

PNM 06

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January 26, 2006

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to New Mexico

Mr. John Kieling
RCRA Permits Program Manager
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505

RE: Person Generating Station (NMT 360010342) – Post-Closure Cost Estimate and Actual Post-Closure Costs

Dear Mr. Kieling:

Please find enclosed the 2006 post-closure care cost estimate and actual post-closure costs through 2005 for the Public Service Company of New Mexico Person Generating Station.

If you have any questions, please contact me at (505) 241-2014.

Sincerely,

John Hale, P.E.
Technical Project Manager

Enclosures

**Person Generating Station
Post Closure Cost Estimate for 2006**

<u>Line Item</u>	<u>Description</u>	<u>Cost</u>
1a	RCRA Permit - Yearly Administration, Inspections, and Reporting (through 2010)-See Detail 1a	\$ 25,140.00
1b	Shallow GW Sampling Program - Annual Cost for Next 4 Years, (through 2010)-See Detail 1b	\$ 50,910.00
1c	Deeper GW Sampling Program - Annual Cost for Next 5 Years, (through 2010)-See Detail 1c	\$ 49,300.00
1d	Increased Sampling Frequency to Demonstrate Attainment of GW Goals (to replace line item 1b costs one time)- See Detail 1d	\$ 90,020.00
2	RCRA Permit - Non-Recurring Costs for 2006 - Additional Permit Activities-See Detail 2	\$ 5,680.00
2a	Future NMED Permit Fees, Associated PNM Labor and Contractor Costs - See Detail 2a	\$ 422,020.00
3	Shallow GW Corrective Action Program - Additional Equipment Costs - See Detail 3	\$ 157,000.00
4	Shallow GW Corrective Action Program (thru 2007) - Annual Operation and Maintenance Costs - See Detail 4	\$ 61,600.00
5	Deeper Groundwater Assessment Program - Completion Costs - See Detail 5	\$ -
6	Deeper Groundwater Corrective Action Program - Installation Costs - See Detail 6	\$ -
7	Deeper Groundwater Corrective Action Program - Annual Operation Costs - See Detail 7	\$ -
8	Estimated Cost for 18th Year (2006) of Permit (line items 1a+1b+1c+2+4+5+6+7)	\$ 192,630.00
9	Cost for Next 5 Years of PC Period (2006 - 2010): line 8 + line 1d + line 2a + line 3 + 5*(line 1a) + 4*(line 1b) + 5*(line 1c) + 2*(line 4)	\$ 1,462,110.00
Date of Cost Estimate:		1/18/2006
Notes:		
1. Line Items 5, 6, and 7 are set to 0 - assumes no engineered corrective action will be needed for deeper GW.		
2. Line Item 4 - CAP program for shallow GW estimated to require 2 additional years (2006 - 2007) of active pumping to complete (2008 - 2010 would require verification sampling only).		
3. All labor costs are calculated at \$85 per hour.		

Detail 1
RCRA Permit - Yearly Administration, Inspections, GW Sampling, Maintenance, and Reporting
(2006 Through 2010)

