, PNM will be installing new cable as well.

Project Estimate Approach

The estimated costs for the project is based on the three major cost categories for reconstruction along Bridge and Tower Boulevards: materials, man power and outside services (such as pole hole digging and customer service relocations). The City of Albuquerque Rapid Transit Project is a comparable project with the same type of construction that places existing poles with new 65 foot poles with alley arm construction, utilizing vacuum trucks for pole holes due to

existing underground utilities and customer service transfers. PNM looked at the average spend per 2000 foot phase and divided it by the average number of 65-foot poles used per 2000-foot phase. This gave an average cost of \$14,700 per pole. With approximately 70 poles to replace, this results in an estimated cost of \$1,029,000. The second portion of this project will be the re-conductor of existing power line cables on Tower and Bridge. There will be two types of new power line wires which will result in 30,000 feet of new cable with three overhead wires. This will add a total of \$145,000.00 worth of material and labor. The third portion of this project is the replacement of existing poles and road crossings on the North side of Bridge. There is a total of 50 service poles along the North side of Bridge feeding either residential or commercial customers. The average cost for a service pole with existing underground utilities is \$6,000. This will add a total of \$300,000 worth of material and labor. The remaining balance of \$176,000 will cover engineering, right of way agent, environmental time and Allowance for Funds Used During Construction (AFUDC). We also anticipate some overtime customer relocations which will be worked during non-standard hours to accommodate our customers.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10002617	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10002617	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	45,000	45,000	45,000	0	0	0	0	0	0	0	0	0	135,000
120-Overtime-General	0	13,000	13,000	13,000	0	0	0	0	0	0	0	0	0	39,000
350-Material Issues-Major	0	50,000	50,000	50,000	0	0	0	0	0	0	0	0	0	150,000
370-Outside Services	0	45,000	45,000	45,000	0	0	0	0	0	0	0	0	0	135,000
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	1,500	1,500	1,500	0	0	0	0	0	0	0	0	0	4,500
805-Land and Land Rights	0	1,500	1,500	1,500	0	0	0	0	0	0	0	0	0	4,500
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	4,547	4,547	4,547	0	0	0	0	0	0	0	0	0	13,642
914-Pension and Benefits Load	0	15,828	15,828	15,828	0	0	0	0	0	0	0	0	0	47,485
915-Injuries and Damages Load	0	3,608	3,608	3,608	0	0	0	0	0	0	0	0	0	10,823
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	8,650	8,650	8,650	0	0	0	0	0	0	0	0	0	25,950
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	34,269	34,269	34,269	0	0	0	0	0	0	0	0	0	102,806
926-A and G Loads	0	10,483	10,483	10,483	0	0	0	0	0	0	0	0	0	31,450
928-AFUDC Debt Reg	0	304	914	1,528	1,842	1,853	1,864	0	0	0	0	0	0	8,305
929-AFUDC - Equity Regular	0	399	1,199	2,005	2,416	2,430	2,445	0	0	0	0	0	0	10,893
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	234,088	235,499	236,918	4,257	4,283	4,309	0	0	0	0	0	0	719,353
825-Clearings	0	0	0	0	0	0	-719,353	0	0	0	0	0	0	-719,353
Clr Sum	0	0	0	0	0	0	-719,353	0	0	0	0	0	0	-719,353
Proj Net	0	234,088	235,499	236,918	4,257	4,283	-715,044	0	0	0	0	0	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10002617	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	135,000	0	0	0	0	0	0	0	0	0	0	0	0	135,000
	120-Overtime-General	39,000	0	0	0	0	0	0	0	0	0	0	0	0	39,000
	350-Material Issues-Major	150,000	0	0	0	0	0	0	0	0	0	0	0	0	150,000
	370-Outside Services	135,000	0	0	0	0	0	0	0	0	0	0	0	0	135,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	4,500	0	0	0	0	0	0	0	0	0	0	0	0	4,500
	805-Land and Land Rights	4,500	0	0	0	0	0	0	0	0	0	0	0	0	4,500
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	13,642	0	0	0	0	0	0	0	0	0	0	0	0	0	13,642
914-Pension and Benefits Load	47,485	0	0	0	0	0	0	0	0	0	0	0	0	0	47,485
915-Injuries and Damages Load	10,823	0	0	0	0	0	0	0	0	0	0	0	0	0	10,823
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	25,950	0	0	0	0	0	0	0	0	0	0	0	0	0	25,950
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	102,806	0	0	0	0	0	0	0	0	0	0	0	0	0	102,806
926-A and G Loads	31,450	0	0	0	0	0	0	0	0	0	0	0	0	0	31,450
928-AFUDC Debt Reg	8,305	0	0	0	0	0	0	0	0	0	0	0	0	0	8,305
929-AFUDC - Equity Regular	10,893	0	0	0	0	0	0	0	0	0	0	0	0	0	10,893
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	719,353	0	0	0	0	0	0	0	0	0	0	0	0	719,353
	825-Clearings	-719,353	0	0	0	0	0	0	0	0	0	0	0	0	-719,353
	Clr Sum	-719,353	0	0	0	0	0	0	0	0	0	0	0	0	-719,353
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 10032015 Small Cap Purch (Off Furn & Equip)

Company: 001-Electric Services
Location: 100 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual work orders packets which are placed in service at various times throughout the year.

Project Need Justification

Funds from this project are for the annual purchase and installation of smaller capital needs, including office furniture and equipment at the service center. No single purchase is expected to exceed \$10,000. These projects are grouped together for the purpose of streamlining approvals for smaller items.

Project Alternatives

The alternatives for this project would be to initiate individual capital development and approval processes (CDAPs) and establish a financial plan for each small item. This would be both time consuming and difficult to manage.

Technical Aspects

This project includes purchase of office furniture and equipment with no single purchase expected to exceed \$10,000.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	10032015	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	471			0	0	0	0	0	0	471		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	334			0	0	0	0	0	0	334		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	2,551			0	0	0	0	0	0	2,551		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	3,356			0	0	0	0	0	0	3,356		
825-Clearings	-34,011			0	0	0	0	0	0	-34,011		
Clr Sum	-34,011			0	0	0	0	0	0	-34,011		
Proj Net	-30,655			0	0	0	0	0	0	-30,655		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	10032015	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	15,000	0	0	15,000	0	0	15,000	0	5,000	0	50,000	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	471	0	0	34	67	69	100	138	69	101	139	147	164	1,499	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	334	0	0	0	0	0	0	0	0	0	0	0	0	334	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	2,551	0	0	1,008	0	0	1,008	0	0	1,008	0	336	0	5,911	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	3,356	0	0	16,042	67	69	16,108	138	69	16,109	139	5,483	164	57,744	
825-Clearings	-34,011	0	0	0	0	0	0	-16,212	0	0	0	0	-19,088	-69,311	
Clr Sum	-34,011	0	0	0	0	0	0	-16,212	0	0	0	0	-19,088	-69,311	
Proj Net	-30,655	0	0	16,042	67	69	16,108	-16,074	69	16,109	139	5,483	-18,924	-11,567	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	10032015	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	50,000	0	0	15,000	0	0	15,000	0	0	15,000	0	5,000	0	100,000	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	1,499	83	76	119	150	144	158	194	93	118	151	156	171	3,112	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	334	0	0	0	0	0	0	0	0	0	0	0	0	334	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	5,911	0	0	1,008	0	0	1,008	0	0	1,008	0	336	0	9,271	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	57,744	83	76	16,127	150	144	16,166	194	93	16,126	151	5,492	171	112,716	
825-Clearings	-69,311	0	0	0	0	0	0	-26,013	0	0	0	0	-48,047	-143,372	
Clr Sum	-69,311	0	0	0	0	0	0	-26,013	0	0	0	0	-48,047	-143,372	
Proj Net	-11,567	83	76	16,127	150	144	16,166	-25,820	93	16,126	151	5,492	-47,876	-30,655	

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Project No: 15001616 Silver City North Transformer

Company: 034-PNM TNMPNM Distribution
Location: 150 Distribution

Project Information

Construction Start Date 3/1/2016 Estimated Completion Date 10/31/2016

List Interim In-Service Dates

- Enter Interim In Service Dates o Energize 20mva Transformer – 09/06/2016o Transfer Load on 20mva Transformer –09/15/2016o Remove Mobile – 09/20/16o Transport to Texas – 09/27/2017 – 09/29/2016

Project Need Justification

In February 2016, the Silver City Substation North 20 Mega Volt Ampere (MVA) Transformer failed. Initial inspections show the source of the transformer's failure to be a de-energized tap changer. This transformer is a main source for Silver City and the surrounding areas, and leaves the area vulnerable to power loss if not repaired. With this transformer out of service, only one other source is available to support the area. Based on planning and operations standards, this is a violation of the organization's contingency criteria. The Distribution Planning and System Engineering group has recommended that the transformer be repaired. In the interim, a mobile transformer must be set in place of the failed transformer to support the load through summer peak.The purpose of this project is to request funding for these activities, in addition to the improvement of the yard and driveway to allow the mobile to be moved into the yard and to remove the failed unit. The work for the Silver City North failed transformer project is considered a replacement activity.

Project Alternatives

One alternative considered was purchasing a new 20 MVA transformer for the Silver City North substation. Due to high lead times and cost, this was not feasible and therefore eliminated as a alternative (the total cost for a new transformer alone was \$500,000).

Technical Aspects

Work for this project is divided into 3 areas:*Assessment Inspections (internal and outside services): This was done by researching the cause of the Silver City North 20 MVA transformer's failure. PNM personnel did internal inspections of the 20 MVA transformer and hired a specialized company to determine the issue(s). Once identified that the no-load tap changer was causing the issue, PNM researched the cost to purchase either a new and or used transformer. Due to the cost, lead times and dissimilar transformers in the market, PNM made the decision to hire a manufacturing company (ABB) to remove the transformer to be repaired at their manufacturing plant in St Louis. *Civil work needed for access to the Silver City North Substation: In order for ABB to safely access the transformer for removal and future installation, PNM hired an outside contractor to construct a better access road. In addition, funds were used to purchase a small portion of easement from a neighboring customer to allow for safe loading and off-loading the transformer and installation of the mobile transformer for contingency backup while the transformer was under repair.*Coordination with transformer manufacturer to refurbish the 20 MVA transformer: Our final step was contracting ABB to refurbish the 20 MVA transformer. This involved assessment and scope of what needed to be refurbished on the transformer and ABB

hauling the transformer from Silver City to their St Louis manufacturing plant for repair. The total repair time took an estimated 14 weeks, after which ABB tested the transformer to make certain the repairs done would ensure proper operating of the transformer. Once complete, the test results were reviewed and approved by PNM officials and ABB shipped the repaired transformer back to Silver City. Once back at Silver City, the transformer was energized and load was transferred from the mobile transformer.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15001616	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			3,487	22,050	22,050	0	0	0	47,587		
120-Overtime-General	0			0	5,500	5,500	0	0	0	11,000		
350-Material Issues-Major	0			12,000	12,000	10,000	0	0	0	34,000		
370-Outside Services	0			4,500	8,000	25,000	0	0	0	37,500		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-2,434	0	0	-2,434		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			274	2,168	2,168	0	0	0	4,611		
914-Pension and Benefits Load	0			1,044	8,248	8,248	0	0	0	17,541		
915-Injuries and Damages Load	0			227	1,796	1,796	0	0	0	3,820		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			1,844	1,844	1,537	0	0	0	5,226		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			3,984	11,056	13,831	0	0	0	28,871		
926-A and G Loads	0			1,663	3,956	5,204	0	0	0	10,823		
928-AFUDC Debt Reg	0			739	861	1,059	1,169	0	0	3,827		
929-AFUDC - Equity Regular	0			800	933	1,147	1,266	0	0	4,145		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			30,562	78,413	97,541	0	0	0	206,516		
825-Clearings	0			0	0	0	-519,676	0	0	-519,676		
Clr Sum	0			0	0	0	-519,676	0	0	-519,676		
Proj Net	0			30,562	78,413	97,541	-519,676	0	0	-313,160		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15001616	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	47,587	0	0	0	0	0	0	0	0	0	0	0	0	47,587
	120-Overtime-General	11,000	0	0	0	0	0	0	0	0	0	0	0	0	11,000
	350-Material Issues-Major	34,000	0	0	0	0	0	0	0	0	0	0	0	0	34,000
	370-Outside Services	37,500	0	0	0	0	0	0	0	0	0	0	0	0	37,500
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-2,434	0	0	0	0	0	0	0	0	0	0	0	0	-2,434
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	4,611	0	0	0	0	0	0	0	0	0	0	0	0	4,611
	914-Pension and Benefits Load	17,541	0	0	0	0	0	0	0	0	0	0	0	0	17,541
	915-Injuries and Damages Load	3,820	0	0	0	0	0	0	0	0	0	0	0	0	3,820
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	5,226	0	0	0	0	0	0	0	0	0	0	0	0	5,226
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	28,871	0	0	0	0	0	0	0	0	0	0	0	0	28,871
	926-A and G Loads	10,823	0	0	0	0	0	0	0	0	0	0	0	0	10,823
	928-AFUDC Debt Reg	3,827	0	0	0	0	0	0	0	0	0	0	0	0	3,827
	929-AFUDC - Equity Regular	4,145	0	0	0	0	0	0	0	0	0	0	0	0	4,145
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	206,516	0	0	0	0	0	0	0	0	0	0	0	0	206,516
	825-Clearings	-519,676	0	0	0	0	0	0	0	0	0	0	0	0	-519,676
	Clr Sum	-519,676	0	0	0	0	0	0	0	0	0	0	0	0	-519,676
	Proj Net	-313,160	0	0	0	0	0	0	0	0	0	0	0	0	-313,160

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15001616	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	47,587	0	0	0	0	0	0	0	0	0	0	0	0	47,587
	120-Overtime-General	11,000	0	0	0	0	0	0	0	0	0	0	0	0	11,000
	350-Material Issues-Major	34,000	0	0	0	0	0	0	0	0	0	0	0	0	34,000
	370-Outside Services	37,500	0	0	0	0	0	0	0	0	0	0	0	0	37,500
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-2,434	0	0	0	0	0	0	0	0	0	0	0	0	-2,434
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	4,611	0	0	0	0	0	0	0	0	0	0	0	0	4,611
	914-Pension and Benefits Load	17,541	0	0	0	0	0	0	0	0	0	0	0	0	17,541
	915-Injuries and Damages Load	3,820	0	0	0	0	0	0	0	0	0	0	0	0	3,820
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	5,226	0	0	0	0	0	0	0	0	0	0	0	0	5,226
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	28,871	0	0	0	0	0	0	0	0	0	0	0	0	28,871
	926-A and G Loads	10,823	0	0	0	0	0	0	0	0	0	0	0	0	10,823
	928-AFUDC Debt Reg	3,827	0	0	0	0	0	0	0	0	0	0	0	0	3,827
	929-AFUDC - Equity Regular	4,145	0	0	0	0	0	0	0	0	0	0	0	0	4,145
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	206,516	0	0	0	0	0	0	0	0	0	0	0	0	206,516
	825-Clearings	-519,676	0	0	0	0	0	0	0	0	0	0	0	0	-519,676
	Clr Sum	-519,676	0	0	0	0	0	0	0	0	0	0	0	0	-519,676
Proj Net		-313,160	0	0	0	0	0	0	0	0	0	0	0	0	-313,160

Project No: 15001814 Southern Microwave Comm Upgrade Co 34

Company: 034-PNM TNMPNM Distribution
Location: 150 Distribution

Project Information

Construction Start Date 3/2/2015 Estimated Completion Date 12/31/2016

List Interim In-Service Dates

Each WO is closed as completed, with an estimated 4 clearings per year.

Project Need Justification

This project involves replacement and enhancement of portions of the existing microwave system. In addition, this project also includes a blanket improvement authorization for capital replacements or betterments to the communications network in support of substations and switching stations. PNM's microwave system provides communications between substations and Control Centers, which allows operators the visibility they need of the system as well as the ability to operate equipment remotely as necessary. Typical work might include replacing radios, switches, antennas, or other components which are no longer supported by the manufacturer and for which parts are no longer available.

Project Alternatives

As the first alternative, PNM can continue using its current legacy radio system and risk a catastrophic failure. If this were to happen, no spares or technical support would be available to remedy the problem. Given the remote aspects and number of customers served by the Southern New Mexico System, loss of communications for an extended period of time is not an acceptable part of this alternative. As a second alternative, PNM can perform a complete replacement of the microwave communications system with another system. This is not recommended due to the fact that other systems are less reliable, significant costs will be incurred with a new system and the time to complete work would be greater than any other alternative.

