

Generation Tier 3 Capital Projects

PNM Exhibit CMO-4

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Project No:76617315 Common A&B Coal Reclaim System Refurbishment	\$13,935	\$13,935	\$13,935....	212
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Project No:77916317 Switchyard Transformer T3 Bushings - Carryover - 2017	\$34,866	\$0	\$34,866....	254
Project No:77916532 Switchyard Foundations and Structures - 2012	\$22,486	\$0	\$22,486....	258
Project No:77928015 Switchyard Substation Remote Access (.....	\$1,388)	(.....	\$17)	(.....	\$1,388)....	262
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Rio Bravo/La Luz/Production.....	\$203,380	(.....	\$223,971)	\$203,380....	272
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Project No:75216016 La Luz Cattle Guard CDAP	\$22,436	\$0	\$22,436....	289

Project No:75216116 La Luz CEM Bottle Storage Rack v01	\$19,676	\$0	\$19,676....	293
Project No:75216216 La Luz Turbine Stairways v01	\$99,560	\$0	\$99,560....	297
Totals for Report.....	\$2,826,521 (.....	\$83,639)	\$2,826,521....	300

Bulk Power Building Alloc

Company: 003-Bulk Power
Location: 357 Bulk Power Building Allocation

Project Information

<u>Construction Start Date</u>	6/22/2015	<u>Estimated Completion Date</u>	6/30/2016
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List Interim In-Service Dates

N/A

Project Need Justification

This project will replace the heating and cooling unit at Aztec Building A, which is approximately 15 years old. The current system is outdated and unreliable in providing service for the whole building. There has been frequent breakdowns that have affected the ability of employees to work comfortably. A new heating and cooling unit will add reliability and efficiency to the entire system.

Project Alternatives

The alternative is to not replace the unit which will directly affect employee's ability to work due to the inefficiency and low reliability of the current system.

Technical Aspects

This project includes removal of existing equipment, electrical, new disconnects, new t-stats, ductwork, crane service, and installation of: one 3-ton heat pump with backup heat strips; one 15-ton heat pump with backup heat strips and economizer; and one 20-ton heat pump with backup heat strips and economizer.

Project Estimate Approach

The estimated cost for this project 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. The Building Maintenance Supervisor worked with the General Services Manager and Supply Chain Analyst to select a vendor qualified in this field.

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

Cost Year 01

Project	35731115	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16										
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	338,355				0	0	0	0	0	0	338,355
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	2,191				0	0	0	0	0	0	2,191
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	28,151				0	0	0	0	0	0	28,151
928-AFUDC Debt Reg	6,101				0	0	0	0	0	0	6,101
929-AFUDC - Equity Regular	7,329				0	0	0	0	0	0	7,329
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	382,128				0	0	0	0	0	0	382,128
825-Clearings	-388,542				6,414	0	0	0	0	0	-382,128
Clr Sum	-388,542				6,414	0	0	0	0	0	-382,128
Proj Net	-6,414				6,414	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	35731115	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	338,355	0	0	0	0	0	0	0	0	0	0	0	0	338,355
	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	2,191	0	0	0	0	0	0	0	0	0	0	0	0	2,191
	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	28,151	0	0	0	0	0	0	0	0	0	0	0	0	28,151
	928-AFUDC Debt Reg	6,101	0	0	0	0	0	0	0	0	0	0	0	0	6,101
	929-AFUDC - Equity Regular	7,329	0	0	0	0	0	0	0	0	0	0	0	0	7,329
	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	382,128	0	0	0	0	0	0	0	0	0	0	0	0	382,128
	825-Clearings	-382,128	0	0	0	0	0	0	0	0	0	0	0	0	-382,128
	Clr Sum	-382,128	0	0	0	0	0	0	0	0	0	0	0	0	-382,128
	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	35731115	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	338,355	0	0	0	0	0	0	0	0	0	0	0	0	338,355
	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		2,191	0	0	0	0	0	0	0	0	0	0	0	0	2,191
	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	28,151	0	0	0	0	0	0	0	0	0	0	0	0	28,151
	928-AFUDC Debt Reg	6,101	0	0	0	0	0	0	0	0	0	0	0	0	6,101
929-AFUDC - Equity Regular		7,329	0	0	0	0	0	0	0	0	0	0	0	0	7,329
	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	382,128	0	0	0	0	0	0	0	0	0	0	0	0	382,128
	825-Clearings	-382,128	0	0	0	0	0	0	0	0	0	0	0	0	-382,128
	Clr Sum	-382,128	0	0	0	0	0	0	0	0	0	0	0	0	-382,128
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Luna

Project No: 74416015 Luna Capital Improvements 2015

Company: 003-Bulk Power
Location: 744 Luna

Project Information

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

List Interim In-Service Dates

Individual Capital Improvement Projects funded under this Project Fund will be placed In Service as appropriate. All Capital Improvement Projects funded under this Project Fund will be completed and In Service prior to December 31, 2015.

Project Need Justification

This funds for this project covers materials and external labor to address smaller emergent capital improvement projects at Luna in 2015. The need for these projects are to perform improvements related to emergent safety, regulatory and/or performance issues. By performing these projects, PNM will ensure the ongoing safe, compliant, efficient, and reliable operation of the plant. The projects currently in scope focus on improvements to the gas turbine inlet filtration systems, the high pressure stop/check valve and drum sight glasses, the emissions monitoring systems, and the cooling tower, as well as installation of a new Jib Crane and well field pump station air conditioner.

Project Alternatives

The capital improvements funded under this project will be completed only after attaining the approval to spend capital to address an emergent need. For each identified project, alternatives will be evaluated on a cost basis and the expected effectiveness of each alternative to resolve the emergent need/issue.

Technical Aspects

Each capital improvement project will be properly evaluated and engineered to effectively address the emergent need in a cost effective manner. The emergent needs include installing a new Jib Crane, Cooling Tower Upgrades, High-Pressure Drum Sight glasses, U1 Stop/Check Valve, new gas turbine inlet air filtration components; Well field Station Air Conditioner, and upgrading NOx Analyzers.

Project Estimate Approach

N/A

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

Cost Year 01

Project	74416015	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	1,107,941			0	0	0	0	0	0	1,107,941		
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	-738,553			0	0	0	0	0	0	-738,553		
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	3,263			0	0	0	0	0	0	3,263		
929-AFUDC - Equity Regular	4,198			0	0	0	0	0	0	4,198		
937-San Juan AR - Other	0			0	0	0	0	0	0	0		
961-Luna A&G PNMR D&V	30,690			0	0	0	0	0	0	30,690		
Cost Sum	407,538			0	0	0	0	0	0	407,538		
825-Clearings	-378,896			0	0	0	0	0	-53,919	-432,815		
Clr Sum	-378,896			0	0	0	0	0	-53,919	-432,815		
Proj Net	28,642			0	0	0	0	0	-53,919	-25,277		

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

Cost Year 02

Project	74416015	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	1,107,941	0	0	0	0	0	0	0	0	0	0	0	0	1,107,941
	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	-738,553	0	0	0	0	0	0	0	0	0	0	0	0	-738,553
	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	3,263	0	0	0	0	0	0	0	0	0	0	0	0	3,263
929-AFUDC - Equity Regular		4,198	0	0	0	0	0	0	0	0	0	0	0	0	4,198
	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	30,690	0	0	0	0	0	0	0	0	0	0	0	0	30,690
	Cost Sum	407,538	0	0	0	0	0	0	0	0	0	0	0	0	407,538
	825-Clearings	-432,815	0	0	0	0	0	0	0	0	0	0	0	0	-432,815
	Clr Sum	-432,815	0	0	0	0	0	0	0	0	0	0	0	0	-432,815
Proj Net		-25,277	0	0	0	0	0	0	0	0	0	0	0	0	-25,277

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

Cost Year 03

Project	74416015	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	1,107,941	0	0	0	0	0	0	0	0	0	0	0	0	1,107,941
	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	-738,553	0	0	0	0	0	0	0	0	0	0	0	0	-738,553
	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	3,263	0	0	0	0	0	0	0	0	0	0	0	0	3,263
	929-AFUDC - Equity Regular	4,198	0	0	0	0	0	0	0	0	0	0	0	0	4,198
	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	30,690	0	0	0	0	0	0	0	0	0	0	0	0	30,690
	Cost Sum	407,538	0	0	0	0	0	0	0	0	0	0	0	0	407,538
	825-Clearings	-432,815	0	0	0	0	0	0	0	0	0	0	0	0	-432,815
	Clr Sum	-432,815	0	0	0	0	0	0	0	0	0	0	0	0	-432,815
	Proj Net	-25,277	0	0	0	0	0	0	0	0	0	0	0	0	-25,277

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Project No: 74416811 Luna Capital Improvements

Company: 003-Bulk Power
Location: 744 Luna

Project Information

Construction Start Date 1/1/2014 Estimated Completion Date 12/1/2016

List Interim In-Service Dates

Individual Capital Improvement Projects funded under this Project Fund will be placed In Service as appropriate. All Capital Improvement Projects funded under this Project Fund will be completed and In Service prior to December 31, 2014.

Project Need Justification

This project funds smaller emergent Capital Improvement Projects at Luna and will address emergent safety, regulatory and/or performance issues to ensure ongoing safe, compliant, efficient and reliable operation of the plant.

Project Alternatives

For each work order within this blanket budget, alternatives will be evaluated on a cost basis and based on each alternative's expected effectiveness at addressing the emergent need.

Technical Aspects

Work included in this project are projects to install new maintenance platform structures, improvements to the chiller buildings, cooling tower fan upgrades, installation of a new fire protection system under the steam turbine, installation of a new Unit 2 high-pressure steam stop/check valve, installation of new power conditioners for the hydrogen generators, and replacement of a plant vehicle.

Project Estimate Approach

N/A

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

Cost Year 01

Project	74416811	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
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	1,963,484			0	0	0	0	0	0	1,963,484
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	-1,308,859			0	0	0	0	0	0	-1,308,859
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	11,000			0	0	0	0	0	0	11,000
929-AFUDC - Equity Regular	12,134			0	0	0	0	0	0	12,134
937-San Juan AR - Other	0			0	0	0	0	0	0	0
961-Luna A&G PNMR D&V	49,832			0	0	0	0	0	0	49,832
Cost Sum	727,592			0	0	0	0	0	0	727,592
825-Clearings	-727,592			0	0	0	0	0	2,029	-725,563
Clr Sum	-727,592			0	0	0	0	0	2,029	-725,563
Proj Net	0			0	0	0	0	0	2,029	2,029

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

Cost Year 02

Project	74416811	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	1,963,484	0	0	0	0	0	0	0	0	0	0	0	0	1,963,484
	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	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	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	-1,308,859	0	0	0	0	0	0	0	0	0	0	0	0	-1,308,859
	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	0
915-Injuries and Damages Load	0	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	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	11,000	0	0	0	0	0	0	0	0	0	0	0	0	11,000
929-AFUDC - Equity Regular	12,134	0	0	0	0	0	0	0	0	0	0	0	0	0	12,134
	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	49,832	0	0	0	0	0	0	0	0	0	0	0	0	0	49,832
	Cost Sum	727,592	0	0	0	0	0	0	0	0	0	0	0	0	727,592
	825-Clearings	-725,563	0	0	0	0	0	0	0	0	0	0	0	0	-725,563
	Clr Sum	-725,563	0	0	0	0	0	0	0	0	0	0	0	0	-725,563
Proj Net		2,029	0	0	0	0	0	0	0	0	0	0	0	0	2,029

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

Cost Year 03

Project	74416811	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	1,963,484	0	0	0	0	0	0	0	0	0	0	0	0	1,963,484
	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	-1,308,859	0	0	0	0	0	0	0	0	0	0	0	0	-1,308,859
	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	11,000	0	0	0	0	0	0	0	0	0	0	0	0	11,000
	929-AFUDC - Equity Regular	12,134	0	0	0	0	0	0	0	0	0	0	0	0	12,134
	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	49,832	0	0	0	0	0	0	0	0	0	0	0	0	49,832
	Cost Sum	727,592	0	0	0	0	0	0	0	0	0	0	0	0	727,592
	825-Clearings	-725,563	0	0	0	0	0	0	0	0	0	0	0	0	-725,563
	Clr Sum	-725,563	0	0	0	0	0	0	0	0	0	0	0	0	-725,563
	Proj Net	2,029	0	0	0	0	0	0	0	0	0	0	0	0	2,029

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Reeves

Project No: 71316016 Reeves Relay Room HVAC Replacement

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

<u>Construction Start Date</u>	7/15/2016	<u>Estimated Completion Date</u>	8/31/2016
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

The Reeves relay room heating and cooling system (HVAC) has failed. The entire unit must be replaced in order for it to work adequately. The HVAC system provides climate control for the distributive control system (DCS). The DCS system provides control and monitoring for the Reeves units and it is imperative that it is properly kept cool to function adequately in order to maintain the Reeves unit's reliability. If the DCS system was to overheat, it will cause a unit trip. The most viable approach to remedy the failing HVAC system is to replace the entire HVAC system. An outside contractor will provide and install the HVAC unit, while PNM engineering will provide project schedule tracking and costcontrol.

Project Alternatives

The do nothing option is not an available option because the HVAC system has already failed. Another option considered, was to replace the parts of the HVAC system which has failed. This option is not viable because it would leave open the possibility of failure once again (and sooner) with the other aging components left in place.

Technical Aspects

Vendor will provide a complete HVAC system that includes heating and cooling cycles.

Project Estimate Approach

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

Cost Year 01

Project	71316016	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	137	0	0	0	0	137		
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	22,347	0	0	0	0	22,347		
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	9	0	0	0	0	9		
914-Pension and Benefits Load	0			0	43	0	0	0	0	43		
915-Injuries and Damages Load	0			0	4	0	0	0	0	4		
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	1,871	0	0	0	0	1,871		
928-AFUDC Debt Reg	0			0	28	0	0	0	0	28		
929-AFUDC - Equity Regular	0			0	30	0	0	0	0	30		
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	24,469	0	0	0	0	24,469		
825-Clearings	0			0	-24,469	0	0	0	0	-24,469		
Clr Sum	0			0	-24,469	0	0	0	0	-24,469		
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	71316016	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	137	0	0	0	0	0	0	0	0	0	0	0	0	137
	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	22,347	0	0	0	0	0	0	0	0	0	0	0	0	22,347
	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	9	0	0	0	0	0	0	0	0	0	0	0	0	9
914-Pension and Benefits Load		43	0	0	0	0	0	0	0	0	0	0	0	0	43
915-Injuries and Damages Load		4	0	0	0	0	0	0	0	0	0	0	0	0	4
	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	1,871	0	0	0	0	0	0	0	0	0	0	0	0	1,871
	928-AFUDC Debt Reg	28	0	0	0	0	0	0	0	0	0	0	0	0	28
929-AFUDC - Equity Regular		30	0	0	0	0	0	0	0	0	0	0	0	0	30
	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	24,469	0	0	0	0	0	0	0	0	0	0	0	0	24,469
	825-Clearings	-24,469	0	0	0	0	0	0	0	0	0	0	0	0	-24,469
	Clr Sum	-24,469	0	0	0	0	0	0	0	0	0	0	0	0	-24,469
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	71316016	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	137	0	0	0	0	0	0	0	0	0	0	0	0	137
	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	22,347	0	0	0	0	0	0	0	0	0	0	0	0	22,347
	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	9	0	0	0	0	0	0	0	0	0	0	0	0	9
914-Pension and Benefits Load		43	0	0	0	0	0	0	0	0	0	0	0	0	43
915-Injuries and Damages Load		4	0	0	0	0	0	0	0	0	0	0	0	0	4
	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	1,871	0	0	0	0	0	0	0	0	0	0	0	0	1,871
	928-AFUDC Debt Reg	28	0	0	0	0	0	0	0	0	0	0	0	0	28
929-AFUDC - Equity Regular		30	0	0	0	0	0	0	0	0	0	0	0	0	30
	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	24,469	0	0	0	0	0	0	0	0	0	0	0	0	24,469
	825-Clearings	-24,469	0	0	0	0	0	0	0	0	0	0	0	0	-24,469
	Clr Sum	-24,469	0	0	0	0	0	0	0	0	0	0	0	0	-24,469
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 71316316 Reeves Evap Pond Inlet Valves Upgrade

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

Construction Start Date 2/1/2016 Estimated Completion Date 12/31/2016

List Interim In-Service Dates

0

Project Need Justification

The two Reeves evaporation ponds are used to contain and evaporate water from the boiler blow down and demineralizer regeneration systems. The amount of the flow into each pond is controlled by two inlet manual valves. The valve flange for the south pond is leaking and pond water is seeping into the soil around the valve boxes because the valve boxes do not have sealed concrete bottom. In addition, both inlet valves are not fully closing and water is flowing from the higher level pond to the lower level pond. In order to stop the water leak and prevent future potential impacts to soil, the valves need to be replaced. The scope of the work consists of replacing both valves and replacing the water box on the south pond. In addition, a concrete sealed bottom will be installed on the north pond valve box. Furthermore, the impacted soil around the south inlet valve box will need to be tested and if test results indicate heavy metals in the soil, it will need to be shipped to a disposal center. PNM will manage the project costs and schedule.

Project Alternatives

The do nothing option is not acceptable and would lead to further contamination. Another option considered was to only change out the valves. The issue with this option is that the soil under each valve box is contaminated. The recommended option is the most complete and reliable option.

Technical Aspects

In order to stop the water leak and prevent future impacts to soil, the valves need to be replaced. The scope of the work consists of replacing both valves and replacing the water box on the south pond. In addition, a concrete sealed bottom will be installed on the north pond valve box. Furthermore, the contaminated soil around the south inlet valve box will need to be tested and if test results indicate heavy metals in the soil the soil will need to ship to a disposal center offsite. PNM will manage the project costs and schedule.

Project Estimate Approach

Various vendors will be needed to complete the project. The scope of work and design will be performed by PNM engineering. PNM will work with all vendors to test and commission the project. PNM engineering will track cost and schedule for the project.

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

Cost Year 01

Project	71316316	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16									
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		102,548			0	0	0	0	0	0	102,548
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		841			0	0	0	0	0	0	841
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		636			0	0	0	0	0	0	636
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		8,602			0	0	0	0	0	0	8,602
928-AFUDC Debt Reg		117			10	0	0	0	0	0	127
929-AFUDC - Equity Regular		71			11	0	0	0	0	0	82
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		112,815			21	0	0	0	0	0	112,836
825-Clearings		-110,939			-4,494	0	0	0	0	0	-115,432
Clr Sum		-110,939			-4,494	0	0	0	0	0	-115,432
Proj Net		1,877			-4,473	0	0	0	0	0	-2,596

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

Cost Year 02

Project	71316316	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	102,548	0	0	0	0	0	0	0	0	0	0	0	0	102,548
	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	841	0	0	0	0	0	0	0	0	0	0	0	0	841
	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		636	0	0	0	0	0	0	0	0	0	0	0	0	636
	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	8,602	0	0	0	0	0	0	0	0	0	0	0	0	8,602
	928-AFUDC Debt Reg	127	0	0	0	0	0	0	0	0	0	0	0	0	127
929-AFUDC - Equity Regular		82	0	0	0	0	0	0	0	0	0	0	0	0	82
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	112,836	0	0	0	0	0	0	0	0	0	0	0	0	112,836
	825-Clearings	-115,432	0	0	0	0	0	0	0	0	0	0	0	0	-115,432
	Clr Sum	-115,432	0	0	0	0	0	0	0	0	0	0	0	0	-115,432
Proj Net		-2,596	0	0	0	0	0	0	0	0	0	0	0	0	-2,596

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

Cost Year 03

Project	71316316	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	102,548	0	0	0	0	0	0	0	0	0	0	0	0	102,548
	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	841	0	0	0	0	0	0	0	0	0	0	0	0	841
	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	636	0	0	0	0	0	0	0	0	0	0	0	0	636
	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	8,602	0	0	0	0	0	0	0	0	0	0	0	0	8,602
	928-AFUDC Debt Reg	127	0	0	0	0	0	0	0	0	0	0	0	0	127
929-AFUDC - Equity Regular		82	0	0	0	0	0	0	0	0	0	0	0	0	82
	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	112,836	0	0	0	0	0	0	0	0	0	0	0	0	112,836
	825-Clearings	-115,432	0	0	0	0	0	0	0	0	0	0	0	0	-115,432
	Clr Sum	-115,432	0	0	0	0	0	0	0	0	0	0	0	0	-115,432
Proj Net		-2,596	0	0	0	0	0	0	0	0	0	0	0	0	-2,596

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Project No: 71316317 Reeves U2 DC Starters

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

Construction Start Date 3/1/2017 Estimated Completion Date 4/30/2017

List Interim In-Service Dates

0

Project Need Justification

The Reeves U2 125-Volt direct current (DC) starters provides the control for electrical power to switch on/off the DC lube oil system. The DC lube oil system is used to provide emergency oil to the turbine generator bearings in the event power is not available during turbine roll down after the Unit is tripped. The DC starter was installed in 1960, and is obsolete with no replacement parts available. In order to minimize unit downtime if the starter fails, PNM subject matter experts recommend purchasing a new DC starter with spare parts. The scope of works involves replacing the existing DC starter with a state-of-the art new DC starter.

Project Alternatives

The only other option is to do nothing. This option is not recommended because if the unit continues to operate at its current state, there is a high possibility an outage will occur because replacement parts are no longer available.

Technical Aspects

PNM will first perform a analysis of the current unit and specifications necessary to carry over in selecting a new unit. In addition, technical data will be gathered and provided to a third-party contractor for confirmation and approval. At that time, the contractor will facilitate the fabrication of the new unit and perform necessary tests. Ultimately, the contractor will also remove the old unit and perform all installation work for the new one.

Project Estimate Approach

The Reeves Unit 1 DC starter was replaced four years ago. As a result, PNM will request a bid from the original replacement contractor. Once the bid is evaluated and compared to the earlier bid, PNM will award the work to the contractor if the cost is within a similar cost range for the work completed for the Unit 1 DC starter. PNM engineering will manage project's cost and schedule.

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

Cost Year 01

Project	71316317	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	71316317	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	800	800	0	0	0	0	0	0	0	0	1,600
	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	0	0	0	0
	370-Outside Services	0	0	0	41,170	0	0	0	0	0	0	0	0	0	41,170
	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	55	55	0	0	0	0	0	0	0	0	110
	914-Pension and Benefits Load	0	0	0	253	253	0	0	0	0	0	0	0	0	506
	915-Injuries and Damages Load	0	0	0	18	18	0	0	0	0	0	0	0	0	36
	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	2,820	54	0	0	0	0	0	0	0	0	2,874
	928-AFUDC Debt Reg	0	0	0	59	119	0	0	0	0	0	0	0	0	178
	929-AFUDC - Equity Regular	0	0	0	77	157	0	0	0	0	0	0	0	0	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	0	0	0	45,252	1,456	0	0	0	0	0	0	0	0	46,708
	825-Clearings	0	0	0	0	-46,708	0	0	0	0	0	0	0	0	-46,708
	Clr Sum	0	0	0	0	-46,708	0	0	0	0	0	0	0	0	-46,708
Proj Net		0	0	0	45,252	-45,252	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	71316317	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,600	0	0	0	0	0	0	0	0	0	0	0	0	1,600
	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	0	0	0	0
	370-Outside Services	41,170	0	0	0	0	0	0	0	0	0	0	0	0	41,170
	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	110	0	0	0	0	0	0	0	0	0	0	0	0	110
	914-Pension and Benefits Load	506	0	0	0	0	0	0	0	0	0	0	0	0	506
915-Injuries and Damages Load		36	0	0	0	0	0	0	0	0	0	0	0	0	36
	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	2,874	0	0	0	0	0	0	0	0	0	0	0	0	2,874
	928-AFUDC Debt Reg	178	0	0	0	0	0	0	0	0	0	0	0	0	178
929-AFUDC - Equity Regular		234	0	0	0	0	0	0	0	0	0	0	0	0	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	46,708	0	0	0	0	0	0	0	0	0	0	0	0	46,708
	825-Clearings	-46,708	0	0	0	0	0	0	0	0	0	0	0	0	-46,708
	Clr Sum	-46,708	0	0	0	0	0	0	0	0	0	0	0	0	-46,708
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 71316417 Reeves U3 DC Starter

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

<u>Construction Start Date</u>	3/1/2017	<u>Estimated Completion Date</u>	4/30/2017
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

The Reeves U3 125-Volt direct current (DC) starter provides the control for electrical power to switch on/off the DC lube oil system. The DC lube oil system is used to provide emergency oil to the turbine generator bearings in the event AC power is not available during turbine roll down after a unit trip. The DC starter was installed in 1960. The DC starter system is obsolete and no replacement parts are available. In order to minimize unit downtime if the starter fails, PNM recommends purchasing a new DC starter with spare parts. The scope of works involves replacing the existing DC starter with a state-of-the art new DC starter.

Project Alternatives

The only other option is to do nothing. This option is not recommended because if the unit continues to operate at its current status, there is a high possibility an outage will occur because replacement parts are no longer available.

Technical Aspects

PNM will gather technical data and provide this information to the contractor. The contractor will fabricate the new starter and install and test.

Project Estimate Approach

Reeves unit 1 DC starter was replaced four years ago. As a result, PNM will request a bid from the original replacement contractor. Once the bid is evaluated and compared to the earlier bid, PNM will award the work effort to the contractor if the cost is within budget of the work effort completed for unit 1 DC starter. PNM engineering will manage project's cost and schedule.

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

Cost Year 01

Project	71316417	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	71316417	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	800	800	0	0	0	0	0	0	0	0	1,600
	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	0	0	0	0
	370-Outside Services	0	0	0	41,170	0	0	0	0	0	0	0	0	0	41,170
	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	55	55	0	0	0	0	0	0	0	0	110
	914-Pension and Benefits Load	0	0	0	253	253	0	0	0	0	0	0	0	0	506
	915-Injuries and Damages Load	0	0	0	18	18	0	0	0	0	0	0	0	0	36
	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	2,820	54	0	0	0	0	0	0	0	0	2,874
	928-AFUDC Debt Reg	0	0	0	59	119	0	0	0	0	0	0	0	0	178
	929-AFUDC - Equity Regular	0	0	0	77	157	0	0	0	0	0	0	0	0	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	0	0	0	45,252	1,456	0	0	0	0	0	0	0	0	46,708
	825-Clearings	0	0	0	0	-46,708	0	0	0	0	0	0	0	0	-46,708
	Clr Sum	0	0	0	0	-46,708	0	0	0	0	0	0	0	0	-46,708
	Proj Net	0	0	0	45,252	-45,252	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	71316417	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,600	0	0	0	0	0	0	0	0	0	0	0	0	1,600
	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	0	0	0	0
	370-Outside Services	41,170	0	0	0	0	0	0	0	0	0	0	0	0	41,170
	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	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	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	110	0	0	0	0	0	0	0	0	0	0	0	0	110
914-Pension and Benefits Load	506	0	0	0	0	0	0	0	0	0	0	0	0	0	506
915-Injuries and Damages Load	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36
	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	0
922-Minor Material Load	0	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	2,874	0	0	0	0	0	0	0	0	0	0	0	0	2,874
	928-AFUDC Debt Reg	178	0	0	0	0	0	0	0	0	0	0	0	0	178
929-AFUDC - Equity Regular	234	0	0	0	0	0	0	0	0	0	0	0	0	0	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	46,708	0	0	0	0	0	0	0	0	0	0	0	0	46,708
	825-Clearings	-46,708	0	0	0	0	0	0	0	0	0	0	0	0	-46,708
	Clr Sum	-46,708	0	0	0	0	0	0	0	0	0	0	0	0	-46,708
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 71316516 Reeves NERC CIP Upgrades

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

<u>Construction Start Date</u>	7/15/2016	<u>Estimated Completion Date</u>	9/30/2016
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

There are six external control interfaces that leave the Reeves plant. These interfaces include two connections to Rio Bravo, one to La Luz, one to the Power Operations Inter-Control Center Communications Protocol (ICCP), one ICCP connection to the Power Operations backup center and one connection to the PNM corporate network. Because of these control system interfaces, Reeves Generating station requires installation of additional firewalls, software and new hardware to comply with North American Electric Reliability Corporation (NERC) Critical Infrastructure Protection (CIP). Additional firewalls will improve control system protection by establishing a more secure connection to onsite and offsite ICCP client and server connections. The scope of the project includes engineering, purchase and configuration of required firewalls. In addition, new hardware, software will be required to interface to the control system at Reeves Station. PNM will perform all engineering, purchase all equipment, configure the firewalls and perform all project management activities. An outside contractor will configure the existing control system to interface to the new firewalls.

Project Alternatives

There are no other viable options. NERC requires that all generating facilities improve cyber security for plant control systems and onsite monitoring.

Technical Aspects

Installation of additional firewalls, software and new hardware to comply with NERC CIP. The scope of the project includes engineering, purchase and configuration of required firewalls.

Project Estimate Approach

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

Cost Year 01

Project	71316516	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
	Cost_Type	Bal 6/30/16									
110-Straight Time-General		0			0	0	7,543	0	0	0	7,543
120-Overtime-General		0			0	0	0	0	0	0	0
350-Material Issues-Major		0			0	0	26,750	0	0	0	26,750
370-Outside Services		0			0	0	29,015	0	0	0	29,015
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	508	0	0	0	508
914-Pension and Benefits Load		0			0	0	2,395	0	0	0	2,395
915-Injuries and Damages Load		0			0	0	241	0	0	0	241
918-San Juan AR-Labor		0			0	0	0	0	0	0	0
921-Stores / Purchasing Load		0			0	0	1,905	0	0	0	1,905
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	5,267	0	0	0	5,267
928-AFUDC Debt Reg		0			0	0	83	0	0	0	83
929-AFUDC - Equity Regular		0			0	0	90	0	0	0	90
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	73,797	0	0	0	73,797
825-Clearings		0			0	0	-73,797	0	0	0	-73,797
Clr Sum		0			0	0	-73,797	0	0	0	-73,797
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	71316516	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	7,543	0	0	0	0	0	0	0	0	0	0	0	0	7,543
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	26,750	0	0	0	0	0	0	0	0	0	0	0	0	26,750
	370-Outside Services	29,015	0	0	0	0	0	0	0	0	0	0	0	0	29,015
	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	508	0	0	0	0	0	0	0	0	0	0	0	0	508
	914-Pension and Benefits Load	2,395	0	0	0	0	0	0	0	0	0	0	0	0	2,395
	915-Injuries and Damages Load	241	0	0	0	0	0	0	0	0	0	0	0	0	241
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	1,905	0	0	0	0	0	0	0	0	0	0	0	0	1,905
	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	5,267	0	0	0	0	0	0	0	0	0	0	0	0	5,267
	928-AFUDC Debt Reg	83	0	0	0	0	0	0	0	0	0	0	0	0	83
	929-AFUDC - Equity Regular	90	0	0	0	0	0	0	0	0	0	0	0	0	90
	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	73,797	0	0	0	0	0	0	0	0	0	0	0	0	73,797
	825-Clearings	-73,797	0	0	0	0	0	0	0	0	0	0	0	0	-73,797
	Clr Sum	-73,797	0	0	0	0	0	0	0	0	0	0	0	0	-73,797
	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	71316516	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	7,543	0	0	0	0	0	0	0	0	0	0	0	0	7,543
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	26,750	0	0	0	0	0	0	0	0	0	0	0	0	26,750
	370-Outside Services	29,015	0	0	0	0	0	0	0	0	0	0	0	0	29,015
	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	508	0	0	0	0	0	0	0	0	0	0	0	0	508
	914-Pension and Benefits Load	2,395	0	0	0	0	0	0	0	0	0	0	0	0	2,395
	915-Injuries and Damages Load	241	0	0	0	0	0	0	0	0	0	0	0	0	241
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	1,905	0	0	0	0	0	0	0	0	0	0	0	0	1,905
	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	5,267	0	0	0	0	0	0	0	0	0	0	0	0	5,267
	928-AFUDC Debt Reg	83	0	0	0	0	0	0	0	0	0	0	0	0	83
	929-AFUDC - Equity Regular	90	0	0	0	0	0	0	0	0	0	0	0	0	90
	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	73,797	0	0	0	0	0	0	0	0	0	0	0	0	73,797
	825-Clearings	-73,797	0	0	0	0	0	0	0	0	0	0	0	0	-73,797
	Clr Sum	-73,797	0	0	0	0	0	0	0	0	0	0	0	0	-73,797
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 71316517 Reeves VFD Upgrades for Blowdowns

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

Construction Start Date 3/1/2017 Estimated Completion Date 4/30/2017

List Interim In-Service Dates

0

Project Need Justification

Two variable speed drive systems (VFD) are in service at the Reeves station. The VFD systems are used to control the level of blowdown to the city and the cooling tower blowdown tanks. The VFD systems also control the speed of the motor by varying the frequency from 20 to 60 hertz. The motors driven by the VFD systems are connected to a centrifugal pump. By varying the speed of the motor using the VFD, pump flow can be controlled. The VFDs are at the end of their life and no spare parts are available. Engineering recommends replacing the VFD to maintain unit availability.

Project Alternatives

The only other option is to do nothing. This option is not recommended because if the unit continues to operate at its current state, there is a high possibility an outage will occur because replacement parts are no longer available.

Technical Aspects

PNM will purchase the VFD systems and PNM maintenance personnel will install the new VFD systems. Engineering will assist in the configuration and commission of the VFD systems.

Project Estimate Approach

PNM will request a quote for a direct replacement for the VFD systems. Once PNM receives the quote, PNM will order the new VFD systems. PNM engineering will track the project's cost and schedule.

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

Cost Year 01

Project	71316517	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
	Cost_Type	Bal 6/30/16									
	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	71316517	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	800	800	0	0	0	0	0	0	0	0	1,600
	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	0	0	0	0
	370-Outside Services	0	0	0	41,170	0	0	0	0	0	0	0	0	0	41,170
	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	55	55	0	0	0	0	0	0	0	0	110
	914-Pension and Benefits Load	0	0	0	253	253	0	0	0	0	0	0	0	0	506
	915-Injuries and Damages Load	0	0	0	18	18	0	0	0	0	0	0	0	0	36
	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	2,820	54	0	0	0	0	0	0	0	0	2,874
	928-AFUDC Debt Reg	0	0	0	59	119	0	0	0	0	0	0	0	0	178
	929-AFUDC - Equity Regular	0	0	0	77	157	0	0	0	0	0	0	0	0	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	0	0	0	45,252	1,456	0	0	0	0	0	0	0	0	46,708
	825-Clearings	0	0	0	0	-46,708	0	0	0	0	0	0	0	0	-46,708
	Clr Sum	0	0	0	0	-46,708	0	0	0	0	0	0	0	0	-46,708
	Proj Net	0	0	0	45,252	-45,252	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	71316517	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,600	0	0	0	0	0	0	0	0	0	0	0	0	1,600
	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	0	0	0	0
	370-Outside Services	41,170	0	0	0	0	0	0	0	0	0	0	0	0	41,170
	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	110	0	0	0	0	0	0	0	0	0	0	0	0	110
	914-Pension and Benefits Load	506	0	0	0	0	0	0	0	0	0	0	0	0	506
	915-Injuries and Damages Load	36	0	0	0	0	0	0	0	0	0	0	0	0	36
	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	2,874	0	0	0	0	0	0	0	0	0	0	0	0	2,874
	928-AFUDC Debt Reg	178	0	0	0	0	0	0	0	0	0	0	0	0	178
	929-AFUDC - Equity Regular	234	0	0	0	0	0	0	0	0	0	0	0	0	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	46,708	0	0	0	0	0	0	0	0	0	0	0	0	46,708
	825-Clearings	-46,708	0	0	0	0	0	0	0	0	0	0	0	0	-46,708
	Clr Sum	-46,708	0	0	0	0	0	0	0	0	0	0	0	0	-46,708
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 71316617 Reeves NOx Analyzer Upgrades

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

<u>Construction Start Date</u>	3/1/2017	<u>Estimated Completion Date</u>	4/30/2017
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

The Reeves nitrogen oxide (NOx) analyzers are used to sample and measure the concentration of NOx being emitted at the unit's stack and into the atmosphere. The NOx analyzer is one of the major components of the plant's continuous emission monitoring system (CEMS) that is required by federal laws on emissions. The Reeves NOx analyzers are the end of their life cycle. No spare parts are available. PNM engineering recommends that these analyzers be replaced.

Project Alternatives

The only other option is to do nothing. This option is not recommended because the analyzer must be replaced. By not doing so, PNM runs the risk of exceeding environmental nitrogen oxide (NOx) limits.

Technical Aspects

PNM will purchase and install the new replacement NOx analyzers. PNM engineering will assist in the testing and commissioning of the system.

Project Estimate Approach

PNM will request and proposal for a direct replacement of the NOx analyzers. Once PNM receives the bid, PNM will order the new NOx analyzers. PNM engineering will manage the project's cost and schedule.

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

Cost Year 01

Project	71316617	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 71316617	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	2,200	2,200	0	0	0	0	0	0	0	0	4,400	
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	72,007	0	0	0	0	0	0	0	0	0	72,007	
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	152	152	0	0	0	0	0	0	0	0	303	
914-Pension and Benefits Load	0	0	0	696	696	0	0	0	0	0	0	0	0	1,391	
915-Injuries and Damages Load	0	0	0	50	50	0	0	0	0	0	0	0	0	99	
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	4,987	148	0	0	0	0	0	0	0	0	5,135	
928-AFUDC Debt Reg	0	0	0	104	214	0	0	0	0	0	0	0	0	318	
929-AFUDC - Equity Regular	0	0	0	137	280	0	0	0	0	0	0	0	0	417	
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	80,332	3,738	0	0	0	0	0	0	0	0	84,070	
825-Clearings	0	0	0	0	-84,070	0	0	0	0	0	0	0	0	-84,070	
Clr Sum	0	0	0	0	-84,070	0	0	0	0	0	0	0	0	-84,070	
Proj Net	0	0	0	80,332	-80,332	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	71316617	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	4,400	0	0	0	0	0	0	0	0	0	0	0	0	4,400
	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	72,007	0	0	0	0	0	0	0	0	0	0	0	0	72,007
	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	303	0	0	0	0	0	0	0	0	0	0	0	0	303
914-Pension and Benefits Load		1,391	0	0	0	0	0	0	0	0	0	0	0	0	1,391
915-Injuries and Damages Load		99	0	0	0	0	0	0	0	0	0	0	0	0	99
	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	5,135	0	0	0	0	0	0	0	0	0	0	0	0	5,135
	928-AFUDC Debt Reg	318	0	0	0	0	0	0	0	0	0	0	0	0	318
929-AFUDC - Equity Regular		417	0	0	0	0	0	0	0	0	0	0	0	0	417
	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	84,070	0	0	0	0	0	0	0	0	0	0	0	0	84,070
	825-Clearings	-84,070	0	0	0	0	0	0	0	0	0	0	0	0	-84,070
	Clr Sum	-84,070	0	0	0	0	0	0	0	0	0	0	0	0	-84,070
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 71316717 Reeves CO Analyzer Upgrades

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

Construction Start Date 3/1/2017 Estimated Completion Date 4/30/2017

List Interim In-Service Dates

0

Project Need Justification

The Reeves carbon monoxide (CO) analyzers are used to sample and measure the concentration of CO being emitted from the unit's stack and into the atmosphere. The CO analyzer is one of the major components of the plant's continuous emission monitoring system and also used to fine tune and control the plants excess oxygen to insure completed combustions occurs. The Reeves CO analyzers are the end of their life cycle and no spare parts are available. PNM engineering recommends that these analyzers be replaced.

Project Alternatives

The only other option is to do nothing. This option is not recommended because the analyzer must be replaced. By not doing so, PNM runs the risk of exceeding environmental carbon monoxide (CO) limits.

Technical Aspects

PNM will purchase and install the new replacement CO analyzers. PNM engineering will assist in the testing and commissioning of the system.

Project Estimate Approach

PNM will request and proposal for a direct replacement of the CO analyzers. Once PNM receives the bid, PNM will order the new CO analyzers. PNM engineering will manage the project's cost and schedule.