Assumed Average Labor Rate For All Hourly Activities:		\$85.00								
Line Item	Description	Labor or Unit Rate	Hrs/item or 1 Unit	Items Per Year	Annual Cost (\$)	Group Subtotal				
Permit-Required Inspections										
1	Closure Cap Inspection	\$85.00	1	2	\$ 170.00					
2	Security Fence Inspection	\$85.00	1	2	\$ 170.00					
						\$ 340.00				
Program Administration/Reporting										
3	Administrative Activities, Meetings, and Regulatory Contact	\$ 85.00	120	1	\$ 10,200.00					
4	Annual Data Report and Other Reports Preparation	\$ 85.00	160	1	\$ 13,600.00					
5	Miscellaneous Costs: Copies, Supplies, Reference Materials, Etc.	\$ 1,000.00	1	1	\$ 1,000.00					
6	RESERVED									
						\$ 24,800.00				
Subtotal for Detail 1a:						\$ 25,140.00				
Shallow GW Sampling Program (35 wells)										
7	Preparation - Equipment Checkout, Planning, and Set-Up	\$ 85.00	8	2	\$ 1,360.00					
8	Water Level Measurements (2 operators, WL readings at 43 wells)	\$ 85.00	16	2	\$ 2,720.00					
9	Purge and Sampling of 35 Wells (2 operators)	\$ 85.00	77	2	\$ 13,090.00					
10	Data Review/Evaluation	\$ 85.00	40	2	\$ 6,800.00					
11	Administration	\$ 85.00	24	2	\$ 4,080.00					
12	Well Replacement/Maintenance (assume 1 well replaced/yr)	\$ 10,000.00	1	1	\$ 10,000.00					
13	Sampling Supplies and Equipment	\$ 500.00	1	2	\$ 1,000.00					
14	Lab Analysis (8021halo x 40)	\$ 100.00	40	2	\$ 8,000.00					
15	Lab Analysis (App. IX x 1)	\$ 1,800.00	1	1	\$ 1,800.00					
16	Non-Labor Costs: Vehicles, Gas Cylinders, and Miscellaneous	\$ 1,030.00	1	2	\$ 2,060.00					
Subtotal for Detail 1b:						\$ 50,910.00				
							Shallow GW Well Group	Number	Sample Hrs @	Total Hours
							1R,3B,6R,7R,8A,8B,10,11,13A,14,17,22,23,27			
							29,31,32,34,35,37	20	1.0	20.0
							1B,13B	2	0.5	1.0
							EW-1, VEW, EW-2, EW-3, EW-4	5	0.5	2.5
							18,19,20,21,33	5	1.5	7.5
							28,30,36	3	2.5	7.5
							Totals:	35		38.5
							Cylinders: 0.5 per well (average), \$20 per cyl., = 18 * 0.5 * \$20 = \$180			
							Vehicles: 60 hr * \$5/hr * 2 vehicles = \$600			
							Misc: \$250			
							Estimate per sampling event			
							\$ 1,030			
Deeper GW Sampling Program (15 wells)										
17	Preparation - Equipment checkout, planning, set up.	\$ 85.00	8	2	\$ 1,360.00					
18	Water Level Measurements (2 operators, WL readings at 42 wells)	\$ 85.00	16	2	\$ 2,720.00					
19	Purge and Sampling of 15 Deep CAD Wells (2 operators)	\$ 85.00	102	2	\$ 17,340.00					
20	Data Review/Evaluation	\$ 85.00	40	2	\$ 6,800.00					
21	Administration	\$ 85.00	24	2	\$ 4,080.00					
22	Well Maintenance	\$ 10,000.00	1	1	\$ 10,000.00					
23	Sampling Supplies/Equipment	\$ 500.00	1	2	\$ 1,000.00					
24	Lab Analysis (8021halo x 17)	\$ 100.00	17	2	\$ 3,400.00					
25	Non-Labor Costs: Vehicles, Gas Cylinders, and Miscellaneous	\$ 1,300.00	1	2	\$ 2,600.00					
Subtotal for Detail 1c:						\$ 49,300.00				
							Deeper GW Well Group	Number	Sample Hrs @	Total Hours
							17-8,19-8,22-8	3	6.0	18.0
							19-5, 21-5,8, 24-4,5,6,8, 25-5,8	9	3.0	27.0
							27-4,5,6	3	2.0	6.0
							Totals:	15	11.0	51.0
							Cylinders: 1.5 per well (average), \$20 per cyl., = 15 * 1.5 * \$20 = \$450			
							Misc: \$250			
							Vehicles: 60 hrs*\$5/hr x 2 vehicles = \$600			
							Estimate per sampling event			
							\$ 1,300			
26 Detail 1 Total:						\$ 125,350.00				
Increased Sampling To Demonstrate Attainment of GW Goals										
27	Additional Sampling at Shallow Groundwater Wells									
Subtotal For Detail 1d:						\$ 90,020.00				
Note: Sampling will be increased from biannual to quarterly one time during program. This will be done to demonstrate asymptotic behavior of GW analytical results as a trigger to evaluate system for Technical Infeasibility or Alternate Abatement Standard.										