Technical Aspects

Technical aspects are considered on a task by task basis, but might include improved communication network reliability, inclusion of work to meet new and existing North American Electric Reliability Corporation (NERC) requirements and the inclusion of new industry-standard technologies into the communications platform.

Project Estimate Approach

Cost estimates are prepared on a per task basis. Estimates typically include major equipment prices from vendor provided quotations in addition to minor materials and construction costs from work or competitive bids.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15001814	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	9,982	10,782	10,982	31,745		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	1,847	1,995	2,032	5,873		
926-A and G Loads	0			0	0	0	830	897	914	2,641		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	12,659	13,673	13,927	40,259		
825-Clearings	0			-327,130	0	0	0	0	-40,259	-367,389		
Clr Sum	0			-327,130	0	0	0	0	-40,259	-367,389		
Proj Net	0			-327,130	0	0	12,659	13,673	-26,332	-327,130		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15001814	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	31,745	0	0	0	0	0	0	0	0	0	0	0	0	31,745
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	5,873	0	0	0	0	0	0	0	0	0	0	0	0	5,873
	926-A and G Loads	2,641	0	0	0	0	0	0	0	0	0	0	0	0	2,641
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	40,259	0	0	0	0	0	0	0	0	0	0	0	0	40,259
	825-Clearings	-367,389	0	0	0	0	0	0	0	0	0	0	0	0	-367,389
	Clr Sum	-367,389	0	0	0	0	0	0	0	0	0	0	0	0	-367,389
	Proj Net	-327,130	0	0	0	0	0	0	0	0	0	0	0	0	-327,130

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15001814	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	31,745	0	0	0	0	0	0	0	0	0	0	0	0	31,745
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	5,873	0	0	0	0	0	0	0	0	0	0	0	0	5,873
	926-A and G Loads	2,641	0	0	0	0	0	0	0	0	0	0	0	0	2,641
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	40,259	0	0	0	0	0	0	0	0	0	0	0	0	40,259
	825-Clearings	-367,389	0	0	0	0	0	0	0	0	0	0	0	0	-367,389
	Clr Sum	-367,389	0	0	0	0	0	0	0	0	0	0	0	0	-367,389
	Proj Net	-327,130	0	0	0	0	0	0	0	0	0	0	0	0	-327,130

Project No: 15001816 Cliff Step Down Substation Rebuild

Company: 034-PNM TNMPNM Distribution
Location: 150 Distribution

Project Information

Construction Start Date 2/5/2018 Estimated Completion Date 12/31/2018

List Interim In-Service Dates
NA

Project Need Justification

This project is needed for the rebuild of the Cliff Step Down Substation built in 1966. The electrical equipment used in the construction of Substation, poles, timbers and wire busses have deteriorated over time now requiring several rebuilds.

Project Alternatives

The more expensive and time consuming alternative would involve replace existing electrical equipment and forcing customers into several 8 hour outages within the substation's line of service.

Technical Aspects

The project will build on the existing substation property a new step-down substation just North of the existing substation. The new Substation to be built with 2 - 4/0 underground three phase feeds, 2 - 1000KVA_ 24Kv/12.47KV pad mount transformers, pad mount SCADA controlled reclosers for each circuit and 2 - 4/0 underground risers out to circuits.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15001816	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Cir Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15001816	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	5,000	5,000	5,000	500	15,500
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	2,500	350	2,850
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	16	4,500	4,500	1,500	10,516
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	500	500	500	1,500
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	392	392	588	67	1,439
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	1,365	1,365	2,047	232	5,008
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	311	311	467	53	1,141
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	3	779	779	260	1,819
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	1,360	2,317	2,995	615	7,287
	926-A and G Loads	0	0	0	0	0	0	0	0	0	337	672	840	192	2,041
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	11	44	91	123	269
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	15	57	119	162	353
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	0	0	0	0	0	0	0	0	8,810	15,936	20,425	4,552	49,723
	825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	-9,945	-9,945
	Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	-9,945	-9,945
	Proj Net	0	0	0	0	0	0	0	0	0	8,810	15,936	20,425	-5,392	39,778

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15001816	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	15,500	1,500	15,000	15,000	15,000	10,000	10,000	0	0	0	0	0	0	82,000
120-Overtime-General	2,850	0	2,500	1,500	1,500	1,500	1,500	0	0	0	0	0	0	11,350
350-Material Issues-Major	10,516	0	55,000	55,000	50,000	55,000	25,000	0	0	0	0	0	0	250,516
370-Outside Services	0	2,500	1,500	1,500	1,500	61	2,000	0	0	0	0	0	0	9,061
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	1,500	6,500	5,500	5,500	6,500	3,500	2,500	0	0	0	0	0	0	31,500
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	1,439	118	1,372	1,294	1,294	902	902	0	0	0	0	0	0	7,319
914-Pension and Benefits Load	5,008	409	4,776	4,503	4,503	3,138	3,138	0	0	0	0	0	0	25,475
915-Injuries and Damages Load	1,141	93	1,089	1,026	1,026	715	715	0	0	0	0	0	0	5,806
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	1,819	0	9,515	9,515	8,650	9,515	4,325	0	0	0	0	0	0	43,339
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	7,287	2,135	16,653	16,382	15,614	14,365	8,785	0	0	0	0	0	0	81,221
926-A and G Loads	2,041	706	5,342	5,275	5,006	4,708	2,755	0	0	0	0	0	0	25,833
928-AFUDC Debt Reg	269	122	295	603	903	1,187	1,408	1,496	601	604	486	488	491	8,953
929-AFUDC - Equity Regular	353	110	266	544	814	1,070	1,269	1,348	542	545	438	440	442	8,181
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	49,723	14,193	118,809	117,642	112,310	105,661	64,298	2,844	1,143	1,149	924	928	933	590,556
825-Clearings	-9,945	0	0	0	0	0	0	-345,321	0	-46,501	0	0	-188,789	-590,556
Clr Sum	-9,945	0	0	0	0	0	0	-345,321	0	-46,501	0	0	-188,789	-590,556
Proj Net	39,778	14,193	118,809	117,642	112,310	105,661	64,298	-342,477	1,143	-45,352	924	928	-187,856	0

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Project No: 15002316 Bird Guard Reliability

Company: 001-Electric Services
Location: 150 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2017	<u>Estimated Completion Date</u>
<u>List Interim In-Service Dates</u>		

Project consists of many individual work orders packets which are placed in service at various times throughout the year.

Project Need Justification

This project provides for the installation of covers and guarding materials to prevent wildlife from making contact with energized distribution equipment. This helps reduce outages and increase reliability. Birds are one of the top ten causes of outages.

Project Alternatives

Protective covers for energized equipment is often the most economical means of preventing electrocution of birds and other animals preventing outages, especially in retrofit applications. Other means include changing pole construction type or using broader spanning cross arms, however these are generally more expensive options and can also include the need to acquiring additional right-of-way easements which can be expensive or not possible. Wider cross arms also do not eliminate the need for equipment covers.

Technical Aspects

This project provides for the installation of protective covers over insulators, wires and other equipment in areas prone to outages caused by bird or small animal electrocution.

Project Estimate Approach

This project spend forecast is prepared using historical spend from 2015 to 2016 on individual bird guarding projects and the forecasted Pure work that included bird guarding. Additionally, labor and non-labor cost components were escalated using annual expected cost increase percentages as supplied by the PNM Budget Office.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15002316	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			2,450	1,650	2,250	1,100	1,100	500	9,050		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			1,350	450	1,000	670	1,500	500	5,470		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			193	130	177	87	87	39	712		
914-Pension and Benefits Load	0			734	494	674	329	329	150	2,710		
915-Injuries and Damages Load	0			160	108	147	72	72	33	590		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			207	69	154	103	231	77	841		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			904	524	786	418	571	226	3,428		
926-A and G Loads	0			316	175	270	147	216	83	1,208		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			6,314	3,599	5,457	2,926	4,106	1,608	24,009		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			6,314	3,599	5,457	2,926	4,106	1,608	24,009		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15002316	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	9,050	3,000	9,000	11,000	11,000	16,000	11,000	13,000	12,750	12,000	14,500	11,000	6,500	139,800
120-Overtime-General	0	0	0	1,500	3,500	0	1,500	1,500	1,900	2,500	1,000	500	0	13,900
350-Material Issues-Major	5,470	1,500	1,000	1,500	2,500	2,600	1,000	1,500	5,000	5,000	2,500	500	2,500	32,570
370-Outside Services	0	0	0	0	950	8,500	8,500	8,500	13,500	12,500	15,200	0	0	67,650
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	500	500	2,500	4,500	500	3,500	6,500	12,000	1,500	2,500	3,500	500	38,500
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	712	235	706	980	1,137	1,254	980	1,137	1,149	1,137	1,215	902	510	12,053
914-Pension and Benefits Load	2,710	819	2,456	3,411	3,957	4,366	3,411	3,957	3,998	3,957	4,230	3,138	1,774	42,185
915-Injuries and Damages Load	590	187	560	778	902	995	778	902	911	902	964	715	404	9,587
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	841	260	173	260	433	450	173	260	865	865	433	87	433	5,529
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	3,428	1,198	2,731	4,160	5,462	6,569	5,888	7,103	9,832	7,583	8,085	3,889	2,340	68,269
926-A and G Loads	1,208	336	706	1,109	1,509	1,855	1,714	2,083	3,034	2,251	2,399	1,042	638	19,883
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	24,009	8,034	17,831	27,197	35,848	43,090	38,444	46,442	64,939	50,195	53,026	25,272	15,599	449,926
825-Clearings	0	0	0	-45,864	0	-62,401	0	-73,643	0	-94,389	0	-86,343	-101,942	-464,582
Clr Sum	0	0	0	-45,864	0	-62,401	0	-73,643	0	-94,389	0	-86,343	-101,942	-464,582
Proj Net	24,009	8,034	17,831	-18,666	35,848	-19,311	38,444	-27,202	64,939	-44,193	53,026	-61,071	-86,343	-14,656

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project 15002316	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	139,800	2,500	4,500	5,500	8,500	6,500	7,500	5,500	15,750	15,500	19,500	4,500	4,500	240,050
120-Overtime-General	13,900	0	0	2,500	3,500	500	2,500	1,500	1,800	500	1,500	500	0	28,700
350-Material Issues-Major	32,570	1,500	1,000	4,100	2,500	500	1,000	3,500	6,850	4,500	1,000	2,500	2,500	64,020
370-Outside Services	67,650	0	0	0	0	0	0	0	95	0	0	0	0	67,745
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	38,500	500	500	500	5,000	500	4,500	500	4,500	500	8,500	500	500	65,000
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	12,053	196	353	627	941	549	784	549	1,376	1,254	1,646	392	353	21,073
914-Pension and Benefits Load	42,185	682	1,228	2,183	3,275	1,910	2,729	1,910	4,789	4,366	5,731	1,365	1,228	73,582
915-Injuries and Damages Load	9,587	156	280	498	746	435	622	435	1,092	995	1,306	311	280	16,743
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	5,529	260	173	709	433	87	173	606	1,185	779	173	433	433	10,970
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	68,269	1,062	1,509	3,054	4,697	2,092	3,770	2,668	6,960	5,302	7,523	1,933	1,797	110,638
926-A and G Loads	19,883	302	403	847	1,310	538	1,042	739	1,948	1,411	2,050	538	504	31,515
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	449,926	7,158	9,946	20,518	30,902	13,610	24,620	17,907	46,346	35,108	48,929	12,971	12,095	730,035
825-Clearings	-464,582	0	0	-18,811	0	-31,662	0	-37,094	0	-59,274	0	-60,587	-72,681	-744,692
Clr Sum	-464,582	0	0	-18,811	0	-31,662	0	-37,094	0	-59,274	0	-60,587	-72,681	-744,692
Proj Net	-14,656	7,158	9,946	1,707	30,902	-18,051	24,620	-19,187	46,346	-24,166	48,929	-47,616	-60,587	-14,656

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Project No: 15002416 Anchor Assemblies

Company: 001-Electric Services
Location: 150 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual work orders packets which are placed in service at various times throughout the year.

Project Need Justification

This project is for the replacement of failing pole anchoring assemblies. Pole anchors are installed at and below grade and are subject to rust and deteriorate over time. If not replaced poles can lean and wires can sag creating unsafe conditions.

Project Alternatives

Pole guying and anchoring is usually the least cost means of resisting lateral loads on poles. An alternative is to use self supporting steel poles, however these are much more expensive and generally only used when guying and anchoring are not feasible due to physical constraints or inability to obtain easements for an anchor and guy.

Technical Aspects

Anchor and guy assemblies are normally required on angle poles or the last pole structure of a system of overhead conductors and poles. The anchor and guy counter the forces due to the conductors which would otherwise bend or lean the pole in the direction of the attached conductors. Anchor assemblies include an anchor (a power installed helix) below grade attached to an anchor rod which provides an attachment point for the guy wires above grade which in turn is attached to the upper part of the pole for which it is supporting.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15002416	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15002416	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	2,000	2,500	3,500	4,000	4,500	4,500	4,600	4,600	4,446	4,000	2,000	40,646
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	1,452	0	3,000	0	4,500	0	4,500	0	3,000	0	1,000	17,452
370-Outside Services	0	0	0	0	0	8	0	0	0	0	0	0	0	8
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	150	150	150	150	150	150	150	150	150	150	150	1,650
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	157	196	274	314	353	353	361	361	349	314	157	3,187
914-Pension and Benefits Load	0	0	546	682	955	1,092	1,228	1,228	1,255	1,255	1,213	1,092	546	11,092
915-Injuries and Damages Load	0	0	124	156	218	249	280	280	286	286	277	249	124	2,528
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	251	0	519	0	779	0	779	0	519	0	173	3,019
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	0	850	707	1,555	1,116	2,114	1,250	2,141	1,277	1,811	1,114	764	14,700
926-A and G Loads	0	0	242	178	447	279	615	312	622	319	510	279	212	4,016
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	0	5,773	4,569	10,618	7,207	14,518	8,073	14,693	8,249	12,275	7,197	5,125	98,298
825-Clearings	0	0	-2,886	0	-9,037	0	-15,381	0	-19,074	0	-19,799	0	-32,121	-98,298
Clr Sum	0	0	-2,886	0	-9,037	0	-15,381	0	-19,074	0	-19,799	0	-32,121	-98,298
Proj Net	0	0	2,886	4,569	1,581	7,207	-863	8,073	-4,380	8,249	-7,524	7,197	-26,996	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15002416	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	40,646	0	2,000	1,000	4,500	4,000	4,500	4,000	4,500	3,500	3,000	1,980	1,000	74,626
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	17,452	0	950	0	2,500	0	3,000	0	2,000	0	2,000	0	1,000	28,902
370-Outside Services	8	0	0	0	0	8	0	0	0	0	0	0	0	16
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	1,650	0	150	150	150	150	150	150	150	150	150	150	150	3,300
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	3,187	0	157	78	353	314	353	314	353	274	235	155	78	5,851
914-Pension and Benefits Load	11,092	0	546	273	1,228	1,092	1,228	1,092	1,228	955	819	540	273	20,365
915-Injuries and Damages Load	2,528	0	124	62	280	249	280	249	280	218	187	123	62	4,642
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	3,019	0	164	0	433	0	519	0	346	0	346	0	173	5,000
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	14,700	0	754	300	1,730	1,116	1,826	1,114	1,634	979	1,227	566	492	26,439
926-A and G Loads	4,016	0	208	77	480	279	514	279	447	245	346	143	144	7,180
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	98,298	0	5,054	1,941	11,654	7,207	12,370	7,197	10,938	6,321	8,310	3,658	3,373	176,321
825-Clearings	-98,298	0	-2,527	0	-8,061	0	-13,819	0	-15,977	0	-15,304	0	-22,335	-176,321
Clr Sum	-98,298	0	-2,527	0	-8,061	0	-13,819	0	-15,977	0	-15,304	0	-22,335	-176,321
Proj Net	0	0	2,527	1,941	3,593	7,207	-1,449	7,197	-5,039	6,321	-6,994	3,658	-18,962	0

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Project No: 15003019 Lordsburg Substation Improvements

Company: 034-PNM TNMPNM Distribution
Location: 150 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date 12/31/2017

List Interim In-Service Dates
na

Project Need Justification

This project involves relocating the existing North transformer to the spare bay on the 69kV bus system in order to separate it from the common high voltage bus that it shares with the South transformer. This project is needed in order to avoid the risk of a total outage for the town of Lordsburg customers if repairs on the 69kV bus. is required. Currently any repairs on the 69kV bus requires both transformers to be taken offline which allows for no backup capacity for the entire town.