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

Cost Year 01

Project	71316717	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	71316717	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	2,200	2,200	0	0	0	0	0	0	0	0	4,400
	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	72,007	0	0	0	0	0	0	0	0	0	72,007
	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	152	152	0	0	0	0	0	0	0	0	303
	914-Pension and Benefits Load	0	0	0	696	696	0	0	0	0	0	0	0	0	1,391
	915-Injuries and Damages Load	0	0	0	50	50	0	0	0	0	0	0	0	0	99
	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	4,987	148	0	0	0	0	0	0	0	0	5,135
	928-AFUDC Debt Reg	0	0	0	104	214	0	0	0	0	0	0	0	0	318
	929-AFUDC - Equity Regular	0	0	0	137	280	0	0	0	0	0	0	0	0	417
	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	80,332	3,738	0	0	0	0	0	0	0	0	84,070
	825-Clearings	0	0	0	0	-84,070	0	0	0	0	0	0	0	0	-84,070
	Clr Sum	0	0	0	0	-84,070	0	0	0	0	0	0	0	0	-84,070
	Proj Net	0	0	0	80,332	-80,332	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	71316717	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	4,400	0	0	0	0	0	0	0	0	0	0	0	0	4,400
	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	72,007	0	0	0	0	0	0	0	0	0	0	0	0	72,007
	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	303	0	0	0	0	0	0	0	0	0	0	0	0	303
	914-Pension and Benefits Load	1,391	0	0	0	0	0	0	0	0	0	0	0	0	1,391
	915-Injuries and Damages Load	99	0	0	0	0	0	0	0	0	0	0	0	0	99
	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	5,135	0	0	0	0	0	0	0	0	0	0	0	0	5,135
	928-AFUDC Debt Reg	318	0	0	0	0	0	0	0	0	0	0	0	0	318
	929-AFUDC - Equity Regular	417	0	0	0	0	0	0	0	0	0	0	0	0	417
	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	84,070	0	0	0	0	0	0	0	0	0	0	0	0	84,070
	825-Clearings	-84,070	0	0	0	0	0	0	0	0	0	0	0	0	-84,070
	Clr Sum	-84,070	0	0	0	0	0	0	0	0	0	0	0	0	-84,070
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 71316813 Reeves U1,U2 PSH Superheater Replacement

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

<u>Construction Start Date</u>	1/1/2013	<u>Estimated Completion Date</u>	7/1/2016
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

The existing Reeves primary superheater tube bundles have reached the end of their life and must be replaced. Reeves is experiencing many tube leaks in this area which is impacted plant performance. Continued use of the existing superheater tube bundles will directly effect Reeves Unit 2 reliability, therefore they will be replaced.

Project Alternatives

There are two alternatives for this projectOption 1: Do nothing option. This option is not feasible because this will result in unit outages that will impact unit reliability. Option 2: Replace tube bundles. This option is the recommended option.

Technical Aspects

The scope of the work for the replacement includes the removal of the existing superheater tube bundles and the installation of new tube bundles with comprehensive QA certifications. In addition, new burner control software will be installed to improve combustion control. This will extend the life of the new superheater tube bundles. Installation will occur during a Unit 1 planned outage.

Project Estimate Approach

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

Cost Year 01

Project	71316813	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
110-Straight Time-General	6,893			0	0	0	0	0	0	6,893
120-Overtime-General	2,441			0	0	0	0	0	0	2,441
350-Material Issues-Major	323,280			0	0	0	0	0	0	323,280
370-Outside Services	330,016			0	0	0	0	0	0	330,016
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	417			0	0	0	0	0	0	417
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	677			0	0	0	0	0	0	677
914-Pension and Benefits Load	2,537			0	0	0	0	0	0	2,537
915-Injuries and Damages Load	280			0	0	0	0	0	0	280
918-San Juan AR-Labor	0			0	0	0	0	0	0	0
921-Stores / Purchasing Load	4,299			0	0	0	0	0	0	4,299
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	55,566			0	0	0	0	0	0	55,566
928-AFUDC Debt Reg	8,054			0	0	0	0	0	0	8,054
929-AFUDC - Equity Regular	11,731			0	0	0	0	0	0	11,731
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	746,191			0	0	0	0	0	0	746,191
825-Clearings	-752,081			1,077	0	0	0	0	0	-751,004
Clr Sum	-752,081			1,077	0	0	0	0	0	-751,004
Proj Net	-5,889			1,077	0	0	0	0	0	-4,812

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

Cost Year 02

Project	71316813	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	6,893	0	0	0	0	0	0	0	0	0	0	0	0	6,893
	120-Overtime-General	2,441	0	0	0	0	0	0	0	0	0	0	0	0	2,441
	350-Material Issues-Major	323,280	0	0	0	0	0	0	0	0	0	0	0	0	323,280
	370-Outside Services	330,016	0	0	0	0	0	0	0	0	0	0	0	0	330,016
	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	417	0	0	0	0	0	0	0	0	0	0	0	0	417
	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	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	677	0	0	0	0	0	0	0	0	0	0	0	0	677
	914-Pension and Benefits Load	2,537	0	0	0	0	0	0	0	0	0	0	0	0	2,537
	915-Injuries and Damages Load	280	0	0	0	0	0	0	0	0	0	0	0	0	280
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	4,299	0	0	0	0	0	0	0	0	0	0	0	0	4,299
	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	55,566	0	0	0	0	0	0	0	0	0	0	0	0	55,566
	928-AFUDC Debt Reg	8,054	0	0	0	0	0	0	0	0	0	0	0	0	8,054
	929-AFUDC - Equity Regular	11,731	0	0	0	0	0	0	0	0	0	0	0	0	11,731
	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	746,191	0	0	0	0	0	0	0	0	0	0	0	0	746,191
	825-Clearings	-751,004	0	0	0	0	0	0	0	0	0	0	0	0	-751,004
	Clr Sum	-751,004	0	0	0	0	0	0	0	0	0	0	0	0	-751,004
Proj Net		-4,812	0	0	0	0	0	0	0	0	0	0	0	0	-4,812

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

Cost Year 03

Project	71316813	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	6,893	0	0	0	0	0	0	0	0	0	0	0	0	6,893
	120-Overtime-General	2,441	0	0	0	0	0	0	0	0	0	0	0	0	2,441
	350-Material Issues-Major	323,280	0	0	0	0	0	0	0	0	0	0	0	0	323,280
	370-Outside Svcs	330,016	0	0	0	0	0	0	0	0	0	0	0	0	330,016
	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	417	0	0	0	0	0	0	0	0	0	0	0	0	417
	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	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	677	0	0	0	0	0	0	0	0	0	0	0	0	677
914-Pension and Benefits Load	915-Injuries and Damages Load	280	0	0	0	0	0	0	0	0	0	0	0	0	280
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	922-Minor Material Load	4,299	0	0	0	0	0	0	0	0	0	0	0	0	4,299
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	55,566	0	0	0	0	0	0	0	0	0	0	0	0	55,566
	928-AFUDC Debt Reg	8,054	0	0	0	0	0	0	0	0	0	0	0	0	8,054
929-AFUDC - Equity Regular	937-San Juan AR - Other	11,731	0	0	0	0	0	0	0	0	0	0	0	0	11,731
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	746,191	0	0	0	0	0	0	0	0	0	0	0	0	746,191
	825-Clearings	-751,004	0	0	0	0	0	0	0	0	0	0	0	0	-751,004
	Clr Sum	-751,004	0	0	0	0	0	0	0	0	0	0	0	0	-751,004
Proj Net		-4,812	0	0	0	0	0	0	0	0	0	0	0	0	-4,812

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Project No: 71316815 Reeves GSU Surge Arrestor & Bushing

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

Construction Start Date 8/1/2015 Estimated Completion Date 6/30/2016

List Interim In-Service Dates

0

Project Need Justification

The surge arresters on the generator step-up transformer (GSUs) of Reeves Units need to be upgraded. A surge arrester is a electrical device that protects the transformer from lightning strikes and voltage surges. Due to age and design flaws, the current brown porcelain-type arresters installed on the Reeves GSU transformers have been known to fail.

PNM has undertaken a massive change out of these particular surge arresters throughout the electrical transmission system. The scope of project includes the purchase and installation of the surge arresters during the next scheduled unit outages.

Project Alternatives

No other options were considered. The selected option is the most cost effective way to upgrade the GSU transformer surge arresters.

Technical Aspects

0

Project Estimate Approach

0

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

Cost Year 01

Project	71316815	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	7,693			0	0	0	0	0	0	7,693		
120-Overtime-General	1,531			0	0	0	0	0	0	1,531		
350-Material Issues-Major	0			0	0	0	0	0	0	0		
370-Outside Services	11,545			0	0	0	0	0	0	11,545		
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	699			0	0	0	0	0	0	699		
914-Pension and Benefits Load	2,692			0	0	0	0	0	0	2,692		
915-Injuries and Damages Load	510			0	0	0	0	0	0	510		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	86			0	0	0	0	0	0	86		
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	2,068			0	0	0	0	0	0	2,068		
928-AFUDC Debt Reg	722			0	0	0	0	0	0	722		
929-AFUDC - Equity Regular	548			0	0	0	0	0	0	548		
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	28,094			0	0	0	0	0	0	28,094		
825-Clearings	0			0	0	0	0	0	-33,502	-33,502		
Clr Sum	0			0	0	0	0	0	-33,502	-33,502		
Proj Net	28,094			0	0	0	0	0	-33,502	-5,408		

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

Cost Year 02

Project	71316815	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	7,693	0	0	0	0	0	0	0	0	0	0	0	0	7,693
	120-Overtime-General	1,531	0	0	0	0	0	0	0	0	0	0	0	0	1,531
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	11,545	0	0	0	0	0	0	0	0	0	0	0	0	11,545
	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	699	0	0	0	0	0	0	0	0	0	0	0	0	699
	914-Pension and Benefits Load	2,692	0	0	0	0	0	0	0	0	0	0	0	0	2,692
	915-Injuries and Damages Load	510	0	0	0	0	0	0	0	0	0	0	0	0	510
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	86	0	0	0	0	0	0	0	0	0	0	0	0	86
	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	2,068	0	0	0	0	0	0	0	0	0	0	0	0	2,068
	928-AFUDC Debt Reg	722	0	0	0	0	0	0	0	0	0	0	0	0	722
	929-AFUDC - Equity Regular	548	0	0	0	0	0	0	0	0	0	0	0	0	548
	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	28,094	0	0	0	0	0	0	0	0	0	0	0	0	28,094
	825-Clearings	-33,502	0	0	0	0	0	0	0	0	0	0	0	0	-33,502
	Clr Sum	-33,502	0	0	0	0	0	0	0	0	0	0	0	0	-33,502
	Proj Net	-5,408	0	0	0	0	0	0	0	0	0	0	0	0	-5,408

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

Cost Year 03

Project	71316815	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	7,693	0	0	0	0	0	0	0	0	0	0	0	0	7,693
	120-Overtime-General	1,531	0	0	0	0	0	0	0	0	0	0	0	0	1,531
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	11,545	0	0	0	0	0	0	0	0	0	0	0	0	11,545
	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	699	0	0	0	0	0	0	0	0	0	0	0	0	699
	914-Pension and Benefits Load	2,692	0	0	0	0	0	0	0	0	0	0	0	0	2,692
	915-Injuries and Damages Load	510	0	0	0	0	0	0	0	0	0	0	0	0	510
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	86	0	0	0	0	0	0	0	0	0	0	0	0	86
	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	2,068	0	0	0	0	0	0	0	0	0	0	0	0	2,068
	928-AFUDC Debt Reg	722	0	0	0	0	0	0	0	0	0	0	0	0	722
	929-AFUDC - Equity Regular	548	0	0	0	0	0	0	0	0	0	0	0	0	548
	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	28,094	0	0	0	0	0	0	0	0	0	0	0	0	28,094
	825-Clearings	-33,502	0	0	0	0	0	0	0	0	0	0	0	0	-33,502
	Clr Sum	-33,502	0	0	0	0	0	0	0	0	0	0	0	0	-33,502
	Proj Net	-5,408	0	0	0	0	0	0	0	0	0	0	0	0	-5,408

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Project No: 71334015 Reeves Data_Report Historian Upgrad

Company: 003-Bulk Power
Location: 713 Reeves

Project Information

<u>Construction Start Date</u>	9/1/2015	<u>Estimated Completion Date</u>	6/30/2016
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

Reeves plant daily and monthly reports are required for compliance reporting. Some of the reports include water consumption, net and gross megawatt output and auxiliary power usage. Currently, these reports are manually generated. To develop more accurate reports in a timely manner, the report process would benefit from further automation.

To automatic this report process, the Reeves Historian system needs to be upgraded. Reeves Historian is a data collection server that collects and stores all real time data every two seconds. This upgrade process will include reconfiguration of the system with installation of field instrumentation to gather additional data and the development of new reports that can be generated as needed. In addition, the plant control network will be reconfigured to collect data from all other northern oil and gas plants. The Woodenware reporting software loaded on the historian allows the user to trend and query data for preselected dates, times and time internals. In addition, this software allows for export of this data to Microsoft Excel.

Project Alternatives

One option considered was to utilize the current historian as is and further research ways to develop reports. The still will require that some data be gathered and entered manually. This option will not improve report accuracy or reduce time necessary to generate the reports.

Technical Aspects

The project involves the purchase, installation and programming of an Eaton Meter Gateway. The project will also include various other specific engineering, hardware, and software installations. PNM will provide wiring and interconnections.

Project Estimate Approach

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

Cost Year 01

Project	71334015	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
110-Straight Time-General	8,782			0	0	0	0	0	0	8,782
120-Overtime-General	11,137			0	0	0	0	0	0	11,137
350-Material Issues-Major	0			0	0	0	0	0	0	0
370-Outside Services	27,932			0	0	0	0	0	0	27,932
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	8,179			0	0	0	0	0	0	8,179
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	1,430			0	0	0	0	0	0	1,430
914-Pension and Benefits Load	3,084			0	0	0	0	0	0	3,084
915-Injuries and Damages Load	998			0	0	0	0	0	0	998
918-San Juan AR-Labor	0			0	0	0	0	0	0	0
921-Stores / Purchasing Load	187			0	0	0	0	0	0	187
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	4,803			0	0	0	0	0	0	4,803
928-AFUDC Debt Reg	1,270			0	0	0	0	0	0	1,270
929-AFUDC - Equity Regular	851			0	0	0	0	0	0	851
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	68,653			0	0	0	0	0	0	68,653
825-Clearings	0			0	0	0	0	0	-70,348	-70,348
Clr Sum	0			0	0	0	0	0	-70,348	-70,348
Proj Net	68,653			0	0	0	0	0	-70,348	-1,694

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

Cost Year 02

Project	71334015	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	8,782	0	0	0	0	0	0	0	0	0	0	0	0	8,782
	120-Overtime-General	11,137	0	0	0	0	0	0	0	0	0	0	0	0	11,137
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	27,932	0	0	0	0	0	0	0	0	0	0	0	0	27,932
	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	8,179	0	0	0	0	0	0	0	0	0	0	0	0	8,179
	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	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	1,430	0	0	0	0	0	0	0	0	0	0	0	0	1,430
	914-Pension and Benefits Load	3,084	0	0	0	0	0	0	0	0	0	0	0	0	3,084
	915-Injuries and Damages Load	998	0	0	0	0	0	0	0	0	0	0	0	0	998
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	187	0	0	0	0	0	0	0	0	0	0	0	0	187
	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	4,803	0	0	0	0	0	0	0	0	0	0	0	0	4,803
	928-AFUDC Debt Reg	1,270	0	0	0	0	0	0	0	0	0	0	0	0	1,270
	929-AFUDC - Equity Regular	851	0	0	0	0	0	0	0	0	0	0	0	0	851
	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	68,653	0	0	0	0	0	0	0	0	0	0	0	0	68,653
	825-Clearings	-70,348	0	0	0	0	0	0	0	0	0	0	0	0	-70,348
	Clr Sum	-70,348	0	0	0	0	0	0	0	0	0	0	0	0	-70,348
	Proj Net	-1,694	0	0	0	0	0	0	0	0	0	0	0	0	-1,694

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

Cost Year 03

Project	71334015	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	8,782	0	0	0	0	0	0	0	0	0	0	0	0	8,782
	120-Overtime-General	11,137	0	0	0	0	0	0	0	0	0	0	0	0	11,137
	350-Material Issues-Major	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	370-Outside Services	27,932	0	0	0	0	0	0	0	0	0	0	0	0	27,932
	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	8,179	0	0	0	0	0	0	0	0	0	0	0	0	8,179
	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	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	1,430	0	0	0	0	0	0	0	0	0	0	0	0	1,430
	914-Pension and Benefits Load	3,084	0	0	0	0	0	0	0	0	0	0	0	0	3,084
	915-Injuries and Damages Load	998	0	0	0	0	0	0	0	0	0	0	0	0	998
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	187	0	0	0	0	0	0	0	0	0	0	0	0	187
	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	4,803	0	0	0	0	0	0	0	0	0	0	0	0	4,803
	928-AFUDC Debt Reg	1,270	0	0	0	0	0	0	0	0	0	0	0	0	1,270
	929-AFUDC - Equity Regular	851	0	0	0	0	0	0	0	0	0	0	0	0	851
	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	68,653	0	0	0	0	0	0	0	0	0	0	0	0	68,653
	825-Clearings	-70,348	0	0	0	0	0	0	0	0	0	0	0	0	-70,348
	Clr Sum	-70,348	0	0	0	0	0	0	0	0	0	0	0	0	-70,348
	Proj Net	-1,694	0	0	0	0	0	0	0	0	0	0	0	0	-1,694

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San Juan

Project No: 76016221 Unit 1 Capitalization Wedge

Company: 003-Bulk Power
Location: 760 San Juan

Project Information

<u>Construction Start Date</u>	1/1/2015	<u>Estimated Completion Date</u>	12/31/2016
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

Capitalization wedge is developed to cover maintenance related activities that meets the capitalization criteria. Small to medium replacement of unforeseen equipment failures such as pump assemblies, medium size motors, and rebuild or replacement of large components of larger equipment. Values of individual projects are typically less than\$100,000 and have the potential of exceeding \$1 million in total on an annual basis.

Project Alternatives

Doing nothing is not an acceptable option. Replacement options are evaluated against repair options considering cost, schedule and system criticality on a case by case basis.

Technical Aspects

Specific work could include small to medium replacement of unforeseen equipment failures such as pump assemblies, medium size motors, and rebuild or replacement of large components of larger equipment. Design standards must be met when considering repair and replacement options.

Project Estimate Approach

Actual cost are recorded in plant maintenance management system to develop capital cost on an event basis. Repair and replacement alternatives are economically evaluated for best value and lowest evaluated cost based on bid price, delivery time, and age relate system requirements.

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

Cost Year 01

Project	76016221	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
110-Straight Time-General	3,440			0	0	0	0	0	0	3,440
120-Overtime-General	12,120			0	0	0	0	0	0	12,120
350-Material Issues-Major	325,568			0	0	0	0	0	0	325,568
370-Outside Services	61,381			0	0	0	0	0	0	61,381
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	-91	-91	-91	-272
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	1,119			0	0	0	0	0	0	1,119
914-Pension and Benefits Load	1,300			0	0	0	0	0	0	1,300
915-Injuries and Damages Load	508			0	0	0	0	0	0	508
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	13,802			0	0	0	0	0	0	13,802
928-AFUDC Debt Reg	2,235			43	43	43	44	44	44	2,496
929-AFUDC - Equity Regular	2,826			47	47	47	47	47	47	3,108
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	424,299			90	90	90	0	0	0	424,569
825-Clearings	-579,707			0	0	0	0	0	0	-579,707
Clr Sum	-579,707			0	0	0	0	0	0	-579,707
Proj Net	-155,408			90	90	90	0	0	0	-155,138

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

Cost Year 02

Project	76016221	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	3,440	0	0	0	0	0	0	0	0	0	0	0	0	3,440
	120-Overtime-General	12,120	0	0	0	0	0	0	0	0	0	0	0	0	12,120
	350-Material Issues-Major	325,568	0	0	0	0	0	0	0	0	0	0	0	0	325,568
	370-Outside Services	61,381	0	0	0	0	0	0	0	0	0	0	0	0	61,381
	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	-272	-116	0	0	0	0	0	0	0	0	0	0	0	-388
	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	1,119	0	0	0	0	0	0	0	0	0	0	0	0	1,119
	914-Pension and Benefits Load	1,300	0	0	0	0	0	0	0	0	0	0	0	0	1,300
	915-Injuries and Damages Load	508	0	0	0	0	0	0	0	0	0	0	0	0	508
	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	13,802	0	0	0	0	0	0	0	0	0	0	0	0	13,802
	928-AFUDC Debt Reg	2,496	50	0	0	0	0	0	0	0	0	0	0	0	2,546
	929-AFUDC - Equity Regular	3,108	66	0	0	0	0	0	0	0	0	0	0	0	3,174
	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	424,569	0	0	0	0	0	0	0	0	0	0	0	0	424,569
	825-Clearings	-579,707	-19,351	0	0	0	0	0	0	0	0	0	0	0	-599,057
	Clr Sum	-579,707	-19,351	0	0	0	0	0	0	0	0	0	0	0	-599,057
Proj Net		-155,138	-19,351	0	0	0	0	0	0	0	0	0	0	0	-174,488

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

Cost Year 03

Project	76016221	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	3,440	0	0	0	0	0	0	0	0	0	0	0	0	3,440
	120-Overtime-General	12,120	0	0	0	0	0	0	0	0	0	0	0	0	12,120
	350-Material Issues-Major	325,568	0	0	0	0	0	0	0	0	0	0	0	0	325,568
	370-Outside Services	61,381	0	0	0	0	0	0	0	0	0	0	0	0	61,381
	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	-388	0	0	0	0	0	0	0	0	0	0	0	0	-388
	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	1,119	0	0	0	0	0	0	0	0	0	0	0	0	1,119
	914-Pension and Benefits Load	1,300	0	0	0	0	0	0	0	0	0	0	0	0	1,300
	915-Injuries and Damages Load	508	0	0	0	0	0	0	0	0	0	0	0	0	508
	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	13,802	0	0	0	0	0	0	0	0	0	0	0	0	13,802
	928-AFUDC Debt Reg	2,546	0	0	0	0	0	0	0	0	0	0	0	0	2,546
	929-AFUDC - Equity Regular	3,174	0	0	0	0	0	0	0	0	0	0	0	0	3,174
	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	424,569	0	0	0	0	0	0	0	0	0	0	0	0	424,569
	825-Clearings	-599,057	0	0	0	0	0	0	0	0	0	0	0	0	-599,057
	Clr Sum	-599,057	0	0	0	0	0	0	0	0	0	0	0	0	-599,057
	Proj Net	-174,488	0	0	0	0	0	0	0	0	0	0	0	0	-174,488

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Project No: 76016226 Common Capitalization Wedge

Company: 003-Bulk Power
Location: 760 San Juan

Project Information

<u>Construction Start Date</u>	1/1/2015	<u>Estimated Completion Date</u>	1/31/2017
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

This capitalization wedge was developed to cover maintenance related activities that meet the capitalization criteria. Work could include small to medium replacement of unforeseen equipment failures such as pump assemblies, medium size motors, rebuild or replacement of large components of larger equipment. Values of individual projects are typically less than \$100,000 and have the potential of exceeding \$1 million in total on an annual basis.

Project Alternatives

Doing nothing is not an acceptable option. Replacement options are evaluated against repair options considering cost, schedule and system criticality on a case by case basis.

Technical Aspects

Work could include small to medium replacement of unforeseen equipment failures such as pump assemblies, medium size motors, rebuild or replacement of large components of larger equipment. Design standards must be met when considering repair and replacement options.

Project Estimate Approach

Actual cost are recorded in plant maintenance management system to develop capital cost on an event basis. Repair and replacement alternatives are economically evaluated for best value and lowest evaluated cost based on bid price, delivery time, and age relate system requirements.

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

Cost Year 01

Project	76016226	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	18,367			0	0	0	0	0	0	18,367		
120-Overtime-General	18,065			0	0	0	0	0	0	18,065		
350-Material Issues-Major	622,691			0	0	0	0	0	0	622,691		
370-Outside Services	139,535			0	0	0	0	0	0	139,535		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	3,538			0	0	0	0	0	0	3,538		
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	-349	-349	-349	-1,048		
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	2,719			0	0	0	0	0	0	2,719		
914-Pension and Benefits Load	6,530			0	0	0	0	0	0	6,530		
915-Injuries and Damages Load	1,255			0	0	0	0	0	0	1,255		
918-San Juan AR-Labor	0			0	0	0	0	0	0	0		
921-Stores / Purchasing Load	684			0	0	0	0	0	0	684		
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	32,689			0	0	0	0	0	0	32,689		
928-AFUDC Debt Reg	4,212			166	167	167	168	168	168	5,215		
929-AFUDC - Equity Regular	4,841			180	180	181	182	182	182	5,927		
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	855,126			345	347	349	0	0	0	856,167		
825-Clearings	-1,341,690			0	0	0	0	0	0	-1,341,690		
Clr Sum	-1,341,690			0	0	0	0	0	0	-1,341,690		
Proj Net	-486,564			345	347	349	0	0	0	-485,523		

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

Cost Year 02

Project	76016226	Year	2017												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	18,367	0	0	0	0	0	0	0	0	0	0	0	0	18,367	
120-Overtime-General	18,065	0	0	0	0	0	0	0	0	0	0	0	0	18,065	
350-Material Issues-Major	622,691	0	0	0	0	0	0	0	0	0	0	0	0	622,691	
370-Outside Services	139,535	0	0	0	0	0	0	0	0	0	0	0	0	139,535	
374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
377-Outside Services-Temp Labor	3,538	0	0	0	0	0	0	0	0	0	0	0	0	3,538	
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	-1,048	-448	0	0	0	0	0	0	0	0	0	0	0	-1,496	
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	2,719	0	0	0	0	0	0	0	0	0	0	0	0	2,719	
914-Pension and Benefits Load	6,530	0	0	0	0	0	0	0	0	0	0	0	0	6,530	
915-Injuries and Damages Load	1,255	0	0	0	0	0	0	0	0	0	0	0	0	1,255	
918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
921-Stores / Purchasing Load	684	0	0	0	0	0	0	0	0	0	0	0	0	684	
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	32,689	0	0	0	0	0	0	0	0	0	0	0	0	32,689	
928-AFUDC Debt Reg	5,215	194	0	0	0	0	0	0	0	0	0	0	0	5,409	
929-AFUDC - Equity Regular	5,927	254	0	0	0	0	0	0	0	0	0	0	0	6,182	
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	856,167	0	0	0	0	0	0	0	0	0	0	0	0	856,167	
825-Clearings	-1,341,690	-74,599	0	0	0	0	0	0	0	0	0	0	0	-1,416,290	
Clr Sum	-1,341,690	-74,599	0	0	0	0	0	0	0	0	0	0	0	-1,416,290	
Proj Net	-485,523	-74,599	0	0	0	0	0	0	0	0	0	0	0	-560,122	

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

Cost Year 03

Project	76016226	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	18,367	0	0	0	0	0	0	0	0	0	0	0	0	18,367
	120-Overtime-General	18,065	0	0	0	0	0	0	0	0	0	0	0	0	18,065
	350-Material Issues-Major	622,691	0	0	0	0	0	0	0	0	0	0	0	0	622,691
	370-Outside Services	139,535	0	0	0	0	0	0	0	0	0	0	0	0	139,535
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	3,538	0	0	0	0	0	0	0	0	0	0	0	0	3,538
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	-1,496	0	0	0	0	0	0	0	0	0	0	0	0	-1,496
	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	2,719	0	0	0	0	0	0	0	0	0	0	0	0	2,719
	914-Pension and Benefits Load	6,530	0	0	0	0	0	0	0	0	0	0	0	0	6,530
	915-Injuries and Damages Load	1,255	0	0	0	0	0	0	0	0	0	0	0	0	1,255
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	684	0	0	0	0	0	0	0	0	0	0	0	0	684
	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	32,689	0	0	0	0	0	0	0	0	0	0	0	0	32,689
	928-AFUDC Debt Reg	5,409	0	0	0	0	0	0	0	0	0	0	0	0	5,409
	929-AFUDC - Equity Regular	6,182	0	0	0	0	0	0	0	0	0	0	0	0	6,182
	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	856,167	0	0	0	0	0	0	0	0	0	0	0	0	856,167
	825-Clearings	-1,416,290	0	0	0	0	0	0	0	0	0	0	0	0	-1,416,290
	Clr Sum	-1,416,290	0	0	0	0	0	0	0	0	0	0	0	0	-1,416,290
Proj Net		-560,122	0	0	0	0	0	0	0	0	0	0	0	0	-560,122

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Project No: 76116016 Unit 1 Cooling Tower Load Center 4160 Volt Feeder and Fan

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

Construction Start Date 2/1/2016 Estimated Completion Date 9/30/2016

List Interim In-Service Dates

0

Project Need Justification

The Unit 1 cooling tower cools the water used throughout the unit. This system is fed from a 4160 VAC power source. The cables for the Unit 1 cooling tower are no longer in good condition. These cables were patched during the Electrical Building upgrade associated with the selective non-catalytic reduction (SNCR) environmental upgrade. While working on this project, it was also found that the cables feeding one of the cooling tower fans had bad insulation. This project will replace the worn out feeder cable and the bad fan motor cable at the Unit 1 cooling tower.

Project Alternatives

The only alternative would be to run this system to failure which would result in more damage to equipment and a pose a safety hazard to personnel. In addition, emergency replacement of that nature would result in a large amount of power loss.

Technical Aspects

In most cases, cables are ran underground and used to power equipment like the Unit 1 cooling tower. These underground cable runs are frequently contaminated with water, soil and sand throughout the conduits which will leads to deterioration of the cable insulation.

Project Estimate Approach

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

Cost Year 01

Project	76116016	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
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	271,867			0	42,000	26,000	0	0	0	339,867
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	1,756			0	2,990	1,851	0	0	0	6,597
922-Minor Material Load	0			0	0	0	0	0	0	0
925-E and S Loads	5,165			0	449	278	0	0	0	5,893
926-A and G Loads	6,443			0	995	616	0	0	0	8,055
928-AFUDC Debt Reg	323			10	26	16	0	0	0	375
929-AFUDC - Equity Regular	245			10	28	18	0	0	0	302
937-San Juan AR - Other	-142,616			0	-23,218	-14,373	0	0	0	-180,206
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0
Cost Sum	143,184			20	23,272	14,407	0	0	0	180,882
825-Clearings	-138,931			-4,272	-23,272	-14,407	0	0	0	-180,882
Clr Sum	-138,931			-4,272	-23,272	-14,407	0	0	0	-180,882
Proj Net	4,252			-4,252	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	76116016	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	339,867	0	0	0	0	0	0	0	0	0	0	0	0	339,867
	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		6,597	0	0	0	0	0	0	0	0	0	0	0	0	6,597
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	5,893	0	0	0	0	0	0	0	0	0	0	0	0	5,893
	926-A and G Loads	8,055	0	0	0	0	0	0	0	0	0	0	0	0	8,055
	928-AFUDC Debt Reg	375	0	0	0	0	0	0	0	0	0	0	0	0	375
929-AFUDC - Equity Regular		302	0	0	0	0	0	0	0	0	0	0	0	0	302
937-San Juan AR - Other		-180,206	0	0	0	0	0	0	0	0	0	0	0	0	-180,206
961-Luna A&G PNMR D&V		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	180,882	0	0	0	0	0	0	0	0	0	0	0	0	180,882
	825-Clearings	-180,882	0	0	0	0	0	0	0	0	0	0	0	0	-180,882
	Clr Sum	-180,882	0	0	0	0	0	0	0	0	0	0	0	0	-180,882
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	76116016	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	339,867	0	0	0	0	0	0	0	0	0	0	0	0	339,867
	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	6,597	0	0	0	0	0	0	0	0	0	0	0	0	6,597
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	5,893	0	0	0	0	0	0	0	0	0	0	0	0	5,893
	926-A and G Loads	8,055	0	0	0	0	0	0	0	0	0	0	0	0	8,055
	928-AFUDC Debt Reg	375	0	0	0	0	0	0	0	0	0	0	0	0	375
	929-AFUDC - Equity Regular	302	0	0	0	0	0	0	0	0	0	0	0	0	302
	937-San Juan AR - Other	-180,206	0	0	0	0	0	0	0	0	0	0	0	0	-180,206
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	180,882	0	0	0	0	0	0	0	0	0	0	0	0	180,882
	825-Clearings	-180,882	0	0	0	0	0	0	0	0	0	0	0	0	-180,882
	Clr Sum	-180,882	0	0	0	0	0	0	0	0	0	0	0	0	-180,882
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 76116030 Unit 1 Turbine Trip Block Replacement - 2018

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

<u>Construction Start Date</u>	2/1/2017	<u>Estimated Completion Date</u>	5/31/2018
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

The turbine trip block is used to quickly trip the turbine if conditions necessitate and its design allows functional testing to be performed without the risks that a physical speed test pose. This project would replace our existing design with a new design that fixes the speed of response challenges the current model has.

Project Alternatives

One alternative consists of modification of the existing trip solenoids on the current system. This is already taking place and if successful, this project may not be necessary. Doing nothing is not an option because of the criticality of this protective equipment.

Technical Aspects

Project work consists of engineering design of new trip block, removal of wiring, removal of existing trip block, and wiring the new trip block. I/O and instrumentation check out and a logic check out would follow before ultimate commissioning. This is an outage required task and would be performed during the 2018 scheduled outage with engineering and procurement beginning in year 2017.

Project Estimate Approach

The estimates for this project are based on vendor provided cost quotes.

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

Cost Year 01

Project	76116030	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 76116030	Year	2017												Total
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
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	9,700	0	0	19,000	28,600	0	57,300
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	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	104	0	0	203	306	0	613
926-A and G Loads	0	0	0	0	0	0	0	230	0	0	450	678	0	1,358
928-AFUDC Debt Reg	0	0	0	0	0	0	0	7	13	13	26	58	78	195
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	9	17	17	34	77	102	256
937-San Juan AR - Other	0	0	0	0	0	0	0	-5,017	0	0	-9,827	-14,792	0	-29,636
961-Luna A&G PNM 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	5,032	30	31	9,887	14,927	180	30,087
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	5,032	30	31	9,887	14,927	180	30,087

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

Cost Year 03

Project	76116030	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	57,300	0	24,000	47,750	23,500	23,500	0	0	0	0	0	0	0	176,050
	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	613	0	257	511	251	251	0	0	0	0	0	0	0	1,884
	926-A and G Loads	1,358	0	569	1,132	557	557	0	0	0	0	0	0	0	4,172
	928-AFUDC Debt Reg	195	79	95	144	193	226	0	0	0	0	0	0	0	932
	929-AFUDC - Equity Regular	256	71	86	130	174	203	0	0	0	0	0	0	0	920
	937-San Juan AR - Other	-29,636	0	-12,413	-24,696	-12,154	-12,154	0	0	0	0	0	0	0	-91,053
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	30,087	149	12,594	24,970	12,521	12,583	0	0	0	0	0	0	0	92,905
	825-Clearings	0	0	0	0	0	-92,905	0	0	0	0	0	0	0	-92,905
	Clr Sum	0	0	0	0	0	-92,905	0	0	0	0	0	0	0	-92,905
	Proj Net	30,087	149	12,594	24,970	12,521	-80,321	0	0	0	0	0	0	0	0

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Project No: 76116066 Unit 1 Mercury Sorbent Traps

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

Construction Start Date 2/1/2018 Estimated Completion Date 3/31/2018

List Interim In-Service Dates

0

Project Need Justification

This project will involve replacing the mercury sorbent traps with a redundant system to reduce monitor downtime, reduce missing data, and improve reliability for emissions reporting.

Project Alternatives

No other alternatives are apparent. Not performing the work will increase risk of data lost during unit start-up conditions and the potential of exceeding the Environmental Protection Agency's (EPA) requirement of having a monitor downtime of less than 5% per quarter.

Technical Aspects

The mercury sorbent traps are mounted on the stack and used to monitor the amount of mercury leaving the plant exit stacks. Data is monitored on a periodic basis and trended over time for environmental reporting.

Project Estimate Approach

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

Cost Year 01

Project	76116066	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16									
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	76116066	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	76116066	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	63,000	62,500	0	0	0	0	0	0	0	0	0	125,500	
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	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	674	669	0	0	0	0	0	0	0	0	0	1,343	
926-A and G Loads	0	0	1,493	1,481	0	0	0	0	0	0	0	0	0	2,974	
928-AFUDC Debt Reg	0	0	43	128	0	0	0	0	0	0	0	0	0	170	
929-AFUDC - Equity Regular	0	0	38	115	0	0	0	0	0	0	0	0	0	153	
937-San Juan AR - Other	0	0	-32,584	-32,325	0	0	0	0	0	0	0	0	0	-64,909	
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	32,664	32,567	0	0	0	0	0	0	0	0	0	65,232	
825-Clearings	0	0	0	-65,232	0	0	0	0	0	0	0	0	0	-65,232	
Clr Sum	0	0	0	-65,232	0	0	0	0	0	0	0	0	0	-65,232	
Proj Net	0	0	32,664	-32,664	0	0	0	0	0	0	0	0	0	0	

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Project No: 76116117 Unit 1 Absorber Outlet Duct Floor Cladding - 2018

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

<u>Construction Start Date</u>	3/1/2017	<u>Estimated Completion Date</u>	5/31/2018
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

Due to corrosion, the existing Unit 1 absorber outlet duct floor has worn thin and has allowed for numerous leaks in recent years. Holes in the absorber outlet duct floor allows absorber solution to leak onto structural support steel below, which is very corrosive and an environmental concern. This project provides for installation of 400 square feet of 1/8 inch stainless steel cladding on the outlet floor, and up one foot on the wall. This project will minimize absorber outlet duct leaks and damage to surrounding structural steel.

Project Alternatives

Another option would be to perform spot inspections on areas, checking for damage. This is very time consuming and risks the possibility of oversight or late detection. A complete replacement will ensure this does not happen.

Technical Aspects

Work will involve the purchase and installation of lining, preparation of weld locations and welding to the cladding.

Project Estimate Approach

Based on previous similar projects that estimate approximately \$35,000 is spent on absorber outlet duct floor repair every outage period to repair leaking areas.

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

Cost Year 01

Project	76116117	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	76116117	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	9,750	9,750
	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	104	104
	926-A and G Loads	0	0	0	0	0	0	0	0	0	0	0	0	231	231
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	0	0	7	7
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	0	0	9	9
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	0	0	-5,043	-5,043
	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	5,058	5,058
	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	5,058	5,058

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

Cost Year 03

Project	76116117	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 Svcs	9,750	0	9,750	19,500	24,375	10,750	0	0	0	0	0	0	0	74,125
	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	104	0	104	209	261	115	0	0	0	0	0	0	0	793
	926-A and G Loads	231	0	231	462	578	255	0	0	0	0	0	0	0	1,757
	928-AFUDC Debt Reg	7	13	20	40	70	94	0	0	0	0	0	0	0	242
929-AFUDC - Equity Regular		9	12	18	36	63	84	0	0	0	0	0	0	0	221
937-San Juan AR - Other		-5,043	0	-5,043	-10,085	-12,607	-5,560	0	0	0	0	0	0	0	-38,337
961-Luna A&G PNMR D&V		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	5,058	25	5,080	10,161	12,739	5,738	0	0	0	0	0	0	0	38,801
	825-Clearings	0	0	0	0	0	-38,801	0	0	0	0	0	0	0	-38,801
	Clr Sum	0	0	0	0	0	-38,801	0	0	0	0	0	0	0	-38,801
	Proj Net	5,058	25	5,080	10,161	12,739	-33,063	0	0	0	0	0	0	0	0

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Project No: 76116218 Unit 1 Heat Trace 2017

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

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

List Interim In-Service Dates

0

Project Need Justification

This project will replace failed or degraded heat trace circuits. This project is needed to ensure reliability of the unit during the coldest months of the year and to ensure piping and instrumentation remains functional. Due to the increased demand for electricity during cold weather for heating, NERC has established winter readiness requirements that are based on historical lost generation on the grid. This project ensures that PNM is in compliance with this plan and to limit the potential system reliability impacts that could occur if the heat trace circuits were to fail during colder weather.

Project Alternatives

There are two potential alternates to the solution selected:1) Continue to use the existing circuits. This course of action would result in PNM continuing to replace components when they fail as well as performing standard maintenance tasks.. Continuing along this course of action does not address the underlying problem that these circuits are at a greater risk of failure during periods of cold weather.2) Constructing enclosures for the circuits and using heat lamps during cold weather. This option is more costly and creates additional concerns regarding the use of heating lamps.

