



**Smith Ranch - Highland
Uranium Project**
P. O. Box 1210
Glenrock, Wyoming USA 82637
Casper: 307-235-1628
Douglas: 307-358-6541
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January 23, 2008

Paul Michalak
U.S. Nuclear Regulatory Commission
Two White Flint North
11545 Rockville Pike, T7E18
Rockville, MD 20852-2738

RE: Reynolds Ranch Surety Estimate
Source Material License SUA-1548, Docket No. 40-8964
Permit to Mine No. 633

Dear Mr. Michalak:

Please find attached the surety estimate for Reynolds Ranch. The surety reflects the restoration and reclamation cost estimates in 2007 dollars. Also included are the justifications for values presented in the first years projected activities. This surety will be combined with the current Smith Ranch surety of \$19,405,200.00 to bring the total surety to \$25,069,800.00

If you have any questions concerning this submittal please contact me at (307) 358-6541 ext. 46.

Regards,

A handwritten signature in black ink, appearing to read 'John McCarthy', with a stylized, cursive script.

John McCarthy
Manager, Safety, Health and Environment, RSO

cc: S. Magnuson w/atta

C. Foldenauer

File SR 4.3.3.1 w/atta

L. Spackman, WDEQ/LQD w/atta



A member of the Cameco group of companies

CAMECO RESOURCES INC SMITH RANCH URANIUM PROJECT REYNOLDS RANCH
SURETY ESTIMATE REVISION

Total Restoration and Reclamation Cost Estimate									
I.	GROUNDWATER RESTORATION COST								\$3,538,677
II.	EQUIPMENT REMOVAL & DISPOSAL COST								\$31,347
III.	BUILDING DEMOLITION AND DISPOSAL COST								\$179,464
IV.	WELLFIELD BUILDINGS & EQUIPMENT REMOVAL & DISPOSAL COST								\$83,531
V.	WELL ABANDONMENT COST								\$406,526
VI.	WELLFIELD AND SATELLITE SURFACE RECLAMATION COST								\$46,518
VII.	TOTAL MISCELLANEOUS RECLAMATION COST								\$205,203
	SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE								\$4,491,266
CPI ESCALATOR JULY 1, 2007 TO NOV 2007 = 0.90%									\$40,421
	SUBTOTAL								\$4,531,688
	ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)								\$1,132,922
	TOTAL								\$5,664,610
	TOTAL CALCULATED SURETY (IN 2008 DOLLARS)								\$5,664,600

RECURRING COST

	Item	Amount (\$)	Units	Cost Basis
ELECTRICAL	Power Cost (current actual costs)	\$0.048	kw/hr	Cost of electricity from current contract - Pacific Power and Light
	Kilowatt to Horsepower	\$0.176	kw/hp	
	Horsepower per gpm	\$0.167	hp/gpm	
	Per 1000 gallons pumped	\$0.600	per 1000 gal	
	Cost per Month (Satellite)	\$6,000	unit	
	Cost per Month (Main Office)	\$1,825	unit	
LABOR RATES	Operator	\$136.34	day	Labor costs from current in-field charges paid by PRI
	Environmental Manager	\$100,000	year	
	Environmental Technician	\$80,000	year	
	Maintenance Technician	\$34,000	year	
CHEMICAL	Reductant	\$0.30	per 1000 lb	Chemical costs from current PRI vendor purchase agreements
	Cement	\$7.62	sack	
	Plug Gel	\$6.45	sack	
	Hydrochloric Acid	\$0.1375	lb	
	Elution Unit Chemical Cost	\$900	unit	
ANALYTICAL	Guideline 8	\$200	batch	Analytical costs from current contract with Energy Labs, Casper, Wyoming
	6 Parameters	\$70	batch	
	Other In-House (Radon, Biological, Soils, etc.)	\$50	batch	In-house estimate for material and labor
SPARE PARTS	Restoration Spare Parts	\$20,000	year	Costs for spare parts from operator experience
TRANSPORTATION AND DISPOSAL	11 (e)(2) Material Transport	\$1.33	cubic yard	Costs for Transportation and disposal from current contracts with NRC Licensed Facility & contract trucker
	11 (e)(2) Material Disposal	\$11.00	cubic yard	
	Soil/Solid Waste Transport (11(e) (2)	\$1.33	cubic yard	Costs for Transportation and disposal from current contracts with NRC Licensed Facility & contract trucker
	Soil/Solid Waste Disposal (11(e) (2)	\$3.70	cubic yard	
	Soil/Solid Waste (non-contam., on-site)	\$1.25	cubic yard	In-house estimate based on material cost and labor
VEHICLE OPERATION	Unit Cost	\$20.21	unit	Cost per WDEQ Guideline 12
PLANT DISMANTLING	Concrete Footer Demolition	\$12.22	cubic foot	Costs per WDEQ Guideline 12, App. K
	Concrete Floor Demolition	\$3.40	cubic foot	
PLANT DECONTAMINATION AND DISPOSAL	Direct Disposal Plant Floor	\$1.25	cubic yard	Costs for Transportation and disposal from current contracts with NRC Licensed Facility
	Solution (HCL) Application Rate	\$0.57	square foot	In-house estimate based on actual material cost
PIPE REMOVAL	2-inch SDR 13.5 inj. & prod. Removal	\$0.91	foot	Costs for pipe removal from operator experience
	Trunkline Removal	\$0.43	foot	Includes labor and equipment