Project Alternatives

This is the only viable solution. The other alternative is to do nothing, which increases the risk of extended power outages for the entire town of Lordsburg customers due to the lack of backup capacity during repair on the common bus for the two transformers.

Technical Aspects

To separate the two transformers from the common high voltage bus, the spare bay in the existing 69kV bus system will be reconfigured by adding new bus, a new 69kV gas breaker with electronic relay for protection, and a new switch for the relocated North transformer.

Project Estimate Approach

na

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15003019	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Cir Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15003019	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	2,205	1,063	1,853	2,660	3,648	3,321	6,312	3,860	4,411	5,730	3,789	5,086	43,938
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	219	0	0	90,672	26,420	34,239	30,206	22,058	8,176	19,726	39,314	3,292	274,322
370-Outside Services	0	0	6,970	4,516	12,578	3,423	1,441	2,838	15,011	17,083	20,303	21,722	6,734	112,619
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	173	83	145	209	286	260	495	303	346	449	297	399	3,445
914-Pension and Benefits Load	0	602	290	506	726	996	906	1,723	1,053	1,204	1,564	1,034	1,388	11,991
915-Injuries and Damages Load	0	137	66	115	165	227	207	393	240	274	356	236	316	2,733
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	38	0	0	15,686	4,571	5,923	5,226	3,816	1,414	3,413	6,801	570	47,458
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	640	1,627	1,370	20,546	6,720	7,752	8,057	8,165	6,047	9,241	12,747	3,305	86,217
926-A and G Loads	0	163	540	428	7,117	2,251	2,621	2,645	2,750	1,994	3,075	4,356	1,016	28,955
928-AFUDC Debt Reg	0	5	25	50	258	519	659	813	968	1,101	1,245	1,453	1,608	8,706
929-AFUDC - Equity Regular	0	7	33	66	339	681	865	1,066	1,269	1,445	1,633	1,906	2,110	11,419
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	4,190	10,696	9,050	150,956	49,741	58,195	59,773	59,493	43,495	66,734	93,656	25,823	631,802
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	-631,802	-631,802
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	-631,802	-631,802
Proj Net	0	4,190	10,696	9,050	150,956	49,741	58,195	59,773	59,493	43,495	66,734	93,656	-605,978	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15003019	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	43,938	0	0	0	0	0	0	0	0	0	0	0	0	43,938
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	274,322	0	0	0	0	0	0	0	0	0	0	0	0	274,322
	370-Outside Services	112,619	0	0	0	0	0	0	0	0	0	0	0	0	112,619
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	3,445	0	0	0	0	0	0	0	0	0	0	0	0	3,445
	914-Pension and Benefits Load	11,991	0	0	0	0	0	0	0	0	0	0	0	0	11,991
	915-Injuries and Damages Load	2,733	0	0	0	0	0	0	0	0	0	0	0	0	2,733
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	47,458	0	0	0	0	0	0	0	0	0	0	0	0	47,458
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	86,217	0	0	0	0	0	0	0	0	0	0	0	0	86,217
	926-A and G Loads	28,955	0	0	0	0	0	0	0	0	0	0	0	0	28,955
	928-AFUDC Debt Reg	8,706	0	0	0	0	0	0	0	0	0	0	0	0	8,706
	929-AFUDC - Equity Regular	11,419	0	0	0	0	0	0	0	0	0	0	0	0	11,419
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	631,802	0	0	0	0	0	0	0	0	0	0	0	0	631,802
	825-Clearings	-631,802	0	0	0	0	0	0	0	0	0	0	0	0	-631,802
	Clr Sum	-631,802	0	0	0	0	0	0	0	0	0	0	0	0	-631,802
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 15030515 General Services' Building Improvement Blanket

Company: 034-PNM TNMPNM Distribution
Location: 150 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2015	<u>Estimated Completion Date</u>
<u>List Interim In-Service Dates</u>	N/A	

Project Need Justification

This project is for building improvement projects for PNM Transmission and Distribution that will be identified as breakdown maintenance or equipment failure occurs. These funds are used for replacement of systems such as HVAC, plumbing, roofing, electrical, and pavement as their useful life is completed and parts are not obtainable. Upon identification of an issue, each individual project will be requested through the Capital Development and Approval (CDAP) process and an individual project number will be assigned. The budgeted funds will be used solely for outside contract labor and the equipment being replaced. If the systems are not replaced, issues like deterioration of the building, uncomfortable working conditions or occupants, and safety hazards could arise. For these projects, all funds will be used to replace the system.

Project Alternatives

When breakdowns occur, subject matter experts including PNM employees and management in the respective area, the General Services' manager, Building Maintenance supervisor, and a licensed contractor would collaborate to determine if the system can be repaired or needs replacement. If it is deemed that a repair is not feasible all potential solutions for the replacement will be evaluated .

Technical Aspects

The technical aspects are unique to the type of project and would be identified at the time of the system failure and decision to replace. The solution and associated costs for the labor, equipment, etc., would need to be justified during the CDAP process.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15030515	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15030515	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	25,000	0	0	25,000	0	0	0	0	50,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	0	0	0	0	0	1,680	0	0	1,680	0	0	0	0	3,360
	928-AFUDC Debt Reg	0	0	0	0	0	35	70	70	105	141	0	0	0	421
	929-AFUDC - Equity Regular	0	0	0	0	0	46	91	92	138	185	0	0	0	552
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	0	0	0	0	26,760	161	162	26,924	325	0	0	0	54,333
	825-Clearings	0	0	0	0	0	0	0	0	0	-54,333	0	0	0	-54,333
	Clr Sum	0	0	0	0	0	0	0	0	0	-54,333	0	0	0	-54,333
Proj Net		0	0	0	0	0	26,760	161	162	26,924	-54,007	0	0	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15030515	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	50,000	0	0	0	0	25,000	0	0	25,000	0	0	0	0	100,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	3,360	0	0	0	0	1,680	0	0	1,680	0	0	0	0	6,720
	928-AFUDC Debt Reg	421	0	0	0	0	35	70	70	105	141	0	0	0	842
	929-AFUDC - Equity Regular	552	0	0	0	0	31	63	63	95	127	0	0	0	932
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	54,333	0	0	0	0	26,746	133	133	26,880	268	0	0	0	108,493
	825-Clearings	-54,333	0	0	0	0	0	0	0	0	-54,161	0	0	0	-108,493
	Clr Sum	-54,333	0	0	0	0	0	0	0	0	-54,161	0	0	0	-108,493
Proj Net		0	0	0	0	0	26,746	133	133	26,880	-53,893	0	0	0	0

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Company: 034-PNM TNMPNM Distribution
Location: 151 Distribution

<u>Construction Start Date</u>	2/15/2017	<u>Estimated Completion Date</u>	12/31/2017
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Project Need Justification

Project Alternatives

Technical Aspects

Project Estimate Approach

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15101817	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15101817	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	1,125	0	1,230	0	0	1,245	0	0	0	0	3,600	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	26,449	0	28,120	0	0	28,000	0	0	0	0	82,569	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	88	0	96	0	0	98	0	0	0	0	282	
914-Pension and Benefits Load	0	0	0	307	0	336	0	0	340	0	0	0	0	982	
915-Injuries and Damages Load	0	0	0	70	0	77	0	0	77	0	0	0	0	224	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	4,576	0	4,865	0	0	4,844	0	0	0	0	14,284	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	5,384	0	5,733	0	0	5,714	0	0	0	0	16,830	
926-A and G Loads	0	0	0	1,853	0	1,972	0	0	1,965	0	0	0	0	5,791	
928-AFUDC Debt Reg	0	0	0	52	104	160	216	218	274	331	183	184	185	1,908	
929-AFUDC - Equity Regular	0	0	0	68	137	210	284	286	360	434	240	242	243	2,502	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	39,971	241	42,799	500	503	42,917	765	423	426	428	128,973	
825-Clearings	0	0	0	0	0	0	0	0	0	-57,463	0	0	-71,510	-128,973	
Clr Sum	0	0	0	0	0	0	0	0	0	-57,463	0	0	-71,510	-128,973	
Proj Net	0	0	0	39,971	241	42,799	500	503	42,917	-56,698	423	426	-71,082	0	

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15101817	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	3,600	0	0	0	0	0	0	0	0	0	0	0	0	3,600	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	82,569	0	0	0	0	0	0	0	0	0	0	0	0	82,569	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	282	0	0	0	0	0	0	0	0	0	0	0	0	282	
914-Pension and Benefits Load	982	0	0	0	0	0	0	0	0	0	0	0	0	982	
915-Injuries and Damages Load	224	0	0	0	0	0	0	0	0	0	0	0	0	224	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	14,284	0	0	0	0	0	0	0	0	0	0	0	0	14,284	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	16,830	0	0	0	0	0	0	0	0	0	0	0	0	16,830	
926-A and G Loads	5,791	0	0	0	0	0	0	0	0	0	0	0	0	5,791	
928-AFUDC Debt Reg	1,908	0	0	0	0	0	0	0	0	0	0	0	0	1,908	
929-AFUDC - Equity Regular	2,502	0	0	0	0	0	0	0	0	0	0	0	0	2,502	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	128,973	0	0	0	0	0	0	0	0	0	0	0	0	128,973	
825-Clearings	-128,973	0	0	0	0	0	0	0	0	0	0	0	0	-128,973	
Clr Sum	-128,973	0	0	0	0	0	0	0	0	0	0	0	0	-128,973	
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15101817	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15101817	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	1,125	0	1,230	0	0	1,245	0	0	0	0	3,600	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	26,449	0	28,120	0	0	28,000	0	0	0	0	82,569	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	88	0	96	0	0	98	0	0	0	0	282	
914-Pension and Benefits Load	0	0	0	307	0	336	0	0	340	0	0	0	0	982	
915-Injuries and Damages Load	0	0	0	70	0	77	0	0	77	0	0	0	0	224	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	4,576	0	4,865	0	0	4,844	0	0	0	0	14,284	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	5,384	0	5,733	0	0	5,714	0	0	0	0	16,830	
926-A and G Loads	0	0	0	1,853	0	1,972	0	0	1,965	0	0	0	0	5,791	
928-AFUDC Debt Reg	0	0	0	52	104	160	216	218	274	331	183	184	185	1,908	
929-AFUDC - Equity Regular	0	0	0	68	137	210	284	286	360	434	240	242	243	2,502	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	39,971	241	42,799	500	503	42,917	765	423	426	428	128,973	
825-Clearings	0	0	0	0	0	0	0	0	0	-57,463	0	0	-71,510	-128,973	
Clr Sum	0	0	0	0	0	0	0	0	0	-57,463	0	0	-71,510	-128,973	
Proj Net	0	0	0	39,971	241	42,799	500	503	42,917	-56,698	423	426	-71,082	0	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15101817	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	3,600	0	0	0	0	0	0	0	0	0	0	0	0	3,600
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	82,569	0	0	0	0	0	0	0	0	0	0	0	0	82,569
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	282	0	0	0	0	0	0	0	0	0	0	0	0	282
	914-Pension and Benefits Load	982	0	0	0	0	0	0	0	0	0	0	0	0	982
	915-Injuries and Damages Load	224	0	0	0	0	0	0	0	0	0	0	0	0	224
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	14,284	0	0	0	0	0	0	0	0	0	0	0	0	14,284
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	16,830	0	0	0	0	0	0	0	0	0	0	0	0	16,830
	926-A and G Loads	5,791	0	0	0	0	0	0	0	0	0	0	0	0	5,791
	928-AFUDC Debt Reg	1,908	0	0	0	0	0	0	0	0	0	0	0	0	1,908
	929-AFUDC - Equity Regular	2,502	0	0	0	0	0	0	0	0	0	0	0	0	2,502
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	128,973	0	0	0	0	0	0	0	0	0	0	0	0	128,973
	825-Clearings	-128,973	0	0	0	0	0	0	0	0	0	0	0	0	-128,973
	Clr Sum	-128,973	0	0	0	0	0	0	0	0	0	0	0	0	-128,973
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 15101917 GOLB Switch Replacement 12 units

Company: 034-PNM TNMPNM Distribution
Location: 151 Distribution

Project Information

Construction Start Date 3/1/2017 Estimated Completion Date 12/31/2017

List Interim In-Service Dates
April 1, 2017August 1, 2017December 1, 2017

Project Need Justification

This project will continue system reliability improvements that is needed to provide protection and a safe environment during circuit isolation and line trouble shooting work in the Tularosa and Alamogordo area. The existing Gang Operated Load Break (GOLB) switches currently in place are deteriorating and are used to open and close when the lines are energized during trouble work to do line switching, including sectionalizing and feeder switching. Failure to replace these worn out switches could negatively pose hazards to line workers considering the poor condition they are in. The replacement of new GOLB switches will provide a high-performance no external-arc circuit interruption reducing hazards and making it safe for linemen. The goal of the system improvement to replace with new switches is to maintain adequate, safe and reliable service limiting exposure for equipment outages. Funds for the project will be a allocated toward material purchase that includes 12 distribution GOLB switch units, labor to install and energize the facility, wire, cable and other material.

Project Alternatives

One alternative considered was to replace and change the existing GOLB switches with SCADA control. Installing SCADA control units are found to be twice more expensive which would increase the project’s cost significantly and thus was not a viable option due to its high expense. The other alternative considered was to do nothing and leave the switches as they are not replace them. This would continue to pose hazards considering the poor condition the switch equipment are currently in.

Technical Aspects

This project involves identifying the location and status of the distribution GOLB switches to be replaced, design, purchase of the equipment, and installation of the units on three phase overhead lines. This will include pole replacement if necessary to meet NESC clearances.

Project Estimate Approach

The estimated cost for the replacement of the distribution Gang Operated Load Break (GOLB) switches are based on design, material and labor. Site visits to each GOLB location was needed to determine the status of the switches. Next was to develop a design for the project which determined the necessary parts needed and amount of labor for each unit installed. The design of the project provides an estimate for 12 GOLB switches to be replaced. The list of material needed of each unit was obtained using PNM standards parts list requirement for GOLB switch, and the price of the each unit were obtained through a catalog. The overall labor cost is based upon estimates and recent work that PNM has performed over years of similar size and scope.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15101917	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15101917	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	1,658	1,455	1,445	1,510	1,960	1,065	1,065	865	1,065	1,065	842	865	14,860
120-Overtime-General	0	32	56	61	65	65	65	65	65	65	65	46	35	685
350-Material Issues-Major	0	9,560	9,560	8,900	8,560	8,560	8,560	8,560	8,560	8,560	8,560	8,560	8,560	105,060
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	132	118	118	123	159	89	89	73	89	89	70	71	1,219
914-Pension and Benefits Load	0	461	412	411	430	553	308	308	254	308	308	242	246	4,242
915-Injuries and Damages Load	0	105	94	94	98	126	70	70	58	70	70	55	56	967
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	1,654	1,654	1,540	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	18,175
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	2,294	2,246	2,118	2,071	2,193	1,950	1,950	1,896	1,950	1,950	1,885	1,888	24,390
926-A and G Loads	0	756	744	699	681	711	651	651	638	651	651	635	636	8,105
928-AFUDC Debt Reg	0	22	65	107	147	188	228	267	305	343	383	422	460	2,935
929-AFUDC - Equity Regular	0	28	85	140	193	246	299	350	400	451	502	553	603	3,850
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	16,703	16,489	15,632	15,359	16,242	14,767	14,856	14,594	15,033	15,124	14,790	14,900	184,489
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	-184,489	-184,489
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	-184,489	-184,489
Proj Net	0	16,703	16,489	15,632	15,359	16,242	14,767	14,856	14,594	15,033	15,124	14,790	-169,589	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15101917	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	14,860	0	0	0	0	0	0	0	0	0	0	0	0	14,860
	120-Overtime-General	685	0	0	0	0	0	0	0	0	0	0	0	0	685
	350-Material Issues-Major	105,060	0	0	0	0	0	0	0	0	0	0	0	0	105,060
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,219	0	0	0	0	0	0	0	0	0	0	0	0	1,219
	914-Pension and Benefits Load	4,242	0	0	0	0	0	0	0	0	0	0	0	0	4,242
	915-Injuries and Damages Load	967	0	0	0	0	0	0	0	0	0	0	0	0	967
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	18,175	0	0	0	0	0	0	0	0	0	0	0	0	18,175
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	24,390	0	0	0	0	0	0	0	0	0	0	0	0	24,390
	926-A and G Loads	8,105	0	0	0	0	0	0	0	0	0	0	0	0	8,105
	928-AFUDC Debt Reg	2,935	0	0	0	0	0	0	0	0	0	0	0	0	2,935
	929-AFUDC - Equity Regular	3,850	0	0	0	0	0	0	0	0	0	0	0	0	3,850
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	184,489	0	0	0	0	0	0	0	0	0	0	0	0	184,489
	825-Clearings	-184,489	0	0	0	0	0	0	0	0	0	0	0	0	-184,489
	Clr Sum	-184,489	0	0	0	0	0	0	0	0	0	0	0	0	-184,489
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 15201613 Ruidoso White Mountain Subdivision

Company: 034-PNM TNMPNM Distribution
Location: 152 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date 12/31/2017

List Interim In-Service Dates

Upon completion of project.