Technical Aspects

Project consists of removal of old heat trace circuits and installation of new heat trace circuits that will be less susceptible to failure during cold weather. Engineering will review the type of circuit selected to ensure reliability and to keep costs down.

Project Estimate Approach

Project is based on historical costs of similar projects.

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

Cost Year 01

Project	76116218	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
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	25,361			0	0	0	0	0	0	25,361
370-Outside Services	0			38,500	19,950	19,000	38,500	0	0	115,950
374-Outside Svcs Legal	0			0	0	0	0	0	0	0
377-Outside Services-Temp Labor	3,634			0	0	0	0	0	0	3,634
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	-309	0	0	-309
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	180			0	0	0	0	0	0	180
922-Minor Material Load	0			0	0	0	0	0	0	0
925-E and S Loads	551			412	213	203	412	0	0	1,792
926-A and G Loads	687			912	473	450	912	0	0	3,435
928-AFUDC Debt Reg	25			57	91	115	148	0	0	436
929-AFUDC - Equity Regular	11			62	99	124	161	0	0	456
937-San Juan AR - Other	-15,207			-19,912	-10,318	-9,827	-19,912	0	0	-75,176
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0
Cost Sum	15,242			20,031	10,509	10,065	19,912	0	0	75,760
825-Clearings	0			0	0	0	-75,894	0	0	-75,894
Clr Sum	0			0	0	0	-75,894	0	0	-75,894
Proj Net	15,242			20,031	10,509	10,065	-55,982	0	0	-134

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

Cost Year 02

Project	76116218	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	25,361	0	0	0	0	0	0	0	0	0	0	0	0	25,361
	370-Outside Services	115,950	0	0	0	0	0	0	0	0	0	0	0	0	115,950
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	3,634	0	0	0	0	0	0	0	0	0	0	0	0	3,634
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	-309	0	0	0	0	0	0	0	0	0	0	0	0	-309
	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		180	0	0	0	0	0	0	0	0	0	0	0	0	180
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,792	0	0	0	0	0	0	0	0	0	0	0	0	1,792
	926-A and G Loads	3,435	0	0	0	0	0	0	0	0	0	0	0	0	3,435
	928-AFUDC Debt Reg	436	0	0	0	0	0	0	0	0	0	0	0	0	436
929-AFUDC - Equity Regular		456	0	0	0	0	0	0	0	0	0	0	0	0	456
	937-San Juan AR - Other	-75,176	0	0	0	0	0	0	0	0	0	0	0	0	-75,176
961-Luna A&G PNMR D&V		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	75,760	0	0	0	0	0	0	0	0	0	0	0	0	75,760
	825-Clearings	-75,894	0	0	0	0	0	0	0	0	0	0	0	0	-75,894
	Clr Sum	-75,894	0	0	0	0	0	0	0	0	0	0	0	0	-75,894
Proj Net		-134	0	0	0	0	0	0	0	0	0	0	0	0	-134

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

Cost Year 03

Project	76116218	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	25,361	0	0	0	0	0	0	0	0	0	0	0	0	25,361
	370-Outside Services	115,950	0	0	0	0	0	0	0	0	0	0	0	0	115,950
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	3,634	0	0	0	0	0	0	0	0	0	0	0	0	3,634
	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	-309	0	0	0	0	0	0	0	0	0	0	0	0	-309
	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	180	0	0	0	0	0	0	0	0	0	0	0	0	180
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,792	0	0	0	0	0	0	0	0	0	0	0	0	1,792
	926-A and G Loads	3,435	0	0	0	0	0	0	0	0	0	0	0	0	3,435
	928-AFUDC Debt Reg	436	0	0	0	0	0	0	0	0	0	0	0	0	436
	929-AFUDC - Equity Regular	456	0	0	0	0	0	0	0	0	0	0	0	0	456
	937-San Juan AR - Other	-75,176	0	0	0	0	0	0	0	0	0	0	0	0	-75,176
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	75,760	0	0	0	0	0	0	0	0	0	0	0	0	75,760
	825-Clearings	-75,894	0	0	0	0	0	0	0	0	0	0	0	0	-75,894
	Clr Sum	-75,894	0	0	0	0	0	0	0	0	0	0	0	0	-75,894
	Proj Net	-134	0	0	0	0	0	0	0	0	0	0	0	0	-134

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Project No: 76116318 Unit 1 Coal Silo to Feeder Piping Replacement - 2018

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

<u>Construction Start Date</u>	4/1/2017	<u>Estimated Completion Date</u>	6/30/2018
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

Piping from the coal silo to the coal feeder has worn thin from years of use. In the past, this piping is then patched as needed as a temporary repair. A more permanent replacement is now required. This project would replace the piping on all four coal systems. This is an outage required task.

Project Alternatives

Alternatively, PNM can continue to use existing piping and patch as needed until a full failure required replacement. If this is done, especially on an individual, would increase overall costs for the project. Another alternative would be to increase the wear abrasion characteristics of the piping at even higher cost. Based on lifecycle of the current low cost steel, the payback would not justify the increased cost.

Technical Aspects

Coal piping is used to move coal from the storage silos to the coal feeder, which then determines the amount of coal going into the pulverize mill where the coal is ground into a fine powder. Coal is abrasive and wears all of the metal parts it comes in contact with. This project requires removal of each individual system, installation of access platforms to perform work, removal of existing piping, installation of new piping, removal of access platform. This is not a unit required task.

Project Estimate Approach

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

Cost Year 01

Project	76116318	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	76116318	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	4,750	0	4,750	0	9,500
	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	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	51	0	51	0	102
	926-A and G Loads	0	0	0	0	0	0	0	0	0	113	0	113	0	225
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	3	6	10	13	32
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	4	8	13	17	42
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	-2,457	0	-2,457	0	-4,913
	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	2,464	15	2,479	30	4,988
	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	2,464	15	2,479	30	4,988

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

Cost Year 03

Project	76116318	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	9,500	0	18,750	67,500	47,500	9,400	9,400	0	0	0	0	0	0	162,050
	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	102	0	201	722	508	101	101	0	0	0	0	0	0	1,734
	926-A and G Loads	225	0	444	1,600	1,126	223	223	0	0	0	0	0	0	3,841
	928-AFUDC Debt Reg	32	13	26	84	162	201	215	0	0	0	0	0	0	734
	929-AFUDC - Equity Regular	42	12	23	76	146	182	194	0	0	0	0	0	0	675
	937-San Juan AR - Other	-4,913	0	-9,698	-34,911	-24,567	-4,862	-4,862	0	0	0	0	0	0	-83,812
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	4,988	25	9,746	35,071	24,875	5,245	5,271	0	0	0	0	0	0	85,221
	825-Clearings	0	0	0	0	0	0	-85,221	0	0	0	0	0	0	-85,221
	Clr Sum	0	0	0	0	0	0	-85,221	0	0	0	0	0	0	-85,221
	Proj Net	4,988	25	9,746	35,071	24,875	5,245	-79,950	0	0	0	0	0	0	0

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Project No: 76116512 Unit 1 Acoustic Leak Detection System Installation

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

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

List Interim In-Service Dates

0

Project Need Justification

This project is one of several projects (see also 76116415, 76116512, 76117432, 76416715, 76417515, 76416215) that relate to the operation of the boiler and combustion optimization. Combustion optimization, steam temperature control and leak detection are all elements of boiler operation which have a direct impact on fuel efficiency and cost of generation. The amount of oxygen and carbon monoxide leaving the boiler reflects the completeness of combustion. The original design had only minimal oxygen and carbon monoxide sensing devices. Early detection of tube leaks allow operators to shut down the boiler before extensive damage occurs. Fine control of steam temperatures are accomplished by using attemperator spray valves. The valves on Unit 4 are in poor condition and require replacement.

Project Alternatives

There is no technical alternative to replacing the attemperator spray valves. This is a maintenance activity that meets the criteria for capitalization. The other projects will produce paybacks of reduced fuel consumption and higher boiler reliability.

Technical Aspects

Install sensing devices, transmitters, and analytical software to detect boiler tube leaks based on sound waves generated by escaping steam. The system has a computer model of the boiler to help pinpoint the location of the leak.

Project Estimate Approach

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

Cost Year 01

Project	76116512	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	5,307			0	0	0	0	0	0	5,307		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	4,881			0	0	0	0	0	0	4,881		
370-Outside Services	136,525			0	0	0	0	0	0	136,525		
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	411			0	0	0	0	0	0	411		
914-Pension and Benefits Load	1,825			0	0	0	0	0	0	1,825		
915-Injuries and Damages Load	202			0	0	0	0	0	0	202		
918-San Juan AR-Labor	-4,268			0	0	0	0	0	0	-4,268		
921-Stores / Purchasing Load	945			0	0	0	0	0	0	945		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	208			0	0	0	0	0	0	208		
926-A and G Loads	3,605			0	0	0	0	0	0	3,605		
928-AFUDC Debt Reg	7,663			215	0	0	0	0	0	7,878		
929-AFUDC - Equity Regular	10,175			232	0	0	0	0	0	10,408		
937-San Juan AR - Other	-73,082			0	0	0	0	0	0	-73,082		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	94,398			447	0	0	0	0	0	94,845		
825-Clearings	0			-95,636	0	0	0	0	0	-95,636		
Clr Sum	0			-95,636	0	0	0	0	0	-95,636		
Proj Net	94,398			-95,189	0	0	0	0	0	-790		

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

Cost Year 02

Project	76116512	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	5,307	0	0	0	0	0	0	0	0	0	0	0	0	5,307
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	4,881	0	0	0	0	0	0	0	0	0	0	0	0	4,881
	370-Outside Services	136,525	0	0	0	0	0	0	0	0	0	0	0	0	136,525
	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	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	411	0	0	0	0	0	0	0	0	0	0	0	0	411
914-Pension and Benefits Load	915-Injuries and Damages Load	1,825	0	0	0	0	0	0	0	0	0	0	0	0	1,825
	918-San Juan AR-Labor	202	0	0	0	0	0	0	0	0	0	0	0	0	202
	921-Stores / Purchasing Load	-4,268	0	0	0	0	0	0	0	0	0	0	0	0	-4,268
	922-Minor Material Load	945	0	0	0	0	0	0	0	0	0	0	0	0	945
	925-E and S Loads	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	926-A and G Loads	208	0	0	0	0	0	0	0	0	0	0	0	0	208
	928-AFUDC Debt Reg	3,605	0	0	0	0	0	0	0	0	0	0	0	0	3,605
	929-AFUDC - Equity Regular	7,878	0	0	0	0	0	0	0	0	0	0	0	0	7,878
	937-San Juan AR - Other	10,408	0	0	0	0	0	0	0	0	0	0	0	0	10,408
	961-Luna A&G PNMR D&V	-73,082	0	0	0	0	0	0	0	0	0	0	0	0	-73,082
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	94,845	0	0	0	0	0	0	0	0	0	0	0	0	94,845
	825-Clearings	-95,636	0	0	0	0	0	0	0	0	0	0	0	0	-95,636
	Clr Sum	-95,636	0	0	0	0	0	0	0	0	0	0	0	0	-95,636
Proj Net		-790	0	0	0	0	0	0	0	0	0	0	0	0	-790

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

Cost Year 03

Project	76116512	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	5,307	0	0	0	0	0	0	0	0	0	0	0	0	5,307
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	4,881	0	0	0	0	0	0	0	0	0	0	0	0	4,881
	370-Outside Services	136,525	0	0	0	0	0	0	0	0	0	0	0	0	136,525
	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	411	0	0	0	0	0	0	0	0	0	0	0	0	411
	914-Pension and Benefits Load	1,825	0	0	0	0	0	0	0	0	0	0	0	0	1,825
	915-Injuries and Damages Load	202	0	0	0	0	0	0	0	0	0	0	0	0	202
	918-San Juan AR-Labor	-4,268	0	0	0	0	0	0	0	0	0	0	0	0	-4,268
	921-Stores / Purchasing Load	945	0	0	0	0	0	0	0	0	0	0	0	0	945
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	208	0	0	0	0	0	0	0	0	0	0	0	0	208
	926-A and G Loads	3,605	0	0	0	0	0	0	0	0	0	0	0	0	3,605
	928-AFUDC Debt Reg	7,878	0	0	0	0	0	0	0	0	0	0	0	0	7,878
	929-AFUDC - Equity Regular	10,408	0	0	0	0	0	0	0	0	0	0	0	0	10,408
	937-San Juan AR - Other	-73,082	0	0	0	0	0	0	0	0	0	0	0	0	-73,082
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	94,845	0	0	0	0	0	0	0	0	0	0	0	0	94,845
	825-Clearings	-95,636	0	0	0	0	0	0	0	0	0	0	0	0	-95,636
	Clr Sum	-95,636	0	0	0	0	0	0	0	0	0	0	0	0	-95,636
	Proj Net	-790	0	0	0	0	0	0	0	0	0	0	0	0	-790

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Project No: 76116619 Unit 1 CO2 Inerting to Pulverizers - 2018

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

Construction Start Date 1/15/2018 Estimated Completion Date 4/30/2018

List Interim In-Service Dates

0

Project Need Justification

Pulverizers crush coal into a fine powder. When the pulverizer is ready to be put online, inerted to decrease the potential for explosion. Currently steam is used in this process for Unit 1, while Unit 4 uses CO2. Engineering has recommended Unit 1 be converted to CO2 inerting. Using steam can cause moisture buildup in the pulverizers and can cause valves to stick and not be responsive. CO2 is the more preferred inerting process.

Project Alternatives

The only other alternatives would be to continue use of steam inerting for pulverizers, which keep inconsistency among the units and risk the pulverizers becoming unresponsive.

Technical Aspects

Project work will consist of engineering analysis to determine the necessary supply pipe sizing, purchase of pipe and supports, installation of new piping, and removal of existing steam piping. Logic modification will be similar to Unit 4 pulverize process and occur last before commissioning.

Project Estimate Approach

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

Cost Year 01

Project	76116619	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	76116619	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	76116619	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	9,625	19,250	86,624	19,250	0	0	0	0	0	0	0	0	134,749
	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	103	206	927	206	0	0	0	0	0	0	0	0	1,442
	926-A and G Loads	0	228	456	2,053	456	0	0	0	0	0	0	0	0	3,194
	928-AFUDC Debt Reg	0	7	26	98	170	0	0	0	0	0	0	0	0	300
	929-AFUDC - Equity Regular	0	6	23	88	153	0	0	0	0	0	0	0	0	270
	937-San Juan AR - Other	0	-4,978	-9,956	-44,802	-9,956	0	0	0	0	0	0	0	0	-69,692
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	4,990	10,006	44,988	10,279	0	0	0	0	0	0	0	0	70,262
	825-Clearings	0	0	0	0	-70,262	0	0	0	0	0	0	0	0	-70,262
	Clr Sum	0	0	0	0	-70,262	0	0	0	0	0	0	0	0	-70,262
Proj Net		0	4,990	10,006	44,988	-59,984	0	0	0	0	0	0	0	0	0

Project No: 76116717 Unit 1 Tempering Air Dampers - 2018

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

<u>Construction Start Date</u>	3/1/2017	<u>Estimated Completion Date</u>	6/30/2018
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

The air entering the pulverizers is used to assist in removing moisture from the coal, transport the crushed coal to the boiler burners, and serves as additional air in the combustion process. The tempering air dampers are used in conjunction with the hot air dampers to regulate the temperature in the pulverizers. Though the pulverizers primary air dampers and hot air dampers were replaced in the spring of 2015, the tempering air dampers were not. The current dampers do not adequately control the tempering or allow operations to maintain the correct air temperature and flow in the pulverizers. These need to be replaced with a new damper model. The estimated replacement time for each damper is 24 hours after equipment isolation.

Project Alternatives

Alternatives are limited and include using existing dampers with the control issues or a full replacement. Based on a low cost analysis and to ensure functionality of all damper replacements, engineering recommends replacement of the tempering dampers.

Technical Aspects

This project will use manlifts to remove existing dampers and install the new dampers. Further work will involve installation of actuators, stroking of dampers for post maintenance testing (mechanically and for feedback to the control system). This project must be done during an outage and is planned to occur the 2018 scheduled outage.

Project Estimate Approach

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

Cost Year 01

Project	76116717	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	76116717	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	4,750	4,800	0	9,550
	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	51	51	0	102
	926-A and G Loads	0	0	0	0	0	0	0	0	0	0	113	114	0	226
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	3	10	13	26
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	4	13	17	34
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	-2,457	-2,483	0	-4,939
	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	2,464	2,505	30	4,999
	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	2,464	2,505	30	4,999

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

Cost Year 03

Project	76116717	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	9,550	0	0	13,250	21,250	20,500	4,800	0	0	0	0	0	0	69,350	
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	
908-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	102	0	0	142	227	219	51	0	0	0	0	0	0	742	
926-A and G Loads	226	0	0	314	504	486	114	0	0	0	0	0	0	1,644	
928-AFUDC Debt Reg	26	13	13	22	46	74	91	0	0	0	0	0	0	285	
929-AFUDC - Equity Regular	34	12	12	20	41	67	82	0	0	0	0	0	0	268	
937-San Juan AR - Other	-4,939	0	0	-6,853	-10,991	-10,603	-2,483	0	0	0	0	0	0	-35,868	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	4,999	25	25	6,895	11,077	10,743	2,656	0	0	0	0	0	0	36,420	
825-Clearings	0	0	0	0	0	0	-36,420	0	0	0	0	0	0	-36,420	
Clr Sum	0	0	0	0	0	0	-36,420	0	0	0	0	0	0	-36,420	
Proj Net	4,999	25	25	6,895	11,077	10,743	-33,764	0	0	0	0	0	0	0	

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Project No: 76117018 Unit 1 Obsolete PLC Replacement - 2018

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

Construction Start Date 2/1/2017 Estimated Completion Date 5/31/2018

List Interim In-Service Dates

Interim service dates are as follows: 11/1/2017, 11/1/2018, 11/1/2019, 11/1/2020.

Project Need Justification

The station uses programmable logic controllers (PLC's) to operate various pieces of equipment at the facility. Over time these controllers become obsolete. This project will replace specific controllers based on age and risk with newer and more modern controls. Project benefits focus on reliability and protection of equipment and personnel that work around the equipment.

Project Alternatives

The first option is to do nothing at the moment and replace PLC's as they fail. This is detrimental in both cost and reliability. The second option is to eliminate the PLC and obtain set of I/O cabinets for use in the main control system. This is an expensive option in terms of installation cost. The recommended option is to replace with up to date PLC's and remain current with logic architecture.

Technical Aspects

This project would replace the existing PLC with a more modern PLC. Process includes an engineering review of current logic, purchase of new PLC, installation of the process logic, testing and benchmarking to ensure the logic is functional and the design is sound, removal of existing PLC and installation of new PLC. At the end of the project, loop checks and commissioning would complete the project. Depending on the PLC some would require Unit outages, others would not.

Project Estimate Approach

Estimates are based on PLC quotes and engineering/instrumentation labor for execution, design, and testing.

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

Cost Year 01

Project	76117018	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	76117018	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	9,820	9,820	24,000	9,820	0	0	53,460
	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	105	105	257	105	0	0	572
	926-A and G Loads	0	0	0	0	0	0	0	233	233	569	233	0	0	1,267
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	7	20	43	66	0	0	135
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	9	26	56	86	0	0	177
	937-San Juan AR - Other	0	0	0	0	0	0	0	-5,079	-5,079	-12,413	-5,079	0	0	-27,650
	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	5,094	5,125	12,512	5,231	0	0	27,962
	825-Clearings	0	0	0	0	0	0	0	0	0	0	-27,962	0	0	-27,962
	Clr Sum	0	0	0	0	0	0	0	0	0	0	-27,962	0	0	-27,962
Proj Net		0	0	0	0	0	0	0	5,094	5,125	12,512	-22,731	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	76117018	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	53,460	9,820	29,160	48,100	9,820	9,420	0	0	0	0	0	0	0	159,780
	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	572	105	312	515	105	101	0	0	0	0	0	0	0	1,710
	926-A and G Loads	1,267	233	691	1,140	233	223	0	0	0	0	0	0	0	3,787
	928-AFUDC Debt Reg	135	7	33	85	125	138	0	0	0	0	0	0	0	524
	929-AFUDC - Equity Regular	177	6	30	77	113	125	0	0	0	0	0	0	0	527
	937-San Juan AR - Other	-27,650	-5,079	-15,082	-24,877	-5,079	-4,872	0	0	0	0	0	0	0	-82,638
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	27,962	5,092	15,144	25,040	5,316	5,135	0	0	0	0	0	0	0	83,689
	825-Clearings	-27,962	0	0	0	0	-55,727	0	0	0	0	0	0	0	-83,689
	Clr Sum	-27,962	0	0	0	0	-55,727	0	0	0	0	0	0	0	-83,689
	Proj Net	0	5,092	15,144	25,040	5,316	-50,592	0	0	0	0	0	0	0	0

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Project No: 76117118 Unit 1 Continuous Emission Monitoring System

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

Construction Start Date 4/1/2019 Estimated Completion Date 3/31/2018

List Interim In-Service Dates

N/A

Project Need Justification

Existing Continuous Emission Monitoring (CEM) system was designed in house and is required to monitor emission pollutants for state and federal regulations. These and other devices are beginning to show their age through the frequency in which they wear out. Also as this system nears its end of life, experts in its operation are becoming hard to find. A replacement or system upgrade is needed to ensure the reliability of service and ease of operation.

Project Alternatives

The only other alternative would be to continue using the existing system and only repair/replace components as they fail. However, the problem of no manufacturer support will exist.

Technical Aspects

The new CEM equipment will be a like-for-like replacement of the existing CEM system, which is required to monitor emission pollutants for state and federal regulations.

Project Estimate Approach

Cost estimates are based on quotes from instrument manufacturers and industry benchmarks.

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

Cost Year 01

Project	76117118	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	76117118	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	76117118	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	103,250	44,000	0	0	0	0	0	0	0	0	0	147,250
	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	1,105	471	0	0	0	0	0	0	0	0	0	1,576
	926-A and G Loads	0	0	2,447	1,043	0	0	0	0	0	0	0	0	0	3,490
	928-AFUDC Debt Reg	0	0	70	170	0	0	0	0	0	0	0	0	0	239
	929-AFUDC - Equity Regular	0	0	63	153	0	0	0	0	0	0	0	0	0	216
	937-San Juan AR - Other	0	0	-53,401	-22,757	0	0	0	0	0	0	0	0	0	-76,158
	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	53,533	23,079	0	0	0	0	0	0	0	0	0	76,613
	825-Clearings	0	0	0	-76,613	0	0	0	0	0	0	0	0	0	-76,613
	Clr Sum	0	0	0	-76,613	0	0	0	0	0	0	0	0	0	-76,613
	Proj Net	0	0	53,533	-53,533	0	0	0	0	0	0	0	0	0	0

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Project No: 76117119 Unit 1 Tripper Belt Critical Spare

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

Construction Start Date 2/1/2017 Estimated Completion Date 4/30/2018

List Interim In-Service Dates
N/A

Project Need Justification

Tripper cars supply coal to the pulverizer silos of Unit 1. If the belt used to move the tripper cars were to fail the loss of coal could result in the Unit being placed offline. The funds for this project will be used to purchase a belt as a spare to reduce risk the unit's failure.

Project Alternatives

There are no alternatives for this project other than to do nothing. This increases various risks to the site, including the suspension of Unit 1 operation.

Technical Aspects

The belt is meant to be a direct replacement for the existing conveyer belt in operation plant and, therefore, will have the same specifications.

Project Estimate Approach

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

Cost Year 01

Project	76117119	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	76117119	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	76117119	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	9,800	0	125,000	0	0	0	0	0	0	0	0	134,800
	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	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	105	0	1,338	0	0	0	0	0	0	0	0	1,442
	926-A and G Loads	0	0	232	0	2,963	0	0	0	0	0	0	0	0	3,195
	928-AFUDC Debt Reg	0	0	7	13	98	0	0	0	0	0	0	0	0	118
	929-AFUDC - Equity Regular	0	0	6	12	88	0	0	0	0	0	0	0	0	106
	937-San Juan AR - Other	0	0	-5,069	0	-64,650	0	0	0	0	0	0	0	0	-69,719
	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	5,081	25	64,836	0	0	0	0	0	0	0	0	69,942
	825-Clearings	0	0	0	0	-69,942	0	0	0	0	0	0	0	0	-69,942
	Clr Sum	0	0	0	0	-69,942	0	0	0	0	0	0	0	0	-69,942
	Proj Net	0	0	5,081	25	-5,106	0	0	0	0	0	0	0	0	0

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Project No: 76117618 Unit 1 Cooling Tower MCC's Replacement

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

<u>Construction Start Date</u>	1/1/2015	<u>Estimated Completion Date</u>	12/31/2016
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

This is one of several projects (see also 76116414, 76116914, 76117715, 76416212, 76117618, 76717913) relating to upgrading/maintaining the circulating water systems that are comprised primarily of condensers and cooling towers. This system condenses steam leaving the turbine and exhaust the waste heat to the atmosphere. Major maintenance on these components can only occur during extended outage periods. Both San Juan Unit 1 and Unit 4 have 50 day planned outages in 2015. The duration of the outages allows maintenance activities which meet the criteria for capitalization to occur. Eddy current testing on both Unit 1 and Unit 4 condensers indicate accelerated instances of tube thinning. This is confirmed by the increasing rate of lost production due to condenser tube leaks. The Unit 1 cooling tower has significant deterioration in the fan deck and hot water basin. The deterioration is severe to the point it creates an unsafe condition for employees. Electrical equipment and the manholes through which cables are routed are also in need of replacement or reconstruction. The electrical loads currently exceed the short circuit rating of the circuit breakers. The auxiliary cooling tower has damaged and plugged drift eliminators which require replacement for the tower to function properly. The electrical equipment for San Juan Unit 1 cooling tower is obsolete. The metal building which houses the electrical equipment has deteriorated to the point of being structurally deficient. The topography of the area where the metal building is located has changed since the original installation due to other construction activities. Storm water and other surface drainage now runs to and pools around the electrical equipment building. Electrical loads exceed the short circuit rating of the circuit breakers and the capacity rating of the load center transformers. This obsolete equipment is out of compliance with current codes in regards to minimizing arc flash incident energy. The scope of this project is the complete replacement of all electrical equipment and the building in which it is housed. Concurrently, variable frequency drives will be installed on each of the cooling tower fan motors to improve the energy efficiency of their operation. The scope of work includes replacement of the 4KV/480V transformers and double-ended motor control centers, replacing the existing metal building with an elevated Power Distribution Center (PDC) enclosure and correcting site grading to channel surface drainage away from the electrical equipment.

Project Alternatives

Operating electrical equipment in excess of its short circuit rating is an unacceptable condition and must be remedied. The alternative to replacing the

switchgear is to redesign circuit loading to reduce the available short circuit current. While this is technically feasible, it would not solve the other issues of a deteriorated enclosure building, poor site drainage, obsolescence and code compliance relative to arc flash incident energy. The optimal solution, technically and financially, is to replace the existing equipment.

Technical Aspects

The obsolete electrical equipment will be replaced with current industry standard equipment appropriately sized for the electrical loads. Specifically the scope of work includes the following equipment and work items: 1. Demolish the existing 4KV480V transformer and transformer pads.2. Demolish the existing 480V motor control centers.3.

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Demolish the existing electrical equipment building, ventilation system and foundations.4. Grade the cleared site to design contours.5. Construction piers for the Power Distribution Center6. Furnish and install two (2) 4KV/480V power transformers.7. Furnish and install two (2) double-ended 480V motor control centers.8. Furnish and install eleven (11) variable frequency drive, harmonic filters and controls.9. Furnish and install one (1) Power Distribution Center complete with pre-wired electrical equipment and controls, HVAC systems, lighting and grounding.10. Install grounding grid for all electrical equipment and structures.11. Furnish and install access stairs for elevated Power Distribution Center.

Project Estimate Approach

This project is complete so the costs being reported are actual costs and not estimated costs. The project is roughly 30% equipment and construction materials, 23% engineering and project management, 40% construction labor, 5% general and administrative overheads and 2% AFUDC. The timing associated with this rate case filing establishes a data date before the project was placed in service but the work was executed under fixed price contracts and therefore the forecast at completion, represented by the value to be cleared, reflects the final actual cost of the project.

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

Cost Year 01

Project	76117618	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	38,591			0	0	0	0	0	0	38,591		
120-Overtime-General	8,721			0	0	0	0	0	0	8,721		
350-Material Issues-Major	421,835			0	0	0	0	0	0	421,835		
370-Outside Services	2,141,838			0	0	0	0	0	0	2,141,838		
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	753			0	0	0	0	0	0	753		
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	3,628			0	0	0	0	0	0	3,628		
914-Pension and Benefits Load	13,478			0	0	0	0	0	0	13,478		
915-Injuries and Damages Load	2,234			0	0	0	0	0	0	2,234		
918-San Juan AR-Labor	-36,275			0	0	0	0	0	0	-36,275		
921-Stores / Purchasing Load	17,222			0	0	0	0	0	0	17,222		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	31,560			0	0	0	0	0	0	31,560		
926-A and G Loads	62,124			0	0	0	0	0	0	62,124		
928-AFUDC Debt Reg	22,675			25	0	0	0	0	0	22,701		
929-AFUDC - Equity Regular	31,321			27	0	0	0	0	0	31,348		
937-San Juan AR - Other	-1,337,801			0	0	0	0	0	0	-1,337,801		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	1,421,904			52	0	0	0	0	0	1,421,956		
825-Clearings	-1,416,918			-11,206	0	0	0	0	0	-1,428,124		
Clr Sum	-1,416,918			-11,206	0	0	0	0	0	-1,428,124		
Proj Net	4,986			-11,154	0	0	0	0	0	-6,168		

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

Cost Year 02

Project	76117618	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	38,591	0	0	0	0	0	0	0	0	0	0	0	0	38,591
	120-Overtime-General	8,721	0	0	0	0	0	0	0	0	0	0	0	0	8,721
	350-Material Issues-Major	421,835	0	0	0	0	0	0	0	0	0	0	0	0	421,835
	370-Outside Services	2,141,838	0	0	0	0	0	0	0	0	0	0	0	0	2,141,838
	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	753	0	0	0	0	0	0	0	0	0	0	0	0	753
	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	3,628	0	0	0	0	0	0	0	0	0	0	0	0	3,628
	914-Pension and Benefits Load	13,478	0	0	0	0	0	0	0	0	0	0	0	0	13,478
915-Injuries and Damages Load		2,234	0	0	0	0	0	0	0	0	0	0	0	0	2,234
	918-San Juan AR-Labor	-36,275	0	0	0	0	0	0	0	0	0	0	0	0	-36,275
	921-Stores / Purchasing Load	17,222	0	0	0	0	0	0	0	0	0	0	0	0	17,222
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	31,560	0	0	0	0	0	0	0	0	0	0	0	0	31,560
	926-A and G Loads	62,124	0	0	0	0	0	0	0	0	0	0	0	0	62,124
	928-AFUDC Debt Reg	22,701	0	0	0	0	0	0	0	0	0	0	0	0	22,701
929-AFUDC - Equity Regular		31,348	0	0	0	0	0	0	0	0	0	0	0	0	31,348
	937-San Juan AR - Other	-1,337,801	0	0	0	0	0	0	0	0	0	0	0	0	-1,337,801
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	1,421,956	0	0	0	0	0	0	0	0	0	0	0	0	1,421,956
	825-Clearings	-1,428,124	0	0	0	0	0	0	0	0	0	0	0	0	-1,428,124
	Clr Sum	-1,428,124	0	0	0	0	0	0	0	0	0	0	0	0	-1,428,124
Proj Net		-6,168	0	0	0	0	0	0	0	0	0	0	0	0	-6,168

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

Cost Year 03

Project	76117618	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	38,591	0	0	0	0	0	0	0	0	0	0	0	0	38,591
	120-Overtime-General	8,721	0	0	0	0	0	0	0	0	0	0	0	0	8,721
	350-Material Issues-Major	421,835	0	0	0	0	0	0	0	0	0	0	0	0	421,835
	370-Outside Services	2,141,838	0	0	0	0	0	0	0	0	0	0	0	0	2,141,838
	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	753	0	0	0	0	0	0	0	0	0	0	0	0	753
	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	3,628	0	0	0	0	0	0	0	0	0	0	0	0	3,628
	914-Pension and Benefits Load	13,478	0	0	0	0	0	0	0	0	0	0	0	0	13,478
	915-Injuries and Damages Load	2,234	0	0	0	0	0	0	0	0	0	0	0	0	2,234
	918-San Juan AR-Labor	-36,275	0	0	0	0	0	0	0	0	0	0	0	0	-36,275
	921-Stores / Purchasing Load	17,222	0	0	0	0	0	0	0	0	0	0	0	0	17,222
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	31,560	0	0	0	0	0	0	0	0	0	0	0	0	31,560
	926-A and G Loads	62,124	0	0	0	0	0	0	0	0	0	0	0	0	62,124
	928-AFUDC Debt Reg	22,701	0	0	0	0	0	0	0	0	0	0	0	0	22,701
	929-AFUDC - Equity Regular	31,348	0	0	0	0	0	0	0	0	0	0	0	0	31,348
	937-San Juan AR - Other	-1,337,801	0	0	0	0	0	0	0	0	0	0	0	0	-1,337,801
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	1,421,956	0	0	0	0	0	0	0	0	0	0	0	0	1,421,956
	825-Clearings	-1,428,124	0	0	0	0	0	0	0	0	0	0	0	0	-1,428,124
	Clr Sum	-1,428,124	0	0	0	0	0	0	0	0	0	0	0	0	-1,428,124
Proj Net		-6,168	0	0	0	0	0	0	0	0	0	0	0	0	-6,168

Project No: 76117742 Unit 1 Pulverizer Housing Ceramic Installation

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

Construction Start Date 2/16/2015 Estimated Completion Date 12/31/2016

List Interim In-Service Dates

Unit 1 related projects will be in service on April 15, 2015.

Project Need Justification

This project is part of a group of projects that involves routine maintenance to San Juan Generating Stations' boiler systems (including feeders, pulverizers, coal piping, burners, etc.). The equipment consists of many high-wear components and prepares and delivers fuel to the boilers. These pieces require routine replacement. Major maintenance activities on this equipment meet the criteria for capitalization and necessary to sustain reliable operation of the generating unit. This project is to install ceramic tiles and/or trowelable ceramic coating to prevent wear in the bowl section of the pulverizer.

Project Alternatives

These are major maintenance activities designed to return the systems to original design specifications and there are no alternatives. These activities are to remove and replace in-kind materials upgrades, such as the addition of ceramic liners in the pulverizer bowl sections. Operationally, PNM could reduce unit output but this is not a viable alternative.

Technical Aspects

This project will install ceramic tiles and/or trowelable ceramic coating to prevent wear in the bowl section of the pulverizers.

Project Estimate Approach

N/A

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

Cost Year 01

Project	76117742	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bai 6/30/16									
110-Straight Time-General	2,707			0	0	0	0	0	0	2,707
120-Overtime-General	0			0	0	0	0	0	0	0
350-Material Issues-Major	61,629			0	0	0	0	0	0	61,629
370-Outside Services	20,784			0	0	0	0	0	0	20,784
374-Outside Svcs Legal	0			0	0	0	0	0	0	0
377-Outside Services-Temp Labor	6,172			0	0	0	0	0	0	6,172
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	-250	-250	-250	-751
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	210			0	0	0	0	0	0	210
914-Pension and Benefits Load	894			0	0	0	0	0	0	894
915-Injuries and Damages Load	84			0	0	0	0	0	0	84
918-San Juan AR-Labor	-2,150			0	0	0	0	0	0	-2,150
921-Stores / Purchasing Load	557			0	0	0	0	0	0	557
922-Minor Material Load	0			0	0	0	0	0	0	0
925-E and S Loads	1,619			0	0	0	0	0	0	1,619
926-A and G Loads	2,173			0	0	0	0	0	0	2,173
928-AFUDC Debt Reg	1,678			119	119	120	120	120	120	2,396
929-AFUDC - Equity Regular	2,371			129	129	130	130	130	130	3,149
937-San Juan AR - Other	-46,471			0	0	0	0	0	0	-46,471
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0
Cost Sum	52,258			247	248	250	0	0	0	53,003
825-Clearings	0			0	0	0	0	0	-53,414	-53,414
Clr Sum	0			0	0	0	0	0	-53,414	-53,414
Proj Net	52,258			247	248	250	0	0	-53,414	-411

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

Cost Year 02

Project	76117742	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	2,707	0	0	0	0	0	0	0	0	0	0	0	0	2,707
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	61,629	0	0	0	0	0	0	0	0	0	0	0	0	61,629
	370-Outside Services	20,784	0	0	0	0	0	0	0	0	0	0	0	0	20,784
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	6,172	0	0	0	0	0	0	0	0	0	0	0	0	6,172
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	-751	0	0	0	0	0	0	0	0	0	0	0	0	-751
	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	210	0	0	0	0	0	0	0	0	0	0	0	0	210
	914-Pension and Benefits Load	894	0	0	0	0	0	0	0	0	0	0	0	0	894
	915-Injuries and Damages Load	84	0	0	0	0	0	0	0	0	0	0	0	0	84
	918-San Juan AR-Labor	-2,150	0	0	0	0	0	0	0	0	0	0	0	0	-2,150
	921-Stores / Purchasing Load	557	0	0	0	0	0	0	0	0	0	0	0	0	557
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,619	0	0	0	0	0	0	0	0	0	0	0	0	1,619
	926-A and G Loads	2,173	0	0	0	0	0	0	0	0	0	0	0	0	2,173
	928-AFUDC Debt Reg	2,396	0	0	0	0	0	0	0	0	0	0	0	0	2,396
	929-AFUDC - Equity Regular	3,149	0	0	0	0	0	0	0	0	0	0	0	0	3,149
	937-San Juan AR - Other	-46,471	0	0	0	0	0	0	0	0	0	0	0	0	-46,471
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	53,003	0	0	0	0	0	0	0	0	0	0	0	0	53,003
	825-Clearings	-53,414	0	0	0	0	0	0	0	0	0	0	0	0	-53,414
	Clr Sum	-53,414	0	0	0	0	0	0	0	0	0	0	0	0	-53,414
Proj Net		-411	0	0	0	0	0	0	0	0	0	0	0	0	-411

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

Cost Year 03

Project	76117742	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	2,707	0	0	0	0	0	0	0	0	0	0	0	0	2,707
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	61,629	0	0	0	0	0	0	0	0	0	0	0	0	61,629
	370-Outside Services	20,784	0	0	0	0	0	0	0	0	0	0	0	0	20,784
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	6,172	0	0	0	0	0	0	0	0	0	0	0	0	6,172
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	-751	0	0	0	0	0	0	0	0	0	0	0	0	-751
	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	210	0	0	0	0	0	0	0	0	0	0	0	0	210
	914-Pension and Benefits Load	894	0	0	0	0	0	0	0	0	0	0	0	0	894
	915-Injuries and Damages Load	84	0	0	0	0	0	0	0	0	0	0	0	0	84
	918-San Juan AR-Labor	-2,150	0	0	0	0	0	0	0	0	0	0	0	0	-2,150
	921-Stores / Purchasing Load	557	0	0	0	0	0	0	0	0	0	0	0	0	557
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,619	0	0	0	0	0	0	0	0	0	0	0	0	1,619
	926-A and G Loads	2,173	0	0	0	0	0	0	0	0	0	0	0	0	2,173
	928-AFUDC Debt Reg	2,396	0	0	0	0	0	0	0	0	0	0	0	0	2,396
	929-AFUDC - Equity Regular	3,149	0	0	0	0	0	0	0	0	0	0	0	0	3,149
	937-San Juan AR - Other	-46,471	0	0	0	0	0	0	0	0	0	0	0	0	-46,471
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	53,003	0	0	0	0	0	0	0	0	0	0	0	0	53,003
	825-Clearings	-53,414	0	0	0	0	0	0	0	0	0	0	0	0	-53,414
	Clr Sum	-53,414	0	0	0	0	0	0	0	0	0	0	0	0	-53,414
	Proj Net	-411	0	0	0	0	0	0	0	0	0	0	0	0	-411

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Project No: 76117915 Unit 1 Economizer Ash Removal

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

Construction Start Date Estimated Completion Date 12/31/2016

List Interim In-Service Dates

The Unit 1 project will be in service by April 15, 2015.