Detail 2
RCRA Permit - Non-Recurring Costs For 2006

Assumed Average Labor Rate For All Hourly Activities:		\$85.00				
Line Item	Description	Labor or Unit Rate	Hrs/item or 1 Unit	Items Per Year	Annual Cost (\$)	Group Subtotal
Major Permit Activities to be Completed in 2006						
1	Miscellaneous - Non-Labor PNM Costs	\$2,500.00	1	1	\$2,500.00	
2	SWMUs - Additional Closure Activities (see details below)	\$0.00	1	1	\$0.00	
3	SVE 2006 Operation	\$3,180.00	1	1	\$3,180.00	
						\$5,680.00
Natural Pit Remediation - Completion of Activities						
6	PNM Administrative Costs	\$85.00	0	1	\$0.00	
7	PNM Miscellaneous Costs	\$1,000.00	0	1	\$0.00	
8	NMED Permit Modification Fee (NFA-Class III)	\$25,000.00	0	1	\$0.00	
9	Lab Analysis to Support Risk-Based Closure	\$0.00	0	0	\$0.00	
						\$0.00
Detail 2 Total:						\$5,680.00
Solid Waste Management Units (SWMUs) - Additional Closure Activities						
	Lab Analysis - Miscellaneous Soil Samples	\$ 2,000.00	0	1	\$0.00	
	Additional Data Analysis and Reporting (Contractor)	\$ 4,000.00	0	1	\$0.00	
	PNM Work Activities and Data Review	\$85.00	0	1	\$0.00	
						\$ -
Vapor Extraction System Operation - Currently Out of Service (2006 Only)						
	PNM Labor	\$85.00	8	1	\$680.00	
	Compliance Sampling	\$500.00	1	1	\$500.00	
	Carbon Disposal	\$2,000.00	1	1	\$2,000.00	
						\$3,180.00

Detail 2a - NMED Permit Fees

The estimate below is based on the current NMED fee structure and an assumed number of permit actions over the life of the permit.			
<u>Activity</u>	<u>Number</u>	<u>Fee</u>	<u>Total For This Activity</u>
Permit Renewal (circa 2008)	1	\$ 90,000.00	\$ 90,000.00
HSWA Module Fee	1	\$ 7,500.00	\$ 7,500.00
Class I Modifications	4	\$ 1,000.00	\$ 4,000.00
Class II Modifications	2	\$ 10,000.00	\$ 20,000.00
Class III Modifications	1	\$ 25,000.00	\$ 25,000.00
Annual NMED PC Business Fee	5	\$ 2,000.00	\$ 10,000.00
Hearing Fees	2	\$ 5,000.00	\$ 10,000.00
			\$ 166,500.00
<u>Other Costs</u>	<u>Labor/Unit Rate</u>	<u>Hrs/item or 1 unit</u>	<u>Total For This Activity</u>
PNM Labor Toward Permit Renewal	\$85.00	600	\$ 51,000.00
Contractor Labor for Renewal	\$ 175,000.00	1	\$ 175,000.00
Labor for Class I Mods (24hr x 4)	\$85.00	96	\$ 8,160.00
Labor for Class II Mods (48hr x 2)	\$85.00	96	\$ 8,160.00
Labor for Class III Mods (120hr x 1)	\$85.00	120	\$ 10,200.00
Contractor Labor for PC Certification	\$3,000.00	1	\$ 3,000.00
			\$ 255,520.00
Detail 2a Total:			\$ 422,020.00

Detail 5
 CAD - Deeper Groundwater Assessment Program, Completion Costs

The RCRA Post Closure Care Permit issued by the NMED in 2000 approves the deeper groundwater assessment findings.							
Consequently, it is unlikely that any additional assessment work will required for the deeper groundwater.							
CAD Deeper Groundwater Assessment Completion:					\$0.00		

Detail 6

CAD - Deeper Groundwater Corrective Action Program - Installation Costs

Currently, PNM is assuming that no engineered remediation program will be needed. Contaminant levels will be monitored only. Monitoring costs are shown in Detail 1c.											
CAD - Deeper Groundwater Corrective Action Program - Installation Costs:							\$0.00				

Actual Post-Closure Costs
Public Service Company of New Mexico
Person Generating Station (NMT 360010342)

Costs Through 2005

Routine Permit Activities	
• Labor	\$ 727,826
• Other	<u>\$ 1,336,545</u>
Subtotal for Routine Activities	\$ 2,064,371
Corrective Action Directive	
Shallow Groundwater Assessment	
• Labor	\$ 105,554
• Other	<u>\$ 834,085</u>
Subtotal Shallow Groundwater Assessment	\$ 939,639
Shallow Groundwater Remediation (Installation)	
• Labor	\$ 152,686
• Other	<u>\$ 1,979,147</u>
Subtotal	\$ 2,131,833
Deep Groundwater Assessment	
• Labor	\$ 45,040
• Other	<u>\$ 2,018,080</u>
Subtotal	\$ 2,063,120
Production Well Closure	
• Labor	\$ 9,855
• Other	<u>\$ 88,908</u>
Subtotal	\$ 98,763
CAP Operation	
• Labor	\$120,455
• Other	<u>\$ 254,253</u>
Subtotal	\$ 374,708
Subtotal for CAD Activities:	\$ 5,608,063
Total for all Post-Closure Costs:	\$ 7,672,434