Project Need Justification

This project will replace the deteriorated underground conductor that provides electrical power to the White Mountain subdivision. After the neighborhood experienced several reliability problems, analysis identified the conductor as the primary cause of the issues and that replacement was determined to be the best option to restore reliable service to the neighborhood. The project funds will cover internal and external labor and the material required to complete the project.

Project Alternatives

The deteriorated cable was evaluated and it was determined that the only options were to either repair or replace the cable, doing nothing was not an option. One option that was considered was to inject a substance to improve the integrity of the insulation materials and extend the life of the cable. This technique has its shortcomings as it does not address potential problems with cable splices made during installation or the ends of the cable where terminating equipment is installed. Therefore, the best solution for this issue is to perform a cable replacement as described in the justification.

Technical Aspects

The project is to install new underground conduit and conductors between transformers along the street access in the White Mountain Subdivision.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15201613	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15201613	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	0	2,000	2,000	0	2,000	2,000	0	0	0	0	0	8,000
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	35,000	21,500	0	10,000	20,500	0	0	0	0	0	87,000
370-Outside Services	0	0	0	110,000	100,500	0	15,660	86,940	0	0	0	0	0	313,100
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	15,000	5,500	0	15,000	5,000	4,500	0	0	0	0	45,000
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	0	157	157	0	157	157	0	0	0	0	0	627
914-Pension and Benefits Load	0	0	0	546	546	0	546	546	0	0	0	0	0	2,183
915-Injuries and Damages Load	0	0	0	124	124	0	124	124	0	0	0	0	0	498
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	6,055	3,720	0	1,730	3,547	0	0	0	0	0	15,051
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	0	0	28,383	23,967	0	5,470	21,171	0	0	0	0	0	78,990
926-A and G Loads	0	0	0	10,886	8,702	0	2,867	7,690	302	0	0	0	0	30,448
928-AFUDC Debt Reg	0	0	0	271	761	983	564	830	1,034	1,046	789	794	799	7,874
929-AFUDC - Equity Regular	0	0	0	356	999	1,290	740	1,089	1,356	1,372	1,036	1,042	1,048	10,328
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	0	0	208,778	168,476	2,273	54,858	149,594	7,192	2,419	1,825	1,836	1,847	599,099
825-Clearings	0	0	0	0	0	-189,764	0	0	0	-100,957	0	0	-308,378	-599,099
Clr Sum	0	0	0	0	0	-189,764	0	0	0	-100,957	0	0	-308,378	-599,099
Proj Net	0	0	0	208,778	168,476	-187,491	54,858	149,594	7,192	-98,538	1,825	1,836	-306,531	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15201613	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	8,000	0	0	0	0	0	0	0	0	0	0	0	0	8,000
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	87,000	0	0	0	0	0	0	0	0	0	0	0	0	87,000
	370-Outside Services	313,100	0	0	0	0	0	0	0	0	0	0	0	0	313,100
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	45,000	0	0	0	0	0	0	0	0	0	0	0	0	45,000
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	627	0	0	0	0	0	0	0	0	0	0	0	0	627
	914-Pension and Benefits Load	2,183	0	0	0	0	0	0	0	0	0	0	0	0	2,183
	915-Injuries and Damages Load	498	0	0	0	0	0	0	0	0	0	0	0	0	498
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	15,051	0	0	0	0	0	0	0	0	0	0	0	0	15,051
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	78,990	0	0	0	0	0	0	0	0	0	0	0	0	78,990
	926-A and G Loads	30,448	0	0	0	0	0	0	0	0	0	0	0	0	30,448
	928-AFUDC Debt Reg	7,874	0	0	0	0	0	0	0	0	0	0	0	0	7,874
	929-AFUDC - Equity Regular	10,328	0	0	0	0	0	0	0	0	0	0	0	0	10,328
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	599,099	0	0	0	0	0	0	0	0	0	0	0	0	599,099
	825-Clearings	-599,099	0	0	0	0	0	0	0	0	0	0	0	0	-599,099
	Clr Sum	-599,099	0	0	0	0	0	0	0	0	0	0	0	0	-599,099
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 15501617 Aklin Hill Distribution Line Relocation

Company: 034-PNM TNMPNM Distribution

Location: 155 Distribution

Project Information

Construction Start Date 1/1/2018 Estimated Completion Date 10/31/2018

List Interim In-Service Dates

Project Need Justification

This project is for the relocation of a portion of Distribution Feeder MD #12's main three phase line built along Highway 152 and located in an inaccessible area, going from Aklin Hill to intersection with Highway 35. The portion of line is inaccessible to construction vehicles required for the change out of deteriorated line equipment found on line patrol. An outage of over 24 hours would occur for customers in the area should the equipment fail. The new portion of distribution line is to be built close to and running parallel to Highway 152, and in a more accessible area.

Project Alternatives

There are no other alternatives to this project. Inaction would result in unnecessary outages to customers, including the Mimbres area and the Gila National Forest Visitors Center.

Technical Aspects

This project requires building 11,200 feet of new three-phase line with 1/0ACSR conductor on 34 self-supporting steel poles. Work will follow closely along Highway 152, starting at the top of Aklin Hill at pole BE9D012, going East down steep grade to Highway 35 and then North to follow Highway 35 for 1,100 feet. There, it will intercept the existing distribution line at pole CE9D063.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	15501617	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	15501617	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	5,000	7,500	7,500	4,500	4,500	5,000	7,600	41,600	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	20,000	20,000	40,000	80,000	
370-Outside Services	0	0	0	0	0	0	0	1,500	1,500	2,500	0	0	24	5,524	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	1,000	500	1,000	500	500	500	4,000	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	392	588	588	353	353	392	596	3,261	
914-Pension and Benefits Load	0	0	0	0	0	0	1,365	2,047	2,047	1,228	1,228	1,365	2,074	11,353	
915-Injuries and Damages Load	0	0	0	0	0	0	311	467	467	280	280	311	473	2,588	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	3,460	3,460	6,920	13,840	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	1,357	2,515	2,419	1,893	5,157	5,293	9,843	28,479	
926-A and G Loads	0	0	0	0	0	0	336	672	638	538	1,680	1,714	3,234	8,812	
928-AFUDC Debt Reg	0	0	0	0	0	0	11	44	86	123	188	287	431	1,172	
929-AFUDC - Equity Regular	0	0	0	0	0	0	15	58	113	161	247	377	566	1,537	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	0	0	0	8,787	16,391	15,858	12,576	37,593	38,698	72,261	202,164	
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	-50,541	-50,541	
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	-50,541	-50,541	
Proj Net	0	0	0	0	0	0	8,787	16,391	15,858	12,576	37,593	38,698	21,720	151,623	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	15501617	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	41,600	4,000	15,000	15,000	30,000	29,000	7,500	0	0	0	0	0	0	142,100	
120-Overtime-General	0	0	0	0	2,500	1,500	1,400	0	0	0	0	0	0	5,400	
350-Material Issues-Major	80,000	50,000	25,000	15,000	10,000	5,000	4,300	0	0	0	0	0	0	189,300	
370-Outside Services	5,524	10,000	15,000	15,000	0	87	0	0	0	0	0	0	0	45,611	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	4,000	1,500	1,500	10,000	12,000	9,500	0	0	0	0	0	0	0	38,500	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	3,261	314	1,176	1,176	2,548	2,391	698	0	0	0	0	0	0	11,564	
914-Pension and Benefits Load	11,353	1,092	4,094	4,094	8,869	8,323	2,429	0	0	0	0	0	0	40,253	
915-Injuries and Damages Load	2,588	249	933	933	2,022	1,897	554	0	0	0	0	0	0	9,175	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	13,840	8,650	4,325	2,595	1,730	865	744	0	0	0	0	0	0	32,749	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	28,479	12,894	12,039	11,751	13,044	11,078	3,241	0	0	0	0	0	0	92,525	
926-A and G Loads	8,812	4,402	3,797	3,696	3,662	3,030	887	0	0	0	0	0	0	28,285	
928-AFUDC Debt Reg	1,172	518	750	965	1,186	1,400	1,530	1,566	551	554	556	0	0	10,747	
929-AFUDC - Equity Regular	1,537	467	676	870	1,069	1,262	1,379	1,412	497	499	502	0	0	10,169	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	202,164	94,083	84,289	81,080	88,631	75,334	24,662	2,978	1,047	1,053	1,058	0	0	656,378	
825-Clearings	-50,541	0	0	0	0	0	0	-391,741	0	0	-214,096	0	0	-656,378	
Clr Sum	-50,541	0	0	0	0	0	0	-391,741	0	0	-214,096	0	0	-656,378	
Proj Net	151,623	94,083	84,289	81,080	88,631	75,334	24,662	-388,763	1,047	1,053	-213,038	0	0	0	

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Project No: 41001817 Saint Vincent Hospital Back-up Feed

Company: 001-Electric Services
Location: 410 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Project Need Justification

In the past, St. Vincent's Hospital has experienced extended outages due to a lack of back-up or redundant systems. This has resulted in lengthy outages that last until the fault can be identified and repaired. This project includes the upgrade of overhead line and the installation of underground cable to create a redundant circuit on the radial for St. Vincent's Hospital, which would allow for a more timely restoration. PNM is obligated to provide reliable service with reasonable outage response time for its customers and this project further reaches that goal. The costs for this project includes internal labor, external labor, materials, and equipment.

Project Alternatives

The alternative to this project is to continue with the existing radial feed system, which has experienced several faults in the past that have required the hospital run on emergency generators until the system could be repaired.

Technical Aspects

The project consists of upgrading approximately 2,500 feet of overhead using 397 AAC, and approximately 1,000 feet of new three phase underground 1/0 AL to create a back-up (secondary) feed for the hospital.

Project Estimate Approach

Costs for this project were estimated using historical emergent cable replacement costs for areas identified as needing redundant systems. The addition of redundant looping costs differ only in that cable is not abandoned. Costs for this project include costs for outside services providing installation of new cable by either boring or trenching. The project also includes company labor for items such as engineering, construction coordination, switching, and cable termination. The approximate breakdown of cost by categories is as follows: outside services (59%), company labor (22%), materials (12%), and company transportation (7%). This breakdown can fluctuate depending on the site conditions and the type of cable being replaced.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	41001817	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	41001817	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	5,000	5,000	8,000	12,000	6,500	0	0	0	0	0	0	0	36,500
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	70,000	12,000	5,000	0	0	0	0	0	0	0	0	87,000
370-Outside Services	0	0	0	30,000	50,000	0	0	0	0	0	0	0	0	80,000
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	392	392	627	941	510	0	0	0	0	0	0	0	2,862
914-Pension and Benefits Load	0	1,365	1,365	2,183	3,275	1,774	0	0	0	0	0	0	0	9,961
915-Injuries and Damages Load	0	311	311	498	746	404	0	0	0	0	0	0	0	2,270
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	12,110	2,076	865	0	0	0	0	0	0	0	0	15,051
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	1,357	14,797	10,235	13,817	1,764	0	0	0	0	0	0	0	41,970
926-A and G Loads	0	336	5,040	3,360	4,502	437	0	0	0	0	0	0	0	13,675
928-AFUDC Debt Reg	0	11	165	398	609	659	596	600	603	0	0	0	0	3,641
929-AFUDC - Equity Regular	0	15	216	522	799	864	782	787	791	0	0	0	0	4,776
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	8,787	109,396	69,899	92,554	12,911	1,378	1,386	1,395	0	0	0	0	297,706
825-Clearings	0	0	0	0	-33,676	-31,184	0	0	-232,845	0	0	0	0	-297,706
Clr Sum	0	0	0	0	-33,676	-31,184	0	0	-232,845	0	0	0	0	-297,706
Proj Net	0	8,787	109,396	69,899	58,878	-18,273	1,378	1,386	-231,450	0	0	0	0	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	41001817	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	36,500	0	0	0	0	0	0	0	0	0	0	0	0	36,500
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	87,000	0	0	0	0	0	0	0	0	0	0	0	0	87,000
	370-Outside Services	80,000	0	0	0	0	0	0	0	0	0	0	0	0	80,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	2,862	0	0	0	0	0	0	0	0	0	0	0	0	2,862
	914-Pension and Benefits Load	9,961	0	0	0	0	0	0	0	0	0	0	0	0	9,961
	915-Injuries and Damages Load	2,270	0	0	0	0	0	0	0	0	0	0	0	0	2,270
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	15,051	0	0	0	0	0	0	0	0	0	0	0	0	15,051
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	41,970	0	0	0	0	0	0	0	0	0	0	0	0	41,970
	926-A and G Loads	13,675	0	0	0	0	0	0	0	0	0	0	0	0	13,675
	928-AFUDC Debt Reg	3,641	0	0	0	0	0	0	0	0	0	0	0	0	3,641
	929-AFUDC - Equity Regular	4,776	0	0	0	0	0	0	0	0	0	0	0	0	4,776
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	297,706	0	0	0	0	0	0	0	0	0	0	0	0	297,706
	825-Clearings	-297,706	0	0	0	0	0	0	0	0	0	0	0	0	-297,706
	Clr Sum	-297,706	0	0	0	0	0	0	0	0	0	0	0	0	-297,706
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 41001917 Cochiti OH Line Rebuild

Company: 001-Electric Services
Location: 410 Distribution

Project Information

<u>Construction Start Date</u>	1/1/2017	<u>Estimated Completion Date</u>
<u>List Interim In-Service Dates</u>		
<u>Project Need Justification</u>		

In the past, the main feed into Cochiti has experienced extended outages due to a lack of back-up or redundant systems. This has resulted in lengthy outages that last until the fault can be identified and repaired. PNM is obligated to provide reliable service with reasonable outage response time for its customers and this project further reaches that goal. This project includes the installation of underground cable to replace the long radials that feed into the Cochiti area and an additional empty conduit for future loop system which would allow for a more timely restoration. The costs for this project includes internal labor, external labor, materials, and equipment.

Project Alternatives

The alternative to this project is to continue with the existing radial feed system, knowing that the past faults will continue and place the Cochiti area out of service until the system can be repaired.

Technical Aspects

The project consists of replacing approximately 10,000 feet of three phase underground 1/0 AL and the addition of 10,000 feet of empty conduit to create a back up (secondary) feed for the Cochiti area.