RECURRING COST

	Item	Amount (\$)	Units	Cost Basis
EQUIPMENT				
	Cat Trackhoe	\$1,125	week	Costs for equipment rental from Wyoming Machinery, Casper, Wyoming. All inclusive (labor, repairs, fuel, and Mob)
	Shredder	\$50,000		
	Cat Motor Grader	\$814.22	acre	Equipment owned by PRI
	Drill Rig	\$110.00	hour	Costs per WDEQ Guideline 12, App. 11
	Hose Reel	\$45.00	hour	Costs for equipment from operator experience
	Cementer	\$45.00	hour	Costs for equipment from operator experience
	Dozer	\$814.22	acre	Costs for equipment from operator experience
	Scraper	\$814.22	acre	Costs per WDEQ Guideline 12, App. 11
	Pulling Reel	\$45.00	hour	Costs per WDEQ Guideline 12, App. 11
	Manlift	\$8,900.00	month	Costs for equipment from operator experience
	Belly Dump	\$100.00	hour	Costs for equipment from operator experience
RECLAMATION				
	Discing and Seeding	\$280	acre	Operator Experience based on Current Contractor Pricing
	Top Soil Application	\$0.71	acre	
MIT				
	Mechanical Integrity Testing	\$188.17	well	Operator Experience based on Current Contractor Pricing

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Ground Water Restoration			Mine Unit-27																
PV Assumptions																			
	Wellfield Area (ft2) (HH x 20 patterns x 10,000)		1,923,061																
	Wellfield Area (acres)		44.1																
	Affected Ore Zone Area (ft2)		1,923,061																
	Avg. Completed Thickness		20																
	Porosity		0.27																
	Flare Factor		1.7																
	Affected Volume (ft3)		65,384,074																
	Kgallons per Pore Volume		132,050																
Number of Patterns in Unit(s)																			
	Current		205																
	Estimated next report period		0																
	Total Estimated		205																
Number of Wells in Unit(s)																			
	Production Wells																		
	Current		205																
	Estimated next report period		0																
	Total Estimated		205																
	Injection Wells																		
	Current		572																
	Estimated next report period		0																
	Total Estimated		572																
	Monitoring Wells																		
	Current		85																
	Estimated next report period		0																
	Total Estimated		85																
	Number of Wells per Wellfield		862																
	Total Number of Wells		862																
	Average Well Depth (ft)		860																
I. Ground Water Sweep Costs																			
	PV's Required		1																
	Total Kgals for Treatment		132,050																
	Ground Water Sweep Unit Cost (\$/Kgal)		\$1.35																
	Subtotal Ground Water Sweep Costs per Wellfield		\$178,346																
	Total Ground Water Sweep Costs		\$178,346																
II. Reverse Osmosis Costs																			
	PV's Required		3																
	Total Kgals for Treatment		396,149																
	Reverse Osmosis Unit Cost (\$/Kgal)		\$0.96																
	Subtotal Reverse Osmosis Costs per Wellfield		\$378,661																
	Total Reverse Osmosis Costs		\$378,661																
III. Chemical Reductant Costs																			
	Total Kgals for Treatment (2 Pore Volumes)		264099																
	Chemical Reductant Unit Cost (\$/Kgal)		\$0.30																
	Subtotal Chemical Reductant Costs per Wellfield		\$79,230																
	Total Chemical Reductant Costs		\$79,230																