Project Need Justification

The boiler economizer ash removal systems were taken out of service on all San Juan boilers several years ago due to perpetual maintenance issues resulting from the technology which was industry standard at the time. Without this equipment, large volumes of ash accumulate in the areas where the equipment was previously located and in the ductwork downstream of this location. The weight of the accumulated ash has resulted in duct and duct hanger failures. Installation of new ash removal equipment is needed to prevent future duct and duct hanger failures. The industry standard for this application is now a dry flite or “drag chain” conveyor. This technology replaces the pneumatic conveying technology that was the former industry standard. This equipment is attached to the economizer ash hoppers. The scope of work includes installing three way isolation valves at each hopper, discharge piping at each hopper to a common dry flite conveyor, a single ash transfer tank, ash crusher, wet sluicing transport piping, miscellaneous piping and valves, miscellaneous small motors and other electrical equipment, electrical cables, control cabinet, Programmable Logic Control (PLC) and control wiring. This control system will be integrated with other ash removal controls. An identical project is scheduled and budgeted for San Juan Unit 4. This equipment is not being installed on San Juan Units 2 and 3 solely because Unit 2 and Unit 3 are shutting down on December 31, 2017.

Project Alternatives

The current condition of ash accumulation below the economizer section of the boiler must be addressed and the proposed dry flite conveying technology is the current industry standard for addressing this issue. No other conveying technology is considered viable. A business alternative would be to “do nothing” and take the risk of reduced reliability resulting from duct or duct hanger failures. These types of failures have been experienced at San Juan. Due to the short remaining life of Units 2 and 3, the “do nothing” business decision has been made. In order to meet the future reliability targets for Units 1 and 4, it is prudent to minimize the reliability risk associated with ash accumulation driven duct failures by installing this technology. The project provides the added benefit of reducing the O&M cost associated with removing the accumulated ash required to permit maintenance of the economizer section to occur. Removal of accumulated ash is currently a significant cost in preparing for outage maintenance.

Technical Aspects

Ash that collects at this location is heavy large particle ash compared to the light fine particles that collect in both the electrostatic precipitator and the fabric filter. At the time of original construction of the boiler, the industry standard technology for removing ash below the economizer section of the boiler was a pneumatic conveying system. Pneumatic conveying works well for light fine particle ash but was much less effective with heavy large particle ash. Pneumatic economizer ash removal systems were prone to pluggage throughout the system. Once plugged, ash backed up in the hopper and accumulated in the ductwork, producing virtually the same condition as having no ash removal system at all. The dry flite conveyor technology that has been developed over the past several years has become the industry standard for economizer ash removal system. The scope of work to install a dry flite conveyor included the following equipment and work items:1. Install four (4) three way isolation valves (one at each economizer hopper)2. Install discharge piping from each hopper to the dry flite conveyor3. Furnish and install auxiliary steel to support dry flite conveyor4. Furnish and install access galleries5. Install ash transfer tank6. Install foundation for ash transfer tank7. Install interconnecting piping from dry flite conveyor to ash day tank8. Install ash crusher9. Install ash day tank conveying piping and valves10. Install ash day tank overflow piping11. Install dry flite conveyor emergency bypass piping12. Connect ash day tank conveying piping to bottom ash conveying piping13. Install ash transfer control system and interface to existing bottom ash transfer control system14. Install access ladder and platforms for ash transfer tank15. Install electrical power and control cables16. Install grounding for all equipment

Project Estimate Approach

This project is complete so the costs being reported are actual costs and not estimated costs. Bids were received for the dry flite conveyors from the two leading providers (Allen Sherman Hoff and United Conveyor). A total project estimate was prepared by Burns & McDonnell. The project is roughly 25% process equipment, 15% engineering and project management, 5% quality control, 54% construction labor and commodities, 6% general and administrative overheads and 1% AFUDC. The timing associated with this rate case filing establishes a data date before the project was placed in service but the work was executed under fixed price contracts and therefore the forecast at completion, represented by the value to be cleared, reflects the final actual cost of the project.

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

Cost Year 01

Project	76117915	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
110-Straight Time-General	71,860			0	0	0	0	0	0	71,860
120-Overtime-General	0			0	0	0	0	0	0	0
350-Material Issues-Major	840,980			0	0	0	0	0	0	840,980
370-Outside Services	1,500,812			0	0	0	0	0	0	1,500,812
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	192			0	0	0	0	0	0	192
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	5,565			0	0	0	0	0	0	5,565
914-Pension and Benefits Load	23,599			0	0	0	0	0	0	23,599
915-Injuries and Damages Load	2,072			0	0	0	0	0	0	2,072
918-San Juan AR-Labor	-56,902			0	0	0	0	0	0	-56,902
921-Stores / Purchasing Load	17,980			0	0	0	0	0	0	17,980
922-Minor Material Load	0			0	0	0	0	0	0	0
925-E and S Loads	33,020			0	0	0	0	0	0	33,020
926-A and G Loads	57,903			0	0	0	0	0	0	57,903
928-AFUDC Debt Reg	10,743			6	0	0	0	0	0	10,749
929-AFUDC - Equity Regular	15,726			6	0	0	0	0	0	15,732
937-San Juan AR - Other	-1,234,783			0	0	0	0	0	0	-1,234,783
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0
Cost Sum	1,288,767			12	0	0	0	0	0	1,288,779
825-Clearings	-1,315,652			-2,513	0	0	0	0	0	-1,318,165
Clr Sum	-1,315,652			-2,513	0	0	0	0	0	-1,318,165
Proj Net	-26,885			-2,502	0	0	0	0	0	-29,386

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

Cost Year 02

Project	76117915	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	71,860	0	0	0	0	0	0	0	0	0	0	0	0	71,860
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	840,980	0	0	0	0	0	0	0	0	0	0	0	0	840,980
	370-Outside Services	1,500,812	0	0	0	0	0	0	0	0	0	0	0	0	1,500,812
	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	192	0	0	0	0	0	0	0	0	0	0	0	0	192
	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	5,565	0	0	0	0	0	0	0	0	0	0	0	0	5,565
	914-Pension and Benefits Load	23,599	0	0	0	0	0	0	0	0	0	0	0	0	23,599
	915-Injuries and Damages Load	2,072	0	0	0	0	0	0	0	0	0	0	0	0	2,072
	918-San Juan AR-Labor	-56,902	0	0	0	0	0	0	0	0	0	0	0	0	-56,902
	921-Stores / Purchasing Load	17,980	0	0	0	0	0	0	0	0	0	0	0	0	17,980
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	33,020	0	0	0	0	0	0	0	0	0	0	0	0	33,020
	926-A and G Loads	57,903	0	0	0	0	0	0	0	0	0	0	0	0	57,903
	928-AFUDC Debt Reg	10,749	0	0	0	0	0	0	0	0	0	0	0	0	10,749
	929-AFUDC - Equity Regular	15,732	0	0	0	0	0	0	0	0	0	0	0	0	15,732
	937-San Juan AR - Other	-1,234,783	0	0	0	0	0	0	0	0	0	0	0	0	-1,234,783
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	1,288,779	0	0	0	0	0	0	0	0	0	0	0	0	1,288,779
	825-Clearings	-1,318,165	0	0	0	0	0	0	0	0	0	0	0	0	-1,318,165
	Clr Sum	-1,318,165	0	0	0	0	0	0	0	0	0	0	0	0	-1,318,165
	Proj Net	-29,386	0	0	0	0	0	0	0	0	0	0	0	0	-29,386

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

Cost Year 03

Project	76117915	Year	2018												
	Cost_Type	BagBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	71,860	0	0	0	0	0	0	0	0	0	0	0	0	71,860
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	840,980	0	0	0	0	0	0	0	0	0	0	0	0	840,980
	370-Outside Services	1,500,812	0	0	0	0	0	0	0	0	0	0	0	0	1,500,812
	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	192	0	0	0	0	0	0	0	0	0	0	0	0	192
	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	5,565	0	0	0	0	0	0	0	0	0	0	0	0	5,565
	914-Pension and Benefits Load	23,599	0	0	0	0	0	0	0	0	0	0	0	0	23,599
	915-Injuries and Damages Load	2,072	0	0	0	0	0	0	0	0	0	0	0	0	2,072
	918-San Juan AR-Labor	-56,902	0	0	0	0	0	0	0	0	0	0	0	0	-56,902
	921-Stores / Purchasing Load	17,980	0	0	0	0	0	0	0	0	0	0	0	0	17,980
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	33,020	0	0	0	0	0	0	0	0	0	0	0	0	33,020
	926-A and G Loads	57,903	0	0	0	0	0	0	0	0	0	0	0	0	57,903
	928-AFUDC Debt Reg	10,749	0	0	0	0	0	0	0	0	0	0	0	0	10,749
	929-AFUDC - Equity Regular	15,732	0	0	0	0	0	0	0	0	0	0	0	0	15,732
	937-San Juan AR - Other	-1,234,783	0	0	0	0	0	0	0	0	0	0	0	0	-1,234,783
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	1,288,779	0	0	0	0	0	0	0	0	0	0	0	0	1,288,779
	825-Clearings	-1,318,165	0	0	0	0	0	0	0	0	0	0	0	0	-1,318,165
	Clr Sum	-1,318,165	0	0	0	0	0	0	0	0	0	0	0	0	-1,318,165
	Proj Net	-29,386	0	0	0	0	0	0	0	0	0	0	0	0	-29,386

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Project No: 76117916 Unit 1 Relay Protection - 2017

Company: 003-Bulk Power
Location: 761 San Juan

Project Information

Construction Start Date 6/1/2016 Estimated Completion Date 5/31/2018

List Interim In-Service Dates

0

Project Need Justification

Existing protective relays have had numerous failures in the recent past. Up to now it has been possible to repair relays with on-site spare components. However, spare parts are no longer available across the industry. Protective relaying is essential to maintain the design basis of the unit, protect expensive equipment and reduce safety risk of an unprotected equipment which could lead to a catastrophic event. This project involves replacement of obsolete relays with solid state relays that are industry standard.

Project Alternatives

As previously described, lack of replacement parts has made is nearly impossible to repair the existing relays. Therefore the decision has been made to replace the relays with new solid state relays.

Technical Aspects

Solid state relays are the industry standard. Replacement of obsolete relays is essential to maintain a safe and reliable operating facility.

Project Estimate Approach

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

Cost Year 01

Project	76117916	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		
916-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	76117916	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	1,992	1,992	6,417	10,400
	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	21	21	69	111
	926-A and G Loads	0	0	0	0	0	0	0	0	0	0	47	47	152	246
	928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	0	1	4	10	15
	929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	0	2	5	13	20
	937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	0	-1,030	-1,030	-3,319	-5,379
	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	1,033	1,039	3,341	5,414
	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	1,033	1,039	3,341	5,414

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

Cost Year 03

Project	76117916	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	10,400	0	0	0	0	0	0	0	0	0	0	0	0	10,400
	374-Outside Svcs Legal	0	0	19,250	38,500	38,500	12,500	0	0	0	0	0	0	0	108,750
	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	111	0	206	412	412	134	0	0	0	0	0	0	0	1,275
	926-A and G Loads	246	0	456	912	912	296	0	0	0	0	0	0	0	2,824
	928-AFUDC Debt Reg	15	14	27	66	119	154	0	0	0	0	0	0	0	395
	929-AFUDC - Equity Regular	20	13	25	60	107	139	0	0	0	0	0	0	0	362
	937-San Juan AR - Other	-5,379	0	-9,956	-19,912	-19,912	-6,465	0	0	0	0	0	0	0	-61,624
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	5,414	27	10,008	20,038	20,138	6,757	0	0	0	0	0	0	0	62,382
	825-Clearings	0	0	0	0	0	-62,382	0	0	0	0	0	0	0	-62,382
	Clr Sum	0	0	0	0	0	-62,382	0	0	0	0	0	0	0	-62,382
	Proj Net	5,414	27	10,008	20,038	20,138	-55,625	0	0	0	0	0	0	0	0

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Project No: 76316015 Unit 3 Attemperator Spray Valve Replacement

Company: 003-Bulk Power
Location: 763 San Juan

Project Information

<u>Construction Start Date</u>	12/1/2015	<u>Estimated Completion Date</u>	5/31/2016
<u>List Interim In-Service Dates</u>	N/A		

Project Need Justification

With varying load requirements in many power plants, fluctuation in steam temperatures are inevitable. In drum style units such as San Juan 3, this is caused by the burner orientation and fuel to air ratios. In order to ensure the optimum operating heat rate and to protect the steam turbine, the steam temperature in the superheat and reheat sections of the boiler must be controlled. The superheater section of a boiler typically includes what are commonly referred to as primary and secondary superheaters. These constitute two separate banks of boiler tubes used to heat the steam to the desired temperature. Once the steam passes through the superheater sections, it then proceeds through the high pressure turbine. Optimum efficiency and protection of the turbine elements are directly related to the temperature of the steam and must be properly controlled. Temperature control is usually achieved by admitting a fine spray of water into the steam line through what is called an attemperator or desuperheater, which is typically located between the primary and secondary superheaters. The attemperator utilizes water from a separate control valve and incorporates a nozzle that creates a mist that mixes with the process steam, thus lowering the steam temperature. This process, however, reduces thermal efficiency as it takes heat away from the process steam. The superheater outlet temperature via a feedback control loop controls the attemperator spray water flow. While requiring additional piping, this design ensures that the average steam temperature will not exceed the final steam temperature desired. In order for proper control the valve must be able to react quickly to variations in downstream temperature and provide the rangeability to handle multiple operating loads. With the spray water being pulled from the main boiler feedwater line high inlet pressures (2500 – 4000 psig) will be seen at the control valve. The main steam operating pressures for San Juan 3 is 2400 psig. This means that a minimal pressure drop (100 – 300 psid) occurs across the valve eliminating the need for cavitation protection. However, the proper valve must possess the rangeability to control low spray water flows at normal operating loads while providing higher spray water flows during low load demands. This project is related to the safe and efficient operation of the boiler. Fine control of steam temperatures are accomplished by using attemperator spray valves. The isolation valves on Unit 3 are in poor condition and require replacement. This is required maintenance that meets the criteria for capitalization. Since Unit 3 is retiring at the end of 2017, it was decided that replacing on the insulation and not the control valves would provide the appropriate level of asset protection. Isolation valves that leak cause desuperheater spray water to accumulate in secondary superheat loops. If this water is not properly boiled out on unit startup, tube failure will occur and unit reliability will be reduced.

Project Alternatives

The scope of work is in-kind replacement of four 2500lb class isolation valves. As this is required maintenance, there are no technical alternatives.

Technical Aspects

Replace four (4) each pneumatic actuated 2500lb class plug style isolation valves with in-kind replacements. Remove and replace thermal insulation as necessary to remove the

Project Estimate Approach

N/A

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

Cost Year 01

Project	76316015	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
110-Straight Time-General	1,551			0	0	0	0	0	0	1,551
120-Overtime-General	0			0	0	0	0	0	0	0
350-Material Issues-Major	39,355			0	0	0	0	0	0	39,355
370-Outside Services	110,454			0	0	0	0	0	0	110,454
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	120			0	0	0	0	0	0	120
914-Pension and Benefits Load	537			0	0	0	0	0	0	537
915-Injuries and Damages Load	95			0	0	0	0	0	0	95
918-San Juan AR-Labor	-1,268			0	0	0	0	0	0	-1,268
921-Stores / Purchasing Load	1,105			0	0	0	0	0	0	1,105
922-Minor Material Load	0			0	0	0	0	0	0	0
925-E and S Loads	3,375			0	0	0	0	0	0	3,375
926-A and G Loads	3,593			0	0	0	0	0	0	3,593
928-AFUDC Debt Reg	285			0	0	0	0	0	0	285
929-AFUDC - Equity Regular	238			0	0	0	0	0	0	238
937-San Juan AR - Other	-78,952			0	0	0	0	0	0	-78,952
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0
Cost Sum	80,489			0	0	0	0	0	0	80,489
825-Clearings	-80,742			0	0	0	0	0	-13,715	-94,458
Clr Sum	-80,742			0	0	0	0	0	-13,715	-94,458
Proj Net	-254			0	0	0	0	0	-13,715	-13,969

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

Cost Year 02

Project	76316015	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,551	0	0	0	0	0	0	0	0	0	0	0	0	1,551
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	39,355	0	0	0	0	0	0	0	0	0	0	0	0	39,355
	370-Outside Services	110,454	0	0	0	0	0	0	0	0	0	0	0	0	110,454
	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	120	0	0	0	0	0	0	0	0	0	0	0	0	120
	914-Pension and Benefits Load	537	0	0	0	0	0	0	0	0	0	0	0	0	537
915-Injuries and Damages Load		95	0	0	0	0	0	0	0	0	0	0	0	0	95
	918-San Juan AR-Labor	-1,268	0	0	0	0	0	0	0	0	0	0	0	0	-1,268
921-Stores / Purchasing Load		1,105	0	0	0	0	0	0	0	0	0	0	0	0	1,105
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	3,375	0	0	0	0	0	0	0	0	0	0	0	0	3,375
	926-A and G Loads	3,593	0	0	0	0	0	0	0	0	0	0	0	0	3,593
	928-AFUDC Debt Reg	285	0	0	0	0	0	0	0	0	0	0	0	0	285
929-AFUDC - Equity Regular		238	0	0	0	0	0	0	0	0	0	0	0	0	238
937-San Juan AR - Other		-78,952	0	0	0	0	0	0	0	0	0	0	0	0	-78,952
961-Luna A&G PNMR D&V		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	80,489	0	0	0	0	0	0	0	0	0	0	0	0	80,489
	825-Clearings	-94,458	0	0	0	0	0	0	0	0	0	0	0	0	-94,458
	Clr Sum	-94,458	0	0	0	0	0	0	0	0	0	0	0	0	-94,458
	Proj Net	-13,969	0	0	0	0	0	0	0	0	0	0	0	0	-13,969

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

Cost Year 03

Project	76316015	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,551	0	0	0	0	0	0	0	0	0	0	0	0	1,551
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	39,355	0	0	0	0	0	0	0	0	0	0	0	0	39,355
	370-Outside Services	110,454	0	0	0	0	0	0	0	0	0	0	0	0	110,454
	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	120	0	0	0	0	0	0	0	0	0	0	0	0	120
	914-Pension and Benefits Load	537	0	0	0	0	0	0	0	0	0	0	0	0	537
	915-Injuries and Damages Load	95	0	0	0	0	0	0	0	0	0	0	0	0	95
	918-San Juan AR-Labor	-1,268	0	0	0	0	0	0	0	0	0	0	0	0	-1,268
	921-Stores / Purchasing Load	1,105	0	0	0	0	0	0	0	0	0	0	0	0	1,105
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	3,375	0	0	0	0	0	0	0	0	0	0	0	0	3,375
	926-A and G Loads	3,593	0	0	0	0	0	0	0	0	0	0	0	0	3,593
	928-AFUDC Debt Reg	285	0	0	0	0	0	0	0	0	0	0	0	0	285
	929-AFUDC - Equity Regular	238	0	0	0	0	0	0	0	0	0	0	0	0	238
	937-San Juan AR - Other	-78,952	0	0	0	0	0	0	0	0	0	0	0	0	-78,952
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	80,489	0	0	0	0	0	0	0	0	0	0	0	0	80,489
	825-Clearings	-94,458	0	0	0	0	0	0	0	0	0	0	0	0	-94,458
	Clr Sum	-94,458	0	0	0	0	0	0	0	0	0	0	0	0	-94,458
	Proj Net	-13,969	0	0	0	0	0	0	0	0	0	0	0	0	-13,969

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Project No: 76316910 Unit 3 Condensate Polisher

Company: 003-Bulk Power
Location: 763 San Juan

Project Information

Construction Start Date 1/1/2011 Estimated Completion Date 5/31/2016

List Interim In-Service Dates

0

Project Need Justification

The condensate polisher is used to clean up the water used in the boiler to make steam. With a condensate polisher, restart time is reduced when coming online after a unit is down for outage. San Juan is currently operating without a condensate polisher and has experienced issues with copper deposition on the steam turbine generator (STG) blades. Over time, this decreases the electrical generating potential of the STG. Ultimately this necessitates foam cleaning which may not be compatible with the new packing in the turbines. Nonetheless, foam cleaning is required for approximately 5 days every 16 months. Also due to a lack of condensate polishing, San Juan has been forced to suspend startups for condensate chemistry issues. This occurs most often during scheduled outages or when a unit is down for an extended time due. The hold lasts anywhere from 8 hours to several days and impacts overall availability of the unit. This project will install the needed connections to the boiler and install the condensate polisher.

Project Alternatives

The only other alternative is to continue using the existing chemical clean up methods for the boiler water. This will take significantly more time and lead to longer delays in placing the unit back in production after an outage.

Technical Aspects

Condensate polisher cleans the silica usually found in makeup water for the boiler after the unit has been down for an outage. This allows the unit to produce power much quicker as opposed to normal chemical cleanup methods.

Project Estimate Approach

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

Cost Year 01

Project	76316910	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
110-Straight Time-General	28,036			0	0	0	0	0	0	28,036
120-Overtime-General	1,226			0	0	0	0	0	0	1,226
350-Material Issues-Major	137,636			0	0	0	0	0	0	137,636
370-Outside Services	2,925,680			0	0	0	0	0	0	2,925,680
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	2,474			0	0	0	0	0	0	2,474
914-Pension and Benefits Load	11,115			0	0	0	0	0	0	11,115
915-Injuries and Damages Load	949			0	0	0	0	0	0	949
918-San Juan AR-Labor	-23,968			0	0	0	0	0	0	-23,968
921-Stores / Purchasing Load	21,684			0	0	0	0	0	0	21,684
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	75,323			0	0	0	0	0	0	75,323
928-AFUDC Debt Reg	89,252			0	0	0	0	0	0	89,252
929-AFUDC - Equity Regular	106,278			0	0	0	0	0	0	106,278
937-San Juan AR - Other	-3,379,812			0	0	0	0	0	0	-3,379,812
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0
Cost Sum	-4,127			0	0	0	0	0	0	-4,127
825-Clearings	0			0	0	0	0	0	-9	-9
Clr Sum	0			0	0	0	0	0	-9	-9
Proj Net	-4,127			0	0	0	0	0	-9	-4,136

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

Cost Year 02

Project	76316910	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	28,036	0	0	0	0	0	0	0	0	0	0	0	0	28,036
	120-Overtime-General	1,226	0	0	0	0	0	0	0	0	0	0	0	0	1,226
	350-Material Issues-Major	137,636	0	0	0	0	0	0	0	0	0	0	0	0	137,636
	370-Outside Services	2,925,680	0	0	0	0	0	0	0	0	0	0	0	0	2,925,680
	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	2,474	0	0	0	0	0	0	0	0	0	0	0	0	2,474
	914-Pension and Benefits Load	11,115	0	0	0	0	0	0	0	0	0	0	0	0	11,115
	915-Injuries and Damages Load	949	0	0	0	0	0	0	0	0	0	0	0	0	949
	918-San Juan AR-Labor	-23,968	0	0	0	0	0	0	0	0	0	0	0	0	-23,968
	921-Stores / Purchasing Load	21,684	0	0	0	0	0	0	0	0	0	0	0	0	21,684
	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	75,323	0	0	0	0	0	0	0	0	0	0	0	0	75,323
	928-AFUDC Debt Reg	89,252	0	0	0	0	0	0	0	0	0	0	0	0	89,252
	929-AFUDC - Equity Regular	106,278	0	0	0	0	0	0	0	0	0	0	0	0	106,278
	937-San Juan AR - Other	-3,379,812	0	0	0	0	0	0	0	0	0	0	0	0	-3,379,812
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	-4,127	0	0	0	0	0	0	0	0	0	0	0	0	-4,127
	825-Clearings	-9	0	0	0	0	0	0	0	0	0	0	0	0	-9
	Clr Sum	-9	0	0	0	0	0	0	0	0	0	0	0	0	-9
	Proj Net	-4,136	0	0	0	0	0	0	0	0	0	0	0	0	-4,136

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

Cost Year 03

Project	76316910	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	28,036	0	0	0	0	0	0	0	0	0	0	0	0	28,036
	120-Overtime-General	1,226	0	0	0	0	0	0	0	0	0	0	0	0	1,226
	350-Material Issues-Major	137,636	0	0	0	0	0	0	0	0	0	0	0	0	137,636
	370-Outside Services	2,925,680	0	0	0	0	0	0	0	0	0	0	0	0	2,925,680
	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	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	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	2,474	0	0	0	0	0	0	0	0	0	0	0	0	2,474
	914-Pension and Benefits Load	11,115	0	0	0	0	0	0	0	0	0	0	0	0	11,115
	915-Injuries and Damages Load	949	0	0	0	0	0	0	0	0	0	0	0	0	949
	918-San Juan AR-Labor	-23,968	0	0	0	0	0	0	0	0	0	0	0	0	-23,968
	921-Stores / Purchasing Load	21,684	0	0	0	0	0	0	0	0	0	0	0	0	21,684
	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	75,323	0	0	0	0	0	0	0	0	0	0	0	0	75,323
	928-AFUDC Debt Reg	89,252	0	0	0	0	0	0	0	0	0	0	0	0	89,252
	929-AFUDC - Equity Regular	106,278	0	0	0	0	0	0	0	0	0	0	0	0	106,278
	937-San Juan AR - Other	-3,379,812	0	0	0	0	0	0	0	0	0	0	0	0	-3,379,812
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	-4,127	0	0	0	0	0	0	0	0	0	0	0	0	-4,127
	825-Clearings	-9	0	0	0	0	0	0	0	0	0	0	0	0	-9
	Clr Sum	-9	0	0	0	0	0	0	0	0	0	0	0	0	-9
Proj Net	-4,136	0	0	0	0	0	0	0	0	0	0	0	0	0	-4,136

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Project No: 76416217 Unit 4 Battery Bank A Replacement - 2018

Company: 003-Bulk Power
Location: 764 San Juan

Project Information

Construction Start Date 3/1/2017 Estimated Completion Date 5/31/2018

List Interim In-Service Dates

0

Project Need Justification

During recent battery tests performed during a scheduled outage, the A bank of batteries on San Juan Unit 4 has shown trends toward reduced performance. Although still within limits, it is projected that by the 2018 scheduled outage this bank will require replacement. Batteries are critical on the unit to maintain both control power and to run critical direct current (DC) motors and pump and protect equipment when power is lost.

Project Alternatives

There are no alternatives to this project. Depleted batteries must be replaced or PNM runs the risk of damage to assets.

Technical Aspects

DC battery banks supply power to critical systems for a time when electrical power is lost. This project would consist of removal of the existing batteries and installation of new batteries. Test of the connection of the new installation commissioning of the new installation.

Project Estimate Approach

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

Cost Year 01

Project	76416217	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16									
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	76416217	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	76416217	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	9,950	54,725	9,700	14,550	4,850	0	0	0	0	0	0	0	93,775	
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	106	586	104	156	52	0	0	0	0	0	0	0	1,003	
926-A and G Loads	0	236	1,297	230	345	115	0	0	0	0	0	0	0	2,222	
928-AFUDC Debt Reg	0	10	78	146	172	193	0	0	0	0	0	0	0	598	
929-AFUDC - Equity Regular	0	9	70	131	155	174	0	0	0	0	0	0	0	539	
937-San Juan AR - Other	0	-2,337	-12,852	-2,278	-3,417	-1,139	0	0	0	0	0	0	0	-22,022	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	0	7,975	43,904	8,033	11,960	4,244	0	0	0	0	0	0	0	76,117	
825-Clearings	0	0	0	0	0	-76,117	0	0	0	0	0	0	0	-76,117	
Clr Sum	0	0	0	0	0	-76,117	0	0	0	0	0	0	0	-76,117	
Proj Net	0	7,975	43,904	8,033	11,960	-71,872	0	0	0	0	0	0	0	0	

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Project No: 76417515 Unit 4 Attemperator Spray Valve Replacement

Company: 003-Bulk Power
Location: 764 San Juan

Project Information

Construction Start Date 10/3/2015 Estimated Completion Date 2/28/2016

List Interim In-Service Dates

N/A

Project Need Justification

With varying load requirements in many power plants, varying steam temperatures are inevitable. In drum style units such as San Juan 3, this is caused by such things as burner orientation and fuel to air ratios. In order to ensure the optimum operating heat rate and to protect the steam turbine, the steam temperature in the superheat and reheat sections of the boiler must be controlled. The superheater section of a boiler typically includes what are commonly referred to as primary and secondary superheaters. These constitute two separate banks of boiler tubes used to heat the steam to the desired temperature. Once the steam passes through the superheater sections, it then proceeds to pass through the high pressure turbine. Optimum efficiency and protection of the turbine elements are directly related to the temperature of the steam and must be properly controlled. Temperature control is usually achieved by admitting a fine spray of water into the steam line through what is called an attemperator or desuperheater, which is typically located between the primary and secondary superheaters. The attemperator utilizes water from a separate control valve and incorporates a nozzle that creates a mist that mixes with the process steam, thus lowering the steam temperature. This process, however, reduces thermal efficiency as it takes heat away from the process steam. The superheater outlet temperature via a feedback control loop controls the attemperator spray water flow. While requiring additional piping, this design ensures that the average steam temperature will not exceed the final steam temperature desired. In order for proper control the valve must be able to react quickly to variations in downstream temperature and provide the ability to handle multiple operating loads. With the spray water being pulled from the main boiler feedwater line high inlet pressures (2500 – 4000 psig) will be seen at the control valve. The main steam operating pressures for San Juan 3 is 2400 psig. This means that a minimal pressure drop (100 – 300 psid) occurs across the valve eliminating the need for cavitation protection. However, the proper valve must possess the ability to control low spray water flows at normal operating loads while providing higher spray water flows during low load demands. This project is related to the safe and efficient operation of the boiler. Fine control of steam temperatures are accomplished by using attemperator spray valves. The both the control valves and the isolation valves on Unit 4 are in poor condition and require replacement. This is required maintenance that meets the criteria for capitalization. Isolation valves that leak cause desuperheater spray water to accumulate in secondary superheat loops. If this water is not properly boiled out on unit startup, tube failure will occur and unit reliability will be reduced. The control valve provides the functionality to regulate attemperation flow to the amount necessary to achieve the desired final superheat steam temperature.

Project Alternatives

The scope of work is in-kind replacement of four 2500lb class isolation valves and four 2500lb class control valves. As this is required maintenance, there are no technical alternatives.

Technical Aspects

This project will replace four (4) pneumatically actuated 2500lb class plug style isolation valves with in-kind replacements and four (4) pneumatically actuated 2500lb control

Project Estimate Approach

N/A

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

Cost Year 01

Project	76417515	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16									
110-Straight Time-General		11,967			0	0	0	0	0	0	11,967
120-Overtime-General		0			0	0	0	0	0	0	0
350-Material Issues-Major		253,418			0	0	0	0	0	0	253,418
370-Outside Services		230,345			0	0	0	0	0	0	230,345
374-Outside Svcs Legal		0			0	0	0	0	0	0	0
377-Outside Services-Temp Labor		35,489			0	0	0	0	0	0	35,489
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		927			0	0	0	0	0	0	927
914-Pension and Benefits Load		4,203			0	0	0	0	0	0	4,203
915-Injuries and Damages Load		657			0	0	0	0	0	0	657
918-San Juan AR-Labor		-12,023			0	0	0	0	0	0	-12,023
921-Stores / Purchasing Load		4,735			0	0	0	0	0	0	4,735
922-Minor Material Load		0			0	0	0	0	0	0	0
925-E and S Loads		13,513			0	0	0	0	0	0	13,513
926-A and G Loads		12,632			0	0	0	0	0	0	12,632
928-AFUDC Debt Reg		1,193			0	0	0	0	0	0	1,193
929-AFUDC - Equity Regular		1,535			0	0	0	0	0	0	1,535
937-San Juan AR - Other		-338,616			0	0	0	0	0	0	-338,616
961-Luna A&G PNMR D&V		0			0	0	0	0	0	0	0
Cost Sum		219,973			0	0	0	0	0	0	219,973
825-Clearings		-221,836			0	0	0	0	0	-4,636	-226,472
Clr Sum		-221,836			0	0	0	0	0	-4,636	-226,472
Proj Net		-1,862			0	0	0	0	0	-4,636	-6,499

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

Cost Year 02

Project	76417515	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	11,967	0	0	0	0	0	0	0	0	0	0	0	0	11,967
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	253,418	0	0	0	0	0	0	0	0	0	0	0	0	253,418
	370-Outside Services	230,345	0	0	0	0	0	0	0	0	0	0	0	0	230,345
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	35,489	0	0	0	0	0	0	0	0	0	0	0	0	35,489
	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	4,203	0	0	0	0	0	0	0	0	0	0	0	0	4,203
	915-Injuries and Damages Load	657	0	0	0	0	0	0	0	0	0	0	0	0	657
	918-San Juan AR-Labor	-12,023	0	0	0	0	0	0	0	0	0	0	0	0	-12,023
	921-Stores / Purchasing Load	4,735	0	0	0	0	0	0	0	0	0	0	0	0	4,735
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	13,513	0	0	0	0	0	0	0	0	0	0	0	0	13,513
	926-A and G Loads	12,632	0	0	0	0	0	0	0	0	0	0	0	0	12,632
	928-AFUDC Debt Reg	1,193	0	0	0	0	0	0	0	0	0	0	0	0	1,193
	929-AFUDC - Equity Regular	1,535	0	0	0	0	0	0	0	0	0	0	0	0	1,535
	937-San Juan AR - Other	-338,616	0	0	0	0	0	0	0	0	0	0	0	0	-338,616
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	219,973	0	0	0	0	0	0	0	0	0	0	0	0	219,973
	825-Clearings	-226,472	0	0	0	0	0	0	0	0	0	0	0	0	-226,472
	Clr Sum	-226,472	0	0	0	0	0	0	0	0	0	0	0	0	-226,472
	Proj Net	-6,499	0	0	0	0	0	0	0	0	0	0	0	0	-6,499

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

Cost Year 03

Project	76417515	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	11,967	0	0	0	0	0	0	0	0	0	0	0	0	11,967
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	253,418	0	0	0	0	0	0	0	0	0	0	0	0	253,418
	370-Outside Services	230,345	0	0	0	0	0	0	0	0	0	0	0	0	230,345
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	35,489	0	0	0	0	0	0	0	0	0	0	0	0	35,489
	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	4,203	0	0	0	0	0	0	0	0	0	0	0	0	4,203
	915-Injuries and Damages Load	657	0	0	0	0	0	0	0	0	0	0	0	0	657
	918-San Juan AR-Labor	-12,023	0	0	0	0	0	0	0	0	0	0	0	0	-12,023
	921-Stores / Purchasing Load	4,735	0	0	0	0	0	0	0	0	0	0	0	0	4,735
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	13,513	0	0	0	0	0	0	0	0	0	0	0	0	13,513
	926-A and G Loads	12,632	0	0	0	0	0	0	0	0	0	0	0	0	12,632
	928-AFUDC Debt Reg	1,193	0	0	0	0	0	0	0	0	0	0	0	0	1,193
	929-AFUDC - Equity Regular	1,535	0	0	0	0	0	0	0	0	0	0	0	0	1,535
	937-San Juan AR - Other	-338,616	0	0	0	0	0	0	0	0	0	0	0	0	-338,616
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	219,973	0	0	0	0	0	0	0	0	0	0	0	0	219,973
	825-Clearings	-226,472	0	0	0	0	0	0	0	0	0	0	0	0	-226,472
	Clr Sum	-226,472	0	0	0	0	0	0	0	0	0	0	0	0	-226,472
	Proj Net	-6,499	0	0	0	0	0	0	0	0	0	0	0	0	-6,499

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Project No: 76417517 Unit 4 Turbine Trip Block Replacement - 2018

Company: 003-Bulk Power
Location: 764 San Juan

Project Information

Construction Start Date 2/1/2017 Estimated Completion Date 5/31/2018

List Interim In-Service Dates

N/A

Project Need Justification

The turbine trip block is used to quickly trip the turbine if conditions necessitate and allows functional testing on the turbine to be performed that no longer requires a physical over-speed test of the turbine which puts the turbine at high risk inadvertent failure. The current trip design has had too slow of a response mechanism. Coordination with the original equipment manufacturer has not resulted in improved response times that meet PNM's standards for reliability. It has been recommended to replace the block with another design by a different manufacturer.

Project Alternatives

The only other alternative involves modifying the existing trip solenoids. This has been and will continue to be evaluated on a per unit basis and if successful, my result in this project no longer being required. However, doing nothing is not an option for this critical protective equipment.

Technical Aspects

Project would consist of engineering design of new trip block, removal of wiring the existing block and installation of the new trip block and wiring . Testing of I/O, instrumentation and logic would be followed by the ultimate commissioning. This project is required to be done during an outage and is scheduled to be performed in 2018, with engineering and procurement occurring in 2017.

Project Estimate Approach

Estimates for this project is based on budgetary quotes provided by the vendor.

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

Cost Year 01

Project	76417517	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	76417517	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	9,700	9,700	0	9,700	0	19,300	9,700	0	58,100
	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	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	104	104	0	104	0	207	104	0	622
	926-A and G Loads	0	0	0	0	0	230	230	0	230	0	457	230	0	1,377
	928-AFUDC Debt Reg	0	0	0	0	0	8	25	34	43	51	68	94	103	427
	929-AFUDC - Equity Regular	0	0	0	0	0	11	33	45	56	67	90	123	135	560
	937-San Juan AR - Other	0	0	0	0	0	-3,564	-3,564	0	-3,564	0	-7,091	-3,564	0	-21,346
	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	6,489	6,529	78	6,568	118	13,031	6,687	238	39,739
	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	6,489	6,529	78	6,568	118	13,031	6,687	238	39,739

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

Cost Year 03

Project	76417517	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	58,100	0	19,300	19,300	19,300	9,700	0	0	0	0	0	0	0	125,700	
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	622	0	207	207	207	104	0	0	0	0	0	0	0	1,345	
926-A and G Loads	1,377	0	457	457	457	230	0	0	0	0	0	0	0	2,979	
928-AFUDC Debt Reg	427	104	124	165	206	238	0	0	0	0	0	0	0	1,265	
929-AFUDC - Equity Regular	560	94	112	149	186	214	0	0	0	0	0	0	0	1,315	
937-San Juan AR - Other	-21,346	0	-4,532	-4,532	-4,532	-2,278	0	0	0	0	0	0	0	-37,221	
961-Luna A&G PNM D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	39,739	197	15,668	15,746	15,824	8,208	0	0	0	0	0	0	0	95,383	
825-Clearings	0	0	0	0	0	-95,383	0	0	0	0	0	0	0	-95,383	
Clr Sum	0	0	0	0	0	-95,383	0	0	0	0	0	0	0	-95,383	
Proj Net	39,739	197	15,668	15,746	15,824	-87,175	0	0	0	0	0	0	0	0	

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Project No: 76417715 Unit 4 Automatic Voltage Regulator Replacement

Company: 003-Bulk Power
Location: 764 San Juan

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date 5/31/2016

List Interim In-Service Dates

N/A

Project Need Justification

This project addresses equipment obsolescence issues. Replacement of critical equipment is necessary to sustain unit reliability. Specifically, the Unit 4 automatic voltage regulator has had deteriorating reliability and its poor performance can become a North America Electric Reliability Council (NERC) issue. Recent misoperations of generation protection during major system disturbances have highlighted the need for 1) better coordination of generator protection with generator capability, 2) generator Automatic Voltage Regulator (AVR) control and 3) transmission system protection. Generator protection misoperations contributed to the 1996 outages in the western U.S. and played a key role in the 2003 U.S. East Coast blackout. Since most recent major power system disturbances are the result of voltage collapse, generator protection must be secured during low voltage system conditions while still providing generator protection. The generator AVR needs to properly control VAR support to rapidly stabilize system voltage during major disturbances to ensure that the unit remains on-line and capable of delivering power to the system. The generator AVR uses the generator terminal voltage and phase current to calculate generator operating conditions. By comparing the actual point of operation to the desired level, the AVR determines when it is appropriate to adjust the generator field current to maintain the desired generator operating voltage. In disturbances where short circuits depress the system voltage, electrical power cannot fully be delivered to the transmission system. Fast response of the AVR and excitation system helps to increase the synchronizing torque to allow the generator to remain in synchronism with the system. AVR control limiters are used to prevent the AVR from imposing unacceptable conditions upon the generator. The AVR is the first line of defense in protecting the generator from conditions that have detrimental and/or catastrophic effects on the equipment. If the AVR fails, the protective relays take over and trip the unit, causing a complete and immediate loss of generation. A functioning and reliable AVR is essential for unit reliability.