Project Estimate Approach

These costs are based on historical emergent cable replacement costs for areas needing redundant systems. The addition of redundant looping costs differ only in that cable is not abandoned. Costs for this project include outside services for the installation of new cable by either boring or trenching. The project also includes company labor for items such as engineering, construction coordination, switching, and cable termination. The approximate breakdown of cost by categories is as follows: outside services (59%), company labor (22%), materials (12%), and company transportation (7%). This breakdown can fluctuate depending on the site conditions and the type of cable being replaced.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	41001917	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	41001917	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	40,000	40,000	9,000	0	0	0	0	0	0	0	0	89,000	
370-Outside Services	0	0	0	30,000	110,000	110,000	110,000	0	0	0	0	0	0	360,000	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	6,920	6,920	1,557	0	0	0	0	0	0	0	0	15,397	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	7,680	13,440	22,848	21,120	21,120	0	0	0	0	0	0	86,208	
926-A and G Loads	0	0	2,688	4,704	7,997	7,392	7,392	0	0	0	0	0	0	30,173	
928-AFUDC Debt Reg	0	0	75	274	597	882	1,120	1,151	1,019	1,025	0	0	0	6,142	
929-AFUDC - Equity Regular	0	0	98	359	782	1,157	1,470	1,510	1,336	1,344	0	0	0	8,057	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	57,461	95,697	152,781	140,552	141,102	2,660	2,355	2,369	0	0	0	594,977	
825-Clearings	0	0	0	0	-36,713	-49,173	-60,205	-53,299	0	-395,587	0	0	0	-594,977	
Clr Sum	0	0	0	0	-36,713	-49,173	-60,205	-53,299	0	-395,587	0	0	0	-594,977	
Proj Net	0	0	57,461	95,697	116,068	91,378	80,897	-50,639	2,355	-393,218	0	0	0	0	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	41001917	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	89,000	0	0	0	0	0	0	0	0	0	0	0	0	89,000
	370-Outside Services	360,000	0	0	0	0	0	0	0	0	0	0	0	0	360,000
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	15,397	0	0	0	0	0	0	0	0	0	0	0	0	15,397
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	86,208	0	0	0	0	0	0	0	0	0	0	0	0	86,208
	926-A and G Loads	30,173	0	0	0	0	0	0	0	0	0	0	0	0	30,173
	928-AFUDC Debt Reg	6,142	0	0	0	0	0	0	0	0	0	0	0	0	6,142
	929-AFUDC - Equity Regular	8,057	0	0	0	0	0	0	0	0	0	0	0	0	8,057
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	594,977	0	0	0	0	0	0	0	0	0	0	0	0	594,977
	825-Clearings	-594,977	0	0	0	0	0	0	0	0	0	0	0	0	-594,977
	Clr Sum	-594,977	0	0	0	0	0	0	0	0	0	0	0	0	-594,977
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 41002316 Bird Guard Reliability

Company: 001-Electric Services
Location: 410 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

Project consists of many individual work orders packets which are placed in service at various times throughout the year.

Project Need Justification

This project provides for the installation of covers and guarding materials to prevent wildlife from making contact with energized distribution equipment. This helps reduce outages and increase reliability. Birds are one of the top ten causes of outages.

Project Alternatives

Protective covers for energized equipment is often the most economical means of preventing electrocution of birds and other animals that cause outages, especially in retrofit applications. Other means include changing pole construction type or using broader spanning cross arms, however these are generally more expensive options and can also include the need to acquiring additional right-of-way easements which can be expensive or not possible. Wider cross arms also do not eliminate the need for equipment covers.

Technical Aspects

This project provides for the installation of protective covers over insulators, wires and other equipment in areas prone to outages caused by bird or small animal electrocution.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	41002316	Year	2016								
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	15,886			5,000	5,000	4,650	4,500	0	0	35,036	
120-Overtime-General	213			0	0	0	0	0	0	213	
350-Material Issues-Major	9,038			1,000	3,500	1,000	3,500	0	0	18,038	
370-Outside Services	289			0	0	0	0	0	0	289	
374-Outside Svcs Legal	0			0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0	
530-Employee Expense	0			0	0	0	0	0	0	0	
610-Expenses - General	0			0	0	0	0	0	0	0	
805-Land and Land Rights	0			0	0	0	0	0	0	0	
807-Non Refundable Contribution	0			0	0	0	0	0	0	0	
829-Construction Adjustment	0			0	0	0	0	0	0	0	
426-Capitalized Interest	0			0	0	0	0	0	0	0	
908-Luna AR - Labor	0			0	0	0	0	0	0	0	
909-Luna AR - Other	0			0	0	0	0	0	0	0	
913-Payroll Taxes Load	1,463			394	394	366	354	0	0	2,970	
914-Pension and Benefits Load	5,565			1,497	1,497	1,392	1,347	0	0	11,298	
915-Injuries and Damages Load	1,212			326	326	303	293	0	0	2,460	
918-San Juan AR-Labor	0			0	0	0	0	0	0	0	
921-Stores / Purchasing Load	629			111	389	111	389	0	0	1,630	
922-Minor Material Load	672			0	0	0	0	0	0	672	
925-E and S Loads	6,471			1,520	1,983	1,427	1,849	0	0	13,249	
926-A and G Loads	2,379			499	707	470	666	0	0	4,721	
928-AFUDC Debt Reg	37			0	0	0	0	0	0	37	
929-AFUDC - Equity Regular	19			0	0	0	0	0	0	19	
937-San Juan AR - Other	0			0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0	
Cost Sum	43,873			10,347	13,795	9,719	12,899	0	0	90,633	
825-Clearings	-34,582			0	0	0	0	0	0	-34,582	
Clr Sum	-34,582			0	0	0	0	0	0	-34,582	
Proj Net	9,290			10,347	13,795	9,719	12,899	0	0	56,051	

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	41002316	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	35,036	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	2,500	81,536
120-Overtime-General	213	0	0	0	0	0	0	0	0	0	0	0	0	213
350-Material Issues-Major	18,038	5,000	5,000	0	5,000	5,000	0	5,000	5,000	5,000	5,000	0	0	58,038
370-Outside Services	289	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	132,289
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	2,970	314	314	314	314	314	314	314	314	314	314	314	196	6,615
914-Pension and Benefits Load	11,298	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	1,092	682	23,988
915-Injuries and Damages Load	2,460	249	249	249	249	249	249	249	249	249	249	249	156	5,353
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	1,630	865	865	0	865	865	0	865	865	865	865	0	0	8,550
922-Minor Material Load	672	0	0	0	0	0	0	0	0	0	0	0	0	672
925-E and S Loads	13,249	4,158	4,158	3,198	4,158	4,158	3,198	4,158	4,158	4,158	4,158	3,198	2,790	58,893
926-A and G Loads	4,721	1,344	1,344	1,008	1,344	1,344	1,008	1,344	1,344	1,344	1,344	1,008	907	19,404
928-AFUDC Debt Reg	37	0	0	0	0	0	0	0	0	0	0	0	0	37
929-AFUDC - Equity Regular	19	0	0	0	0	0	0	0	0	0	0	0	0	19
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	90,633	28,021	28,021	20,860	28,021	28,021	20,860	28,021	28,021	28,021	28,021	20,860	18,231	395,608
825-Clearings	-34,582	-11,777	-13,726	-32,810	-28,015	-17,510	-27,619	-60,243	-30,892	-21,348	-40,508	-45,622	-45,025	-409,679
Clr Sum	-34,582	-11,777	-13,726	-32,810	-28,015	-17,510	-27,619	-60,243	-30,892	-21,348	-40,508	-45,622	-45,025	-409,679
Proj Net	56,051	16,243	14,294	-11,951	5	10,510	-6,760	-32,222	-2,872	6,673	-12,488	-24,762	-26,794	-14,071

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project 41002316	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	81,536	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	101,936
120-Overtime-General	213	0	0	0	0	0	0	0	0	0	0	0	0	213
350-Material Issues-Major	58,038	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	94,038
370-Outside Services	132,289	7,000	7,000	7,000	7,000	7,000	7,600	7,000	7,000	7,000	7,000	7,000	7,000	216,889
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	6,615	133	133	133	133	133	133	133	133	133	133	133	133	8,215
914-Pension and Benefits Load	23,988	464	464	464	464	464	464	464	464	464	464	464	464	29,555
915-Injuries and Damages Load	5,353	106	106	106	106	106	106	106	106	106	106	106	106	6,622
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	8,550	519	519	519	519	519	519	519	519	519	519	519	519	14,778
922-Minor Material Load	672	0	0	0	0	0	0	0	0	0	0	0	0	672
925-E and S Loads	58,893	2,381	2,381	2,381	2,381	2,381	2,497	2,381	2,381	2,381	2,381	2,381	2,381	87,585
926-A and G Loads	19,404	786	786	786	786	786	827	786	786	786	786	786	786	28,879
928-AFUDC Debt Reg	37	0	0	0	0	0	0	0	0	0	0	0	0	37
929-AFUDC - Equity Regular	19	0	0	0	0	0	0	0	0	0	0	0	0	19
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	395,608	16,090	16,090	16,090	16,090	16,090	16,845	16,090	16,090	16,090	16,090	16,090	16,090	589,438
825-Clearings	-409,679	-1,931	-3,630	-11,531	-11,344	-7,802	-14,043	-31,551	-16,674	-11,764	-22,608	-28,264	-32,689	-603,509
Clr Sum	-409,679	-1,931	-3,630	-11,531	-11,344	-7,802	-14,043	-31,551	-16,674	-11,764	-22,608	-28,264	-32,689	-603,509
Proj Net	-14,071	14,159	12,460	4,558	4,746	8,288	2,802	-15,462	-585	4,326	-6,518	-12,174	-16,599	-14,071

Project No: 41002516 Pole Grounds

Company: 001-Electric Services
Location: 410 Distribution

Project Information

Construction Start Date 1/1/2017 Estimated Completion Date

List Interim In-Service Dates

This project consists of many individual work orders which are placed in service at various times throughout the year.

Project Need Justification

Significant instances of copper theft in recent years has led to the need for repair and replacement of copper grounds attached to distribution poles. Grounding replacements are necessary to ensure a safe and reliable electric system.

Project Alternatives

There are no other alternatives to this project other than to do nothing. This project is preferred to prevent theft, since copper is a prime target for metal thieves. However, the new design of copper clad steel wire, which has less recyclable value, will be used as the replacement pole ground for stolen copper ground wire.

Technical Aspects

Pole grounds are required on all poles with equipment attached, such as transformers, capacitors, risers, and switches. At a minimum, four grounds per mile of overhead line are required when equipment is not attached to poles. Pole grounds are wires attached to equipment on the pole and/or attached to the neutral conductor running the length of the pole. This is also attached to a ground rod placed at the base of the pole. The #4 copper clad steel wire is used for general pole grounding and 2/0 copper clad steel wire is used for grounding poles with pole mounted switches or backbone conductor risers attached to the poles.

Project Estimate Approach

This project spend forecast is prepared to closely follow the spend on the PURE projects (10001707). Most of the pole ground replacement is performed at the same time and on many of the same structures as the PURE work. The spend is typically about 21% of the PURE spend. In some cases forecast spend may have been modified to account for one-off anomalies and/or calculated annual spend may be adjusted if greatly inconsistent with historical spend or if known increases are warranted.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	41002516	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			5,500	5,500	5,500	5,500	5,500	5,500	33,000		
120-Overtime-General	0			0	100	100	0	0	0	200		
350-Material Issues-Major	0			5,500	5,500	5,500	5,500	5,500	5,000	32,500		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			433	441	441	433	433	433	2,613		
914-Pension and Benefits Load	0			1,647	1,677	1,677	1,647	1,647	1,647	9,940		
915-Injuries and Damages Load	0			359	365	365	359	359	359	2,165		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			612	612	612	612	612	556	3,614		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			2,486	2,513	2,513	2,486	2,486	2,394	14,877		
926-A and G Loads	0			915	924	924	915	915	874	5,466		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			17,451	17,630	17,630	17,451	17,451	16,761	104,375		
825-Clearings	0			0	0	0	0	0	-104,375	-104,375		
Clr Sum	0			0	0	0	0	0	-104,375	-104,375		
Proj Net	0			17,451	17,630	17,630	17,451	17,451	-87,614	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	41002516	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	33,000	0	0	0	0	0	0	0	0	0	0	0	0	33,000
	120-Overtime-General	200	0	0	0	0	0	0	0	0	0	0	0	0	200
	350-Material Issues-Major	32,500	0	0	0	0	0	0	0	0	0	0	0	0	32,500
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	2,613	0	0	0	0	0	0	0	0	0	0	0	0	2,613
	914-Pension and Benefits Load	9,940	0	0	0	0	0	0	0	0	0	0	0	0	9,940
	915-Injuries and Damages Load	2,165	0	0	0	0	0	0	0	0	0	0	0	0	2,165
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	3,614	0	0	0	0	0	0	0	0	0	0	0	0	3,614
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	14,877	0	0	0	0	0	0	0	0	0	0	0	0	14,877
	926-A and G Loads	5,466	0	0	0	0	0	0	0	0	0	0	0	0	5,466
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	104,375	0	0	0	0	0	0	0	0	0	0	0	0	104,375
	825-Clearings	-104,375	0	0	0	0	0	0	0	0	0	0	0	0	-104,375
	Clr Sum	-104,375	0	0	0	0	0	0	0	0	0	0	0	0	-104,375
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	41002516	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	33,000	0	0	0	0	0	0	0	0	0	0	0	0	33,000	
120-Overtime-General	200	0	0	0	0	0	0	0	0	0	0	0	0	200	
350-Material Issues-Major	32,500	0	0	0	0	0	0	0	0	0	0	0	0	32,500	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	2,613	0	0	0	0	0	0	0	0	0	0	0	0	2,613	
914-Pension and Benefits Load	9,940	0	0	0	0	0	0	0	0	0	0	0	0	9,940	
915-Injuries and Damages Load	2,165	0	0	0	0	0	0	0	0	0	0	0	0	2,165	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	3,614	0	0	0	0	0	0	0	0	0	0	0	0	3,614	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	14,877	0	0	0	0	0	0	0	0	0	0	0	0	14,877	
926-A and G Loads	5,466	0	0	0	0	0	0	0	0	0	0	0	0	5,466	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	104,375	0	0	0	0	0	0	0	0	0	0	0	0	104,375	
825-Clearings	-104,375	0	0	0	0	0	0	0	0	0	0	0	0	-104,375	
Clr Sum	-104,375	0	0	0	0	0	0	0	0	0	0	0	0	-104,375	
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Project No: 60001618 CESR On-line Application Upgrade

Company: 001-Electric Services
Location: 600 Distribution

Project Information

Construction Start Date 1/1/2018 Estimated Completion Date 12/31/2018

List Interim In-Service Dates

Project Need Justification

Several years ago, PNM implemented a new service application process. Though the system works well, there is a need for several enhancements and efficiency improvements. Ten high priority and twelve lower priority improvements have been identified. The improvements include adding additional service request type options (which are currently a manual, paper processes), increasing capability to retain application data longer (which is currently limited to six months), adding a customer satisfaction survey to be automatically sent upon completion of a project, and including a mandatory safety message acknowledgment regarding clearances of lines to buildings and notification of underground utility locations prior to excavation activity.

Project Alternatives

There are three options; do nothing, upgrade the existing application system, or replace the existing system. The do nothing option impedes PNM's ability to automate all types of applications, further improve the customer experience, and increase internal efficiencies. Replacement of the current system rather than upgrading would be more costly at the current time, but might be considered a option in the future.

Technical Aspects

The current new service application software resides on a SharePoint platform. The code for the application was mostly developed in house using outside contractors. It is anticipated the same approach would be used to add the subject enhancements.

Project Estimate Approach

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	60001618	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	60001618	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	60001618	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	0	0	0	0	0	0	0	0	10,000	5,000	5,000	5,000	0	25,000	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
370-Outside Services	0	0	0	0	0	0	0	0	5,000	35,000	35,000	7,500	0	82,500	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	0	0	0	0	0	0	0	0	784	392	392	392	0	1,960	
914-Pension and Benefits Load	0	0	0	0	0	0	0	0	2,729	1,365	1,365	1,365	0	6,823	
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	622	311	311	311	0	1,555	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	0	0	0	0	0	0	0	0	3,674	8,077	8,077	2,797	0	22,625	
926-A and G Loads	0	0	0	0	0	0	0	0	1,008	2,688	2,688	840	0	7,224	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	31	131	270	364	390	1,186	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	28	118	243	328	351	1,069	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	0	0	0	0	0	0	0	23,876	53,082	53,346	18,897	741	149,942	
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	-149,942	-149,942	
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	-149,942	-149,942	
Proj Net	0	0	0	0	0	0	0	0	23,876	53,082	53,346	18,897	-149,201	0	

Project No: 60001717 Switchgear non-load break replacements metro

Company: 001-Electric Services
Location: 600 Distribution

Project Information

Construction Start Date 3/1/2017 Estimated Completion Date
List Interim In-Service Dates

Multiple work orders (WO) will be written, possibly one for each switchgear, thus the individual WO will be cleared as soon as possible after the switchgear is replaced.

Project Need Justification

This project involves replacing non-load break pad-mounted switchgear in the Albuquerque metro area. Older style switchgear pose an operational hazard and are a reliability issue for the system. Switchgear flashovers and fires have occurred in past attempts to remove non-load break fuses and by the failure of aging and the interior design of mechanical switch mechanisms.