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Ground Water Restoration		Mine Unit-27
IV. Elution Costs		
A. Elution Processing Costs		
Kgals/Elution Required	35,000	
Number of Elutions	15	
Processing Unit Cost (\$/Elution)	\$900	
Subtotal Processing Costs per Wellfield	\$13,500	
Total Elution Costs	\$13,500	
B. Deep Well Injection Costs		
Deep Well Injection Volume (Kgals/Elution)	12	
Total Kgals for Injection	180	
Deep Well Injection Unit Cost (\$/Kgals)	\$1.40	
Subtotal Deep Well Injection Costs	\$251	
Subtotal Deep Well Injection Costs per Wellfield	\$13,751	
Total Well Injection	\$13,751	
Total : Elution & Deep Well	\$27,251	
V. Monitoring and Sampling Costs		
A. Active Restoration Period		
Estimated Restoration Period (Years)	2	
1. UCL Sampling		
# of Wells	85	
\$/sample	\$50	
Samples/Year	6	
Sub-total Restoration Analyses	\$51,000	
B. Stability Period		
Estimated Stabilization Period (Years)	1	
1. Full Suite Analyses (Guideline 8)		
# of Wells	40	
Samples/Year	3	
\$/sample	\$200	
2. Short List Analyses		
# of Wells	40	
Samples/Year	9	
\$/sample	\$70	
Sub-total Stability Analyses	\$49,200	
Subtotal Monitoring and Sampling Costs per Wellfield	\$100,200	
Total Monitoring and Sampling Costs	\$100,200	
VI. Mechanical Integrity Test (MIT) Costs		
Five Year MIT Unit Cost (\$/well)	\$188	
Number of Wells (30% of Inj. and Rest. Wells)	172	
Subtotal Mechanical Integrity Testing Costs per Wellfield	\$32,289	
Total Mechanical Integrity Testing Cost	\$32,289	
TOTAL RESTORATION COSTS PER WELLFIELD	\$782,477	
TOTAL WELLFIELD RESTORATION COST	\$782,477	
VII. Building Utility Costs	RR-1	
Electricity (\$/Month)	\$6,000	
Number of Months	36	
Subtotal Utility Costs per Building	\$216,000	

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Ground Water Restoration			Mine Unit-27																
Total Building Utility Costs			\$216,000																
VIII. Vehicle Operation Costs																			
Number of Pickup Trucks/Pulling Units (Gas)			5																
Unit Cost in \$/hr (WDEQ Guideline No.12, Table D-1)			\$20.21																
Average Operating Time (Hrs/Year)			1000																
Total Number of Years (Average)			4																
Total Vehicle Operation Costs			\$404,200																
IX. Labor Costs																			
Number of Environmental Managers/RSOs			1																
\$/Year MV			\$100,000																
Number of Restoration Managers			1																
\$/Year MV			\$80,000																
Number of Environmental Technicians			1																
\$/Year MV			\$34,000																
Number of Operators/Laborers			4																
\$/Year MV			\$34,000																
Number of Maintenance Technicians			1																
\$/Year MV			\$34,000																
Number of Years			4																
Total Labor Costs			\$1,536,000																
IX. Capital Costs																			
Purchase RO Units (1X800 gpm Units)			\$600,000																
Total Capital Costs			\$600,000																
TOTAL GROUND WATER RESTORATION COSTS			\$3,538,677																