Project Alternatives

The alternative is to continue to maintain the existing equipment but this will become increasingly costly and difficult as replacement parts become harder to find. Coupled with the risk of a NERC issue, the increasingly difficult maintenance of the voltage regulator reinforces the chosen alternative to replace the voltage regulator.

Technical Aspects

The equipment replacement will be of similar design but with upgraded materials and solid state controls. This project includes supplying of the following:- One (1) AVR System, Tag Numbers U1 Generator AVR System. The AVR equipment, enclosures, and accessories shall be designed, assembled, and connected in accordance with requirements of the specifications. - VAR/Power Factor Control: The AVR shall be capable of maintaining constant Power factor or constant VARS. - REDUNDANCY: A full function backup AVR shall be installed to provide system redundancy. - AVR DATA LOGGING AND MONITORING: The AVR shall provide oscillography and sequence of events as specified in the attached Data Sheet. - Current Transformers (CT's): The Seller shall reuse existing or provide CT's for AVR metering, controls and protection. CT's shall be molded case toroidal type and shall be wired to shorting type terminal blocks. CT's shall be in accordance with applicable ANSI standards. Ratings shall be determined by the Seller. - PROTECTION: The AVR shall contain protection functions for the excitation system including Field Overvoltage, Generator Over/Under Voltage, Field Overcurrent, Loss of Voltage Sensing, Loss of Field, Main Field Ground, Exciter Field Ground, and Volts-per-hertz. Set-points shall be selectable via programmable logic.

Project Estimate Approach

N/A

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

Cost Year 01

Project	76417715	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	18,740			0	0	0	0	0	0	18,740		
120-Overtime-General	5,842			0	0	0	0	0	0	5,842		
350-Material Issues-Major	246,620			0	0	0	0	0	0	246,620		
370-Outside Services	419,399			0	0	0	0	0	0	419,399		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	9,861			0	0	0	0	0	0	9,861		
391-Jt Proj Bills to PNM-Non-Labor	0			0	0	0	0	0	0	0		
530-Employee Expense	326			0	0	0	0	0	0	326		
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	1,845			0	0	0	0	0	0	1,845		
914-Pension and Benefits Load	6,585			0	0	0	0	0	0	6,585		
915-Injuries and Damages Load	1,302			0	0	0	0	0	0	1,302		
918-San Juan AR-Labor	-22,836			0	0	0	0	0	0	-22,836		
921-Stores / Purchasing Load	5,821			0	0	0	0	0	0	5,821		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	19,052			0	0	0	0	0	0	19,052		
926-A and G Loads	16,712			0	0	0	0	0	0	16,712		
928-AFUDC Debt Reg	1,919			0	0	0	0	0	0	1,919		
929-AFUDC - Equity Regular	2,515			0	0	0	0	0	0	2,515		
937-San Juan AR - Other	-442,801			0	0	0	0	0	0	-442,801		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	290,901			0	0	0	0	0	0	290,901		
825-Clearings	-295,401			0	0	0	0	0	-6,536	-301,936		
Clr Sum	-295,401			0	0	0	0	0	-6,536	-301,936		
Proj Net	-4,500			0	0	0	0	0	-6,536	-11,036		

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

Cost Year 02

Project	76417715	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	18,740	0	0	0	0	0	0	0	0	0	0	0	0	18,740
	120-Overtime-General	5,842	0	0	0	0	0	0	0	0	0	0	0	0	5,842
	350-Material Issues-Major	246,620	0	0	0	0	0	0	0	0	0	0	0	0	246,620
	370-Outside Services	419,399	0	0	0	0	0	0	0	0	0	0	0	0	419,399
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	9,861	0	0	0	0	0	0	0	0	0	0	0	0	9,861
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	326	0	0	0	0	0	0	0	0	0	0	0	0	326
	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	1,845	0	0	0	0	0	0	0	0	0	0	0	0	1,845
	914-Pension and Benefits Load	6,585	0	0	0	0	0	0	0	0	0	0	0	0	6,585
915-Injuries and Damages Load		1,302	0	0	0	0	0	0	0	0	0	0	0	0	1,302
	918-San Juan AR-Labor	-22,836	0	0	0	0	0	0	0	0	0	0	0	0	-22,836
	921-Stores / Purchasing Load	5,821	0	0	0	0	0	0	0	0	0	0	0	0	5,821
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	19,052	0	0	0	0	0	0	0	0	0	0	0	0	19,052
	926-A and G Loads	16,712	0	0	0	0	0	0	0	0	0	0	0	0	16,712
	928-AFUDC Debt Reg	1,919	0	0	0	0	0	0	0	0	0	0	0	0	1,919
929-AFUDC - Equity Regular		2,515	0	0	0	0	0	0	0	0	0	0	0	0	2,515
	937-San Juan AR - Other	-442,801	0	0	0	0	0	0	0	0	0	0	0	0	-442,801
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	290,901	0	0	0	0	0	0	0	0	0	0	0	0	290,901
	825-Clearings	-301,936	0	0	0	0	0	0	0	0	0	0	0	0	-301,936
	Clr Sum	-301,936	0	0	0	0	0	0	0	0	0	0	0	0	-301,936
Proj Net		-11,036	0	0	0	0	0	0	0	0	0	0	0	0	-11,036

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

Cost Year 03

Project	76417715	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	18,740	0	0	0	0	0	0	0	0	0	0	0	0	18,740
	120-Overtime-General	5,842	0	0	0	0	0	0	0	0	0	0	0	0	5,842
	350-Material Issues-Major	246,620	0	0	0	0	0	0	0	0	0	0	0	0	246,620
	370-Outside Services	419,399	0	0	0	0	0	0	0	0	0	0	0	0	419,399
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	9,861	0	0	0	0	0	0	0	0	0	0	0	0	9,861
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	326	0	0	0	0	0	0	0	0	0	0	0	0	326
	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	1,845	0	0	0	0	0	0	0	0	0	0	0	0	1,845
	914-Pension and Benefits Load	6,585	0	0	0	0	0	0	0	0	0	0	0	0	6,585
	915-Injuries and Damages Load	1,302	0	0	0	0	0	0	0	0	0	0	0	0	1,302
	918-San Juan AR-Labor	-22,836	0	0	0	0	0	0	0	0	0	0	0	0	-22,836
	921-Stores / Purchasing Load	5,821	0	0	0	0	0	0	0	0	0	0	0	0	5,821
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	19,052	0	0	0	0	0	0	0	0	0	0	0	0	19,052
	926-A and G Loads	16,712	0	0	0	0	0	0	0	0	0	0	0	0	16,712
	928-AFUDC Debt Reg	1,919	0	0	0	0	0	0	0	0	0	0	0	0	1,919
	929-AFUDC - Equity Regular	2,515	0	0	0	0	0	0	0	0	0	0	0	0	2,515
	937-San Juan AR - Other	-442,801	0	0	0	0	0	0	0	0	0	0	0	0	-442,801
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	290,901	0	0	0	0	0	0	0	0	0	0	0	0	290,901
	825-Clearings	-301,936	0	0	0	0	0	0	0	0	0	0	0	0	-301,936
	Clr Sum	-301,936	0	0	0	0	0	0	0	0	0	0	0	0	-301,936
Proj Net		-11,036	0	0	0	0	0	0	0	0	0	0	0	0	-11,036

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Project No: 76516115 Units 1&2 Increase Sootblower Line Size

Company: 003-Bulk Power
Location: 765 San Juan

Project Information

Construction Start Date Estimated Completion Date 12/31/2015

List Interim In-Service Dates

These projects will be in service on or before December 31, 2016

Project Need Justification

This project involves routine maintenance activities for the San Juan Generating Stations' piping systems that meet the criteria for capitalization.

Project Alternatives

Since these items are necessary maintenance to sustain plant operations, there are no viable alternatives.

Technical Aspects

Work will involve replacing 4" steel compressed air header piping with 8" steel compressed air header piping. Some minor pipe routing changes may also be made to facilitate installation and 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	76516115	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	21,495			0	0	0	0	0	0	21,495		
370-Outside Services	61,219			0	0	0	0	0	0	61,219		
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	-32,003			0	0	0	0	0	0	-32,003		
921-Stores / Purchasing Load	542			0	0	0	0	0	0	542		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	1,201			0	0	0	0	0	0	1,201		
926-A and G Loads	1,960			0	0	0	0	0	0	1,960		
928-AFUDC Debt Reg	778			0	0	0	0	0	0	778		
929-AFUDC - Equity Regular	1,063			0	0	0	0	0	0	1,063		
937-San Juan AR - Other	-11,206			0	0	0	0	0	0	-11,206		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	45,049			0	0	0	0	0	0	45,049		
825-Clearings	0			0	0	0	0	0	-45,049	-45,049		
Clr Sum	0			0	0	0	0	0	-45,049	-45,049		
Proj Net	45,049			0	0	0	0	0	-45,049	0		

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

Cost Year 02

Project	76516115	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	21,495	0	0	0	0	0	0	0	0	0	0	0	0	21,495
	370-Outside Services	61,219	0	0	0	0	0	0	0	0	0	0	0	0	61,219
	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	-32,003	0	0	0	0	0	0	0	0	0	0	0	0	-32,003
	921-Stores / Purchasing Load	542	0	0	0	0	0	0	0	0	0	0	0	0	542
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,201	0	0	0	0	0	0	0	0	0	0	0	0	1,201
	926-A and G Loads	1,960	0	0	0	0	0	0	0	0	0	0	0	0	1,960
	928-AFUDC Debt Reg	778	0	0	0	0	0	0	0	0	0	0	0	0	778
	929-AFUDC - Equity Regular	1,063	0	0	0	0	0	0	0	0	0	0	0	0	1,063
	937-San Juan AR - Other	-11,206	0	0	0	0	0	0	0	0	0	0	0	0	-11,206
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	45,049	0	0	0	0	0	0	0	0	0	0	0	0	45,049
	825-Clearings	-45,049	0	0	0	0	0	0	0	0	0	0	0	0	-45,049
	Clr Sum	-45,049	0	0	0	0	0	0	0	0	0	0	0	0	-45,049
	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	76516115	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	21,495	0	0	0	0	0	0	0	0	0	0	0	0	21,495
	370-Outside Services	61,219	0	0	0	0	0	0	0	0	0	0	0	0	61,219
	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	-32,003	0	0	0	0	0	0	0	0	0	0	0	0	-32,003
	921-Stores / Purchasing Load	542	0	0	0	0	0	0	0	0	0	0	0	0	542
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,201	0	0	0	0	0	0	0	0	0	0	0	0	1,201
	926-A and G Loads	1,960	0	0	0	0	0	0	0	0	0	0	0	0	1,960
	928-AFUDC Debt Reg	778	0	0	0	0	0	0	0	0	0	0	0	0	778
	929-AFUDC - Equity Regular	1,063	0	0	0	0	0	0	0	0	0	0	0	0	1,063
	937-San Juan AR - Other	-11,206	0	0	0	0	0	0	0	0	0	0	0	0	-11,206
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	45,049	0	0	0	0	0	0	0	0	0	0	0	0	45,049
	825-Clearings	-45,049	0	0	0	0	0	0	0	0	0	0	0	0	-45,049
	Clr Sum	-45,049	0	0	0	0	0	0	0	0	0	0	0	0	-45,049
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 76616025 Common Limestone Area Instrument Replacement

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

Construction Start Date 1/1/2013 Estimated Completion Date 12/1/2016

List Interim In-Service Dates

N/A

Project Need Justification

The existing limestone instrumentation is obsolete and many parts are past their useful lives with no replacements available.

Project Alternatives

The alternative is to operate and replace each instrument at failure. This poses a risk to furnishing limestone to the units' absorbers and directly affects system reliability.

Technical Aspects

Technical aspects associated with replacing the limestone instrumentation include installation of meters, software, and cable.

Project Estimate Approach

N/A

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

Cost Year 01

Project	76616025	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	124,453			0	0	0	0	0	0	124,453		
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	772			0	0	0	0	0	0	772		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	333			0	0	0	0	0	0	333		
926-A and G Loads	2,950			0	0	0	0	0	0	2,950		
928-AFUDC Debt Reg	3,148			0	0	0	0	0	0	3,148		
929-AFUDC - Equity Regular	4,393			0	0	0	0	0	0	4,393		
937-San Juan AR - Other	-69,012			0	0	0	0	0	0	-69,012		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	67,036			0	0	0	0	0	0	67,036		
825-Clearings	-67,435			0	0	0	0	0	399	-67,036		
Clr Sum	-67,435			0	0	0	0	0	399	-67,036		
Proj Net	-399			0	0	0	0	0	399	0		

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

Cost Year 02

Project	76616025	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	124,453	0	0	0	0	0	0	0	0	0	0	0	0	124,453
	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	772	0	0	0	0	0	0	0	0	0	0	0	0	772
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	333	0	0	0	0	0	0	0	0	0	0	0	0	333
	926-A and G Loads	2,950	0	0	0	0	0	0	0	0	0	0	0	0	2,950
	928-AFUDC Debt Reg	3,148	0	0	0	0	0	0	0	0	0	0	0	0	3,148
	929-AFUDC - Equity Regular	4,393	0	0	0	0	0	0	0	0	0	0	0	0	4,393
	937-San Juan AR - Other	-69,012	0	0	0	0	0	0	0	0	0	0	0	0	-69,012
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	67,036	0	0	0	0	0	0	0	0	0	0	0	0	67,036
	825-Clearings	-67,036	0	0	0	0	0	0	0	0	0	0	0	0	-67,036
	Clr Sum	-67,036	0	0	0	0	0	0	0	0	0	0	0	0	-67,036
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	76616025	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	124,453	0	0	0	0	0	0	0	0	0	0	0	0	124,453
	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	772	0	0	0	0	0	0	0	0	0	0	0	0	772
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	333	0	0	0	0	0	0	0	0	0	0	0	0	333
	926-A and G Loads	2,950	0	0	0	0	0	0	0	0	0	0	0	0	2,950
	928-AFUDC Debt Reg	3,148	0	0	0	0	0	0	0	0	0	0	0	0	3,148
	929-AFUDC - Equity Regular	4,393	0	0	0	0	0	0	0	0	0	0	0	0	4,393
	937-San Juan AR - Other	-69,012	0	0	0	0	0	0	0	0	0	0	0	0	-69,012
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	67,036	0	0	0	0	0	0	0	0	0	0	0	0	67,036
	825-Clearings	-67,036	0	0	0	0	0	0	0	0	0	0	0	0	-67,036
	Clr Sum	-67,036	0	0	0	0	0	0	0	0	0	0	0	0	-67,036
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 76616029 Plant Common Brine Concentrator 4 Pipe Replacements

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

Construction Start Date Estimated Completion Date 2/28/2016

List Interim In-Service Dates

These projects will be in service on or before December 31, 2016

Project Need Justification

This project involves routine maintenance activities for the San Juan Generating Stations' piping systems that meet the criteria for capitalization.

Project Alternatives

These maintenance activities are necessary to sustain plant operations and there are no viable alternatives.

Technical Aspects

Work will include the in-kind replacement of failed inlet and outlet piping at brine concentrator #4. Some minor pipe routing changes may also be made to facilitate installation and 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	76616029	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	35,294			0	0	0	0	0	0	35,294		
370-Outside Services	160,302			0	0	0	0	0	0	160,302		
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	1,522			0	0	0	0	0	0	1,522		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	3,401			0	0	0	0	0	0	3,401		
926-A and G Loads	4,636			0	0	0	0	0	0	4,636		
928-AFUDC Debt Reg	901			0	0	0	0	0	0	901		
929-AFUDC - Equity Regular	1,289			0	0	0	0	0	0	1,289		
937-San Juan AR - Other	-87,550			0	0	0	0	0	0	-87,550		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	119,795			0	0	0	0	0	0	119,795		
825-Clearings	-122,237			0	0	0	0	0	2,442	-119,795		
Clr Sum	-122,237			0	0	0	0	0	2,442	-119,795		
Proj Net	-2,442			0	0	0	0	0	2,442	0		

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

Cost Year 02

Project	76616029	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	35,294	0	0	0	0	0	0	0	0	0	0	0	0	35,294
	370-Outside Services	160,302	0	0	0	0	0	0	0	0	0	0	0	0	160,302
	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	1,522	0	0	0	0	0	0	0	0	0	0	0	0	1,522
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	3,401	0	0	0	0	0	0	0	0	0	0	0	0	3,401
	926-A and G Loads	4,636	0	0	0	0	0	0	0	0	0	0	0	0	4,636
	928-AFUDC Debt Reg	901	0	0	0	0	0	0	0	0	0	0	0	0	901
	929-AFUDC - Equity Regular	1,289	0	0	0	0	0	0	0	0	0	0	0	0	1,289
	937-San Juan AR - Other	-87,550	0	0	0	0	0	0	0	0	0	0	0	0	-87,550
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	119,795	0	0	0	0	0	0	0	0	0	0	0	0	119,795
	825-Clearings	-119,795	0	0	0	0	0	0	0	0	0	0	0	0	-119,795
	Clr Sum	-119,795	0	0	0	0	0	0	0	0	0	0	0	0	-119,795
	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	76616029	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	35,294	0	0	0	0	0	0	0	0	0	0	0	0	35,294
	370-Outside Services	160,302	0	0	0	0	0	0	0	0	0	0	0	0	160,302
	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	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	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	0
915-Injuries and Damages Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	916-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load	1,522	0	0	0	0	0	0	0	0	0	0	0	0	0	1,522
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	3,401	0	0	0	0	0	0	0	0	0	0	0	0	3,401
	926-A and G Loads	4,636	0	0	0	0	0	0	0	0	0	0	0	0	4,636
	928-AFUDC Debt Reg	901	0	0	0	0	0	0	0	0	0	0	0	0	901
929-AFUDC - Equity Regular	1,289	0	0	0	0	0	0	0	0	0	0	0	0	0	1,289
937-San Juan AR - Other	-87,550	0	0	0	0	0	0	0	0	0	0	0	0	0	-87,550
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	119,795	0	0	0	0	0	0	0	0	0	0	0	0	119,795
	825-Clearings	-119,795	0	0	0	0	0	0	0	0	0	0	0	0	-119,795
	Clr Sum	-119,795	0	0	0	0	0	0	0	0	0	0	0	0	-119,795
Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 76616046 Plant Common Fiber Optic Cable Between PSPS NERC

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

<u>Construction Start Date</u>	4/1/2014	<u>Estimated Completion Date</u>	6/30/2016
<u>List Interim In-Service Dates</u>	N/A		

Project Need Justification
As an owner and operator of a Bulk Electric System (BES), PNM is required to comply with applicable standards from NERC. NERC standards require a "six wall" boundary around components in a critical infrastructure network. The boundaries are top, bottom, two sides and two ends. This criteria for fiber optic cables is met by installing the fiber optic cable in conduit and terminating the end of the cable in secure enclosure boxes. Physically Secure Perimeters (PSPs) are areas that contain critical assets and have controlled access. This is a component in achieving the "six wall" boundary criterion. The physically secure perimeter satisfies the "two end" condition of the "six wall" criterion. Communication cables between physically secure perimeters are typically fiber optic cables. The normal installation is to run the fiber optic cables in either open top cable trays or in a plastic conduit normally referred to as "innerduct." Neither of these installation methods satisfy the NERC "six wall" boundary requirement. To comply with NERC standards, this project is being executed to install fiber optic communication cables in compliant conduit between physically secure perimeters. The cost of the project includes engineering, materials, contract labor for installation, project management, general and administrative loads and AFUDC.

Project Alternatives
Some alternatives in the method of compliance are available but there are no alternative to complying with the standard. This specific project was selected because it was deemed the best option available for PNM to comply with NERC standards. The installation of individual conduits and fiber optic cables is a simple, low cost solution to meeting NERC requirements.

Technical Aspects
Install fiber optic conductors and conduit as needed to comply with NERC "6 wall" protection for links between Physically Secure Perimeters. This includes communication cables between the Unit 1/2 Control Room, the Unit 3/4 Control Room, the Coal Handling control room and the Limestone control room.

Project Estimate Approach
N/A

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

Cost Year 01

Project	76616046	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	2,115			0	0	0	0	0	0	2,115		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	23,052			0	0	0	0	0	0	23,052		
370-Outside Services	38,164			0	0	0	0	0	0	38,164		
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	164			0	0	0	0	0	0	164		
914-Pension and Benefits Load	693			0	0	0	0	0	0	693		
915-Injuries and Damages Load	59			0	0	0	0	0	0	59		
918-San Juan AR-Labor	-1,761			0	0	0	0	0	0	-1,761		
921-Stores / Purchasing Load	824			0	0	0	0	0	0	824		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	2,975			0	0	0	0	0	0	2,975		
926-A and G Loads	3,240			0	0	0	0	0	0	3,240		
928-AFUDC Debt Reg	484			0	0	0	0	0	0	484		
929-AFUDC - Equity Regular	499			0	0	0	0	0	0	499		
937-San Juan AR - Other	-69,589			0	0	0	0	0	0	-69,589		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	919			0	0	0	0	0	0	919		
825-Clearings	-76,984			0	0	0	0	0	2,675	-74,309		
Clr Sum	-76,984			0	0	0	0	0	2,675	-74,309		
Proj Net	-76,065			0	0	0	0	0	2,675	-73,390		

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

Cost Year 02

Project	76616046	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	2,115	0	0	0	0	0	0	0	0	0	0	0	0	2,115
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	23,052	0	0	0	0	0	0	0	0	0	0	0	0	23,052
	370-Outside Services	38,164	0	0	0	0	0	0	0	0	0	0	0	0	38,164
	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	164	0	0	0	0	0	0	0	0	0	0	0	0	164
	914-Pension and Benefits Load	693	0	0	0	0	0	0	0	0	0	0	0	0	693
915-Injuries and Damages Load		59	0	0	0	0	0	0	0	0	0	0	0	0	59
	918-San Juan AR-Labor	-1,761	0	0	0	0	0	0	0	0	0	0	0	0	-1,761
	921-Stores / Purchasing Load	824	0	0	0	0	0	0	0	0	0	0	0	0	824
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	2,975	0	0	0	0	0	0	0	0	0	0	0	0	2,975
	926-A and G Loads	3,240	0	0	0	0	0	0	0	0	0	0	0	0	3,240
	928-AFUDC Debt Reg	484	0	0	0	0	0	0	0	0	0	0	0	0	484
929-AFUDC - Equity Regular		499	0	0	0	0	0	0	0	0	0	0	0	0	499
	937-San Juan AR - Other	-69,589	0	0	0	0	0	0	0	0	0	0	0	0	-69,589
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	919	0	0	0	0	0	0	0	0	0	0	0	0	919
	825-Clearings	-74,309	0	0	0	0	0	0	0	0	0	0	0	0	-74,309
	Clr Sum	-74,309	0	0	0	0	0	0	0	0	0	0	0	0	-74,309
Proj Net		-73,390	0	0	0	0	0	0	0	0	0	0	0	0	-73,390

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

Cost Year 03

Project	76616046	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	2,115	0	0	0	0	0	0	0	0	0	0	0	0	2,115	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	23,052	0	0	0	0	0	0	0	0	0	0	0	0	23,052	
370-Outside Services	38,164	0	0	0	0	0	0	0	0	0	0	0	0	38,164	
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	164	0	0	0	0	0	0	0	0	0	0	0	0	164	
914-Pension and Benefits Load	693	0	0	0	0	0	0	0	0	0	0	0	0	693	
915-Injuries and Damages Load	59	0	0	0	0	0	0	0	0	0	0	0	0	59	
918-San Juan AR-Labor	-1,761	0	0	0	0	0	0	0	0	0	0	0	0	-1,761	
921-Stores / Purchasing Load	824	0	0	0	0	0	0	0	0	0	0	0	0	824	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	2,975	0	0	0	0	0	0	0	0	0	0	0	0	2,975	
926-A and G Loads	3,240	0	0	0	0	0	0	0	0	0	0	0	0	3,240	
928-AFUDC Debt Reg	484	0	0	0	0	0	0	0	0	0	0	0	0	484	
929-AFUDC - Equity Regular	499	0	0	0	0	0	0	0	0	0	0	0	0	499	
937-San Juan AR - Other	-69,589	0	0	0	0	0	0	0	0	0	0	0	0	-69,589	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	919	0	0	0	0	0	0	0	0	0	0	0	0	919	
825-Clearings	-74,309	0	0	0	0	0	0	0	0	0	0	0	0	-74,309	
Clr Sum	-74,309	0	0	0	0	0	0	0	0	0	0	0	0	-74,309	
Proj Net	-73,390	0	0	0	0	0	0	0	0	0	0	0	0	-73,390	

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Project No: 76616070 Plant Common Radio Amplifier Additions

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

Construction Start Date 3/1/2017 Estimated Completion Date 5/31/2017

List Interim In-Service Dates

0

Project Need Justification

This project will add radio amplifiers to allow a wider range of service for the paging system in the North Side Waste Water (NSWW) SO2 area for Units 1 and 4. This improvement is required to ensure employees are warned promptly in the event of an evacuation or unsafe work conditions.

Project Alternatives

There are no other alternatives. Doing nothing would continue the risk of inadequate paging system coverage and endanger the site personnel during an emergency.

Technical Aspects

Work will involve installation of additional amplifiers and speakers.

Project Estimate Approach

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

Cost Year 01

Project	76616070	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	76616070	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	19,250	38,500	38,500	28,875	19,250	0	0	0	0	0	0	0	144,375
	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	206	412	412	309	206	0	0	0	0	0	0	0	1,545
	926-A and G Loads	0	456	912	912	684	456	0	0	0	0	0	0	0	3,422
	928-AFUDC Debt Reg	0	15	61	122	176	215	0	0	0	0	0	0	0	590
	929-AFUDC - Equity Regular	0	20	80	160	231	283	0	0	0	0	0	0	0	774
	937-San Juan AR - Other	0	-8,230	-16,459	-16,459	-12,344	-8,230	0	0	0	0	0	0	0	-61,721
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	0	11,718	23,506	23,648	17,932	12,181	0	0	0	0	0	0	0	88,985
	825-Clearings	0	0	0	0	0	-88,985	0	0	0	0	0	0	0	-88,985
	Clr Sum	0	0	0	0	0	-88,985	0	0	0	0	0	0	0	-88,985
	Proj Net	0	11,718	23,506	23,648	17,932	-76,804	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	76616070	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	144,375	0	0	0	0	0	0	0	0	0	0	0	0	144,375
	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	1,545	0	0	0	0	0	0	0	0	0	0	0	0	1,545
	926-A and G Loads	3,422	0	0	0	0	0	0	0	0	0	0	0	0	3,422
	928-AFUDC Debt Reg	590	0	0	0	0	0	0	0	0	0	0	0	0	590
	929-AFUDC - Equity Regular	774	0	0	0	0	0	0	0	0	0	0	0	0	774
	937-San Juan AR - Other	-61,721	0	0	0	0	0	0	0	0	0	0	0	0	-61,721
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	88,985	0	0	0	0	0	0	0	0	0	0	0	0	88,985
	825-Clearings	-88,985	0	0	0	0	0	0	0	0	0	0	0	0	-88,985
	Clr Sum	-88,985	0	0	0	0	0	0	0	0	0	0	0	0	-88,985
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 76616071 Plant Common Ash Haul Road Security

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

Construction Start Date 3/1/2018 Estimated Completion Date 11/30/2018

List Interim In-Service Dates

0

Project Need Justification

This project consists of adding long-range proximity readers at the entrance and exit of two ash haul roads east of the San Juan Generating Station (SJGS). In addition, new cameras will be installed to meet North American Electric Reliability Corporation (NERC) Critical Infrastructure Protection (CIP) V5 security requirements.

Project Alternatives

Because this project is required by regulation, there are no other alternatives.

Technical Aspects

Additional proximity readers will be integrated into the plant security system and used to ensure that entrances are monitored for proper entrance to the plant site.

Project Estimate Approach

Cost estimate is based on similar installations at the plant site.

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

Cost Year 01

Project	76616071	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	76616071	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	76616071	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	48,026	38,421	52,754	0	139,200	
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	514	411	564	0	1,489	
926-A and G Loads	0	0	0	0	0	0	0	0	0	1,138	911	1,250	0	3,299	
928-AFUDC Debt Reg	0	0	0	0	0	0	0	0	0	43	121	203	0	367	
929-AFUDC - Equity Regular	0	0	0	0	0	0	0	0	0	39	109	183	0	331	
937-San Juan AR - Other	0	0	0	0	0	0	0	0	0	-16,720	-13,376	-18,366	0	-48,461	
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	33,040	26,596	36,589	0	96,225	
825-Clearings	0	0	0	0	0	0	0	0	0	0	0	-96,225	0	-96,225	
Clr Sum	0	0	0	0	0	0	0	0	0	0	0	-96,225	0	-96,225	
Proj Net	0	0	0	0	0	0	0	0	0	33,040	26,596	-59,636	0	0	

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Project No: 76616117 Common Plantwide Heat Tracing - Carryover - 2017

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

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

List Interim In-Service Dates

0

Project Need Justification

This is a carryover project justified for critical winter operation. Heat Tracing is needed to operate properly to prevent equipment from freezing during cold weather events. The current system has been found to have deficiencies, which has created unprotected areas that could affect unit load.

Project Alternatives

There are no project alternatives, this project is required to maintain reliability.

Technical Aspects

Work will involve specific replacement of failed circuits and installation of completely new circuits where inspection had determined need.

Project Estimate Approach

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

Cost Year 01

Project	76616117	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			19,250	19,500	9,750	28,750	0	0	77,250		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	2,516			0	0	0	0	0	0	2,516		
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	-41	-41	-41	-123		
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	16			0	0	0	0	0	0	16		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	48			206	209	104	308	0	0	874		
926-A and G Loads	60			456	462	231	681	0	0	1,890		
928-AFUDC Debt Reg	2			16	43	63	20	39	39	222		
929-AFUDC - Equity Regular	1			18	46	68	21	43	43	239		
937-San Juan AR - Other	-1,299			-8,230	-8,336	-4,168	-12,291	0	0	-34,324		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	1,343			11,716	11,924	6,048	17,448	41	41	48,561		
825-Clearings	0			0	0	-31,031	0	0	0	-31,031		
Clr Sum	0			0	0	-31,031	0	0	0	-31,031		
Proj Net	1,343			11,716	11,924	-24,983	17,448	41	41	17,530		

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

Cost Year 02

Project	76616117	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	77,250	0	0	0	0	0	0	0	0	0	0	0	0	77,250
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	2,516	0	0	0	0	0	0	0	0	0	0	0	0	2,516
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	-123	-52	0	0	0	0	0	0	0	0	0	0	0	-175
	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	16	0	0	0	0	0	0	0	0	0	0	0	0	16
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	874	0	0	0	0	0	0	0	0	0	0	0	0	874
	926-A and G Loads	1,890	0	0	0	0	0	0	0	0	0	0	0	0	1,890
	928-AFUDC Debt Reg	222	46	0	0	0	0	0	0	0	0	0	0	0	268
	929-AFUDC - Equity Regular	239	60	0	0	0	0	0	0	0	0	0	0	0	299
	937-San Juan AR - Other	-34,324	0	0	0	0	0	0	0	0	0	0	0	0	-34,324
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	48,561	53	0	0	0	0	0	0	0	0	0	0	0	48,615
	825-Clearings	-31,031	-17,583	0	0	0	0	0	0	0	0	0	0	0	-48,615
	Clr Sum	-31,031	-17,583	0	0	0	0	0	0	0	0	0	0	0	-48,615
Proj Net		17,530	-17,530	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	76616117	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	77,250	0	0	0	0	0	0	0	0	0	0	0	0	77,250
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	2,516	0	0	0	0	0	0	0	0	0	0	0	0	2,516
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	-175	0	0	0	0	0	0	0	0	0	0	0	0	-175
	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	16	0	0	0	0	0	0	0	0	0	0	0	0	16
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	874	0	0	0	0	0	0	0	0	0	0	0	0	874
	926-A and G Loads	1,890	0	0	0	0	0	0	0	0	0	0	0	0	1,890
	928-AFUDC Debt Reg	268	0	0	0	0	0	0	0	0	0	0	0	0	268
	929-AFUDC - Equity Regular	299	0	0	0	0	0	0	0	0	0	0	0	0	299
	937-San Juan AR - Other	-34,324	0	0	0	0	0	0	0	0	0	0	0	0	-34,324
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	48,615	0	0	0	0	0	0	0	0	0	0	0	0	48,615
	825-Clearings	-48,615	0	0	0	0	0	0	0	0	0	0	0	0	-48,615
	Clr Sum	-48,615	0	0	0	0	0	0	0	0	0	0	0	0	-48,615
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 76616133 Protection Relay Replacement - 2013

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

Construction Start Date

Estimated Completion Date

12/31/2016

List Interim In-Service Dates

These projects will be in service on or before December 31, 2014

Project Need Justification

This project is part of a group of projects that address equipment obsolescence issues and new standards for exposure to potential arc flash energy. Protective relay technology has moved from electromechanical devices to solid state devices and electromechanical relays are becoming obsolete. OSHA regulations regarding exposure to potential arc flash energy have become more stringent since the San Juan Plant was designed and constructed. The relays are located in all areas of the plant - each unit, common areas and the switchyard.

Project Alternatives

The existing electromechanical relays could continue to be maintained but the task will become increasingly difficult as parts become less available. The alternative for compliance with arc flash exposure standards is personal protective equipment for employees assigned to task where arc flash exposure occurs.

Technical Aspects

Replace obsolete electromechanical relays with solid state devices. The relays are located in all areas of the plant - each unit, common areas and the switchyard.

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	76616133	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	2,519			0	0	0	0	0	0	2,519		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	70,673			0	0	0	0	0	0	70,673		
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	-197	-197	-197	-592		
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	189			0	0	0	0	0	0	189		
914-Pension and Benefits Load	928			0	0	0	0	0	0	928		
915-Injuries and Damages Load	78			0	0	0	0	0	0	78		
918-San Juan AR-Labor	-2,196			0	0	0	0	0	0	-2,196		
921-Stores / Purchasing Load	465			0	0	0	0	0	0	465		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	531			0	0	0	0	0	0	531		
926-A and G Loads	1,744			0	0	0	0	0	0	1,744		
928-AFUDC Debt Reg	1,180			94	94	95	95	95	95	1,747		
929-AFUDC - Equity Regular	1,620			101	102	102	103	103	103	2,234		
937-San Juan AR - Other	-38,351			0	0	0	0	0	0	-38,351		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	39,379			195	196	197	0	0	0	39,967		
825-Clearings	0			0	0	0	0	0	-42,138	-42,138		
Clr Sum	0			0	0	0	0	0	-42,138	-42,138		
Proj Net	39,379			195	196	197	0	0	-42,138	-2,170		

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

Cost Year 02

Project	76616133	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	2,519	0	0	0	0	0	0	0	0	0	0	0	0	2,519
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	70,673	0	0	0	0	0	0	0	0	0	0	0	0	70,673
	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	-592	0	0	0	0	0	0	0	0	0	0	0	0	-592
	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	189	0	0	0	0	0	0	0	0	0	0	0	0	189
	914-Pension and Benefits Load	928	0	0	0	0	0	0	0	0	0	0	0	0	928
	915-Injuries and Damages Load	78	0	0	0	0	0	0	0	0	0	0	0	0	78
	918-San Juan AR-Labor	-2,196	0	0	0	0	0	0	0	0	0	0	0	0	-2,196
	921-Stores / Purchasing Load	465	0	0	0	0	0	0	0	0	0	0	0	0	465
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	531	0	0	0	0	0	0	0	0	0	0	0	0	531
	926-A and G Loads	1,744	0	0	0	0	0	0	0	0	0	0	0	0	1,744
	928-AFUDC Debt Reg	1,747	0	0	0	0	0	0	0	0	0	0	0	0	1,747
	929-AFUDC - Equity Regular	2,234	0	0	0	0	0	0	0	0	0	0	0	0	2,234
	937-San Juan AR - Other	-38,351	0	0	0	0	0	0	0	0	0	0	0	0	-38,351
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	39,967	0	0	0	0	0	0	0	0	0	0	0	0	39,967
	825-Clearings	-42,138	0	0	0	0	0	0	0	0	0	0	0	0	-42,138
	Clr Sum	-42,138	0	0	0	0	0	0	0	0	0	0	0	0	-42,138
	Proj Net	-2,170	0	0	0	0	0	0	0	0	0	0	0	0	-2,170

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

Cost Year 03

Project	76616133	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	2,519	0	0	0	0	0	0	0	0	0	0	0	0	2,519
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	70,673	0	0	0	0	0	0	0	0	0	0	0	0	70,673
	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	-592	0	0	0	0	0	0	0	0	0	0	0	0	-592
	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	189	0	0	0	0	0	0	0	0	0	0	0	0	189
	914-Pension and Benefits Load	928	0	0	0	0	0	0	0	0	0	0	0	0	928
	915-Injuries and Damages Load	78	0	0	0	0	0	0	0	0	0	0	0	0	78
	918-San Juan AR-Labor	-2,196	0	0	0	0	0	0	0	0	0	0	0	0	-2,196
	921-Stores / Purchasing Load	465	0	0	0	0	0	0	0	0	0	0	0	0	465
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	531	0	0	0	0	0	0	0	0	0	0	0	0	531
	926-A and G Loads	1,744	0	0	0	0	0	0	0	0	0	0	0	0	1,744
	928-AFUDC Debt Reg	1,747	0	0	0	0	0	0	0	0	0	0	0	0	1,747
	929-AFUDC - Equity Regular	2,234	0	0	0	0	0	0	0	0	0	0	0	0	2,234
	937-San Juan AR - Other	-38,351	0	0	0	0	0	0	0	0	0	0	0	0	-38,351
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	39,967	0	0	0	0	0	0	0	0	0	0	0	0	39,967
	825-Clearings	-42,138	0	0	0	0	0	0	0	0	0	0	0	0	-42,138
	Clr Sum	-42,138	0	0	0	0	0	0	0	0	0	0	0	0	-42,138
	Proj Net	-2,170	0	0	0	0	0	0	0	0	0	0	0	0	-2,170

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Project No: 76616216 Common 4A Conveyor Fluid Drive - 2016

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

<u>Construction Start Date</u>	1/1/2016	<u>Estimated Completion Date</u>	8/31/2016
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

The power plant uses a series of conveyors to move coal from the coal yard into the unit's storage bunkers. The 4A conveyor is one of the two conveyors that are needed to move the coal to the bunkers. Currently, when the conveyor is forced offline and is loaded with coal, it cannot be restarted until the coal is manually unloaded from the belt. This process is very labor intensive and poses a safety hazard. This project will install a fluid drive coupling on the 4A conveyor to allow for more slippage during starts, and the belt to be restarted when loaded.

Project Alternatives

The only alternative would be to continue operating the 4A belt as is and performing the manual and dangerous removal process for the coal when the belt is forced offline.

Technical Aspects

Multiple conveyors are used in the process of moving coal from the coal yard to the coal storage bunkers. Every time there is a change of direction, the coal is loaded from one conveyor to another. If there is a trip on the motor drives of the conveyor signaling a stoppage and the conveyor is loaded with coal, the conveyor must be restarted with more load than the motors are designed to handle. In these cases the conveyor must be manually unloaded unless the conveyor is equipped with a coupling that allows slippage with out damaging the coupling. This is the purpose of a fluid filled coupling.