Project Alternatives

The current alternative to replacement is an operational edict that disallows operation of these switches or removal of fuses in these switchgear while energized. Thus, performing planned or emergency outages for customers or utility needs requires locating load break capable switchgears elsewhere on the feeder which increases the number of customers affected by outages when switching or fuse removals are required. This is not a viable long-term solution due to the increased inconvenience of customer electric service. It also effectively negates the operational capabilities envisioned when the switches were initially installed and results in operational inefficiencies. Each repair is evaluated by an engineer, who evaluates the gear configuration and determines how to best address the issue to today’s standards. Alternatives to each repair is evaluated on a case-by-case basis.

Technical Aspects

Switchgear with a higher priority need for replacement will be worked on first. PNM will replace non-load break switches that pose a potential for arc flash with switch gears that are designed to perform load break operations. Replacement of switchgears are both timely and costly, as they require switching, outages, after hours work, excavation, disassembly and installation.

Project Estimate Approach

Project estimates are based on the individual replacement of a switchgear multiplied by the expected number of switchgears to be replaced. For this work, materials make up ~50% of the cost and engineering and labor make up the remaining cost.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	60001717	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Clr Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	60001717	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	0	0	5,208	10,208	27,222	22,193	0	27,222	0	0	0	92,053
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350-Material Issues-Major	0	0	0	0	36,069	36,069	72,138	0	0	71,458	0	0	0	215,734
370-Outside Services	0	0	0	0	0	0	3,791	3,791	0	3,791	0	0	0	11,373
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	0	0	408	800	2,134	1,740	0	2,134	0	0	0	7,217
914-Pension and Benefits Load	0	0	0	0	1,421	2,786	7,429	6,056	0	7,429	0	0	0	25,121
915-Injuries and Damages Load	0	0	0	0	324	635	1,693	1,380	0	1,693	0	0	0	5,726
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	0	6,240	6,240	12,480	0	0	12,362	0	0	0	37,322
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	0	0	0	8,339	9,696	21,966	6,751	0	21,836	0	0	0	68,587
926-A and G Loads	0	0	0	0	2,774	3,110	6,932	1,746	0	6,886	0	0	0	21,448
928-AFUDC Debt Reg	0	0	0	0	79	250	545	583	643	849	1,056	1,062	1,068	6,134
929-AFUDC - Equity Regular	0	0	0	0	104	327	715	764	843	1,113	1,385	1,393	1,401	8,045
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	0	0	0	60,966	70,120	157,044	45,005	1,487	156,773	2,440	2,455	2,470	498,760
825-Clearings	0	0	0	0	0	0	-86,439	0	0	0	0	0	-412,320	-498,760
Clr Sum	0	0	0	0	0	0	-86,439	0	0	0	0	0	-412,320	-498,760
Proj Net	0	0	0	0	60,966	70,120	70,605	45,005	1,487	156,773	2,440	2,455	-409,851	0

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	60001717	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	92,053	0	0	0	0	0	0	0	0	0	0	0	0	92,053
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	215,734	0	0	0	0	0	0	0	0	0	0	0	0	215,734
	370-Outside Services	11,373	0	0	0	0	0	0	0	0	0	0	0	0	11,373
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	7,217	0	0	0	0	0	0	0	0	0	0	0	0	7,217
	914-Pension and Benefits Load	25,121	0	0	0	0	0	0	0	0	0	0	0	0	25,121
	915-Injuries and Damages Load	5,726	0	0	0	0	0	0	0	0	0	0	0	0	5,726
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	37,322	0	0	0	0	0	0	0	0	0	0	0	0	37,322
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	68,587	0	0	0	0	0	0	0	0	0	0	0	0	68,587
	926-A and G Loads	21,448	0	0	0	0	0	0	0	0	0	0	0	0	21,448
	928-AFUDC Debt Reg	6,134	0	0	0	0	0	0	0	0	0	0	0	0	6,134
	929-AFUDC - Equity Regular	8,045	0	0	0	0	0	0	0	0	0	0	0	0	8,045
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	498,760	0	0	0	0	0	0	0	0	0	0	0	0	498,760
	825-Clearings	-498,760	0	0	0	0	0	0	0	0	0	0	0	0	-498,760
	Clr Sum	-498,760	0	0	0	0	0	0	0	0	0	0	0	0	-498,760
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 60001814 La Morada Substation

Company: 001-Electric Services
Location: 600 Distribution

Project Information

Construction Start Date 1/1/2014 Estimated Completion Date 10/31/2016

List Interim In-Service Dates

N/A

Project Need Justification

The purpose of building the new La Mirada Substation is to provide normal and backup capacity in the area currently served by St. Joseph & Unser substations in Albuquerque. Currently, an outage of St. Joseph 12 and Unser 14 poses a high risk of loads left unserved. The types of costs that are covered by the project funds are internal labor, external labor, materials, equipment, and right-of-way (ROW).

Project Alternatives

One alternative considered was to locate the substation at 98th and Ladera. The 98th and Ladera location is southwest of the current project and would primarily support future growth to the west of 98th and Ladera. However, if this alternative was chosen only two of four feeders from a 98th and Ladera Substation could be effectively used to unload Unser feeder 14 and to provide backup support to the area. Consequently, the current project was chosen as the preferred alternative due to its centralized location to existing load. A second alternative considered was to install a second transformer at the existing Unser Substation. The transformer could be used to provide backup support for an Unser Unit I transformer outage. However, there are physical impediments on both sides of Unser substation limiting feeder routes. The Ladera Golf Course to the east of Unser makes it difficult for Unser Unit II feeders to support a St Joseph Substation outage. The Petroglyph National Monument to the west does not allow Unser Unit II feeders to support load growth west of Unser Substation. Also costly express feeders would need to be built to support load growth to the south of Unser Substation, ultimately making this option unviable.

Technical Aspects

This project includes installing a new 115-12.47kV, 33.6 MVA substation transformer and a six bay, four-feeder switchgear at the new La Morada Substation location. Transmission service to the new substation will be from the 115kV WB line, which exits West Mesa Station and crosses Unser Blvd. near the proposed location.

Project Estimate Approach

This project was estimated using the standard procedures of the System Engineering group. A market value analysis was conducted to determine the land costs and basic materials costs were estimated using actual costs of past projects. These figures are updated in the estimating software periodically. For major equipment like transformers and switchgears, alliance vendors were contacted (SPX/Waukesha and Central Electric/AZZ respectively) and provided information regarding the costs and schedules of these major items. Labor and contractor estimates were also created from similar past projects. For this project, comparable past projects included Snow Vista and Scenic substations. All overhead costs are standard and calculated using the approved corporate software. Internal labor accounts for 7%, material 9%, contract services 48%, land rights 8% and overhead costs 28% of the total cost.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	60001814	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	185,896			0	2,000	2,000	2,000	0	0	191,896		
120-Overtime-General	11,711			0	0	0	0	0	0	11,711		
350-Material Issues-Major	353,254			0	0	0	0	0	0	353,254		
370-Outside Services	2,358,075			0	15,000	70,000	15,000	0	0	2,458,075		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	12,283			0	0	0	0	0	0	12,283		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	-643	0	0	-643		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	15,702			0	157	157	157	0	0	16,174		
914-Pension and Benefits Load	52,576			0	599	599	599	0	0	54,372		
915-Injuries and Damages Load	15,190			0	130	130	130	0	0	15,582		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	76,920			0	0	0	0	0	0	76,920		
922-Minor Material Load	25,340			0	0	0	0	0	0	25,340		
925-E and S Loads	471,358			0	3,309	13,484	3,309	0	0	491,460		
926-A and G Loads	266,434			0	1,414	5,990	1,414	0	0	275,254		
928-AFUDC Debt Reg	117,444			24	49	179	309	0	0	118,005		
929-AFUDC - Equity Regular	159,151			26	53	194	334	0	0	159,758		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	4,121,335			49	22,713	92,734	22,610	0	0	4,259,441		
825-Clearings	-4,391,779			0	0	0	-148,619	0	0	-4,540,399		
Clr Sum	-4,391,779			0	0	0	-148,619	0	0	-4,540,399		
Proj Net	-270,445			49	22,713	92,734	-126,009	0	0	-280,958		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	60001814	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	191,896	0	0	0	0	0	0	0	0	0	0	0	0	191,896
	120-Overtime-General	11,711	0	0	0	0	0	0	0	0	0	0	0	0	11,711
	350-Material Issues-Major	353,254	0	0	0	0	0	0	0	0	0	0	0	0	353,254
	370-Outside Services	2,458,075	0	0	0	0	0	0	0	0	0	0	0	0	2,458,075
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	12,283	0	0	0	0	0	0	0	0	0	0	0	0	12,283
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	-643	0	0	0	0	0	0	0	0	0	0	0	0	-643
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	16,174	0	0	0	0	0	0	0	0	0	0	0	0	16,174
	914-Pension and Benefits Load	54,372	0	0	0	0	0	0	0	0	0	0	0	0	54,372
	915-Injuries and Damages Load	15,582	0	0	0	0	0	0	0	0	0	0	0	0	15,582
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	76,920	0	0	0	0	0	0	0	0	0	0	0	0	76,920
	922-Minor Material Load	25,340	0	0	0	0	0	0	0	0	0	0	0	0	25,340
	925-E and S Loads	491,460	0	0	0	0	0	0	0	0	0	0	0	0	491,460
	926-A and G Loads	275,254	0	0	0	0	0	0	0	0	0	0	0	0	275,254
	928-AFUDC Debt Reg	118,005	0	0	0	0	0	0	0	0	0	0	0	0	118,005
	929-AFUDC - Equity Regular	159,758	0	0	0	0	0	0	0	0	0	0	0	0	159,758
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	4,259,441	0	0	0	0	0	0	0	0	0	0	0	0	4,259,441
	825-Clearings	-4,540,399	0	0	0	0	0	0	0	0	0	0	0	0	-4,540,399
	Clr Sum	-4,540,399	0	0	0	0	0	0	0	0	0	0	0	0	-4,540,399
	Proj Net	-280,958	0	0	0	0	0	0	0	0	0	0	0	0	-280,958

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	60001814	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	191,896	0	0	0	0	0	0	0	0	0	0	0	0	191,896	
120-Overtime-General	11,711	0	0	0	0	0	0	0	0	0	0	0	0	11,711	
350-Material Issues-Major	353,254	0	0	0	0	0	0	0	0	0	0	0	0	353,254	
370-Outside Services	2,458,075	0	0	0	0	0	0	0	0	0	0	0	0	2,458,075	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	12,283	0	0	0	0	0	0	0	0	0	0	0	0	12,283	
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	-643	0	0	0	0	0	0	0	0	0	0	0	0	-643	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	16,174	0	0	0	0	0	0	0	0	0	0	0	0	16,174	
914-Pension and Benefits Load	54,372	0	0	0	0	0	0	0	0	0	0	0	0	54,372	
915-Injuries and Damages Load	15,582	0	0	0	0	0	0	0	0	0	0	0	0	15,582	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	76,920	0	0	0	0	0	0	0	0	0	0	0	0	76,920	
922-Minor Material Load	25,340	0	0	0	0	0	0	0	0	0	0	0	0	25,340	
925-E and S Loads	491,460	0	0	0	0	0	0	0	0	0	0	0	0	491,460	
926-A and G Loads	275,254	0	0	0	0	0	0	0	0	0	0	0	0	275,254	
928-AFUDC Debt Reg	118,005	0	0	0	0	0	0	0	0	0	0	0	0	118,005	
929-AFUDC - Equity Regular	159,758	0	0	0	0	0	0	0	0	0	0	0	0	159,758	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	4,259,441	0	0	0	0	0	0	0	0	0	0	0	0	4,259,441	
825-Clearings	-4,540,399	0	0	0	0	0	0	0	0	0	0	0	0	-4,540,399	
Clr Sum	-4,540,399	0	0	0	0	0	0	0	0	0	0	0	0	-4,540,399	
Proj Net	-280,958	0	0	0	0	0	0	0	0	0	0	0	0	-280,958	

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Project No: 60002013 Distr Substation Grounding Repairs

Company: 001-Electric Services
Location: 600 Distribution

Project Information

Construction Start Date 1/1/2014 Estimated Completion Date 12/31/2020

List Interim In-Service Dates

Multiple stations are included in this program, with in-service dates at least every 2 months.

Project Need Justification

This project involves replacing materials that have either been stolen or damaged at distribution substations. Typically the theft is related to copper, and PNM has had to take key equipment out of service due to stolen grounds. Additionally, this project involves the hardening of stations to prevent future theft. The project will also improve the safety for the public and PNM employees. Lack of a good grounding system adversely affects the ability of certain relays to perform and can result in equipment damage or extensive outages and loss of customer load for extended periods of time.

Project Alternatives

There are no alternatives to the overall replacement and repair of the grounding system. This project is required in order to replace stolen materials and reduce the risk to PNM personnel. No action alternative leaves a known safety hazard in place that can affect personnel as well as result in damaged equipment. Alternatives can be examined in the types of repairs made and the deterrent measures put in-place to protect the system going forward. Measures are evaluated on a site-by-site basis.

Technical Aspects

Project will involve purchasing replacement equipment, mostly stolen copper, as well as improving the security of distribution stations to deter further thefts. Deterrents such as surveillance, hidden copper downloads, and alarms may be installed as a part of this project. Typically a contractor is engaged for this work.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	60002013	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	57,185		3,333	3,333	3,333	3,333	3,333	3,333	77,185		
	120-Overtime-General	5,132		0	0	0	0	0	0	5,132		
	350-Material Issues-Major	90		0	6,000	6,000	0	6,000	6,500	24,590		
	370-Outside Services	1,513,465		0	14,500	14,500	0	14,500	14,500	1,571,465		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	-350	-350	-350	-1,049		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	3,796		262	262	262	262	262	262	5,370		
	914-Pension and Benefits Load	14,434		998	998	998	998	998	998	20,422		
	915-Injuries and Damages Load	3,703		217	217	217	217	217	217	5,007		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	38,528		0	667	667	0	667	723	41,252		
	922-Minor Material Load	4		0	0	0	0	0	0	4		
	925-E and S Loads	239,537		890	4,683	4,683	890	4,683	4,775	260,139		
	926-A and G Loads	125,686		277	1,983	1,983	277	1,983	2,025	134,214		
	928-AFUDC Debt Reg	10,244		7	50	124	168	211	286	11,090		
	929-AFUDC - Equity Regular	14,674		7	54	134	182	229	310	15,590		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	2,026,477		5,992	32,748	32,902	5,978	32,734	33,579	2,170,412		
	825-Clearings	-2,045,884		0	0	0	0	0	-71,968	-2,117,852		
	Clr Sum	-2,045,884		0	0	0	0	0	-71,968	-2,117,852		
Proj Net		-19,407		5,992	32,748	32,902	5,978	32,734	-38,388	52,560		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	60002013	Year	2017											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	77,185	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	113,185
120-Overtime-General	5,132	0	0	0	0	0	0	0	0	0	0	0	0	5,132
350-Material Issues-Major	24,590	0	0	0	0	0	0	0	0	0	0	0	0	24,590
370-Outside Services	1,571,465	0	0	6,000	0	6,000	6,000	0	6,000	6,000	0	6,000	5,000	1,612,465
374-Outside Svcs Legal	0	5,000	5,000	15,000	5,000	5,000	15,000	5,000	5,000	5,000	15,000	15,000	5,000	100,000
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-1,049	-448	-448	0	0	0	0	0	0	0	0	0	0	-1,945
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	5,370	235	235	235	235	235	235	235	235	235	235	235	235	8,192
914-Pension and Benefits Load	20,422	819	819	819	819	819	819	819	819	819	819	819	819	30,246
915-Injuries and Damages Load	5,007	187	187	187	187	187	187	187	187	187	187	187	187	7,246
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	41,252	0	0	0	0	0	0	0	0	0	0	0	0	41,252
922-Minor Material Load	4	0	0	0	0	0	0	0	0	0	0	0	0	4
925-E and S Loads	260,139	1,774	1,774	4,846	1,774	2,926	4,846	1,774	2,926	2,926	3,694	4,846	2,734	296,982
926-A and G Loads	134,214	538	538	1,613	538	941	1,613	538	941	941	1,210	1,613	874	146,109
928-AFUDC Debt Reg	11,090	202	232	289	181	222	290	182	223	274	182	255	322	13,944
929-AFUDC - Equity Regular	15,590	265	305	380	238	292	380	238	292	359	238	335	422	19,334
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	2,170,412	11,571	11,641	32,369	11,971	19,621	32,370	11,972	19,622	19,740	24,564	32,290	18,592	2,416,735
825-Clearings	-2,117,852	0	0	-63,774	0	0	-63,868	0	0	-57,601	0	0	-66,524	-2,369,619
Clr Sum	-2,117,852	0	0	-63,774	0	0	-63,868	0	0	-57,601	0	0	-66,524	-2,369,619
Proj Net	52,560	11,571	11,641	-31,405	11,971	19,621	-31,499	11,972	19,622	-37,861	24,564	32,290	-47,932	47,116