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

		DDW	Satellite														
Building Demolition and Disposal		Buildings	SR-2														
I. Decontamination Costs																	
A.	Wall Decontamination																
	Area to be Decontaminated (ft ²)			0		0											
	HCl Acid Wash, including labor (\$/ft ²)			\$0.59		\$0.59											
	Subtotal Wall Decontamination Costs			\$0		\$0											
B.	Concrete Floor Decontamination																
	Area to be Decontaminated (ft ²)			0		9000											
	HCl Acid Wash, including labor (\$/ft ²)			\$0.21		\$0.21											
	Subtotal Concrete Floor Decontamination Costs			\$0		\$1,873											
C.	Deep Well Injection Costs																
	Total Kgals for Injection			0		9											
	Deep Well Injection Unit Cost (\$/Kgals)			\$1.40		\$1.40											
	Subtotal Deep Well Injection Costs			\$0		\$13											
	Subtotal Decontamination Costs per Building			\$0		\$1,886											
	Total Decontamination Costs																
II. Demolition Costs																	
A.	Building																
	Assumptions:																
	Dryer bldg. demolition unit cost of \$0.73/ft ³ for additional radiation safety equipment																
	Volume of Building (ft ³)			660.3		402,000											
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)			\$0.178		\$0.178											
	Subtotal Building Demolition Costs			\$118		\$71,556											
B.	Concrete Floor																
	Area of Concrete Floor (ft ²)			0		13400											
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)			\$3.17		\$3.05											
	Subtotal Concrete Floor Demolition Costs			\$0		\$40,870											
C.	Concrete Footing																
	Length of Concrete Footing (ft)			0		463											
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)			\$12.22		\$12.22											
	Subtotal Concrete Footing Demolition Costs			\$0		\$5,658											
	Subtotal Demolition Costs per Building			\$118		\$118,084											
	Total Demolition Costs																
III. Disposal Costs																	
A.	Building																
	Volume of Building (cy)			24		14889											
I.	On-Site																
	Assumptions:																
	On-site disposal cost of \$1.25/cy																
	Percentage (%)			100		100											
	Volume for Disposal (cubic yards)			24		14889											
	Disposal Unit Cost (\$/cy)			\$1.25		\$1.25											
	Subtotal On-Site Disposal Costs			\$31		\$18,611											

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

			DDW	Satellite			
Building Demolition and Disposal			Buildings	SR-2			
2.	NRC-Licensed Facility						
	Percentage (%)		0	0			
	Volume for Disposal (ft ³)		0	0			
	Volume for Disposal Assuming 10% Void Space (ft ³)		0	0			
	Transportation and Disposal Unit Cost (\$/ft ³)		\$12.33	\$12.33			
	Subtotal NRC-Licensed Facility Disposal Costs		\$0	\$0			
	Subtotal Building Disposal Costs		\$31	\$18,611			
B.	Concrete Floor						
	Area of Concrete Floor (ft ²)		0	13400			
	Average Thickness of Concrete Floor (ft)		0.75	0.75			
	Volume of Concrete Floor (ft ³)		0	10050			
	Volume of Concrete Floor (cy)		0	372			
I.	On-Site						
	Percentage (%)		0	75			
	Volume for Disposal (cy)		0	279			
	Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)		\$6.39	\$6.39			
	Subtotal On-Site Disposal Costs		\$0	\$1,784			
2.	NRC-Licensed Facility						
	Assumptions:						
	Additional \$2.60/cy for segregation of concrete						
	Percentage (%)		0	25			
	Volume for Disposal (ft ³)		0	2513			
	Segregation and Loading Unit Cost (\$/ft ³)		\$2.60	\$2.60			
	Transportation and Disposal Unit Cost (\$/ft ³)		\$12.33	\$12.33			
	Subtotal NRC-Licensed Facility Disposal Costs		\$0	\$37,512			
	Subtotal Concrete Floor Disposal Costs		\$0	\$39,296			
C.	Concrete Footing						
	Length of Concrete Footing (ft)		0	463			
	Average Depth of Concrete Footing (ft)		4	4			
	Average Width of Concrete Footing (ft)		1	1			
	Volume of Concrete Footing (ft ³)		0	1852			
	Volume of Concrete Footing (cy)		0	69			
	Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)		\$6.39	\$6.39			
	Subtotal Concrete Footing Disposal Costs		\$0	\$438			
	Subtotal Disposal Costs per Building		\$31	\$58,345			
	Total Disposal Costs						
IV. Health and Safety Costs							
	Radiation Safety Equipment RSO removed per item cost and generated one lump sum cost!		\$0	\$1,000			
	Total Health and Safety Costs						
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS			\$149	\$179,315			
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS			\$179,464				