Project Estimate Approach

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

Cost Year 01

Project	76616216	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	196			0	0	0	0	0	0	196		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	47,323			0	0	0	0	0	0	47,323		
370-Outside Services	47,940			47,750	13,750	0	0	0	0	109,440		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	4,442			0	0	0	0	0	0	4,442		
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	15			0	0	0	0	0	0	15		
914-Pension and Benefits Load	0			0	0	0	0	0	0	0		
915-Injuries and Damages Load	7			0	0	0	0	0	0	7		
918-San Juan AR-Labor	-122			0	0	0	0	0	0	-122		
921-Stores / Purchasing Load	625			0	0	0	0	0	0	625		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	1,899			511	147	0	0	0	0	2,557		
926-A and G Loads	2,368			1,132	326	0	0	0	0	3,826		
928-AFUDC Debt Reg	168			0	0	0	0	0	0	168		
929-AFUDC - Equity Regular	77			0	0	0	0	0	0	77		
937-San Juan AR - Other	-51,500			-20,413	-5,878	0	0	0	0	-77,791		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	53,440			28,979	8,345	0	0	0	0	90,764		
825-Clearings	-78,129			0	-21,864	0	0	0	0	-99,993		
Clr Sum	-78,129			0	-21,864	0	0	0	0	-99,993		
Proj Net	-24,689			28,979	-13,519	0	0	0	0	-9,230		

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

Cost Year 02

Project	76616216	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	196	0	0	0	0	0	0	0	0	0	0	0	0	196
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	47,323	0	0	0	0	0	0	0	0	0	0	0	0	47,323
	370-Outside Services	109,440	0	0	0	0	0	0	0	0	0	0	0	0	109,440
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	4,442	0	0	0	0	0	0	0	0	0	0	0	0	4,442
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	15	0	0	0	0	0	0	0	0	0	0	0	0	15
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	7	0	0	0	0	0	0	0	0	0	0	0	0	7
	918-San Juan AR-Labor	-122	0	0	0	0	0	0	0	0	0	0	0	0	-122
	921-Stores / Purchasing Load	625	0	0	0	0	0	0	0	0	0	0	0	0	625
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	2,557	0	0	0	0	0	0	0	0	0	0	0	0	2,557
	926-A and G Loads	3,826	0	0	0	0	0	0	0	0	0	0	0	0	3,826
	928-AFUDC Debt Reg	168	0	0	0	0	0	0	0	0	0	0	0	0	168
	929-AFUDC - Equity Regular	77	0	0	0	0	0	0	0	0	0	0	0	0	77
	937-San Juan AR - Other	-77,791	0	0	0	0	0	0	0	0	0	0	0	0	-77,791
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	90,764	0	0	0	0	0	0	0	0	0	0	0	0	90,764
	825-Clearings	-99,993	0	0	0	0	0	0	0	0	0	0	0	0	-99,993
	Clr Sum	-99,993	0	0	0	0	0	0	0	0	0	0	0	0	-99,993
Proj Net		-9,230	0	0	0	0	0	0	0	0	0	0	0	0	-9,230

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

Cost Year 03

Project	76616216	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	196	0	0	0	0	0	0	0	0	0	0	0	0	196
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	47,323	0	0	0	0	0	0	0	0	0	0	0	0	47,323
	370-Outside Services	109,440	0	0	0	0	0	0	0	0	0	0	0	0	109,440
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	4,442	0	0	0	0	0	0	0	0	0	0	0	0	4,442
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	15	0	0	0	0	0	0	0	0	0	0	0	0	15
	914-Pension and Benefits Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	915-Injuries and Damages Load	7	0	0	0	0	0	0	0	0	0	0	0	0	7
	918-San Juan AR-Labor	-122	0	0	0	0	0	0	0	0	0	0	0	0	-122
	921-Stores / Purchasing Load	625	0	0	0	0	0	0	0	0	0	0	0	0	625
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	2,557	0	0	0	0	0	0	0	0	0	0	0	0	2,557
	926-A and G Loads	3,826	0	0	0	0	0	0	0	0	0	0	0	0	3,826
	928-AFUDC Debt Reg	168	0	0	0	0	0	0	0	0	0	0	0	0	168
	929-AFUDC - Equity Regular	77	0	0	0	0	0	0	0	0	0	0	0	0	77
	937-San Juan AR - Other	-77,791	0	0	0	0	0	0	0	0	0	0	0	0	-77,791
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	90,764	0	0	0	0	0	0	0	0	0	0	0	0	90,764
	825-Clearings	-99,993	0	0	0	0	0	0	0	0	0	0	0	0	-99,993
	Clr Sum	-99,993	0	0	0	0	0	0	0	0	0	0	0	0	-99,993
Proj Net		-9,230	0	0	0	0	0	0	0	0	0	0	0	0	-9,230

Project No: 76616311 SJ Plant Common PI Installation

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

Construction Start Date Estimated Completion Date 12/1/2016

List Interim In-Service Dates

N/A

Project Need Justification

This project is part of a group of projects that addresses obsolesce issues in various local control systems. The updates will enable monitoring and operation from the control room as well as locally.

Project Alternatives

The alternative to this project is to continue using existing equipment. However, this will become increasingly costly as it becomes more difficult to find replacement.

Technical Aspects

Work will involve installing data collection devices and software to process and record transmitter signals from thousands of sensing elements. The original controls are local panels with mechanical and electromechanical devices and will be replaced with Programmable Logic Controllers (PLCs) which can be connected to the Distributed Control System (DCS). Upgrades will be required periodically, including replacement of Input/Output (I/O) circuit boards and Control Processors (CPs).

Project Estimate Approach

N/A

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

Cost Year 01

Project	76616311	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16								
110-Straight Time-General		25,855		0	0	0	0	0	0	25,855
120-Overtime-General		0		0	0	0	0	0	0	0
350-Material Issues-Major		171,831		0	0	0	0	0	0	171,831
370-Outside Services		563,718		0	0	0	0	0	0	563,718
374-Outside Svcs Legal		14,745		0	0	0	0	0	0	14,745
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		17,806		0	0	0	0	0	0	17,806
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		2,015		0	0	0	0	0	0	2,015
914-Pension and Benefits Load		9,734		0	0	0	0	0	0	9,734
915-Injuries and Damages Load		814		0	0	0	0	0	0	814
918-San Juan AR-Labor		-22,695		0	0	0	0	0	0	-22,695
921-Stores / Purchasing Load		5,625		0	0	0	0	0	0	5,625
922-Minor Material Load		0		0	0	0	0	0	0	0
925-E and S Loads		418		0	0	0	0	0	0	418
926-A and G Loads		21,496		0	0	0	0	0	0	21,496
928-AFUDC Debt Reg		9,086		0	0	0	0	0	0	9,086
929-AFUDC - Equity Regular		12,467		0	0	0	0	0	0	12,467
937-San Juan AR - Other		-482,528		0	0	0	0	0	0	-482,528
961-Luna A&G PNMR D&V		0		0	0	0	0	0	0	0
Cost Sum		350,387		0	0	0	0	0	0	350,387
825-Clearings		-457,184		0	0	0	0	0	82	-457,102
Clr Sum		-457,184		0	0	0	0	0	82	-457,102
Proj Net		-106,796		0	0	0	0	0	82	-106,714

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

Cost Year 02

Project	76616311	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	25,855	0	0	0	0	0	0	0	0	0	0	0	0	25,855
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	171,831	0	0	0	0	0	0	0	0	0	0	0	0	171,831
	370-Outside Services	563,718	0	0	0	0	0	0	0	0	0	0	0	0	563,718
	374-Outside Svcs Legal	14,745	0	0	0	0	0	0	0	0	0	0	0	0	14,745
	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	17,806	0	0	0	0	0	0	0	0	0	0	0	0	17,806
	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	2,015	0	0	0	0	0	0	0	0	0	0	0	0	2,015
	914-Pension and Benefits Load	9,734	0	0	0	0	0	0	0	0	0	0	0	0	9,734
	915-Injuries and Damages Load	814	0	0	0	0	0	0	0	0	0	0	0	0	814
	918-San Juan AR-Labor	-22,695	0	0	0	0	0	0	0	0	0	0	0	0	-22,695
	921-Stores / Purchasing Load	5,625	0	0	0	0	0	0	0	0	0	0	0	0	5,625
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	418	0	0	0	0	0	0	0	0	0	0	0	0	418
	926-A and G Loads	21,496	0	0	0	0	0	0	0	0	0	0	0	0	21,496
	928-AFUDC Debt Reg	9,086	0	0	0	0	0	0	0	0	0	0	0	0	9,086
	929-AFUDC - Equity Regular	12,467	0	0	0	0	0	0	0	0	0	0	0	0	12,467
	937-San Juan AR - Other	-482,528	0	0	0	0	0	0	0	0	0	0	0	0	-482,528
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	350,387	0	0	0	0	0	0	0	0	0	0	0	0	350,387
	825-Clearings	-457,102	0	0	0	0	0	0	0	0	0	0	0	0	-457,102
	Clr Sum	-457,102	0	0	0	0	0	0	0	0	0	0	0	0	-457,102
	Proj Net	-106,714	0	0	0	0	0	0	0	0	0	0	0	0	-106,714

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

Cost Year 03

Project	76616311	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	25,855	0	0	0	0	0	0	0	0	0	0	0	0	25,855	
120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350-Material Issues-Major	171,831	0	0	0	0	0	0	0	0	0	0	0	0	171,831	
370-Outside Services	563,718	0	0	0	0	0	0	0	0	0	0	0	0	563,718	
374-Outside Svcs Legal	14,745	0	0	0	0	0	0	0	0	0	0	0	0	14,745	
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	17,806	0	0	0	0	0	0	0	0	0	0	0	0	17,806	
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	2,015	0	0	0	0	0	0	0	0	0	0	0	0	2,015	
914-Pension and Benefits Load	9,734	0	0	0	0	0	0	0	0	0	0	0	0	9,734	
915-Injuries and Damages Load	814	0	0	0	0	0	0	0	0	0	0	0	0	814	
918-San Juan AR-Labor	-22,695	0	0	0	0	0	0	0	0	0	0	0	0	-22,695	
921-Stores / Purchasing Load	5,625	0	0	0	0	0	0	0	0	0	0	0	0	5,625	
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
925-E and S Loads	418	0	0	0	0	0	0	0	0	0	0	0	0	418	
926-A and G Loads	21,496	0	0	0	0	0	0	0	0	0	0	0	0	21,496	
928-AFUDC Debt Reg	9,086	0	0	0	0	0	0	0	0	0	0	0	0	9,086	
929-AFUDC - Equity Regular	12,467	0	0	0	0	0	0	0	0	0	0	0	0	12,467	
937-San Juan AR - Other	-482,528	0	0	0	0	0	0	0	0	0	0	0	0	-482,528	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	350,387	0	0	0	0	0	0	0	0	0	0	0	0	350,387	
825-Clearings	-457,102	0	0	0	0	0	0	0	0	0	0	0	0	-457,102	
Clr Sum	-457,102	0	0	0	0	0	0	0	0	0	0	0	0	-457,102	
Proj Net	-106,714	0	0	0	0	0	0	0	0	0	0	0	0	-106,714	

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

Cost Year 01

Project	76616617	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16									
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	76616617	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	9,700	0	19,400	19,400	29,100	19,400	24,250	20,750	0	0	0	142,000	
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	104	0	208	208	311	208	259	222	0	0	0	1,519	
926-A and G Loads	0	0	230	0	460	460	690	460	575	492	0	0	0	3,365	
928-AFUDC Debt Reg	0	0	8	15	31	62	100	139	175	211	0	0	0	742	
929-AFUDC - Equity Regular	0	0	10	20	40	81	132	183	229	277	0	0	0	973	
937-San Juan AR - Other	0	0	-4,147	0	-8,294	-8,294	-12,440	-8,294	-10,367	-8,871	0	0	0	-60,706	
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	5,905	36	11,845	11,916	17,893	12,096	15,121	13,082	0	0	0	87,893	
825-Clearings	0	0	0	0	0	0	0	0	0	-87,893	0	0	0	-87,893	
Clr Sum	0	0	0	0	0	0	0	0	0	-87,893	0	0	0	-87,893	
Proj Net	0	0	5,905	36	11,845	11,916	17,893	12,096	15,121	-74,811	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	76616617	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	142,000	0	0	0	0	0	0	0	0	0	0	0	0	142,000
	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	1,519	0	0	0	0	0	0	0	0	0	0	0	0	1,519
	926-A and G Loads	3,365	0	0	0	0	0	0	0	0	0	0	0	0	3,365
	928-AFUDC Debt Reg	742	0	0	0	0	0	0	0	0	0	0	0	0	742
	929-AFUDC - Equity Regular	973	0	0	0	0	0	0	0	0	0	0	0	0	973
	937-San Juan AR - Other	-60,706	0	0	0	0	0	0	0	0	0	0	0	0	-60,706
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	87,893	0	0	0	0	0	0	0	0	0	0	0	0	87,893
	825-Clearings	-87,893	0	0	0	0	0	0	0	0	0	0	0	0	-87,893
	Clr Sum	-87,893	0	0	0	0	0	0	0	0	0	0	0	0	-87,893
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 76617315 Common A&B Coal Reclaim System Refurbishment

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

<u>Construction Start Date</u>	5/1/2015	<u>Estimated Completion Date</u>	2/28/2016
<u>List Interim In-Service Dates</u>	N/A		

Project Need Justification

The San Juan Generating Station A and B coal reclaim systems have been out of service for several years. The facility was abandoned following a water line rupture that flooded the reclaim pit and access tunnel. All of the equipment in the reclaim pit (feeders, conveyor belts, dust collection equipment) suffered water damage. At that time, it was determined that San Juan Generating Station's fuel requirements could be met using only the C and D reclaim systems. With the expiration of the coal supply agreement with BHP Billiton, PNM has been evaluating other coal supply resource opportunities. In order to be capable of receiving coal from another source, the A and B reclaim system would need to be operational. Refurbishing the A and B reclaim system and returning it to service bring an added benefit of redundancy to the C and D reclaim system. This will reduce the risk of lost reliability due to interruptions in the supply of coal to the boilers. The scope of this project is to perform conceptual engineering to determine the scope of work necessary to return the A and B reclaim system to operation and to comply with all applicable codes. Completion of this project will give PNM leverage in negotiating coal supply options and coal pricing. The project cost includes engineering, investigative studies and project management.

Project Alternatives

The alternative to the scope of the project is to leave A and B reclaim system out of service. Management has determined there is a reasonable potential that an alternative fuel supply is a viable option (Ute Mountain Ute). To make this option a potential reality, the A and B reclaim must be returned to service. Several options regarding equipment and installation will be evaluated as the project develops.

Technical Aspects

This will be a phased project that complies with PNM's 2 Step CDAP process for large capital projects. The scope of work for the first phase is to determine the condition of the existing equipment and the extent of upgrades required first make the equipment functional again and then make it compliant with current codes. A detailed cost estimate and schedule for the total project will be developed during this first phase. The final Conceptual engineering must be completed before a complete scope can be defined for Phase 2 of the project.

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

Cost Year 01

Project	76617315	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	1,364			0	0	0	0	0	0	1,364		
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	521,293			0	0	0	0	0	0	521,293		
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	342			0	0	0	0	0	0	342		
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	106			0	0	0	0	0	0	106		
914-Pension and Benefits Load	477			0	0	0	0	0	0	477		
915-Injuries and Damages Load	77			0	0	0	0	0	0	77		
918-San Juan AR-Labor	-1,196			0	0	0	0	0	0	-1,196		
921-Stores / Purchasing Load	3,643			0	0	0	0	0	0	3,643		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	13,194			0	0	0	0	0	0	13,194		
926-A and G Loads	12,400			0	0	0	0	0	0	12,400		
928-AFUDC Debt Reg	1,697			0	0	0	0	0	0	1,697		
929-AFUDC - Equity Regular	2,206			0	0	0	0	0	0	2,206		
937-San Juan AR - Other	-271,139			0	0	0	0	0	0	-271,139		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	284,463			0	0	0	0	0	0	284,463		
825-Clearings	-284,689			0	0	0	0	0	-13,935	-298,623		
Clr Sum	-284,689			0	0	0	0	0	-13,935	-298,623		
Proj Net	-226			0	0	0	0	0	-13,935	-14,161		

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

Cost Year 02

Project	76617315	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,364	0	0	0	0	0	0	0	0	0	0	0	0	1,364
	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	521,293	0	0	0	0	0	0	0	0	0	0	0	0	521,293
	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	342	0	0	0	0	0	0	0	0	0	0	0	0	342
	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	106	0	0	0	0	0	0	0	0	0	0	0	0	106
	914-Pension and Benefits Load	477	0	0	0	0	0	0	0	0	0	0	0	0	477
	915-Injuries and Damages Load	77	0	0	0	0	0	0	0	0	0	0	0	0	77
	918-San Juan AR-Labor	-1,196	0	0	0	0	0	0	0	0	0	0	0	0	-1,196
	921-Stores / Purchasing Load	3,643	0	0	0	0	0	0	0	0	0	0	0	0	3,643
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	13,194	0	0	0	0	0	0	0	0	0	0	0	0	13,194
	926-A and G Loads	12,400	0	0	0	0	0	0	0	0	0	0	0	0	12,400
	928-AFUDC Debt Reg	1,697	0	0	0	0	0	0	0	0	0	0	0	0	1,697
	929-AFUDC - Equity Regular	2,206	0	0	0	0	0	0	0	0	0	0	0	0	2,206
	937-San Juan AR - Other	-271,139	0	0	0	0	0	0	0	0	0	0	0	0	-271,139
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	284,463	0	0	0	0	0	0	0	0	0	0	0	0	284,463
	825-Clearings	-298,623	0	0	0	0	0	0	0	0	0	0	0	0	-298,623
	Clr Sum	-298,623	0	0	0	0	0	0	0	0	0	0	0	0	-298,623
	Proj Net	-14,161	0	0	0	0	0	0	0	0	0	0	0	0	-14,161

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

Cost Year 03

Project	76617315	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,364	0	0	0	0	0	0	0	0	0	0	0	0	1,364
	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	521,293	0	0	0	0	0	0	0	0	0	0	0	0	521,293
	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	342	0	0	0	0	0	0	0	0	0	0	0	0	342
	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	106	0	0	0	0	0	0	0	0	0	0	0	0	106
	914-Pension and Benefits Load	477	0	0	0	0	0	0	0	0	0	0	0	0	477
	915-Injuries and Damages Load	77	0	0	0	0	0	0	0	0	0	0	0	0	77
	918-San Juan AR-Labor	-1,196	0	0	0	0	0	0	0	0	0	0	0	0	-1,196
	921-Stores / Purchasing Load	3,643	0	0	0	0	0	0	0	0	0	0	0	0	3,643
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	13,194	0	0	0	0	0	0	0	0	0	0	0	0	13,194
	926-A and G Loads	12,400	0	0	0	0	0	0	0	0	0	0	0	0	12,400
	928-AFUDC Debt Reg	1,697	0	0	0	0	0	0	0	0	0	0	0	0	1,697
	929-AFUDC - Equity Regular	2,206	0	0	0	0	0	0	0	0	0	0	0	0	2,206
	937-San Juan AR - Other	-271,139	0	0	0	0	0	0	0	0	0	0	0	0	-271,139
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	284,463	0	0	0	0	0	0	0	0	0	0	0	0	284,463
	825-Clearings	-298,623	0	0	0	0	0	0	0	0	0	0	0	0	-298,623
	Clr Sum	-298,623	0	0	0	0	0	0	0	0	0	0	0	0	-298,623
	Proj Net	-14,161	0	0	0	0	0	0	0	0	0	0	0	0	-14,161

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Project No: 76617417 Common PLC Replacement - 2021

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

Construction Start Date 1/15/2017 Estimated Completion Date 5/31/2019

List Interim In-Service Dates

Interim service dates include: 12/1/2017, 12/1/2018, 12/1/2019, 12/1/2020.

Project Need Justification

The station uses programmable logic controllers (PLC's) to operate various pieces of equipment at the facility. Over time these controllers become obsolete. This project will replace specific controllers based on age and risk to newer and more modern controls. Project benefits focus on reliability and protection of equipment and personnel that work around said equipment.

Project Alternatives

Alternatives include do nothing and replace PLC's as they fail. This is detrimental in both cost and reliability. Second option is to eliminate the PLC, bring in I/O cabinets and use the main control system. This is an expensive option in terms of installation cost. Recommended option is to replace with up to date PLC's and remain with current logic architecture.

Technical Aspects

This project would replace the existing PLC with a more modern PLC. Process includes engineering review of current logic, purchase of new PLC, installation of the process logic, work on test bench to ensure logic functional and design is sound, removal of existing PLC and installation of new PLC. Loop checks and commissioning would complete the project. Depending on the PLC some would require Unit outages, others would not.

Project Estimate Approach

Estimates are based on PLC quotes and engineering and instrumentation labor for execution, design, and testing.

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

Cost Year 01

Project	76617417	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16									
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	76617417	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	9,700	9,700	19,000	9,500	0	0	0	0	0	47,900
	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	104	104	203	102	0	0	0	0	0	513
	926-A and G Loads	0	0	0	0	230	230	450	225	0	0	0	0	0	1,135
	928-AFUDC Debt Reg	0	0	0	0	8	23	46	69	0	0	0	0	0	145
	929-AFUDC - Equity Regular	0	0	0	0	10	30	60	90	0	0	0	0	0	191
	937-San Juan AR - Other	0	0	0	0	-4,147	-4,147	-8,123	-4,061	0	0	0	0	0	-20,478
	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	5,905	5,940	11,637	5,924	0	0	0	0	0	29,406
	825-Clearings	0	0	0	0	0	0	0	-29,406	0	0	0	0	0	-29,406
	Clr Sum	0	0	0	0	0	0	0	-29,406	0	0	0	0	0	-29,406
Proj Net		0	0	0	0	5,905	5,940	11,637	-23,482	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	76617417	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	47,900	0	0	0	0	0	0	0	9,700	9,700	19,000	9,500	0	95,800
	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	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	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	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	513	0	0	0	0	0	0	0	104	104	203	102	0	1,025
	926-A and G Loads	1,135	0	0	0	0	0	0	0	230	230	450	225	0	2,270
	928-AFUDC Debt Reg	145	0	0	0	0	0	0	0	9	26	52	78	0	310
929-AFUDC - Equity Regular	937-San Juan AR - Other	191	0	0	0	0	0	0	0	8	24	47	70	0	339
	961-Luna A&G PNMR D&V	-20,478	0	0	0	0	0	0	0	-3,377	-3,377	-6,615	-3,307	0	-37,153
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	29,406	0	0	0	0	0	0	0	6,673	6,706	13,138	6,667	0	62,591
	825-Clearings	-29,406	0	0	0	0	0	0	0	0	0	0	-33,185	0	-62,591
	Clr Sum	-29,406	0	0	0	0	0	0	0	0	0	0	-33,185	0	-62,591
Proj Net		0	0	0	0	0	0	0	0	6,673	6,706	13,138	-26,517	0	0

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Project No: 76617516 Common Coal Combustion Residuals Area Lighting

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

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

List Interim In-Service Dates

0

Project Need Justification

The coal combustion residuals (CCR) collection area is an area where coal ash is collected per the federal CCR rule. Equipment loads this ash onto waiting trucks for disposal on a 24-hour cycle. Because this area has just recently been established, there are no permanent lights illuminate the area and allow heavy equipment operators to move around at night. This project will install permanent lighting in this area for safer operations.

Project Alternatives

An alternative would be to use portable lighting equipment but this is personnel intensive because the generators for the lights must be supplied with fuel several times a day.

Technical Aspects

The CCR rule is a new federal requirement to keep flyash from contaminating the ground or ground water. A containment unit will be built to collect a majority of the flyash. The flyash can then be loaded into transport trucks by large tractors and moved to the disposal site. Removal of the flyash is a necessary, around the clock operation.

Project Estimate Approach

The estimate is based on electrical contractor cost estimates.

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

Cost Year 01

Project	76617516	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
110-Straight Time-General	1,525			0	0	0	0	0	0	1,525
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	37,940			33,750	7,500	0	0	0	0	79,190
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			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	-221	0	0	-221
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	118			0	0	0	0	0	0	118
914-Pension and Benefits Load	342			0	0	0	0	0	0	342
915-Injuries and Damages Load	56			0	0	0	0	0	0	56
918-San Juan AR-Labor	-1,117			0	0	0	0	0	0	-1,117
921-Stores / Purchasing Load	235			0	0	0	0	0	0	235
922-Minor Material Load	0			0	0	0	0	0	0	0
925-E and S Loads	764			361	80	0	0	0	0	1,205
926-A and G Loads	941			800	178	0	0	0	0	1,918
928-AFUDC Debt Reg	58			71	100	106	106	0	0	441
929-AFUDC - Equity Regular	26			77	108	114	115	0	0	441
937-San Juan AR - Other	-19,635			-14,428	-3,206	0	0	0	0	-37,270
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0
Cost Sum	21,253			20,632	4,760	220	0	0	0	46,865
825-Clearings	0			0	0	0	-47,092	0	0	-47,092
Clr Sum	0			0	0	0	-47,092	0	0	-47,092
Proj Net	21,253			20,632	4,760	220	-47,092	0	0	-227

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

Cost Year 02

Project	76617516	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,525	0	0	0	0	0	0	0	0	0	0	0	0	1,525
	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	79,190	0	0	0	0	0	0	0	0	0	0	0	0	79,190
	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	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	0
829-Construction Adjustment	-221	0	0	0	0	0	0	0	0	0	0	0	0	0	-221
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	118	0	0	0	0	0	0	0	0	0	0	0	0	0	118
914-Pension and Benefits Load	342	0	0	0	0	0	0	0	0	0	0	0	0	0	342
915-Injuries and Damages Load	56	0	0	0	0	0	0	0	0	0	0	0	0	0	56
918-San Juan AR-Labor	-1,117	0	0	0	0	0	0	0	0	0	0	0	0	0	-1,117
921-Stores / Purchasing Load	235	0	0	0	0	0	0	0	0	0	0	0	0	0	235
922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
925-E and S Loads	1,205	0	0	0	0	0	0	0	0	0	0	0	0	0	1,205
926-A and G Loads	1,918	0	0	0	0	0	0	0	0	0	0	0	0	0	1,918
928-AFUDC Debt Reg	441	0	0	0	0	0	0	0	0	0	0	0	0	0	441
929-AFUDC - Equity Regular	441	0	0	0	0	0	0	0	0	0	0	0	0	0	441
937-San Juan AR - Other	-37,270	0	0	0	0	0	0	0	0	0	0	0	0	0	-37,270
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Sum	46,865	0	0	0	0	0	0	0	0	0	0	0	0	0	46,865
825-Clearings	-47,092	0	0	0	0	0	0	0	0	0	0	0	0	0	-47,092
Clr Sum	-47,092	0	0	0	0	0	0	0	0	0	0	0	0	0	-47,092
Proj Net	-227	0	0	0	0	0	0	0	0	0	0	0	0	0	-227

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

Cost Year 03

Project	76617516	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,525	0	0	0	0	0	0	0	0	0	0	0	0	1,525
	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	79,190	0	0	0	0	0	0	0	0	0	0	0	0	79,190
	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	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	-221	0	0	0	0	0	0	0	0	0	0	0	0	-221
	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	118	0	0	0	0	0	0	0	0	0	0	0	0	118
	914-Pension and Benefits Load	342	0	0	0	0	0	0	0	0	0	0	0	0	342
	915-Injuries and Damages Load	56	0	0	0	0	0	0	0	0	0	0	0	0	56
	918-San Juan AR-Labor	-1,117	0	0	0	0	0	0	0	0	0	0	0	0	-1,117
	921-Stores / Purchasing Load	235	0	0	0	0	0	0	0	0	0	0	0	0	235
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,205	0	0	0	0	0	0	0	0	0	0	0	0	1,205
	926-A and G Loads	1,918	0	0	0	0	0	0	0	0	0	0	0	0	1,918
	928-AFUDC Debt Reg	441	0	0	0	0	0	0	0	0	0	0	0	0	441
	929-AFUDC - Equity Regular	441	0	0	0	0	0	0	0	0	0	0	0	0	441
	937-San Juan AR - Other	-37,270	0	0	0	0	0	0	0	0	0	0	0	0	-37,270
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	46,865	0	0	0	0	0	0	0	0	0	0	0	0	46,865
	825-Clearings	-47,092	0	0	0	0	0	0	0	0	0	0	0	0	-47,092
	Clr Sum	-47,092	0	0	0	0	0	0	0	0	0	0	0	0	-47,092
	Proj Net	-227	0	0	0	0	0	0	0	0	0	0	0	0	-227

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Project No: 76617724 Plant Common North Side Wastewater Product Line Replacement

Company: 003-Bulk Power

Location: 766 San Juan

Project Information

Construction Start Date

Estimated Completion Date

12/1/2016

List Interim In-Service Dates

These projects will be in service on or before December 31, 2016

Project Need Justification

The existing line, know as North Side Wastewater Product Line, from evaporation pond #3 to brine concentrator #5 is runs under a limestone storage pile. While reclaiming limestone from the storage pile, the line has been hit several times, sometimes damaged and sometimes resulting in an uncontrolled discharge of process waters. Replacement and relocation is required to insure system reliability and to reduce the risk of an uncontrolled liquid discharge.

Project Alternatives

There are no alternatives to because the line is damaged beyond repair. The chemistry of the process water drives the material selection. Though stainless steel is an option, HDPE is the most cost-effective material for this application, as it was determined stainless steel was not be necessary for this project.

Technical Aspects

The scope of work includes installing approximately 700 feet of 16" HDPE pipe. HDPE material is the appropriate material selection for handling waters from the process pond to the brine concentrator. The piping will follow a new alignment that is not underneath the limestone pile. Approximately 420 feet of the pipe will be encased in concrete. The entire length of piping will be installed below grade.

Project Estimate Approach

The cost estimate was prepared by a civil engineering firm and is comparable to several other projects of similar scope. The cost estimate was further refined after competitive bids were received in September 2014. There were three bidders including the recommended bidder, AUI, Inc. of Albuquerque, NM. The cost estimate is 65% construction labor and equipment, 20% materials, 10% engineering and project management, 5% quality control, 4% general and administrative overheads and 1% AFUDC.

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

Cost Year 01

Project	76617724	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
110-Straight Time-General	4,311			0	0	0	0	0	0	4,311
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	96,291			0	0	0	0	0	0	96,291
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	334			0	0	0	0	0	0	334
914-Pension and Benefits Load	1,413			0	0	0	0	0	0	1,413
915-Injuries and Damages Load	120			0	0	0	0	0	0	120
918-San Juan AR-Labor	-3,354			0	0	0	0	0	0	-3,354
921-Stores / Purchasing Load	955			0	0	0	0	0	0	955
922-Minor Material Load	0			0	0	0	0	0	0	0
925-E and S Loads	1,001			0	0	0	0	0	0	1,001
926-A and G Loads	2,400			0	0	0	0	0	0	2,400
928-AFUDC Debt Reg	702			0	0	0	0	0	0	702
929-AFUDC - Equity Regular	1,029			0	0	0	0	0	0	1,029
937-San Juan AR - Other	-44,246			0	0	0	0	0	0	-44,246
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0
Cost Sum	60,955			0	0	0	0	0	0	60,955
825-Clearings	0			0	0	0	0	0	-61,597	-61,597
Clr Sum	0			0	0	0	0	0	-61,597	-61,597
Proj Net	60,955			0	0	0	0	0	-61,597	-642

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

Cost Year 02

Project	76617724	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	4,311	0	0	0	0	0	0	0	0	0	0	0	0	4,311
	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	96,291	0	0	0	0	0	0	0	0	0	0	0	0	96,291
	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	334	0	0	0	0	0	0	0	0	0	0	0	0	334
	914-Pension and Benefits Load	1,413	0	0	0	0	0	0	0	0	0	0	0	0	1,413
	915-Injuries and Damages Load	120	0	0	0	0	0	0	0	0	0	0	0	0	120
	918-San Juan AR-Labor	-3,354	0	0	0	0	0	0	0	0	0	0	0	0	-3,354
	921-Stores / Purchasing Load	955	0	0	0	0	0	0	0	0	0	0	0	0	955
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,001	0	0	0	0	0	0	0	0	0	0	0	0	1,001
	926-A and G Loads	2,400	0	0	0	0	0	0	0	0	0	0	0	0	2,400
	928-AFUDC Debt Reg	702	0	0	0	0	0	0	0	0	0	0	0	0	702
	929-AFUDC - Equity Regular	1,029	0	0	0	0	0	0	0	0	0	0	0	0	1,029
	937-San Juan AR - Other	-44,246	0	0	0	0	0	0	0	0	0	0	0	0	-44,246
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	60,955	0	0	0	0	0	0	0	0	0	0	0	0	60,955
	825-Clearings	-61,597	0	0	0	0	0	0	0	0	0	0	0	0	-61,597
	Clr Sum	-61,597	0	0	0	0	0	0	0	0	0	0	0	0	-61,597
Proj Net		-642	0	0	0	0	0	0	0	0	0	0	0	0	-642

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

Cost Year 03

Project	76617724	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	4,311	0	0	0	0	0	0	0	0	0	0	0	0	4,311
	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	96,291	0	0	0	0	0	0	0	0	0	0	0	0	96,291
	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	334	0	0	0	0	0	0	0	0	0	0	0	0	334
	914-Pension and Benefits Load	1,413	0	0	0	0	0	0	0	0	0	0	0	0	1,413
	915-Injuries and Damages Load	120	0	0	0	0	0	0	0	0	0	0	0	0	120
	918-San Juan AR-Labor	-3,354	0	0	0	0	0	0	0	0	0	0	0	0	-3,354
	921-Stores / Purchasing Load	955	0	0	0	0	0	0	0	0	0	0	0	0	955
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	1,001	0	0	0	0	0	0	0	0	0	0	0	0	1,001
	926-A and G Loads	2,400	0	0	0	0	0	0	0	0	0	0	0	0	2,400
	928-AFUDC Debt Reg	702	0	0	0	0	0	0	0	0	0	0	0	0	702
	929-AFUDC - Equity Regular	1,029	0	0	0	0	0	0	0	0	0	0	0	0	1,029
	937-San Juan AR - Other	-44,246	0	0	0	0	0	0	0	0	0	0	0	0	-44,246
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	60,955	0	0	0	0	0	0	0	0	0	0	0	0	60,955
	825-Clearings	-61,597	0	0	0	0	0	0	0	0	0	0	0	0	-61,597
	Clr Sum	-61,597	0	0	0	0	0	0	0	0	0	0	0	0	-61,597
Proj Net		-642	0	0	0	0	0	0	0	0	0	0	0	0	-642

Project No: 76617815 Common NERC Firewall

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

<u>Construction Start Date</u>	9/1/2015	<u>Estimated Completion Date</u>	8/31/2016
<u>List Interim In-Service Dates</u>	N/A		

Project Need Justification

As an owner and operator of a Bulk Electric System (BES), PNM is required to comply with applicable standards from NERC. This project is one of several projects relating to NERC compliance. Many standards apply but most of these projects are aimed at compliance with the latest version of the NERC CIP (Critical Infrastructure Protection) standard. Firewalls and software updates are necessary to minimize the threat of cyber attacks or hacking into the control systems.

Project Alternatives

Some alternatives in the method of compliance are available but there are no alternative to complying with the standard. This specific project was selected because it was deemed the best option available to PNM to comply with NERC standards.

Technical Aspects

Replace aging firewall hardware devices and software with updated equipment and software.

Project Estimate Approach

N/A

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

Cost Year 01

Project	76617815	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16									
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		82,147			0	0	0	0	0	0	82,147
370-Outside Services		0			14,250	6,950	0	0	0	0	21,200
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		932			0	0	0	0	0	0	932
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		923			0	0	0	0	0	0	923
922-Minor Material Load		0			0	0	0	0	0	0	0
925-E and S Loads		3,857			152	74	0	0	0	0	4,084
926-A and G Loads		3,485			338	165	0	0	0	0	3,988
928-AFUDC Debt Reg		0			-13	5	0	0	0	0	-8
929-AFUDC - Equity Regular		0			-14	5	0	0	0	0	-9
937-San Juan AR - Other		-76,471			-6,092	-2,971	0	0	0	0	-85,534
961-Luna A&G PNMR D&V		0			0	0	0	0	0	0	0
Cost Sum		14,873			8,622	4,228	0	0	0	0	27,722
825-Clearings		-69,775			1,377	-4,228	0	0	0	0	-92,626
Clr Sum		-69,775			1,377	-4,228	0	0	0	0	-92,626
Proj Net		-74,902			9,999	0	0	0	0	0	-64,903

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

Cost Year 02

Project	76617815	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	82,147	0	0	0	0	0	0	0	0	0	0	0	0	82,147
	370-Outside Services	21,200	0	0	0	0	0	0	0	0	0	0	0	0	21,200
	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	932	0	0	0	0	0	0	0	0	0	0	0	0	932
	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	923	0	0	0	0	0	0	0	0	0	0	0	0	923
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	4,084	0	0	0	0	0	0	0	0	0	0	0	0	4,084
	926-A and G Loads	3,988	0	0	0	0	0	0	0	0	0	0	0	0	3,988
	928-AFUDC Debt Reg	-8	0	0	0	0	0	0	0	0	0	0	0	0	-8
929-AFUDC - Equity Regular		-9	0	0	0	0	0	0	0	0	0	0	0	0	-9
	937-San Juan AR - Other	-85,534	0	0	0	0	0	0	0	0	0	0	0	0	-85,534
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	27,722	0	0	0	0	0	0	0	0	0	0	0	0	27,722
	825-Clearings	-92,626	0	0	0	0	0	0	0	0	0	0	0	0	-92,626
	Clr Sum	-92,626	0	0	0	0	0	0	0	0	0	0	0	0	-92,626
Proj Net		-64,903	0	0	0	0	0	0	0	0	0	0	0	0	-64,903

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

Cost Year 03

Project	76617815	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	82,147	0	0	0	0	0	0	0	0	0	0	0	0	82,147
	370-Outside Services	21,200	0	0	0	0	0	0	0	0	0	0	0	0	21,200
	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	932	0	0	0	0	0	0	0	0	0	0	0	0	932
	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	923	0	0	0	0	0	0	0	0	0	0	0	0	923
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	4,084	0	0	0	0	0	0	0	0	0	0	0	0	4,084
	926-A and G Loads	3,988	0	0	0	0	0	0	0	0	0	0	0	0	3,988
	928-AFUDC Debt Reg	-8	0	0	0	0	0	0	0	0	0	0	0	0	-8
	929-AFUDC - Equity Regular	-9	0	0	0	0	0	0	0	0	0	0	0	0	-9
	937-San Juan AR - Other	-85,534	0	0	0	0	0	0	0	0	0	0	0	0	-85,534
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	27,722	0	0	0	0	0	0	0	0	0	0	0	0	27,722
	825-Clearings	-92,626	0	0	0	0	0	0	0	0	0	0	0	0	-92,626
	Clr Sum	-92,626	0	0	0	0	0	0	0	0	0	0	0	0	-92,626
	Proj Net	-64,903	0	0	0	0	0	0	0	0	0	0	0	0	-64,903

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Project No: 76617816 Common Combustion Residuals Compliance - 2015

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

Construction Start Date 7/1/2015 Estimated Completion Date 3/31/2016

List Interim In-Service Dates

0

Project Need Justification

The Environmental Protection Administration (EPA) issued a rule on April 15, 2015 that required coal fired facilities to install equipment to collect waste ash to prevent ground and ground water contamination. An Engineering review of San Juan suggested the need for two sites. The first site will be at the gypsum pile and the second at the ash pit where all other waste material is gathered for disposal. This project will build these two containments per the engineering designs.

Project Alternatives

There are no alternatives, this project is necessary to meet EPA requirements.

Technical Aspects

The purpose of the project is to capture combustion by-products in such a manner that they do not leak into the ground and where they can be held pending disposal.

Project Estimate Approach

Estimate is based on cost estimates from engineering firms.