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	60002013	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	113,185	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	153,185
120-Overtime-General	5,132	0	0	0	0	0	0	0	0	0	0	0	0	5,132
350-Material Issues-Major	24,590	0	7,500	7,500	0	7,500	7,500	0	7,500	7,500	0	7,500	7,500	84,590
370-Outside Services	1,612,465	0	28,500	28,500	0	28,500	28,500	0	28,500	28,500	0	28,500	28,500	1,840,465
374-Outside Svcs Legal	100,000	0	0	0	0	0	0	0	0	0	0	0	0	100,000
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	-1,945	0	0	0	0	0	0	0	0	0	0	0	0	-1,945
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	8,192	261	261	261	261	261	261	261	261	261	261	261	261	11,328
914-Pension and Benefits Load	30,246	910	910	910	910	910	910	910	910	910	910	910	910	41,162
915-Injuries and Damages Load	7,246	207	207	207	207	207	207	207	207	207	207	207	207	9,734
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	41,252	0	1,298	1,298	0	1,298	1,298	0	1,298	1,298	0	1,298	1,298	51,632
922-Minor Material Load	4	0	0	0	0	0	0	0	0	0	0	0	0	4
925-E and S Loads	296,982	905	7,817	7,817	905	7,817	7,817	905	7,817	7,817	905	7,817	7,817	363,133
926-A and G Loads	146,109	224	2,643	2,643	224	2,643	2,643	224	2,643	2,643	224	2,643	2,643	168,150
928-AFUDC Debt Reg	13,944	181	258	397	475	553	693	390	468	608	687	766	907	20,327
929-AFUDC - Equity Regular	19,334	163	233	358	428	499	625	352	422	548	619	691	818	25,088
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	2,416,735	6,185	52,960	53,223	6,743	53,521	53,787	6,582	53,359	53,624	7,146	53,926	54,194	2,871,986
825-Clearings	-2,369,619	0	0	0	0	0	-146,472	0	0	0	0	0	-225,182	-2,741,272
Clr Sum	-2,369,619	0	0	0	0	0	-146,472	0	0	0	0	0	-225,182	-2,741,272
Proj Net	47,116	6,185	52,960	53,223	6,743	53,521	-92,685	6,582	53,359	53,624	7,146	53,926	-170,988	130,714

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Project No: 60003118 Distr Cable Testing and Replace 2018

Company: 001-Electric Services
Location: 600 Distribution

Project Information

Construction Start Date 1/1/2018 Estimated Completion Date 12/31/2019

List Interim In-Service Dates

This project has numerous partial in-service dates throughout the life of the project that occur as work orders are completed.

Project Need Justification

Approximately 54% of PNM distribution lines are built as underground construction. Underground cable has a life expectancy of 30-40 years. This project provides for the targeted replacement of failing underground cable based upon cable testing results of those at the end of their useful lives. The risk of not replacing aging and failing cable includes more frequent and extended power outages which adversely affect reliability and customer satisfaction.

Project Alternatives

An alternative to replacing failing cable is to inject a substance to improve the integrity of insulation materials and extend the life of the cable. This technique has shortcomings as it does not address potential problems with cable splices made during installation or the ends of cable where terminating equipment is installed. Cable testing is another alternative, providing predictive identification of cable failures before they occur, specifically targeting the replacement of cable segments. However, testing will not detect all cables that need replacement due to extensive corrosion or too many past failures, which have caused degradation to insulation of cable. In either of those cases, replacement is the better option without the need to perform cable testing first.

Technical Aspects

Cable is replaced either by pulling the cable from existing conduit and replacing it with new cable or, in the case of direct buried cable, by installing new conduit using directional boring equipment and pulling cable in the newly installed conduit. In some cases the new cable is installed along new routes to reduce the difficulty of the installation and/or future maintenance issues. This work will also involve boring, excavation, installing new cable and duct, splices, and terminations.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	60003118	Year	2016									
Cost_Type	Bal 6/30/16			Jui	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	0	0	0	0		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	0			0	0	0	0	0	0	0		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	0	0	0	0		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	0			0	0	0	0	0	0	0		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	0	0	0	0		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	0	0	0	0		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	0	0	0	0		
825-Clearings	0			0	0	0	0	0	0	0		
Cir Sum	0			0	0	0	0	0	0	0		
Proj Net	0			0	0	0	0	0	0	0		

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	60003118	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNM R D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	825-Clearings	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Clr Sum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	60003118	Year	2018											
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
110-Straight Time-General	0	0	1,785	5,110	3,834	3,632	4,834	4,092	4,541	3,378	3,824	2,848	3,266	41,145
120-Overtime-General	0	0	0	251	448	78	0	14	604	55	623	1,146	778	3,996
350-Material Issues-Major	0	0	0	3,117	6,220	4,764	19,199	13,040	25,919	41,470	20,416	12,988	2,786	149,918
370-Outside Services	0	0	0	39,773	75,148	83,144	17,232	37,436	10,965	30,563	44,165	31,160	97,465	467,051
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610-Expenses - General	0	0	150	1,404	1,643	913	2,016	1,485	1,010	1,859	1,583	1,225	1,321	14,608
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
913-Payroll Taxes Load	0	0	140	420	336	291	379	322	403	269	349	313	317	3,539
914-Pension and Benefits Load	0	0	487	1,463	1,168	1,012	1,319	1,120	1,404	937	1,213	1,090	1,104	12,319
915-Injuries and Damages Load	0	0	111	333	266	231	301	255	320	214	277	248	252	2,808
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	0	0	0	539	1,076	824	3,321	2,256	4,484	7,174	3,532	2,247	482	25,936
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	0	0	513	9,959	17,100	18,060	8,694	11,091	8,672	15,119	13,910	9,796	20,599	133,514
926-A and G Loads	0	0	130	3,337	5,866	6,218	2,909	3,768	2,892	5,196	4,745	3,318	7,097	45,475
928-AFUDC Debt Reg	0	0	4	94	328	633	871	746	928	1,151	1,004	1,220	1,489	8,469
929-AFUDC - Equity Regular	0	0	4	85	296	571	785	673	836	1,037	905	1,099	1,342	7,635
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	0	0	3,325	65,884	113,730	120,372	61,860	76,297	62,977	108,423	96,545	68,699	138,299	916,412
825-Clearings	0	0	0	0	0	0	-116,855	0	0	-158,725	0	0	-205,066	-480,646
Clr Sum	0	0	0	0	0	0	-116,855	0	0	-158,725	0	0	-205,066	-480,646
Proj Net	0	0	3,325	65,884	113,730	120,372	-54,995	76,297	62,977	-50,301	96,545	68,699	-66,768	435,766

Project No: 60028113 DOC Scada System Replace

Company: 001-Electric Services
Location: 600 Distribution

Project Information

<u>Construction Start Date</u>	4/15/2013	<u>Estimated Completion Date</u>	3/30/2017
<u>List Interim In-Service Dates</u>	N/A		

Project Need Justification

Currently, no contingency plan exists in the event an incident requires the evacuation of or a catastrophe that destroys the Distribution Operations Center (DOC). This project funds the necessary work to provide a backup facility and ensure continuity of service for customers.

Project Alternatives

There are minimal alternatives to this project, other than the choice of location for the backup facility. The Power Operations Facility was chosen because it is a secure location that has similar systems/processes as the DOC. In addition, a large portion of the DOC's SCADA communications comes through the Power Operations building, which will make it easier to connect to existing systems.

Technical Aspects

The project involves installing a Supervisory Control and Data Acquisition (SCADA) server, a Prism Communication Interface (PCI), a Trouble Management Server (TMS), a Historical Data Server, a firewall, and a network switch. Communication lines will need to be pulled over to the new equipment as well. At completion, there will be six new workstations that will need to be setup.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	60028113	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	32,431			0	0	0	0	0	0	32,431		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	10,037			0	0	0	0	0	0	10,037		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	0	0	0	0		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	75,614			2,014	2,023	1,876	1,908	1,856	1,924	87,215		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	2,608			0	0	0	0	0	0	2,608		
914-Pension and Benefits Load	9,482			0	0	0	0	0	0	9,482		
915-Injuries and Damages Load	2,528			0	0	0	0	0	0	2,528		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	10,104			0	0	0	0	0	0	10,104		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	38,005			0	0	0	0	0	0	38,005		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	180,810			2,014	2,023	1,876	1,908	1,856	1,924	192,411		
825-Clearings	-147,564			0	0	0	0	0	0	-147,564		
Cir Sum	-147,564			0	0	0	0	0	0	-147,564		
Proj Net	33,246			2,014	2,023	1,876	1,908	1,856	1,924	44,847		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	60028113	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	32,431	0	0	0	0	0	0	0	0	0	0	0	0	32,431
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	10,037	0	0	0	0	0	0	0	0	0	0	0	0	10,037
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	87,215	1,954	1,776	1,978	0	0	0	0	0	0	0	0	0	92,923
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	2,608	0	0	0	0	0	0	0	0	0	0	0	0	2,608
	914-Pension and Benefits Load	9,482	0	0	0	0	0	0	0	0	0	0	0	0	9,482
	915-Injuries and Damages Load	2,528	0	0	0	0	0	0	0	0	0	0	0	0	2,528
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	10,104	0	0	0	0	0	0	0	0	0	0	0	0	10,104
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	38,005	0	0	0	0	0	0	0	0	0	0	0	0	38,005
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	192,411	1,954	1,776	1,978	0	0	0	0	0	0	0	0	0	198,119
	825-Clearings	-147,564	0	0	-464,927	0	0	0	0	0	0	0	0	0	-612,491
	Clr Sum	-147,564	0	0	-464,927	0	0	0	0	0	0	0	0	0	-612,491
Proj Net		44,847	1,954	1,776	-462,948	0	0	0	0	0	0	0	0	0	-414,372

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	60028113	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	32,431	0	0	0	0	0	0	0	0	0	0	0	0	32,431
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	10,037	0	0	0	0	0	0	0	0	0	0	0	0	10,037
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	92,923	0	0	0	0	0	0	0	0	0	0	0	0	92,923
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	2,608	0	0	0	0	0	0	0	0	0	0	0	0	2,608
	914-Pension and Benefits Load	9,482	0	0	0	0	0	0	0	0	0	0	0	0	9,482
	915-Injuries and Damages Load	2,528	0	0	0	0	0	0	0	0	0	0	0	0	2,528
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	10,104	0	0	0	0	0	0	0	0	0	0	0	0	10,104
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	38,005	0	0	0	0	0	0	0	0	0	0	0	0	38,005
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	198,119	0	0	0	0	0	0	0	0	0	0	0	0	198,119
	825-Clearings	-612,491	0	0	0	0	0	0	0	0	0	0	0	0	-612,491
	Clr Sum	-612,491	0	0	0	0	0	0	0	0	0	0	0	0	-612,491
	Proj Net	-414,372	0	0	0	0	0	0	0	0	0	0	0	0	-414,372

Project No: 60034016 Cedro Peak Battery Replacement

Company: 001-Electric Services
Location: 600 Distribution

Project Information

Construction Start Date 10/20/2015 Estimated Completion Date 10/30/2016

List Interim In-Service Dates

Project Need Justification

This project is for the replacement of a new 48 volt battery plant at the Cedro Peak facility. The existing batteries in the battery plant have reached the end of their serviceable life and has operated at 12 volts instead of the standard 48 volts, which means that any new equipment would need special DC (direct current) to DC conversion equipment in order to operate on existing plant. In addition, the plant has no built in redundancy and the failure of a single rectifier on the plant would result in an extended outage until it is removed by an electrician and replaced. Lastly, the existing rectifier is no longer manufactured and its lack of spare parts makes replacement impossible.

Project Alternatives

Continue using existing rectifier, install DC DC converters and replace battery string. This alternative is not much less cost than replacing the rectifiers with the proper DC voltage directly. The route we have chosen has the added benefit of equipment redundancy. This means that an equipment failure does not result in an outage.

Technical Aspects

Work will include the installation of a new 48 volt plant and the process of cutting over service from the existing plant to this new plant. After completion, the old plant would be removed. In addition, a DC to DC conversion will be needed for the two way radio system.

Project Estimate Approach

Costs for this project were estimated from quotes for a new battery plant from a certified supplier and bids received for battery installation, rectifier installation and cutover of services from other vendors. Part of the estimate also includes employee resources for completion of the work.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	60034016	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	0	-14,465	0	0	-14,465		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	0			0	0	0	-235,661	0	0	-235,661		
370-Outside Services	0			0	0	0	-34,395	6,666	6,667	-21,062		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	0			0	0	0	0	0	0	0		
610-Expenses - General	0			0	0	0	-2,105	0	0	-2,105		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	0			0	0	0	-1,138	0	0	-1,138		
914-Pension and Benefits Load	0			0	0	0	-4,331	0	0	-4,331		
915-Injuries and Damages Load	0			0	0	0	-943	0	0	-943		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	0			0	0	0	-26,206	0	0	-26,206		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	0			0	0	0	0	0	0	0		
926-A and G Loads	0			0	0	0	-23,847	555	555	-22,738		
928-AFUDC Debt Reg	0			0	0	0	0	0	0	0		
929-AFUDC - Equity Regular	0			0	0	0	0	0	0	0		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	0			0	0	0	-343,091	7,221	7,222	-328,649		
825-Clearings	0			0	0	0	0	0	328,649	328,649		
Clr Sum	0			0	0	0	0	0	328,649	328,649		
Proj Net	0			0	0	0	-343,091	7,221	335,871	0		

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Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	60034016	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	-14,465	0	0	0	0	0	0	0	0	0	0	0	0	-14,465
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	-235,661	0	0	0	0	0	0	0	0	0	0	0	0	-235,661
	370-Outside Services	-21,062	0	0	0	0	0	0	0	0	0	0	0	0	-21,062
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	-2,105	0	0	0	0	0	0	0	0	0	0	0	0	-2,105
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	-1,138	0	0	0	0	0	0	0	0	0	0	0	0	-1,138
	914-Pension and Benefits Load	-4,331	0	0	0	0	0	0	0	0	0	0	0	0	-4,331
	915-Injuries and Damages Load	-943	0	0	0	0	0	0	0	0	0	0	0	0	-943
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	-26,206	0	0	0	0	0	0	0	0	0	0	0	0	-26,206
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	-22,738	0	0	0	0	0	0	0	0	0	0	0	0	-22,738
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	-328,649	0	0	0	0	0	0	0	0	0	0	0	0	-328,649
	825-Clearings	328,649	0	0	0	0	0	0	0	0	0	0	0	0	328,649
	Clr Sum	328,649	0	0	0	0	0	0	0	0	0	0	0	0	328,649
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	60034016	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	-14,465	0	0	0	0	0	0	0	0	0	0	0	0	-14,465
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	-235,661	0	0	0	0	0	0	0	0	0	0	0	0	-235,661
	370-Outside Services	-21,062	0	0	0	0	0	0	0	0	0	0	0	0	-21,062
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391~Jt Proj Bills to PNM-Non-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	-2,105	0	0	0	0	0	0	0	0	0	0	0	0	-2,105
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	-1,138	0	0	0	0	0	0	0	0	0	0	0	0	-1,138
	914-Pension and Benefits Load	-4,331	0	0	0	0	0	0	0	0	0	0	0	0	-4,331
	915-Injuries and Damages Load	-943	0	0	0	0	0	0	0	0	0	0	0	0	-943
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	-26,206	0	0	0	0	0	0	0	0	0	0	0	0	-26,206
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	-22,738	0	0	0	0	0	0	0	0	0	0	0	0	-22,738
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNM R D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	-328,649	0	0	0	0	0	0	0	0	0	0	0	0	-328,649
	825-Clearings	328,649	0	0	0	0	0	0	0	0	0	0	0	0	328,649
	Clr Sum	328,649	0	0	0	0	0	0	0	0	0	0	0	0	328,649
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 89901613 Rio Hondo Service Area Reconfiguration

Company: 001-Electric Services
Location: 899 Distribution

Project Information

Construction Start Date 1/1/2016 Estimated Completion Date 9/30/2016

List Interim In-Service Dates
N/A

Project Need Justification

This project is to provide a second feeder source, Panorama Feeder 11, into western Corrales. A Rio Hondo Reconfiguration Study shows voltage in Corrales under normal conditions is outside of American National Standards Institute (ANSI) Range A, the national standard for utilization voltage regulation. For example, during the 2014 summer peak, the load served by the line on Corrales road caused the conductor to exceed its normal rating. Building a line extension between Panorama Feeder 11 and Rio Hondo Feeder 13 and connecting several single-phase taps to it in western Corrales, as well as additional re-phasing, corrects the low voltage problems in Corrales and reduces the load on both the Corrales Road conductor and Rio Hondo Substation transformer. Eventually, the new circuit will be served from the proposed Corrales Bluff unit transformer. Having two circuits in the Corrales area from two different sources, Rio Hondo and Corrales Bluff, will provide greater reliability for the Village of Corrales since the new feeders can be used to provide backup support for each other. Also, breaking up the large single-phase loops in Corrales into smaller loops will improve reliability, resulting in fewer customers affected by an outage on any one loop. The types of costs that are covered by the project funds are internal labor, external labor, materials, equipment, and right-of-way (ROW).