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

Cost Year 01

Project	76617816	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	1,498,844			0	0	0	0	0	0	1,498,844		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	30,945			0	0	0	0	0	0	30,945		
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	10,470			0	0	0	0	0	0	10,470		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	48,613			0	0	0	0	0	0	48,613		
926-A and G Loads	36,256			0	0	0	0	0	0	36,256		
928-AFUDC Debt Reg	765			0	0	0	0	0	0	765		
929-AFUDC - Equity Regular	998			0	0	0	0	0	0	998		
937-San Juan AR - Other	-800,148			0	0	0	0	0	0	-800,148		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	826,742			0	0	0	0	0	0	826,742		
825-Clearings	-827,501			0	0	0	0	0	759	-826,742		
Clr Sum	-827,501			0	0	0	0	0	759	-826,742		
Proj Net	-759			0	0	0	0	0	759	0		

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

Cost Year 02

Project	76617816	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	1,498,844	0	0	0	0	0	0	0	0	0	0	0	0	1,498,844
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	30,945	0	0	0	0	0	0	0	0	0	0	0	0	30,945
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		10,470	0	0	0	0	0	0	0	0	0	0	0	0	10,470
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	48,613	0	0	0	0	0	0	0	0	0	0	0	0	48,613
	926-A and G Loads	36,256	0	0	0	0	0	0	0	0	0	0	0	0	36,256
	928-AFUDC Debt Reg	765	0	0	0	0	0	0	0	0	0	0	0	0	765
929-AFUDC - Equity Regular		998	0	0	0	0	0	0	0	0	0	0	0	0	998
937-San Juan AR - Other		-800,148	0	0	0	0	0	0	0	0	0	0	0	0	-800,148
961-Luna A&G PNMR D&V		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	826,742	0	0	0	0	0	0	0	0	0	0	0	0	826,742
	825-Clearings	-826,742	0	0	0	0	0	0	0	0	0	0	0	0	-826,742
	Clr Sum	-826,742	0	0	0	0	0	0	0	0	0	0	0	0	-826,742
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	76617816	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	1,498,844	0	0	0	0	0	0	0	0	0	0	0	0	1,498,844
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	30,945	0	0	0	0	0	0	0	0	0	0	0	0	30,945
	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	10,470	0	0	0	0	0	0	0	0	0	0	0	0	10,470
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	48,613	0	0	0	0	0	0	0	0	0	0	0	0	48,613
	926-A and G Loads	36,256	0	0	0	0	0	0	0	0	0	0	0	0	36,256
	928-AFUDC Debt Reg	765	0	0	0	0	0	0	0	0	0	0	0	0	765
	929-AFUDC - Equity Regular	998	0	0	0	0	0	0	0	0	0	0	0	0	998
	937-San Juan AR - Other	-800,148	0	0	0	0	0	0	0	0	0	0	0	0	-800,148
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	826,742	0	0	0	0	0	0	0	0	0	0	0	0	826,742
	825-Clearings	-826,742	0	0	0	0	0	0	0	0	0	0	0	0	-826,742
	Clr Sum	-826,742	0	0	0	0	0	0	0	0	0	0	0	0	-826,742
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 76617916 Common Coal Handling Combustible Dust Mitigation

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

Construction Start Date 5/1/2015 Estimated Completion Date 12/31/2016

List Interim In-Service Dates

0

Project Need Justification

Coal must be transported on coal conveyors to move through the plant to storage bins for each unit. Any time the coal has to change direction it must be dropped from one belt to another. When the plant was originally built, many of these locations did not have dust collection systems to collect the combustible dust that is a byproduct of this process. This project addresses Occupational Safety and Health Administration (OSHA) compliance (CPL03-00-008) issues concerning combustible dust by installing a dust mitigation system.

Project Alternatives

Alternatives for the current project specifications would include various iterations of the above listed upgrades. However, these alternatives would not have the same necessary affect as the original project.

Technical Aspects

The project allows for equipment upgrades including: replacement and relocation of the 4A/4B conveyor magnet systems, replacement of the 4A/4B conveyor head chutes, fabrication and installation of tripper conveyor skirt boxes, upgrades to the belt cleaning systems, upgrades to isolation gates and plugged chute switches, upgrades to access doors, upgrades to tripper car belt cleaners and access doors, installation of conveyor guarding systems, installation of access platforms, and the extension of duct-work to tie into existing Elgart brand dust collection equipment.

Project Estimate Approach

Estimate is based on cost estimates from equipment suppliers and mechanical contractors.

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

Cost Year 01

Project	76617916	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	11,619			0	0	0	0	0	0	11,619		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	12,639			0	0	0	0	0	0	12,639		
370-Outside Services	1,109,945			0	0	0	0	0	0	1,109,945		
374-Outside Svcs Legal	0			0	0	0	0	0	0	0		
377-Outside Services-Temp Labor	59,816			0	0	0	0	0	0	59,816		
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	-256	-256	-256	-768		
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	898			0	0	0	0	0	0	898		
914-Pension and Benefits Load	4,239			0	0	0	0	0	0	4,239		
915-Injuries and Damages Load	427			0	0	0	0	0	0	427		
918-San Juan AR-Labor	-9,313			0	0	0	0	0	0	-9,313		
921-Stores / Purchasing Load	8,132			0	0	0	0	0	0	8,132		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	30,861			0	0	0	0	0	0	30,861		
926-A and G Loads	28,343			0	0	0	0	0	0	28,343		
928-AFUDC Debt Reg	4,305			122	122	123	123	123	123	5,040		
929-AFUDC - Equity Regular	4,067			132	132	133	133	133	133	4,864		
937-San Juan AR - Other	-615,397			0	0	0	0	0	0	-615,397		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	650,581			253	254	256	0	0	0	651,345		
825-Clearings	-658,400			0	0	0	0	0	-54,708	-713,108		
Clr Sum	-658,400			0	0	0	0	0	-54,708	-713,108		
Proj Net	-7,818			253	254	256	0	0	-54,708	-61,763		

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

Cost Year 02

Project	76617916	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	11,619	0	0	0	0	0	0	0	0	0	0	0	0	11,619
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	12,639	0	0	0	0	0	0	0	0	0	0	0	0	12,639
	370-Outside Services	1,109,945	0	0	0	0	0	0	0	0	0	0	0	0	1,109,945
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	59,816	0	0	0	0	0	0	0	0	0	0	0	0	59,816
	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	-769	0	0	0	0	0	0	0	0	0	0	0	0	-769
	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	0	0	0	0	0	0	0	0	0	0	0	0	898
	914-Pension and Benefits Load	4,239	0	0	0	0	0	0	0	0	0	0	0	0	4,239
	915-Injuries and Damages Load	427	0	0	0	0	0	0	0	0	0	0	0	0	427
	918-San Juan AR-Labor	-9,313	0	0	0	0	0	0	0	0	0	0	0	0	-9,313
	921-Stores / Purchasing Load	8,132	0	0	0	0	0	0	0	0	0	0	0	0	8,132
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	30,861	0	0	0	0	0	0	0	0	0	0	0	0	30,861
	926-A and G Loads	28,343	0	0	0	0	0	0	0	0	0	0	0	0	28,343
	928-AFUDC Debt Reg	5,040	0	0	0	0	0	0	0	0	0	0	0	0	5,040
	929-AFUDC - Equity Regular	4,864	0	0	0	0	0	0	0	0	0	0	0	0	4,864
	937-San Juan AR - Other	-615,397	0	0	0	0	0	0	0	0	0	0	0	0	-615,397
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	651,345	0	0	0	0	0	0	0	0	0	0	0	0	651,345
	825-Clearings	-713,108	0	0	0	0	0	0	0	0	0	0	0	0	-713,108
	Clr Sum	-713,108	0	0	0	0	0	0	0	0	0	0	0	0	-713,108
	Proj Net	-61,763	0	0	0	0	0	0	0	0	0	0	0	0	-61,763

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

Cost Year 03

Project	76617916	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	11,619	0	0	0	0	0	0	0	0	0	0	0	0	11,619
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	12,639	0	0	0	0	0	0	0	0	0	0	0	0	12,639
	370-Outside Services	1,109,945	0	0	0	0	0	0	0	0	0	0	0	0	1,109,945
	374-Outside Svcs Legal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	377-Outside Services-Temp Labor	59,816	0	0	0	0	0	0	0	0	0	0	0	0	59,816
	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	-769	0	0	0	0	0	0	0	0	0	0	0	0	-769
	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	0	0	0	0	0	0	0	0	0	0	0	0	898
	914-Pension and Benefits Load	4,239	0	0	0	0	0	0	0	0	0	0	0	0	4,239
	915-Injuries and Damages Load	427	0	0	0	0	0	0	0	0	0	0	0	0	427
	918-San Juan AR-Labor	-9,313	0	0	0	0	0	0	0	0	0	0	0	0	-9,313
	921-Stores / Purchasing Load	8,132	0	0	0	0	0	0	0	0	0	0	0	0	8,132
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	30,861	0	0	0	0	0	0	0	0	0	0	0	0	30,861
	926-A and G Loads	28,343	0	0	0	0	0	0	0	0	0	0	0	0	28,343
	928-AFUDC Debt Reg	5,040	0	0	0	0	0	0	0	0	0	0	0	0	5,040
	929-AFUDC - Equity Regular	4,864	0	0	0	0	0	0	0	0	0	0	0	0	4,864
	937-San Juan AR - Other	-615,397	0	0	0	0	0	0	0	0	0	0	0	0	-615,397
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	651,345	0	0	0	0	0	0	0	0	0	0	0	0	651,345
	825-Clearings	-713,108	0	0	0	0	0	0	0	0	0	0	0	0	-713,108
	Clr Sum	-713,108	0	0	0	0	0	0	0	0	0	0	0	0	-713,108
	Proj Net	-61,763	0	0	0	0	0	0	0	0	0	0	0	0	-61,763

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Project No: 76617932 Common NERC CIP Change Management System - Carryover

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date 2/28/2016

List Interim In-Service Dates

N/A

Project Need Justification

As an owner and operator of a Bulk Electric System (BES), PNM is required to comply with applicable standards from NERC. Though control systems strive for reliability and consistency in their operations, changes in procedures, system upgrades, and product designs are unavoidable. The need for robust change control processes is well understood; however, the traditional approach of using paper-based, manual, and ad-hoc processes for change management is often error prone, unreliable, and ultimately unsustainable. An automated and collaborative change management solution that addresses the disparate nature of control systems is a key requirement for managing and controlling change for operational effectiveness Change Control Management (CCM) is crucial for San Juan Generating Station (SJGS) to maintain compliance and reliability of security. Hardware and software are being purchased to maintain this compliance task. The CCM provides a comprehensive solution for the SJGS control system asset base. Automated data collection delivers near real-time visibility providing operational environments with unparalleled visibility into changes that affect system performance, whether unintentional and harmless or potentially malicious. This involved but was not limited to technical tools to aide in this completion of tasks and approval workflow management. NERC CIP requires certain security controls in place, checks and balances are required to be in place to meet these requirements (see NERC CIP 003-3 R6, NERC CIP 007-3a, NERC CIP 007-3a). The cost of the project will include outside labor, software, hardware, and other associated materials required to monitor compliance and engineering logic changes in accordance with NERC CIP standards thus preventing compliance creep mentioned above.

Project Alternatives

Some alternatives in the method of compliance are available, but there are no alternatives to complying with the standard. This specific project was selected because it was deemed the best option available to PNM to comply with NERC standards. Alternative systems will be considered based on accordance with CIP 010-3 R1 and R2 requirements and existing manual processes for CIP 003-3 R6 and existing Engineering Design Change process. The traditional alternative of using paper-based, manual, and ad-hoc processes for change management is often error prone, unreliable, and ultimately unsustainable. Stand-alone applications or even manual paper-based systems (or spreadsheets on the computer) have been used to manage various compliance and governance processes at the departmental level. However, as these compliance initiatives become more intertwined with an organization's business requirements, multiple and disparate systems lead to duplicative and tedious manual processes for documentation. This causes significant inefficiency and escalates the risk of non-compliance.

Technical Aspects

Project work will involve the purchase, installation, and configuration of software which meets compliance with NERC change management standards. Change Control Management (CCM) automatically notifies users of changes to assets allowing more focus on system reliability and availability. Change management is a powerful tool for monitoring system configuration settings from Site Acceptance Test (SAT) through Factory Acceptance Test (FAT), through continuous improvement in the organization. Criteria for the selection of software will be made in accordance with CIP 010-3 R1 and R2 requirements and existing manual processes for CIP 003-3 R6 and existing Engineering Design Change process. This will include but is not limited to controls to monitor and verify approval for the following controls: Operating systems, or firmware where no independent operating system exists, Software installations, Logical network listening ports, Individual User and system/service accounts, Logic changes on critical components that may change the compliance status of SJGS, and Network architecture changes.

Project Estimate Approach

N/A

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

Cost Year 01

Project	76617932	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
110-Straight Time-General	730			0	0	0	0	0	0	730
120-Overtime-General	0			0	0	0	0	0	0	0
350-Material Issues-Major	142,297			0	0	0	0	0	0	142,297
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	57			0	0	0	0	0	0	57
914-Pension and Benefits Load	255			0	0	0	0	0	0	255
915-Injuries and Damages Load	41			0	0	0	0	0	0	41
918-San Juan AR-Labor	-640			0	0	0	0	0	0	-640
921-Stores / Purchasing Load	981			0	0	0	0	0	0	981
922-Minor Material Load	0			0	0	0	0	0	0	0
925-E and S Loads	41			0	0	0	0	0	0	41
926-A and G Loads	3,511			0	0	0	0	0	0	3,511
928-AFUDC Debt Reg	4,194			0	0	0	0	0	0	4,194
929-AFUDC - Equity Regular	5,586			0	0	0	0	0	0	5,586
937-San Juan AR - Other	-81,091			0	0	0	0	0	0	-81,091
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0
Cost Sum	75,961			0	0	0	0	0	0	75,961
825-Clearings	-80,280			0	0	0	0	0	-63	-80,342
Clr Sum	-80,280			0	0	0	0	0	-63	-80,342
Proj Net	-4,318			0	0	0	0	0	-63	-4,381

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

Cost Year 02

Project	76617932	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	730	0	0	0	0	0	0	0	0	0	0	0	0	730
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	142,297	0	0	0	0	0	0	0	0	0	0	0	0	142,297
	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	57	0	0	0	0	0	0	0	0	0	0	0	0	57
	914-Pension and Benefits Load	255	0	0	0	0	0	0	0	0	0	0	0	0	255
	915-Injuries and Damages Load	41	0	0	0	0	0	0	0	0	0	0	0	0	41
	918-San Juan AR-Labor	-640	0	0	0	0	0	0	0	0	0	0	0	0	-640
	921-Stores / Purchasing Load	981	0	0	0	0	0	0	0	0	0	0	0	0	981
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	41	0	0	0	0	0	0	0	0	0	0	0	0	41
	926-A and G Loads	3,511	0	0	0	0	0	0	0	0	0	0	0	0	3,511
	928-AFUDC Debt Reg	4,194	0	0	0	0	0	0	0	0	0	0	0	0	4,194
	929-AFUDC - Equity Regular	5,586	0	0	0	0	0	0	0	0	0	0	0	0	5,586
	937-San Juan AR - Other	-81,091	0	0	0	0	0	0	0	0	0	0	0	0	-81,091
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	75,961	0	0	0	0	0	0	0	0	0	0	0	0	75,961
	825-Clearings	-80,342	0	0	0	0	0	0	0	0	0	0	0	0	-80,342
	Clr Sum	-80,342	0	0	0	0	0	0	0	0	0	0	0	0	-80,342
	Proj Net	-4,381	0	0	0	0	0	0	0	0	0	0	0	0	-4,381

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

Cost Year 03

Project	76617932	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	730	0	0	0	0	0	0	0	0	0	0	0	0	730
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	142,297	0	0	0	0	0	0	0	0	0	0	0	0	142,297
	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	57	0	0	0	0	0	0	0	0	0	0	0	0	57
	914-Pension and Benefits Load	255	0	0	0	0	0	0	0	0	0	0	0	0	255
	915-Injuries and Damages Load	41	0	0	0	0	0	0	0	0	0	0	0	0	41
	918-San Juan AR-Labor	-640	0	0	0	0	0	0	0	0	0	0	0	0	-640
	921-Stores / Purchasing Load	981	0	0	0	0	0	0	0	0	0	0	0	0	981
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	41	0	0	0	0	0	0	0	0	0	0	0	0	41
	926-A and G Loads	3,511	0	0	0	0	0	0	0	0	0	0	0	0	3,511
	928-AFUDC Debt Reg	4,194	0	0	0	0	0	0	0	0	0	0	0	0	4,194
	929-AFUDC - Equity Regular	5,586	0	0	0	0	0	0	0	0	0	0	0	0	5,586
	937-San Juan AR - Other	-81,091	0	0	0	0	0	0	0	0	0	0	0	0	-81,091
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	75,961	0	0	0	0	0	0	0	0	0	0	0	0	75,961
	825-Clearings	-80,342	0	0	0	0	0	0	0	0	0	0	0	0	-80,342
	Clr Sum	-80,342	0	0	0	0	0	0	0	0	0	0	0	0	-80,342
	Proj Net	-4,381	0	0	0	0	0	0	0	0	0	0	0	0	-4,381

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Project No: 76628023 Common Server - System Life Cycle - 2018

Company: 003-Bulk Power
Location: 766 San Juan

Project Information

<u>Construction Start Date</u>	1/15/2018	<u>Estimated Completion Date</u>	9/30/2018
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

This project involves replacing selected servers that have reached the end of their life. This project is necessary to ensure that PNM is using reliable equipment in its business operations.

Project Alternatives

Alternatives to purchasing new servers are based on the availability of support for the existing system and the ability to install patches as needed for the protection of IT assets. If these alternatives solutions are not possible, the servers are replaced.

Technical Aspects

Direct replacement with newer revisions.

Project Estimate Approach

Estimate is based on past and recent server purchase costs.

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

Cost Year 01

Project	76628023	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16									
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	76628023	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	76628023	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	9,700	0	28,500	28,500	19,100	19,000	9,300	0	0	0	0	114,100	
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	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	13	29	70	146	191	246	272	0	0	0	0	967	
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	104	0	305	305	204	203	100	0	0	0	0	1,221	
926-A and G Loads	0	0	230	0	675	675	453	450	220	0	0	0	0	2,704	
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	-3,377	0	-9,922	-9,922	-6,649	-6,615	-3,238	0	0	0	0	-39,723	
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	6,670	29	19,628	19,705	13,298	13,285	6,654	0	0	0	0	79,269	
825-Clearings	0	0	0	0	0	0	0	0	-79,269	0	0	0	0	-79,269	
Clr Sum	0	0	0	0	0	0	0	0	-79,269	0	0	0	0	-79,269	
Proj Net	0	0	6,670	29	19,628	19,705	13,298	13,285	-72,615	0	0	0	0	0	

Project No: 76717514 Units 3&4 Demineralizer Controls Replacement

Company: 003-Bulk Power
Location: 767 San Juan

Project Information

Construction Start Date

Estimated Completion Date 10/31/2015

List Interim In-Service Dates

Project Need Justification

This project is part of a group of projects that addresses obsolescence issues in various local control systems. The original controls are mainly local panels with mechanical and electromechanical devices. They are being replaced with Programmable Logic Controllers (PLCs) which can be connected to the Distributed Control System (DCS). This will enable monitoring and operation from the control room as well as locally. As with all microprocessor based systems, upgrades are required periodically, including replacement of Input/Output (I/O) circuit boards and Control Processors (CPs).

Project Alternatives

The alternative is to continue to maintain the existing equipment but this will become increasingly costly and difficult as replacement parts become harder to find.

Technical Aspects

Replace existing obsolete controls with state of the art electronic devices (e.g., circuit boards, wiring, processors, graphical interfaces and control logic programming)

Project Estimate Approach

N/A

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

Cost Year 01

Project	76717514	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	61			0	0	0	0	0	0	61		
120-Overtime-General	0			0	0	0	0	0	0	0		
350-Material Issues-Major	2,967			0	0	0	0	0	0	2,967		
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	5			0	0	0	0	0	0	5		
914-Pension and Benefits Load	20			0	0	0	0	0	0	20		
915-Injuries and Damages Load	2			0	0	0	0	0	0	2		
918-San Juan AR-Labor	-54			0	0	0	0	0	0	-54		
921-Stores / Purchasing Load	18			0	0	0	0	0	0	18		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	39			0	0	0	0	0	0	39		
926-A and G Loads	72			0	0	0	0	0	0	72		
928-AFUDC Debt Reg	69			0	0	0	0	0	0	69		
929-AFUDC - Equity Regular	97			0	0	0	0	0	0	97		
937-San Juan AR - Other	-1,730			0	0	0	0	0	0	-1,730		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	1,565			0	0	0	0	0	0	1,565		
825-Clearings	0			0	0	0	0	0	-1,574	-1,574		
Clr Sum	0			0	0	0	0	0	-1,574	-1,574		
Proj Net	1,565			0	0	0	0	0	-1,574	-9		

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

Cost Year 02

Project	76717514	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	61	0	0	0	0	0	0	0	0	0	0	0	0	61
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	2,967	0	0	0	0	0	0	0	0	0	0	0	0	2,967
	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	5	0	0	0	0	0	0	0	0	0	0	0	0	5
	914-Pension and Benefits Load	20	0	0	0	0	0	0	0	0	0	0	0	0	20
	915-Injuries and Damages Load	2	0	0	0	0	0	0	0	0	0	0	0	0	2
	918-San Juan AR-Labor	-54	0	0	0	0	0	0	0	0	0	0	0	0	-54
	921-Stores / Purchasing Load	18	0	0	0	0	0	0	0	0	0	0	0	0	18
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	39	0	0	0	0	0	0	0	0	0	0	0	0	39
	926-A and G Loads	72	0	0	0	0	0	0	0	0	0	0	0	0	72
	928-AFUDC Debt Reg	69	0	0	0	0	0	0	0	0	0	0	0	0	69
	929-AFUDC - Equity Regular	97	0	0	0	0	0	0	0	0	0	0	0	0	97
	937-San Juan AR - Other	-1,730	0	0	0	0	0	0	0	0	0	0	0	0	-1,730
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	1,565	0	0	0	0	0	0	0	0	0	0	0	0	1,565
	825-Clearings	-1,574	0	0	0	0	0	0	0	0	0	0	0	0	-1,574
	Clr Sum	-1,574	0	0	0	0	0	0	0	0	0	0	0	0	-1,574
Proj Net		-9	0	0	0	0	0	0	0	0	0	0	0	0	-9

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

Cost Year 03

Project	76717514	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	61	0	0	0	0	0	0	0	0	0	0	0	0	61
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	2,967	0	0	0	0	0	0	0	0	0	0	0	0	2,967
	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	5	0	0	0	0	0	0	0	0	0	0	0	0	5
	914-Pension and Benefits Load	20	0	0	0	0	0	0	0	0	0	0	0	0	20
	915-Injuries and Damages Load	2	0	0	0	0	0	0	0	0	0	0	0	0	2
	918-San Juan AR-Labor	-54	0	0	0	0	0	0	0	0	0	0	0	0	-54
	921-Stores / Purchasing Load	18	0	0	0	0	0	0	0	0	0	0	0	0	18
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	39	0	0	0	0	0	0	0	0	0	0	0	0	39
	926-A and G Loads	72	0	0	0	0	0	0	0	0	0	0	0	0	72
	928-AFUDC Debt Reg	69	0	0	0	0	0	0	0	0	0	0	0	0	69
	929-AFUDC - Equity Regular	97	0	0	0	0	0	0	0	0	0	0	0	0	97
	937-San Juan AR - Other	-1,730	0	0	0	0	0	0	0	0	0	0	0	0	-1,730
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	1,565	0	0	0	0	0	0	0	0	0	0	0	0	1,565
	825-Clearings	-1,574	0	0	0	0	0	0	0	0	0	0	0	0	-1,574
	Clr Sum	-1,574	0	0	0	0	0	0	0	0	0	0	0	0	-1,574
	Proj Net	-9	0	0	0	0	0	0	0	0	0	0	0	0	-9

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Project No: 77916317 Switchyard Transformer T3 Bushings - Carryover - 2017

Company: 003-Bulk Power
Location: 779 San Juan

Project Information

Construction Start Date 10/1/2016 Estimated Completion Date 7/31/2017

List Interim In-Service Dates

0

Project Need Justification

The bushings at this location are a "U" type and have been prone to failure in the industry. The electrical engineering staff recommends preemptive replacement based on the design's known flaw. The risk of failure and collateral damage are too high and would lead to a significant loss in generation.

Project Alternatives

The alternative is to not replace, and face this risk of collateral damage.

Technical Aspects

The bushing would be replaced with a more reliable and compatible unit that meets necessary design criteria. This work will not require a unit outage and will be completed in 2017.

Project Estimate Approach

Cost estimates are based on similar bushing purchases and installations made recently.

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

Cost Year 01

Project	77916317	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	77916317	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	35,000	32,000	0	0	0	0	0	67,000
	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	375	342	0	0	0	0	0	717
	926-A and G Loads	0	0	0	0	0	0	830	758	0	0	0	0	0	1,588
	928-AFUDC Debt Reg	0	0	0	0	0	0	24	69	0	0	0	0	0	92
	929-AFUDC - Equity Regular	0	0	0	0	0	0	31	90	0	0	0	0	0	121
	937-San Juan AR - Other	0	0	0	0	0	0	-18,102	-16,550	0	0	0	0	0	-34,652
	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	18,157	16,710	0	0	0	0	0	34,866
	825-Clearings	0	0	0	0	0	0	0	-34,866	0	0	0	0	0	-34,866
	Clr Sum	0	0	0	0	0	0	0	-34,866	0	0	0	0	0	-34,866
Proj Net		0	0	0	0	0	0	18,157	-18,157	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	77916317	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	67,000	0	0	0	0	0	0	0	0	0	0	0	0	67,000
	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	717	0	0	0	0	0	0	0	0	0	0	0	0	717
	926-A and G Loads	1,588	0	0	0	0	0	0	0	0	0	0	0	0	1,588
	928-AFUDC Debt Reg	92	0	0	0	0	0	0	0	0	0	0	0	0	92
	929-AFUDC - Equity Regular	121	0	0	0	0	0	0	0	0	0	0	0	0	121
	937-San Juan AR - Other	-34,652	0	0	0	0	0	0	0	0	0	0	0	0	-34,652
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	34,866	0	0	0	0	0	0	0	0	0	0	0	0	34,866
	825-Clearings	-34,866	0	0	0	0	0	0	0	0	0	0	0	0	-34,866
	Clr Sum	-34,866	0	0	0	0	0	0	0	0	0	0	0	0	-34,866
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 77916532 Switchyard Foundations and Structures - 2012

Company: 003-Bulk Power
Location: 779 San Juan

Project Information

<u>Construction Start Date</u>	1/2/2012	<u>Estimated Completion Date</u>	12/1/2016
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

The power plant switchyard is in the electrical area where the plant connects and sends power onto the main electrical grid. During plant outages, the plant must also receive electrical power from the grid while the units are out of service. Recent work in the yard on the grounding grid revealed that there are locations with poor drainage, leading to standing pools of water after rain. This has lead to deterioration of the electrical grounding grid that could impact safety and equipment reliability. Also, the electrical bus system has concrete foundations that need to be repaired or replaced. The purpose of this project is to re-configuring drainage, working surface, and a section of grounding grid to eliminate long term corrosion issues.

Project Alternatives

There are no alternatives for this project. The switchyard's equipment must be maintained if the plant is to continue effective operation and to ensure worker safety.

Technical Aspects

Work scope includes re-configuring drainage, working surface, and section of grounding grid to eliminate long term corrosion issues.

Project Estimate Approach

Estimate is based on other recent repair projects in the yard that are similar in nature.

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

Cost Year 01

Project	77916532	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16									
110-Straight Time-General		5,721			0	0	0	0	0	0	5,721
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		31,222			0	0	0	0	0	0	31,222
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		483			0	0	0	0	0	0	483
914-Pension and Benefits Load		2,261			0	0	0	0	0	0	2,261
915-Injuries and Damages Load		186			0	0	0	0	0	0	186
918-San Juan AR-Labor		-4,748			0	0	0	0	0	0	-4,748
921-Stores / Purchasing Load		209			0	0	0	0	0	0	209
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		932			0	0	0	0	0	0	932
928-AFUDC Debt Reg		616			0	0	0	0	0	0	616
929-AFUDC - Equity Regular		730			0	0	0	0	0	0	730
937-San Juan AR - Other		-16,392			0	0	0	0	0	0	-16,392
961-Luna A&G PNMR D&V		0			0	0	0	0	0	0	0
Cost Sum		21,221			0	0	0	0	0	0	21,221
825-Clearings		0			0	0	0	0	0	-22,486	-22,486
Clr Sum		0			0	0	0	0	0	-22,486	-22,486
Proj Net		21,221			0	0	0	0	0	-22,486	-1,265

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

Cost Year 02

Project	77916532	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	5,721	0	0	0	0	0	0	0	0	0	0	0	0	5,721
	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	31,222	0	0	0	0	0	0	0	0	0	0	0	0	31,222
	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	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	483	0	0	0	0	0	0	0	0	0	0	0	0	483
	914-Pension and Benefits Load	2,261	0	0	0	0	0	0	0	0	0	0	0	0	2,261
	915-Injuries and Damages Load	186	0	0	0	0	0	0	0	0	0	0	0	0	186
	918-San Juan AR-Labor	-4,748	0	0	0	0	0	0	0	0	0	0	0	0	-4,748
	921-Stores / Purchasing Load	209	0	0	0	0	0	0	0	0	0	0	0	0	209
	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	932	0	0	0	0	0	0	0	0	0	0	0	0	932
	928-AFUDC Debt Reg	616	0	0	0	0	0	0	0	0	0	0	0	0	616
	929-AFUDC - Equity Regular	730	0	0	0	0	0	0	0	0	0	0	0	0	730
	937-San Juan AR - Other	-16,392	0	0	0	0	0	0	0	0	0	0	0	0	-16,392
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	21,221	0	0	0	0	0	0	0	0	0	0	0	0	21,221
	825-Clearings	-22,486	0	0	0	0	0	0	0	0	0	0	0	0	-22,486
	Clr Sum	-22,486	0	0	0	0	0	0	0	0	0	0	0	0	-22,486
	Proj Net	-1,265	0	0	0	0	0	0	0	0	0	0	0	0	-1,265

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

Cost Year 03

Project	77916532	Year	2018												
Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
110-Straight Time-General	5,721	0	0	0	0	0	0	0	0	0	0	0	0	5,721	
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	31,222	0	0	0	0	0	0	0	0	0	0	0	0	31,222	
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	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	483	0	0	0	0	0	0	0	0	0	0	0	0	483	
914-Pension and Benefits Load	2,261	0	0	0	0	0	0	0	0	0	0	0	0	2,261	
915-Injuries and Damages Load	186	0	0	0	0	0	0	0	0	0	0	0	0	186	
918-San Juan AR-Labor	-4,748	0	0	0	0	0	0	0	0	0	0	0	0	-4,748	
921-Stores / Purchasing Load	209	0	0	0	0	0	0	0	0	0	0	0	0	209	
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	932	0	0	0	0	0	0	0	0	0	0	0	0	932	
928-AFUDC Debt Reg	616	0	0	0	0	0	0	0	0	0	0	0	0	616	
929-AFUDC - Equity Regular	730	0	0	0	0	0	0	0	0	0	0	0	0	730	
937-San Juan AR - Other	-16,392	0	0	0	0	0	0	0	0	0	0	0	0	-16,392	
961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Sum	21,221	0	0	0	0	0	0	0	0	0	0	0	0	21,221	
825-Clearings	-22,486	0	0	0	0	0	0	0	0	0	0	0	0	-22,486	
Clr Sum	-22,486	0	0	0	0	0	0	0	0	0	0	0	0	-22,486	
Proj Net	-1,265	0	0	0	0	0	0	0	0	0	0	0	0	-1,265	

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Project No: 77928015 Switchyard Substation Remote Access

Company: 003-Bulk Power
Location: 779 San Juan

Project Information

Construction Start Date 10/1/2015 Estimated Completion Date 2/28/2017

List Interim In-Service Dates

0

Project Need Justification

The North American Electric Reliability Corporation (NERC) has placed many new requirements for how an electric utility manages access to its sites. For PNM, one of those sites is the switchyard at the San Juan Power Station. The San Juan switchyard has been identified as a medium bulk electric system (BES) substation and is therefore subject to the new NERC Critical Infrastructure Plan (CIP) version 5 compliance rules. This project will upgrade the switchyard to comply with the requirements for Electronic Security Perimeters (CIP-005), Physical Security and Critical Cyber Assets (CIP-006), and Systems Security Management (CIP-007).

Project Alternatives

There are no alternatives as these upgrades are required by NERC.

Technical Aspects

NERC CIP has identified multiple regulations for access to many electric system areas. Those areas that have been identified as medium or high have additional requirement to protect them from unapproved access.

Project Estimate Approach

Estimate is based on like costs from installation at other substations.

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

Cost Year 01

Project	77928015	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	8,105			0	0	0	0	0	0	8,105		
120-Overtime-General	2,703			0	0	0	0	0	0	2,703		
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	1,380			0	0	0	0	0	0	1,380		
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	7	7	7	20		
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	809			0	0	0	0	0	0	809		
914-Pension and Benefits Load	2,882			0	0	0	0	0	0	2,882		
915-Injuries and Damages Load	522			0	0	0	0	0	0	522		
918-San Juan AR-Labor	-8,114			0	0	0	0	0	0	-8,114		
921-Stores / Purchasing Load	11			0	0	0	0	0	0	11		
922-Minor Material Load	0			0	0	0	0	0	0	0		
925-E and S Loads	3,423			0	0	0	0	0	0	3,423		
926-A and G Loads	2,565			0	0	0	0	0	0	2,565		
928-AFUDC Debt Reg	376			-3	-3	-3	-3	-3	-3	357		
929-AFUDC - Equity Regular	455			-3	-3	-3	-3	-3	-3	435		
937-San Juan AR - Other	-51,889			0	0	0	0	0	0	-51,889		
961-Luna A&G PNMR D&V	0			0	0	0	0	0	0	0		
Cost Sum	-36,772			-6	-6	-6	0	0	0	-36,791		
825-Clearings	-62,203			0	0	0	0	0	1,388	-60,815		
Clr Sum	-62,203			0	0	0	0	0	1,388	-60,815		
Proj Net	-98,974			-6	-6	-6	0	0	1,388	-97,605		

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

Cost Year 02

Project	77928015	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	8,105	0	0	0	0	0	0	0	0	0	0	0	0	8,105
	120-Overtime-General	2,703	0	0	0	0	0	0	0	0	0	0	0	0	2,703
	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	1,380	0	0	0	0	0	0	0	0	0	0	0	0	1,380
	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	20	8	8	0	0	0	0	0	0	0	0	0	0	36
	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	809	0	0	0	0	0	0	0	0	0	0	0	0	809
	914-Pension and Benefits Load	2,882	0	0	0	0	0	0	0	0	0	0	0	0	2,882
	915-Injuries and Damages Load	522	0	0	0	0	0	0	0	0	0	0	0	0	522
	918-San Juan AR-Labor	-8,114	0	0	0	0	0	0	0	0	0	0	0	0	-8,114
	921-Stores / Purchasing Load	11	0	0	0	0	0	0	0	0	0	0	0	0	11
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	3,423	0	0	0	0	0	0	0	0	0	0	0	0	3,423
	926-A and G Loads	2,565	0	0	0	0	0	0	0	0	0	0	0	0	2,565
	928-AFUDC Debt Reg	357	0	0	0	0	0	0	0	0	0	0	0	0	357
	929-AFUDC - Equity Regular	435	0	0	0	0	0	0	0	0	0	0	0	0	435
	937-San Juan AR - Other	-51,889	0	0	0	0	0	0	0	0	0	0	0	0	-51,889
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	-36,791	8	8	0	0	0	0	0	0	0	0	0	0	-36,774
	825-Clearings	-60,815	0	0	0	0	0	0	0	0	0	0	0	0	-60,815
	Clr Sum	-60,815	0	0	0	0	0	0	0	0	0	0	0	0	-60,815
	Proj Net	-97,605	8	8	0	0	0	0	0	0	0	0	0	0	-97,589

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

Cost Year 03

Project	77928015	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	8,105	0	0	0	0	0	0	0	0	0	0	0	0	8,105
	120-Overtime-General	2,703	0	0	0	0	0	0	0	0	0	0	0	0	2,703
	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	1,380	0	0	0	0	0	0	0	0	0	0	0	0	1,380
	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	36	0	0	0	0	0	0	0	0	0	0	0	0	36
	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	809	0	0	0	0	0	0	0	0	0	0	0	0	809
	914-Pension and Benefits Load	2,882	0	0	0	0	0	0	0	0	0	0	0	0	2,882
	915-Injuries and Damages Load	522	0	0	0	0	0	0	0	0	0	0	0	0	522
	918-San Juan AR-Labor	-8,114	0	0	0	0	0	0	0	0	0	0	0	0	-8,114
	921-Stores / Purchasing Load	11	0	0	0	0	0	0	0	0	0	0	0	0	11
	922-Minor Material Load	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	925-E and S Loads	3,423	0	0	0	0	0	0	0	0	0	0	0	0	3,423
	926-A and G Loads	2,565	0	0	0	0	0	0	0	0	0	0	0	0	2,565
	928-AFUDC Debt Reg	357	0	0	0	0	0	0	0	0	0	0	0	0	357
	929-AFUDC - Equity Regular	435	0	0	0	0	0	0	0	0	0	0	0	0	435
	937-San Juan AR - Other	-51,889	0	0	0	0	0	0	0	0	0	0	0	0	-51,889
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	-36,774	0	0	0	0	0	0	0	0	0	0	0	0	-36,774
	825-Clearings	-60,815	0	0	0	0	0	0	0	0	0	0	0	0	-60,815
	Clr Sum	-60,815	0	0	0	0	0	0	0	0	0	0	0	0	-60,815
	Proj Net	-97,589	0	0	0	0	0	0	0	0	0	0	0	0	-97,589

Solar

Project No: 75518015 Utility Scale Solar 40 MW

Company: 003-Bulk Power
Location: 755 Solar

Project Information

<u>Construction Start Date</u>	1/1/2015	<u>Estimated Completion Date</u>	6/30/2016
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

This new solar construction project was approved by the NMPRC in November 2014. PNM needs to add renewable resources to meet its required Renewable Portfolio Standards (RPS). The Renewable Energy Credits (RECs) from these facilities are required to meet the projected RPS quantity requirements. Additionally, the added 40MW of solar capacity adds systems benefits by lowering system fuel costs and system fuel cost volatility. The 40MW will be spread across 4 solar sites that will be disbursed in PNM’s service territory and Path 48 area for system performance and diversity (serving PNM metro service area, generally from Belen to Santa Fe). The approved funds will be used to purchase the constructed solar facilities from two selected suppliers (all labor and materials will be the responsibility of the suppliers)..

Project Alternatives

PNM issued an RFP for renewable energy resources or Renewable Energy Credits (RECs) to meet its 2016 RPS requirements. Various options for complying with the RPS were identified from the bids received, including solar, wind, biomass, and Renewable Energy Credit-only alternatives. The Company’s analysis and financial models indicated this 40 MW solar project was the best option for meeting required portfolio requirements. The 40MW facility will be the least cost solar resource on PNM’s system in terms of \$/kW and \$/MWh levelized cost.

Technical Aspects

The 40MW, single axis solar trackers will be split between 4 sites in PNM’s distribution territory with a targeted size of 10MW for each site. The trackers will connect directly to PNM distribution lines to avoid timely and costly interconnection to high-voltage transmission lines. The relatively small size and localized nature of the installations make it unnecessary to incur costs for the construction of back-up generation facilities (as is typically required for large solar installations). The selected solar modules are polycrystalline as opposed to thin-film technology based on their lower costs as reflected in the suppliers’ bids. PNM also has experience with polycrystalline modules at its Prosperity site.

Project Estimate Approach

The estimate for this project was developed through an RFP process employed by PNM to meet its 2016 RPS requirement. The request specified that bids may include bundled energy (energy purchases and RECs), stand-alone RECs, and for both Purchase Power Agreements and turnkey projects in which the contractor would construct the project and PNM would acquire ownership. A two-phased process was employed to evaluate the 45 bids that were received for solar energy, wind energy, and "other" energy. PNM determined that a solar turnkey project would be most cost effective in Phase I and then worked with two supplier teams to finalize the project estimates (each constructing 20MW of capacity) that will result in the least cost solar resource on PNM's system. All labor and materials costs will be the responsibility of the suppliers.