Project Alternatives

A route up the western edge of Corrales was considered, however, the new route was opposed by the new Village of Corrales Mayor and City Council. Since both routes accomplished the project objective, the preferred route by PNM was chosen. The "do nothing" alternative is not a viable option as improvements are needed in this area to address voltage and equipment overload issues that occur under normal operating conditions.

Technical Aspects

This project is to extend a three-phase line along Loma Larga Rd. in Corrales from Coronado Rd., approximately 22,200 ft., using overhead construction and will connect to the three-phase 750AL underground conductor from switch SW674S on Paseo Tomas Montoya. This will also involve the transfer of several single-phase loops from Rio Hondo Feeder 13 to this new line extension served by Panorama Feeder 11, install one new 1200 kVAR capacitor bank, and install three new overhead switches.

Project Estimate Approach

The project cost estimates are developed using PNM's Compatible Units (CUs) and in historical cost information for similar type projects. The CUs provide unit costs for materials, labor, equipment. Initial estimates developed using CUs are based on best available information at the time of preliminary design and may change due to unforeseen routing or site specific conditions. Other costs are established by either using historical costs or using estimated costs determined by the governing agency and/or a bidding process. These other costs include, but are not limited to, permitting, ROW, contractor costs and environmental.

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	89901613	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	22,403			12,000	10,000	0	0	0	0	44,403		
120-Overtime-General	989			0	0	0	0	0	0	989		
350-Material Issues-Major	38,019			12,000	5,000	0	0	0	0	55,019		
370-Outside Services	46,567			1,625	0	0	0	0	0	48,192		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	0			0	0	0	0	0	0	0		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	422			0	0	0	0	0	0	422		
610-Expenses - General	0			350	0	0	0	0	0	350		
805-Land and Land Rights	0			0	0	0	0	0	0	0		
807-Non Refundable Contribution	0			0	0	0	0	0	0	0		
829-Construction Adjustment	0			0	0	0	0	0	0	0		
426-Capitalized Interest	0			0	0	0	0	0	0	0		
908-Luna AR - Labor	0			0	0	0	0	0	0	0		
909-Luna AR - Other	0			0	0	0	0	0	0	0		
913-Payroll Taxes Load	2,107			944	787	0	0	0	0	3,839		
914-Pension and Benefits Load	8,011			3,593	2,994	0	0	0	0	14,598		
915-Injuries and Damages Load	1,758			782	652	0	0	0	0	3,192		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	3,540			1,334	556	0	0	0	0	5,430		
922-Minor Material Load	3,371			0	0	0	0	0	0	3,371		
925-E and S Loads	16,813			5,790	3,595	0	0	0	0	26,197		
926-A and G Loads	7,212			2,161	1,248	0	0	0	0	10,621		
928-AFUDC Debt Reg	712			413	489	519	0	0	0	2,132		
929-AFUDC - Equity Regular	346			447	529	562	0	0	0	1,884		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	152,270			41,440	25,850	1,081	0	0	0	220,640		
825-Clearings	0			0	0	-231,257	0	0	0	-231,257		
Cir Sum	0			0	0	-231,257	0	0	0	-231,257		
Proj Net	152,270			41,440	25,850	-230,177	0	0	0	-10,617		

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	89901613	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	44,403	0	0	0	0	0	0	0	0	0	0	0	0	44,403
	120-Overtime-General	989	0	0	0	0	0	0	0	0	0	0	0	0	989
	350-Material Issues-Major	55,019	0	0	0	0	0	0	0	0	0	0	0	0	55,019
	370-Outside Services	48,192	0	0	0	0	0	0	0	0	0	0	0	0	48,192
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	422	0	0	0	0	0	0	0	0	0	0	0	0	422
	610-Expenses - General	350	0	0	0	0	0	0	0	0	0	0	0	0	350
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	3,839	0	0	0	0	0	0	0	0	0	0	0	0	3,839
	914-Pension and Benefits Load	14,598	0	0	0	0	0	0	0	0	0	0	0	0	14,598
	915-Injuries and Damages Load	3,192	0	0	0	0	0	0	0	0	0	0	0	0	3,192
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	5,430	0	0	0	0	0	0	0	0	0	0	0	0	5,430
	922-Minor Material Load	3,371	0	0	0	0	0	0	0	0	0	0	0	0	3,371
	925-E and S Loads	26,197	0	0	0	0	0	0	0	0	0	0	0	0	26,197
	926-A and G Loads	10,621	0	0	0	0	0	0	0	0	0	0	0	0	10,621
	928-AFUDC Debt Reg	2,132	0	0	0	0	0	0	0	0	0	0	0	0	2,132
	929-AFUDC - Equity Regular	1,884	0	0	0	0	0	0	0	0	0	0	0	0	1,884
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	220,640	0	0	0	0	0	0	0	0	0	0	0	0	220,640
	825-Clearings	-231,257	0	0	0	0	0	0	0	0	0	0	0	0	-231,257
	Clr Sum	-231,257	0	0	0	0	0	0	0	0	0	0	0	0	-231,257
	Proj Net	-10,617	0	0	0	0	0	0	0	0	0	0	0	0	-10,617

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	89901613	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	44,403	0	0	0	0	0	0	0	0	0	0	0	0	44,403	
120-Overtime-General	989	0	0	0	0	0	0	0	0	0	0	0	0	989	
350-Material Issues-Major	55,019	0	0	0	0	0	0	0	0	0	0	0	0	55,019	
370-Outside Services	48,192	0	0	0	0	0	0	0	0	0	0	0	0	48,192	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
530-Employee Expense	422	0	0	0	0	0	0	0	0	0	0	0	0	422	
610-Expenses - General	350	0	0	0	0	0	0	0	0	0	0	0	0	350	
805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
807-Non Refundable Contribution	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
829-Construction Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
913-Payroll Taxes Load	3,839	0	0	0	0	0	0	0	0	0	0	0	0	3,839	
914-Pension and Benefits Load	14,598	0	0	0	0	0	0	0	0	0	0	0	0	14,598	
915-Injuries and Damages Load	3,192	0	0	0	0	0	0	0	0	0	0	0	0	3,192	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	5,430	0	0	0	0	0	0	0	0	0	0	0	0	5,430	
922-Minor Material Load	3,371	0	0	0	0	0	0	0	0	0	0	0	0	3,371	
925-E and S Loads	26,197	0	0	0	0	0	0	0	0	0	0	0	0	26,197	
926-A and G Loads	10,621	0	0	0	0	0	0	0	0	0	0	0	0	10,621	
928-AFUDC Debt Reg	2,132	0	0	0	0	0	0	0	0	0	0	0	0	2,132	
929-AFUDC - Equity Regular	1,884	0	0	0	0	0	0	0	0	0	0	0	0	1,884	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	220,640	0	0	0	0	0	0	0	0	0	0	0	0	220,640	
825-Clearings	-231,257	0	0	0	0	0	0	0	0	0	0	0	0	-231,257	
Clr Sum	-231,257	0	0	0	0	0	0	0	0	0	0	0	0	-231,257	
Proj Net	-10,617	0	0	0	0	0	0	0	0	0	0	0	0	-10,617	

Project No: 89901615 Veranda Feeder 23

Company: 001-Electric Services
Location: 899 Distribution

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date 6/30/2017

List Interim In-Service Dates

N/A

Project Need Justification

This project is to extend a new feeder from the Veranda Unit II transformer to unload Black Ranch Feeder 14 and to serve growing load in the Cabezon area. Growth in this area includes both residential growth and a new outdoor mall, similar to the ABQ Uptown Mall. The 2013 peak load at the new Presbyterian Hospital was 1,378kW and the preliminary projected load for the new mall is 2,000kW. The combined load from the hospital and mall and the residential growth in the area subdivisions such as Cabezon will also make this feeder necessary for contingency support.

Project Alternatives

The need for Veranda Feeder 23 was anticipated when the Veranda Unit II transformer was installed. At that time, a four-feeder switchgear was installed at Veranda Substation and three feeders were placed in service. The available feeder bay will be used for Veranda Feeder 23. The configuration provides no other alternative to this project.

Technical Aspects

Extend a new Veranda Feeder 23 approximately 8,700 ft. south of Veranda Substation along 15th St. SE, 13th Ave SE, and 19th St SE to connect to switch SW558S. Further installation will include a new PMH-10 switchgear near the corner of Unser Blvd. SE and Black Arroyo Rd. NW and connect to the existing distribution system.

Project Estimate Approach

N/A

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 01

Project	89901615	Year	2016									
	Cost_Type	Bal 6/30/16		Jul	Aug	Sep	Oct	Nov	Dec	Total		
	110-Straight Time-General	3,387		2,450	15,000	0	0	0	0	20,837		
	120-Overtime-General	0		0	0	0	0	0	0	0		
	350-Material Issues-Major	62,370		90,000	25,000	0	0	0	0	177,370		
	370-Outside Services	81,031		97,000	109,000	0	0	0	0	287,031		
	374-Outside Svcs Legal	0		0	0	0	0	0	0	0		
	377-Outside Services-Temp Labor	0		0	0	0	0	0	0	0		
	391-Jt Proj Bills to PNM-Non-Labor	0		0	0	0	0	0	0	0		
	530-Employee Expense	0		0	0	0	0	0	0	0		
	610-Expenses - General	0		0	0	0	0	0	0	0		
	805-Land and Land Rights	0		0	0	0	0	0	0	0		
	807-Non Refundable Contribution	0		0	0	0	0	0	0	0		
	829-Construction Adjustment	0		0	0	0	-3,108	0	0	-3,108		
	426-Capitalized Interest	0		0	0	0	0	0	0	0		
	908-Luna AR - Labor	0		0	0	0	0	0	0	0		
	909-Luna AR - Other	0		0	0	0	0	0	0	0		
	913-Payroll Taxes Load	308		193	1,181	0	0	0	0	1,682		
	914-Pension and Benefits Load	1,173		734	4,491	0	0	0	0	6,397		
	915-Injuries and Damages Load	255		160	978	0	0	0	0	1,393		
	918-San Juan AR-Labor	0		0	0	0	0	0	0	0		
	921-Stores / Purchasing Load	9,681		10,008	2,780	0	0	0	0	22,469		
	922-Minor Material Load	4,346		0	0	0	0	0	0	4,346		
	925-E and S Loads	25,576		35,249	28,795	0	0	0	0	89,620		
	926-A and G Loads	12,819		15,762	12,397	0	0	0	0	40,978		
	928-AFUDC Debt Reg	594		746	1,258	1,488	1,492	0	0	5,578		
	929-AFUDC - Equity Regular	269		807	1,362	1,612	1,616	0	0	5,666		
	937-San Juan AR - Other	0		0	0	0	0	0	0	0		
	961-Luna A&G PNMR D&V	0		0	0	0	0	0	0	0		
	Cost Sum	201,810		253,109	202,241	3,100	0	0	0	660,260		
	825-Clearings	0		0	0	0	-663,469	0	0	-663,469		
	Clr Sum	0		0	0	0	-663,469	0	0	-663,469		
	Proj Net	201,810		253,109	202,241	3,100	-663,469	0	0	-3,210		

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 02

Project	89901615	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	20,837	0	0	0	0	0	0	0	0	0	0	0	0	20,837
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	177,370	0	0	0	0	0	0	0	0	0	0	0	0	177,370
	370-Outside Services	287,031	0	0	0	0	0	0	0	0	0	0	0	0	287,031
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	0	0	0	0	0	0	-252,665	0	0	0	0	0	0	-252,665
	829-Construction Adjustment	-3,108	0	0	0	0	0	0	0	0	0	0	0	0	-3,108
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,682	0	0	0	0	0	0	0	0	0	0	0	0	1,682
	914-Pension and Benefits Load	6,397	0	0	0	0	0	0	0	0	0	0	0	0	6,397
	915-Injuries and Damages Load	1,393	0	0	0	0	0	0	0	0	0	0	0	0	1,393
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	22,469	0	0	0	0	0	0	0	0	0	0	0	0	22,469
	922-Minor Material Load	4,346	0	0	0	0	0	0	0	0	0	0	0	0	4,346
	925-E and S Loads	89,620	0	0	0	0	0	0	0	0	0	0	0	0	89,620
	926-A and G Loads	40,978	0	0	0	0	0	0	0	0	0	0	0	0	40,978
	928-AFUDC Debt Reg	5,578	0	0	0	0	0	-329	0	0	0	0	0	0	5,249
	929-AFUDC - Equity Regular	5,666	0	0	0	0	0	-432	0	0	0	0	0	0	5,234
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	660,260	0	0	0	0	0	-253,426	0	0	0	0	0	0	406,833
	825-Clearings	-663,469	0	0	0	0	0	253,426	0	0	0	0	0	0	-410,043
	Clr Sum	-663,469	0	0	0	0	0	253,426	0	0	0	0	0	0	-410,043
	Proj Net	-3,210	0	0	0	0	0	0	0	0	0	0	0	0	-3,210

Projects with clearings from July 2016 through 2018, Budget data for July 2016 - 2018

Cost Year 03

Project	89901615	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	20,837	0	0	0	0	0	0	0	0	0	0	0	0	20,837
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	177,370	0	0	0	0	0	0	0	0	0	0	0	0	177,370
	370-Outside Services	287,031	0	0	0	0	0	0	0	0	0	0	0	0	287,031
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	391-Jt Proj Bills to PNM-Non-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	530-Employee Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	610-Expenses - General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	805-Land and Land Rights	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	807-Non Refundable Contribution	-252,665	0	0	0	0	0	0	0	0	0	0	0	0	-252,665
	829-Construction Adjustment	-3,108	0	0	0	0	0	0	0	0	0	0	0	0	-3,108
	426-Capitalized Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	908-Luna AR - Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	909-Luna AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	913-Payroll Taxes Load	1,682	0	0	0	0	0	0	0	0	0	0	0	0	1,682
	914-Pension and Benefits Load	6,397	0	0	0	0	0	0	0	0	0	0	0	0	6,397
	915-Injuries and Damages Load	1,393	0	0	0	0	0	0	0	0	0	0	0	0	1,393
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	22,469	0	0	0	0	0	0	0	0	0	0	0	0	22,469
	922-Minor Material Load	4,346	0	0	0	0	0	0	0	0	0	0	0	0	4,346
	925-E and S Loads	89,620	0	0	0	0	0	0	0	0	0	0	0	0	89,620
	926-A and G Loads	40,978	0	0	0	0	0	0	0	0	0	0	0	0	40,978
	928-AFUDC Debt Reg	5,249	0	0	0	0	0	0	0	0	0	0	0	0	5,249
	929-AFUDC - Equity Regular	5,234	0	0	0	0	0	0	0	0	0	0	0	0	5,234
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	406,833	0	0	0	0	0	0	0	0	0	0	0	0	406,833
	825-Clearings	-410,043	0	0	0	0	0	0	0	0	0	0	0	0	-410,043
	Clr Sum	-410,043	0	0	0	0	0	0	0	0	0	0	0	0	-410,043
	Proj Net	-3,210	0	0	0	0	0	0	0	0	0	0	0	0	-3,210

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Totals for Report\$28,706,247 (\$63,346) \$28,706,247