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

Cost Year 01

Project	75518015	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16									
110-Straight Time-General	165,939			0	0	0	0	0	0	165,939
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	35,210,380			0	0	0	0	0	0	35,210,380
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	19,746			0	0	0	0	0	0	19,746
610-Expenses - General	38,984,405			0	0	0	0	0	0	38,984,405
805-Land and Land Rights	2,389,983			0	0	0	0	0	0	2,389,983
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	12,958			0	0	0	0	0	0	12,958
914-Pension and Benefits Load	56,468			0	0	0	0	0	0	56,468
915-Injuries and Damages Load	9,865			0	0	0	0	0	0	9,865
918-San Juan AR-Labor	0			0	0	0	0	0	0	0
921-Stores / Purchasing Load	221,017			0	0	0	0	0	0	221,017
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	713,722			0	0	0	0	0	0	713,722
929-AFUDC - Equity Regular	894,182			0	0	0	0	0	0	894,182
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	78,678,665			0	0	0	0	0	0	78,678,665
825-Clearings	-78,818,469			0	0	0	0	0	-7,383	-78,825,852
Clr Sum	-78,818,469			0	0	0	0	0	-7,383	-78,825,852
Proj Net	-139,805			0	0	0	0	0	-7,383	-147,188

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

Cost Year 02

Project	75518015	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	165,939	0	0	0	0	0	0	0	0	0	0	0	0	165,939
	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	35,210,380	0	0	0	0	0	0	0	0	0	0	0	0	35,210,380
	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	19,746	0	0	0	0	0	0	0	0	0	0	0	0	19,746
	610-Expenses - General	38,984,405	0	0	0	0	0	0	0	0	0	0	0	0	38,984,405
	805-Land and Land Rights	2,389,983	0	0	0	0	0	0	0	0	0	0	0	0	2,389,983
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		12,958	0	0	0	0	0	0	0	0	0	0	0	0	12,958
914-Pension and Benefits Load		56,468	0	0	0	0	0	0	0	0	0	0	0	0	56,468
915-Injuries and Damages Load		9,865	0	0	0	0	0	0	0	0	0	0	0	0	9,865
918-San Juan AR-Labor		0	0	0	0	0	0	0	0	0	0	0	0	0	0
921-Stores / Purchasing Load		221,017	0	0	0	0	0	0	0	0	0	0	0	0	221,017
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		713,722	0	0	0	0	0	0	0	0	0	0	0	0	713,722
929-AFUDC - Equity Regular		894,182	0	0	0	0	0	0	0	0	0	0	0	0	894,182
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	78,678,665	0	0	0	0	0	0	0	0	0	0	0	0	78,678,665
	825-Clearings	-78,825,852	0	0	0	0	0	0	0	0	0	0	0	0	-78,825,852
	Clr Sum	-78,825,852	0	0	0	0	0	0	0	0	0	0	0	0	-78,825,852
Proj Net		-147,188	0	0	0	0	0	0	0	0	0	0	0	0	-147,188

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

Cost Year 03

Project	75518015	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	165,939	0	0	0	0	0	0	0	0	0	0	0	0	165,939
	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	35,210,380	0	0	0	0	0	0	0	0	0	0	0	0	35,210,380
	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	19,746	0	0	0	0	0	0	0	0	0	0	0	0	19,746
	610-Expenses - General	38,984,405	0	0	0	0	0	0	0	0	0	0	0	0	38,984,405
	805-Land and Land Rights	2,389,983	0	0	0	0	0	0	0	0	0	0	0	0	2,389,983
	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	12,958	0	0	0	0	0	0	0	0	0	0	0	0	12,958
	914-Pension and Benefits Load	56,468	0	0	0	0	0	0	0	0	0	0	0	0	56,468
	915-Injuries and Damages Load	9,865	0	0	0	0	0	0	0	0	0	0	0	0	9,865
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	221,017	0	0	0	0	0	0	0	0	0	0	0	0	221,017
	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	713,722	0	0	0	0	0	0	0	0	0	0	0	0	713,722
	929-AFUDC - Equity Regular	894,182	0	0	0	0	0	0	0	0	0	0	0	0	894,182
	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	78,678,665	0	0	0	0	0	0	0	0	0	0	0	0	78,678,665
	825-Clearings	-78,825,852	0	0	0	0	0	0	0	0	0	0	0	0	-78,825,852
	Clr Sum	-78,825,852	0	0	0	0	0	0	0	0	0	0	0	0	-78,825,852
	Proj Net	-147,188	0	0	0	0	0	0	0	0	0	0	0	0	-147,188

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Rio Bravo/La Luz/Production

Project No: 04616016 Rio Bravo NERC CIP Upgrades V01

Company: 003-Bulk Power
Location: 046 Rio Bravo

Project Information

Construction Start Date 7/15/2016 Estimated Completion Date 9/30/2016

List Interim In-Service Dates

Not applicable

Project Need Justification

There are 4 external control interfaces that leave the Rio Bravo plant. These interfaces include two connections to Reeves, one connection to the Power Operations Inter-Control Center Communications Protocol (ICCP), and one ICCP connection to the Power Operations backup center. Because of these control system interfaces, the Rio Bravo Generating Station requires installation of additional firewalls, software and new hardware to comply with North American Electric Reliability Corporation (NERC) Critical Infrastructure Protection (CIP). Additional firewalls will improve control system protection by establishing a more secure connection to onsite and offsite ICCP client and server connections. Since Rio Bravo is a remote station a gate and area cameras will also be installed. The scope of the project includes engineering, purchase and configuration of required firewalls. In addition, new hardware, software will be required to interface to the control system at the station. PNM will perform all engineering, purchase all equipment, configure the firewalls and perform all project management. An outside contractor will configure the existing control system to interface to the new firewalls.

Project Alternatives

There are no other viable options. NERC requires that all generating facilities improve cyber security measures for the plant control systems and for onsite monitoring.

Technical Aspects

The NERC CIP upgrade consists of redesigning connections to the plant’s control network and the ICCP network. In addition, new firewalls will be put in place to establish more secure remote access to the plant’s control network and ICCP network.

Project Estimate Approach

Once the system design is completed, PNM will put the project out for review and bid. The contractor build and bottle rack system while PNM will track project costs and schedule.

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

Cost Year 01

Project	04616016	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16								
110-Straight Time-General		0		0	0	7,400	0	0	0	7,400
120-Overtime-General		0		0	0	0	0	0	0	0
350-Material Issues-Major		0		0	0	26,750	0	0	0	26,750
370-Outside Services		0		0	0	29,015	0	0	0	29,015
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	498	0	0	0	498
914-Pension and Benefits Load		0		0	0	2,350	0	0	0	2,350
915-Injuries and Damages Load		0		0	0	237	0	0	0	237
918-San Juan AR-Labor		0		0	0	0	0	0	0	0
921-Stores / Purchasing Load		0		0	0	1,905	0	0	0	1,905
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	5,255	0	0	0	5,255
928-AFUDC Debt Reg		0		0	0	83	0	0	0	83
929-AFUDC - Equity Regular		0		0	0	90	0	0	0	90
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	73,582	0	0	0	73,582
825-Clearings		0		0	0	-73,582	0	0	0	-73,582
Clr Sum		0		0	0	-73,582	0	0	0	-73,582
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	04616016	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	7,400	0	0	0	0	0	0	0	0	0	0	0	0	7,400
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	26,750	0	0	0	0	0	0	0	0	0	0	0	0	26,750
	370-Outside Services	29,015	0	0	0	0	0	0	0	0	0	0	0	0	29,015
	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	498	0	0	0	0	0	0	0	0	0	0	0	0	498
	914-Pension and Benefits Load	2,350	0	0	0	0	0	0	0	0	0	0	0	0	2,350
	915-Injuries and Damages Load	237	0	0	0	0	0	0	0	0	0	0	0	0	237
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	1,905	0	0	0	0	0	0	0	0	0	0	0	0	1,905
	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	5,255	0	0	0	0	0	0	0	0	0	0	0	0	5,255
	928-AFUDC Debt Reg	83	0	0	0	0	0	0	0	0	0	0	0	0	83
	929-AFUDC - Equity Regular	90	0	0	0	0	0	0	0	0	0	0	0	0	90
	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	73,582	0	0	0	0	0	0	0	0	0	0	0	0	73,582
	825-Clearings	-73,582	0	0	0	0	0	0	0	0	0	0	0	0	-73,582
	Clr Sum	-73,582	0	0	0	0	0	0	0	0	0	0	0	0	-73,582
															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	04616016	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	7,400	0	0	0	0	0	0	0	0	0	0	0	0	7,400
	120-Overtime-General	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	350-Material Issues-Major	26,750	0	0	0	0	0	0	0	0	0	0	0	0	26,750
	370-Outside Services	29,015	0	0	0	0	0	0	0	0	0	0	0	0	29,015
	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	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	498	0	0	0	0	0	0	0	0	0	0	0	0	498
	914-Pension and Benefits Load	2,350	0	0	0	0	0	0	0	0	0	0	0	0	2,350
	915-Injuries and Damages Load	237	0	0	0	0	0	0	0	0	0	0	0	0	237
	918-San Juan AR-Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	921-Stores / Purchasing Load	1,905	0	0	0	0	0	0	0	0	0	0	0	0	1,905
	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	5,255	0	0	0	0	0	0	0	0	0	0	0	0	5,255
	928-AFUDC Debt Reg	83	0	0	0	0	0	0	0	0	0	0	0	0	83
	929-AFUDC - Equity Regular	90	0	0	0	0	0	0	0	0	0	0	0	0	90
	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	73,582	0	0	0	0	0	0	0	0	0	0	0	0	73,582
	825-Clearings	-73,582	0	0	0	0	0	0	0	0	0	0	0	0	-73,582
	Clr Sum	-73,582	0	0	0	0	0	0	0	0	0	0	0	0	-73,582
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 04616216 Rio Bravo LCI HVAC

Company: 003-Bulk Power
Location: 046 Rio Bravo

Project Information

Construction Start Date 7/15/2016 Estimated Completion Date 9/30/2016

List Interim In-Service Dates

0

Project Need Justification

The Rio Bravo Generating Station heating and air conditioning system (HVAC) for the Load Commutator Inverter (LCI) has failed. In order for the system to work properly, the entire HVAC unit must be replaced. The LCI provides the electrical power source for the generator to function as a motor until the combustion turbine fires. In order for this to happen, the HVAC system needs to work properly. The purchase of a new HVAC system will provide the ability for the plant to run smoothly.

Project Alternatives

The do nothing option is not available for this project. The HVAC system is very important for the LCI system, and without it the LCI cannot run properly. The other option of only replacing the portion of the system that failed is not viable either. The system failed completely, and replacing only part of it may have costs that are almost as much as replacing the entire unit.

Technical Aspects

The project involves the purchase and installation of a heating and cooling system to maintain optimal hardware operating temperature.

Project Estimate Approach

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

Cost Year 01

Project	04616216	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	400	0	0	0	400		
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	8,268	0	0	0	8,268		
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	27	0	0	0	27		
914-Pension and Benefits Load	0			0	0	127	0	0	0	127		
915-Injuries and Damages Load	0			0	0	13	0	0	0	13		
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	721	0	0	0	721		
928-AFUDC Debt Reg	0			0	0	11	0	0	0	11		
929-AFUDC - Equity Regular	0			0	0	12	0	0	0	12		
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	9,578	0	0	0	9,578		
825-Clearings	0			0	0	-9,578	0	0	0	-9,578		
Clr Sum	0			0	0	-9,578	0	0	0	-9,578		
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	04616216	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	400	0	0	0	0	0	0	0	0	0	0	0	0	400
	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	8,268	0	0	0	0	0	0	0	0	0	0	0	0	8,268
	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	27	0	0	0	0	0	0	0	0	0	0	0	0	27
	914-Pension and Benefits Load	127	0	0	0	0	0	0	0	0	0	0	0	0	127
	915-Injuries and Damages Load	13	0	0	0	0	0	0	0	0	0	0	0	0	13
	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	721	0	0	0	0	0	0	0	0	0	0	0	0	721
	928-AFUDC Debt Reg	11	0	0	0	0	0	0	0	0	0	0	0	0	11
	929-AFUDC - Equity Regular	12	0	0	0	0	0	0	0	0	0	0	0	0	12
	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	9,578	0	0	0	0	0	0	0	0	0	0	0	0	9,578
	825-Clearings	-9,578	0	0	0	0	0	0	0	0	0	0	0	0	-9,578
	Clr Sum	-9,578	0	0	0	0	0	0	0	0	0	0	0	0	-9,578
	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	04616216	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	400	0	0	0	0	0	0	0	0	0	0	0	0	400
	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	8,268	0	0	0	0	0	0	0	0	0	0	0	0	8,268
	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	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	27	0	0	0	0	0	0	0	0	0	0	0	0	27
914-Pension and Benefits Load	915-Injuries and Damages Load	127	0	0	0	0	0	0	0	0	0	0	0	0	127
	918-San Juan AR-Labor	13	0	0	0	0	0	0	0	0	0	0	0	0	13
	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	721	0	0	0	0	0	0	0	0	0	0	0	0	721
	928-AFUDC Debt Reg	11	0	0	0	0	0	0	0	0	0	0	0	0	11
929-AFUDC - Equity Regular	937-San Juan AR - Other	12	0	0	0	0	0	0	0	0	0	0	0	0	12
	961-Luna A&G PNMR D&V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cost Sum	9,578	0	0	0	0	0	0	0	0	0	0	0	0	9,578
	825-Clearings	-9,578	0	0	0	0	0	0	0	0	0	0	0	0	-9,578
	Clr Sum	-9,578	0	0	0	0	0	0	0	0	0	0	0	0	-9,578
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 04616217 Rio Bravo Diesel Unloading

Company: 003-Bulk Power
Location: 046 Rio Bravo

Project Information

Construction Start Date 3/1/2017 Estimated Completion Date 5/31/2017

List Interim In-Service Dates

0

Project Need Justification

The current diesel unloading docks at Rio Bravo Station do not meet the necessary specifications for the diesel delivery truck unloading. More specifically, trucks are crashing the unloading docks when they are unloading. This project would fix this issue of trucks hitting the docks by increasing the height and create a more efficient and safe unloading process.

Project Alternatives

The project alternative to this would be to do nothing. This alternative is not preferred because the diesel trucks are not able to unload properly in the current condition and could pose further risks.

Technical Aspects

PNM will solicit a contractor to design the upgrade for the unloading docks. Once the design is complete, the project scope can be determined and work can be started. PNM will provide project management.

Project Estimate Approach

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

Cost Year 01

Project	04616217	Year	2016		Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type	Bal 6/30/16										
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	04616217	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	0	0	0	0	0	0	0	1,500
	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	0	0	0	2,500	2,152	2,000	0	0	0	0	0	0	0	6,652
	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	34	34	34	0	0	0	0	0	0	0	103
	914-Pension and Benefits Load	0	0	0	158	158	158	0	0	0	0	0	0	0	474
	915-Injuries and Damages Load	0	0	0	11	11	11	0	0	0	0	0	0	0	34
	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	202	178	168	0	0	0	0	0	0	0	548
	928-AFUDC Debt Reg	0	0	0	4	13	21	0	0	0	0	0	0	0	38
	929-AFUDC - Equity Regular	0	0	0	6	17	27	0	0	0	0	0	0	0	50
	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	3,416	3,064	2,919	0	0	0	0	0	0	0	9,399
	825-Clearings	0	0	0	0	0	-9,399	0	0	0	0	0	0	0	-9,399
	Clr Sum	0	0	0	0	0	-9,399	0	0	0	0	0	0	0	-9,399
Proj Net		0	0	0	3,416	3,064	-6,479	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	04616217	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,500	0	0	0	0	0	0	0	0	0	0	0	0	1,500
	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	6,652	0	0	0	0	0	0	0	0	0	0	0	0	6,652
	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	103	0	0	0	0	0	0	0	0	0	0	0	0	103
	914-Pension and Benefits Load	474	0	0	0	0	0	0	0	0	0	0	0	0	474
	915-Injuries and Damages Load	34	0	0	0	0	0	0	0	0	0	0	0	0	34
	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	548	0	0	0	0	0	0	0	0	0	0	0	0	548
	928-AFUDC Debt Reg	38	0	0	0	0	0	0	0	0	0	0	0	0	38
	929-AFUDC - Equity Regular	50	0	0	0	0	0	0	0	0	0	0	0	0	50
	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	9,399	0	0	0	0	0	0	0	0	0	0	0	0	9,399
	825-Clearings	-9,399	0	0	0	0	0	0	0	0	0	0	0	0	-9,399
	Clr Sum	-9,399	0	0	0	0	0	0	0	0	0	0	0	0	-9,399
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Project No: 70029905 Accounting Adjustments

Company: 003-Bulk Power
Location: 700 Generation

Project Information

Construction Start Date 1/1/2015 Estimated Completion Date 6/30/2016

List Interim In-Service Dates

0

Project Need Justification

This project is used for various accounting adjustments. The adjustments include AFUDC true ups for FERC Order 561 and the capitalized interest calculated for the non-jurisdictional portion of Palo Verde Common that is not in rates. This project is also used as a capital wedge project for tradeoffs between organizations. The amount related to the wedge portion of this project is \$4,093,612. This offsets the two NM Ops wedge projects: 60002015-Specific Distribution Wedge for \$(8,088,248) and 65008807-Transmission Wedge for \$3,994,636.

Project Alternatives

0

Technical Aspects

0

Project Estimate Approach

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

Cost Year 01

Project	70029905	Year	2016	Jul	Aug	Sep	Oct	Nov	Dec	Total
Cost_Type		Bal 6/30/16								
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		79		0	0	0	0	0	0	79
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		-30,851		0	0	0	0	0	0	-30,851
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		3,508,597		0	0	0	0	0	0	3,508,597
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		-367,997		0	0	0	0	0	0	-367,997
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		178,055		0	0	0	0	0	0	178,055
928-AFUDC Debt Reg		-2,446,862		0	0	0	0	0	0	-2,446,862
929-AFUDC - Equity Regular		-487,828		0	0	0	0	0	0	-487,828
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		353,193		0	0	0	0	0	0	353,193
825-Clearings		-1,228,797		0	0	0	0	0	0	-1,228,797
Clr Sum		-1,228,797		0	0	0	0	0	0	-1,228,797
Proj Net		-875,604		0	0	0	0	0	0	-875,604

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

Cost Year 02

Project	70029905	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	79	0	0	0	0	0	0	0	0	0	0	0	0	79
	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	-30,851	0	0	0	0	0	0	0	0	0	0	0	0	-30,851
	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	3,508,597	0	0	0	0	0	0	0	0	0	0	0	0	3,508,597
	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	-367,997	0	0	0	0	0	0	0	0	0	0	0	0	-367,997
	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	178,055	0	0	0	0	0	0	0	0	0	0	0	0	178,055
	928-AFUDC Debt Reg	-2,446,862	0	0	0	0	0	0	0	0	0	0	0	0	-2,446,862
	929-AFUDC - Equity Regular	-487,828	0	0	0	0	0	0	0	0	0	0	0	0	-487,828
	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	353,193	0	0	0	0	0	0	0	0	0	0	0	0	353,193
	825-Clearings	-1,228,797	0	0	0	0	0	0	0	0	0	0	0	30,851	-1,197,946
	Clr Sum	-1,228,797	0	0	0	0	0	0	0	0	0	0	0	30,851	-1,197,946
Proj Net		-875,604	0	0	0	0	0	0	0	0	0	0	0	30,851	-844,753

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

Cost Year 03

Project	70029905	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	79	0	0	0	0	0	0	0	0	0	0	0	0	79
	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	-30,851	0	0	0	0	0	0	0	0	0	0	0	0	-30,851
	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	3,508,597	0	0	0	0	0	0	0	0	0	0	0	0	3,508,597
	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	-367,997	0	0	0	0	0	0	0	0	0	0	0	0	-367,997
	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	178,055	0	0	0	0	0	0	0	0	0	0	0	0	178,055
	928-AFUDC Debt Reg	-2,446,862	0	0	0	0	0	0	0	0	0	0	0	0	-2,446,862
	929-AFUDC - Equity Regular	-487,828	0	0	0	0	0	0	0	0	0	0	0	0	-487,828
	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	353,193	0	0	0	0	0	0	0	0	0	0	0	0	353,193
	825-Clearings	-1,197,946	0	0	0	0	0	0	0	0	0	0	0	0	-1,197,946
	Clr Sum	-1,197,946	0	0	0	0	0	0	0	0	0	0	0	0	-1,197,946
	Proj Net	-844,753	0	0	0	0	0	0	0	0	0	0	0	0	-844,753

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Project No: 75216016 La Luz Cattle Guard CDAP

Company: 003-Bulk Power
Location: 752 Generation

Project Information

<u>Construction Start Date</u>	7/15/2016	<u>Estimated Completion Date</u>	9/30/2016
<u>List Interim In-Service Dates</u>	0		

Project Need Justification

There is a manual gate which opens access to a larger area around the plant and keeps cattle from entering the PNM property. The gate is normally open when PNM personnel visit the site during daylight hours and closed at night. In the event equipment or supplies are delivered to the plant site, PNM has to dispatch PNM personnel onsite to manually open the gate. In order to minimize trips to La Luz and keep cattle off of PNM's property, a cattle guard must be installed. The scope of this project includes the purchase, engineering and installation of the cattle guard. PNM will provide all project management services as well.

Project Alternatives

The do-option would be do nothing option, which is not optimal in that it requires special trips for PNM to manually open the gate to provide access for contractors. The recommended solution is preferred because it involves the design, purchase and installation of a cattle guard to properly keeps the cattle off site while also allowing access to the site for contractors.

Technical Aspects

The cattle guard will be designed by an outside engineering firm. The installation of the cattle guard will be provided by the contractor. The cattle guard system will include the cattle guard and associated earthwork and concrete foundations.

Project Estimate Approach

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

Cost Year 01

Project	75216016	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	332	0	0	0	332		
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	20,204	0	0	0	20,204		
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	22	0	0	0	22		
914-Pension and Benefits Load	0			0	0	105	0	0	0	105		
915-Injuries and Damages Load	0			0	0	11	0	0	0	11		
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	1,709	0	0	0	1,709		
928-AFUDC Debt Reg	0			0	0	25	0	0	0	25		
929-AFUDC - Equity Regular	0			0	0	27	0	0	0	27		
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	22,436	0	0	0	22,436		
825-Clearings	0			0	0	-22,436	0	0	0	-22,436		
Clr Sum	0			0	0	-22,436	0	0	0	-22,436		
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	75216016	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	332	0	0	0	0	0	0	0	0	0	0	0	0	332
	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	20,204	0	0	0	0	0	0	0	0	0	0	0	0	20,204
	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	22	0	0	0	0	0	0	0	0	0	0	0	0	22
	914-Pension and Benefits Load	105	0	0	0	0	0	0	0	0	0	0	0	0	105
	915-Injuries and Damages Load	11	0	0	0	0	0	0	0	0	0	0	0	0	11
	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	1,709	0	0	0	0	0	0	0	0	0	0	0	0	1,709
	928-AFUDC Debt Reg	25	0	0	0	0	0	0	0	0	0	0	0	0	25
	929-AFUDC - Equity Regular	27	0	0	0	0	0	0	0	0	0	0	0	0	27
	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	22,436	0	0	0	0	0	0	0	0	0	0	0	0	22,436
	825-Clearings	-22,436	0	0	0	0	0	0	0	0	0	0	0	0	-22,436
	Clr Sum	-22,436	0	0	0	0	0	0	0	0	0	0	0	0	-22,436
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	75216016	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	332	0	0	0	0	0	0	0	0	0	0	0	0	332
	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	20,204	0	0	0	0	0	0	0	0	0	0	0	0	20,204
	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	22	0	0	0	0	0	0	0	0	0	0	0	0	22
914-Pension and Benefits Load		105	0	0	0	0	0	0	0	0	0	0	0	0	105
915-Injuries and Damages Load		11	0	0	0	0	0	0	0	0	0	0	0	0	11
	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	1,709	0	0	0	0	0	0	0	0	0	0	0	0	1,709
	928-AFUDC Debt Reg	25	0	0	0	0	0	0	0	0	0	0	0	0	25
929-AFUDC - Equity Regular		27	0	0	0	0	0	0	0	0	0	0	0	0	27
	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	22,436	0	0	0	0	0	0	0	0	0	0	0	0	22,436
	825-Clearings	-22,436	0	0	0	0	0	0	0	0	0	0	0	0	-22,436
	Clr Sum	-22,436	0	0	0	0	0	0	0	0	0	0	0	0	-22,436
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Company: 003-Bulk Power
Location: 752 Generation

<u>Construction Start Date</u>	7/15/2016	<u>Estimated Completion Date</u>	9/30/2016
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The La Luz continuous emissions monitoring system (CEMS) monitors gasses released into the atmosphere from the turbine stack and is a crucial system to ensure compliance with various environmental regulations. The CEMS requires routine calibration and in order to do this, extra bottles of carbon dioxide (CO₂), nitrogen oxides (NO_x) and oxygen (O₂) must be available on site at all times. Currently these bottles are stored as safely as possible. However, it is recommended to store all compressed bottles in an enclosed container or storage rack for additional safety. An outside contractor will provide engineering and construction while PNM provides project management.

Other than continuing with the current method, no alternative exists. Compressed bottles need a proper rack and location for safe storage.

The bottle rack consists of and concrete pad with an enclosure and necessary bottle supports. This will ensure that the bottles are stored in safe and weather-proof environment.

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

Cost Year 01

Project	75216116	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	275	1,263	0	0	0	1,538		
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	2,955	13,022	0	0	0	15,977		
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	0			0	19	85	0	0	0	104		
914-Pension and Benefits Load	0			0	87	401	0	0	0	488		
915-Injuries and Damages Load	0			0	9	40	0	0	0	49		
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	269	1,189	0	0	0	1,457		
928-AFUDC Debt Reg	0			0	4	26	0	0	0	30		
929-AFUDC - Equity Regular	0			0	4	28	0	0	0	33		
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	3,622	16,054	0	0	0	19,676		
825-Clearings	0			0	0	-19,676	0	0	0	-19,676		
Clr Sum	0			0	0	-19,676	0	0	0	-19,676		
Proj Net	0			0	3,622	-3,622	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	75216116	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,538	0	0	0	0	0	0	0	0	0	0	0	0	1,538
	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	15,977	0	0	0	0	0	0	0	0	0	0	0	0	15,977
	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	104	0	0	0	0	0	0	0	0	0	0	0	0	104
	914-Pension and Benefits Load	488	0	0	0	0	0	0	0	0	0	0	0	0	488
	915-Injuries and Damages Load	49	0	0	0	0	0	0	0	0	0	0	0	0	49
	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	1,457	0	0	0	0	0	0	0	0	0	0	0	0	1,457
	928-AFUDC Debt Reg	30	0	0	0	0	0	0	0	0	0	0	0	0	30
	929-AFUDC - Equity Regular	33	0	0	0	0	0	0	0	0	0	0	0	0	33
	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	19,676	0	0	0	0	0	0	0	0	0	0	0	0	19,676
	825-Clearings	-19,676	0	0	0	0	0	0	0	0	0	0	0	0	-19,676
	Clr Sum	-19,676	0	0	0	0	0	0	0	0	0	0	0	0	-19,676
	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	75216116	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	1,538	0	0	0	0	0	0	0	0	0	0	0	0	1,538
	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	15,977	0	0	0	0	0	0	0	0	0	0	0	0	15,977
	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	104	0	0	0	0	0	0	0	0	0	0	0	0	104
	914-Pension and Benefits Load	488	0	0	0	0	0	0	0	0	0	0	0	0	488
	915-Injuries and Damages Load	49	0	0	0	0	0	0	0	0	0	0	0	0	49
	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	1,457	0	0	0	0	0	0	0	0	0	0	0	0	1,457
	928-AFUDC Debt Reg	30	0	0	0	0	0	0	0	0	0	0	0	0	30
	929-AFUDC - Equity Regular	33	0	0	0	0	0	0	0	0	0	0	0	0	33
	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	19,676	0	0	0	0	0	0	0	0	0	0	0	0	19,676
	825-Clearings	-19,676	0	0	0	0	0	0	0	0	0	0	0	0	-19,676
	Clr Sum	-19,676	0	0	0	0	0	0	0	0	0	0	0	0	-19,676
	Proj Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Project No: 75216216 La Luz Turbine Stairways v01

Company: 003-Bulk Power
Location: 752 Generation

Project Information

Construction Start Date 7/15/2016 Estimated Completion Date 12/31/2016

List Interim In-Service Dates

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Project Need Justification

Currently, employees are required to climb vertical ladders on site while transporting materials and tools. This becomes even more hazardous with ladder climbs required over 15 feet and a greater probability of falling. Replacing all vertical ladders with stairways will reduce the risk for falls and will make the employee work environment much safer. An outside contractor will provide the stairway design and installation. PNM will perform project management.

Project Alternatives

The only alternative would be to maintain the current ladder system and risk further injury.

Technical Aspects

The stairway system will include prefabricated stairways with hand rails and the necessary foundations to support them.

Project Estimate Approach

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

Cost Year 01

Project	75216216	Year	2016									
Cost_Type	Bal 6/30/16			Jul	Aug	Sep	Oct	Nov	Dec	Total		
110-Straight Time-General	0			0	0	361	2,190	3,809	0	6,360		
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	4,540	28,896	49,124	0	82,560		
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	-107	-107	-107	-320		
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	24	147	256	0	428		
914-Pension and Benefits Load	0			0	0	115	695	1,209	0	2,019		
915-Injuries and Damages Load	0			0	0	12	70	122	0	204		
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	408	2,586	4,404	0	7,398		
928-AFUDC Debt Reg	0			0	0	6	51	157	223	437		
929-AFUDC - Equity Regular	0			0	0	7	55	170	242	474		
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	5,472	34,585	59,144	359	99,560		
825-Clearings	0			0	0	0	0	0	-99,560	-99,560		
Clr Sum	0			0	0	0	0	0	-99,560	-99,560		
Proj Net	0			0	0	5,472	34,585	59,144	-99,201	0		

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

Cost Year 02

Project	75216216	Year	2017												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	6,360	0	0	0	0	0	0	0	0	0	0	0	0	6,360
	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	82,560	0	0	0	0	0	0	0	0	0	0	0	0	82,560
	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	-320	0	0	0	0	0	0	0	0	0	0	0	0	-320
	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	428	0	0	0	0	0	0	0	0	0	0	0	0	428
914-Pension and	Benefits Load	2,019	0	0	0	0	0	0	0	0	0	0	0	0	2,019
915-Injuries and	Damages Load	204	0	0	0	0	0	0	0	0	0	0	0	0	204
	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	7,398	0	0	0	0	0	0	0	0	0	0	0	0	7,398
	928-AFUDC Debt Reg	437	0	0	0	0	0	0	0	0	0	0	0	0	437
929-AFUDC -	Equity Regular	474	0	0	0	0	0	0	0	0	0	0	0	0	474
	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	99,560	0	0	0	0	0	0	0	0	0	0	0	0	99,560
	825-Clearings	-99,560	0	0	0	0	0	0	0	0	0	0	0	0	-99,560
	Clr Sum	-99,560	0	0	0	0	0	0	0	0	0	0	0	0	-99,560
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	75216216	Year	2018												
	Cost_Type	BegBal	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	110-Straight Time-General	6,360	0	0	0	0	0	0	0	0	0	0	0	0	6,360
	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	82,560	0	0	0	0	0	0	0	0	0	0	0	0	82,560
	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	-320	0	0	0	0	0	0	0	0	0	0	0	0	-320
	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	428	0	0	0	0	0	0	0	0	0	0	0	0	428
	914-Pension and Benefits Load	2,019	0	0	0	0	0	0	0	0	0	0	0	0	2,019
	915-Injuries and Damages Load	204	0	0	0	0	0	0	0	0	0	0	0	0	204
	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	7,398	0	0	0	0	0	0	0	0	0	0	0	0	7,398
	928-AFUDC Debt Reg	437	0	0	0	0	0	0	0	0	0	0	0	0	437
	929-AFUDC - Equity Regular	474	0	0	0	0	0	0	0	0	0	0	0	0	474
	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	99,560	0	0	0	0	0	0	0	0	0	0	0	0	99,560
	825-Clearings	-99,560	0	0	0	0	0	0	0	0	0	0	0	0	-99,560
	Clr Sum	-99,560	0	0	0	0	0	0	0	0	0	0	0	0	-99,560
Proj Net		0	0	0	0	0	0	0	0	0	0	0	0	0	0

Page 4

San Juan Urea Work Paper

PNM Exhibit CM0-5

Is contained in the following 1 page

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2	PNM Exhibit CMO - 5											
3	San Juan Urea Costs											
4	Base Period data is historical information from the Company's Books and Records.											
5												Note 4
6		Notes 1, 2 & 3						Column H Row 16 = Column E x Column F				Column L Row 16 = Column J x Column E x 1.015
7					Column E = Column C / Column D			Column H Rows 17 & 18 = Column H x Column G	Column I = Column H - Column C			Column L Rows 17 & 18 = Column L x Column K
8	Description	FERC	Base Period Urea Costs (\$) 2/1/16 to 6/30/16	Base Period Net Energy Produced (MWH) 2/1/16 to 6/30/16	Base Period Urea Cost per MWH of Energy Produced (\$/MWH)	Total Base Period Net Energy Produced (MWH) 7/1/15 to 6/30/16	Base Period 'Participant Share/PNM Share (%)	Adjusted Base Period Urea Costs (\$) 7/1/15 to 6/30/16	Adjustments to Base Period (\$)	Test Period Total Energy to be Produced (MWH) 1/1/18 to 12/31/18	Test Period 'Participant Share /PNM Share (%)	Test Period Total Cost Escalated 1.5% (\$)
9	Steam Production Operation San Juan Unit 1											
10	Energy (MWH)											
11	Total Energy Produced (MWH)			902,716		2,237,923				2,188,811		
12	PNM Share of Energy Produced (MWH)			450,391		1,117,590				1,094,406		
13												
14	O&M Costs (\$)											
15	345 - Consumables - Nonloading		782,995					1,852,279	1,069,284			1,838,805
16	937 - San Juan AR - Other		(391,498)				50.000%	(926,139)	(534,642)		50.000%	(919,402)
17	Total Steam Expenses	502	391,498					926,139	534,642			919,402
18												
19	Steam Production Operation San Juan Unit 4											
20	Energy (MWH)											
21	Total Energy Produced (MWH)			1,313,775		2,832,254				3,153,713		
22	PNM Share of Energy Produced (MWH)			611,131		1,317,500				2,033,577		
23												
24	Total Energy Produced (MWH)											
25	345 - Consumables - Nonloading		1,051,545					2,344,194	1,292,649			2,649,412
26	937 - San Juan AR - Other		(647,152)				61.543%	(1,442,687)	(795,535)		35.518%	(941,018)
27	Total Steam Expenses	502	404,393					901,507	497,114			1,708,394
28												
29	Total San Juan (100% Company)		1,834,540	2,216,491	0.82768	5,070,177		4,196,473	2,361,932	5,342,524		4,488,217
30	Total San Juan (PNM Share)		795,890	1,061,521	0.74976	2,435,091		1,827,646	1,031,756	3,127,983		2,627,796
31												
32												
33												
34	Note 1: Please refer to testimony of PNM witness Olson for further discussion of San Juan Urea costs.											
35	Note 2: Unit 1 and Unit 4 went into full SNCR operation starting on January 31, 2016											
36	Note 3: San Juan costs excluding Labor and overtime											
37	Note 4: Annual escalation rate is 1.5%											
38	Additional Note: The electronic version of this worksheet uses the Microsoft Excel outline function. This function groups the elements of cost, and or columns for print formatting purposes.											

Four Corners Urea Work Paper

PNM Exhibit CM0-6

Is contained in the following 1 page

	A	B	C	D	E
1					
2	PNM Exhibit CMO - 6				
3	Four Corner Urea Costs				
4	There is no Base Period data as the Four Corners SCR's were not in operation at that time.				
5					
6			Note 1 & 2 & 3		
7					Column E = Column C x Column D
8	Description	FERC	Test Period Total Project Urea Costs (\$) 1/1/18 to 12/31/18	PNM Share of Four Corners Unit 4 and 5 (%)	Total Test Period PNM Share of Urea Costs (\$) 1/1/18 to 12/31/18
9					
10	Steam Production Operation Four Corners Unit 4 & 5				
11	345 - Consumables - Nonloading	502	\$5,091,353	13.0%	\$661,876
12					
13	Total PNM Share of Four Corners Urea Costs (excluding Labor and Overtime)				\$661,876
14					
15					
16					
17	Note 1: Please refer to testimony of PNM witness Olson for further discussion of Four Corners Urea costs.				
18	Note 2: Projected Unit 4 and Unit 5 urea cost data is from Four Corners Long Range Forecast issued 09-22-2016				
19	Note 3: 2016 costs for R/O, water and Other Chemicals were subtracted from the entered 2018 Test Period costs				

Four Corners O&M Costs Related To SCR Work Paper

PNM Exhibit CMO-7

Is contained in the following 1 page

	A	B	C	D	E
1					
2	PNM Exhibit CMO - 7				
3	Four Corner O&M Costs Related to SCR				
4	There are no Base Period costs as the Four Corners SCR's were not in operation at that time.				
5					
6					
7			Note 1 & 2 & 3		Column E = Column C x Column D
			Test Period Total Project SCR		Total Test Period PNM
			O&M Costs	PNM Share of	Share of SCR O&M Costs
			(\$)	Four Corners Unit 4 and 5	(\$)
8	Description	FERC	1/1/18 to 12/31/18	(%)	1/1/18 to 12/31/18
9					
10	Steam Production Operation Four Corners Unit 4 & 5				
11	Labor - Operators*	502	\$724,800	13.0%	\$94,224
12	Labor - Maintenance	512	\$179,600	13.0%	\$23,348
13	Maintenance	512	\$1,159,000	13.0%	\$150,670
14					
15	Total PNM Share of Four Corners SCR O&M costs (excluding urea costs)		\$2,063,400		\$268,242
16					
17					
18					
19	Note 1: Please refer to testimony of PNM witness Olson for further discussion of Four Corners O&M costs related to SCR.				
20	Note 2: Projected Unit 4 and Unit 5 Non-Labor O&M cost data is from the Four Corners Long Range Forecast issued 09-22-2016				
21	Note 3: Labor estimates provided by APS				
22	*Does not include labor dollars for fuel handling				

O&M Avoided Costs Due to Balanced Draft Work Paper

PNM Exhibit CM0-8

Is contained in the following 1 page

	A	B	C	D	E	F	G
1							
2	PNM Exhibit CMO-8						
3	O&M Avoided Costs Due to Balanced Draft						
4	Historical information from the Company's Books and Records.						
5							
6							
7	Note 1				Column E = Column D/6		Column G = Column E x Column F
8	Unit 1 Description	Project Number	Work Order Number	Annual Expense 100% dollars	Average Expense Over 6 Years	PNM Share (%)	PNM Share (\$)
9	U1 Expansion Joint Repl 2010	Y0051249	Y0051250	732,083			
10	U1 Generator Links Expansion Joints 2011	Y0052727	Y0052728	47,004			
11	U1 Boiler Hanger/Exp Joint Repl 2013	Y0060726	Y0060727	502,065			
12	U1 Expansion Joint 2014	Y0062786	Y0062787	470,151			
13	U1 Condenser Exp Joint Repl 2015	Y0066867	Y0066868	73,860			
14	Total Unit 1 Six Year Expense			1,825,163	304,194	50.000%	152,097
15	Unit 4 Description						
16	U4 Expansion Joint Repl 2010	Y0049901	Y0050023	1,688,667			
17	U4 Expansion Joint 2013	Y0056553	Y0056554	1,656,097			
18	U4 Expansion Joint 2015	Y0066368	Y0066369	1,762,286			
19	Total Unit 4 Six Year Expense			5,107,050	851,175	38.457%	327,336
20							
21							
22	Units 1 and 4 Average Annual O&M Expense for Duct and Casing Leaks			6,932,213	1,155,369		479,433
23							
24	Note 1: Data from 2010 through 2015 - years that did not have expenses are not listed.						

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

**IN THE MATTER OF THE APPLICATION)
OF PUBLIC SERVICE COMPANY OF NEW)
MEXICO FOR REVISION OF ITS RETAIL)
ELECTRIC RATES PURSUANT TO ADVICE)
NOTICE NO. 533)**

Case No. 16-00276-UT

**PUBLIC SERVICE COMPANY OF NEW)
MEXICO,)**

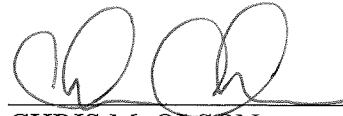
Applicant)

AFFIDAVIT

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

CHRIS M. OLSON, Vice President, Generation for Public Service Company
of New Mexico, upon being duly sworn according to law, under oath, deposes and states:
I have read the foregoing **Direct Testimony of Chris M. Olson** and it is true and
accurate based on my own personal knowledge and belief.

SIGNED this 21st day of November, 2016.



CHRIS M. OLSON

SUBSCRIBED AND SWORN to before me this 21st day of November, 2016.



NOTARY PUBLIC IN AND FOR
THE STATE OF NEW MEXICO



My Commission Expires:

September 14, 2018