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Building Demolition and Disposal			
I. Decontamination Costs			
A. Wall Decontamination			
Area to be Decontaminated (ft ²)			
HCl Acid Wash, including labor (\$/ft ²)			
Subtotal Wall Decontamination Costs			
B. Concrete Floor Decontamination			
Area to be Decontaminated (ft ²)			
HCl Acid Wash, including labor (\$/ft ²)			
Subtotal Concrete Floor Decontamination Costs			
C. Deep Well Injection Costs			
Total Kgals for Injection			
Deep Well Injection Unit Cost (\$/Kgals)			
Subtotal Deep Well Injection Costs			
Subtotal Decontamination Costs per Building			
Total Decontamination Costs			
II. Demolition Costs			
A. Building			
Assumptions:			
Dryer bldg. demolition unit cost of \$0.73/ft ³ for additional radiation safety equipment			
Volume of Building (ft ³)			
Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)			
Subtotal Building Demolition Costs			
B. Concrete Floor			
Area of Concrete Floor (ft ²)			
Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ²)			
Subtotal Concrete Floor Demolition Costs			
C. Concrete Footing			
Length of Concrete Footing (ft)			
Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)			
Subtotal Concrete Footing Demolition Costs			
Subtotal Demolition Costs per Building			
Total Demolition Costs			
III. Disposal Costs			
A. Building			
Volume of Building (cy)			
1. On-Site			
Assumptions:			
On-site disposal cost of \$1.25/cy			
Percentage (%)			
Volume for Disposal (cubic yards)			
Disposal Unit Cost (\$/cy)			
Subtotal On-Site Disposal Costs			

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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Building Demolition and Disposal									
	2.	NRC-Licensed Facility							
			Percentage (%)						
			Volume for Disposal (ft ³)						
			Volume for Disposal Assuming 10% Void Space (ft ³)						
			Transportation and Disposal Unit Cost (\$/ft ³)						
			Subtotal NRC-Licensed Facility Disposal Costs						
			Subtotal Building Disposal Costs						
	B.	Concrete Floor							
			Area of Concrete Floor (ft ²)						
			Average Thickness of Concrete Floor (ft)						
			Volume of Concrete Floor (ft ³)						
			Volume of Concrete Floor (cy)						
	1.	On-Site							
			Percentage (%)						
			Volume for Disposal (cy)						
			Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)						
			Subtotal On-Site Disposal Costs						
	2.	NRC-Licensed Facility							
			Assumptions:						
			Additional \$2.60/cy for segregation of concrete						
			Percentage (%)						
			Volume for Disposal (ft ³)						
			Segregation and Loading Unit Cost (\$/ft ³)						
			Transportation and Disposal Unit Cost (\$/ft ³)						
			Subtotal NRC-Licensed Facility Disposal Costs						
			Subtotal Concrete Floor Disposal Costs						
	C.	Concrete Footing							
			Length of Concrete Footing (ft)						
			Average Depth of Concrete Footing (ft)						
			Average Width of Concrete Footing (ft)						
			Volume of Concrete Footing (ft ³)						
			Volume of Concrete Footing (cy)						
			Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)						
			Subtotal Concrete Footing Disposal Costs						
			Subtotal Disposal Costs per Building						
			Total Disposal Costs						
	IV. Health and Safety Costs								
			Radiation Safety Equipment RSO removed per item cost and generated						
			one lump sum cost!						
			Total Health and Safety Costs						
			SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS						
			TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS						

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SURETY ESTIMATE REVISION

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POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Wellfield Buildings and Equipment Removal and Disposal										Mine Unit-27											
	Subtotal Building Demolition Costs										\$24										
B.	Survey and Decontamination																				
	Assumptions:																				
	Cost per Header House										\$312										
	Subtotal Survey and Decontamination Costs										\$3,428										
C.	Disposal																				
	Total Volume (cy)										5										
	Volume for Disposal Assuming 10% Void Space (cy)										6										
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft³)										\$6.39										
	Subtotal On-Site Disposal Costs										\$38										
	Header House Removal and Disposal Costs per Wellfield										\$3,490										
	Total Header House Removal and Disposal Costs										\$3,490										
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD												\$83,531									
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS												\$83,531									

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Well Abandonment		Mine Unit-27												
I.	Well Abandonment (Wellfields)													
	# of Production Wells	205												
	# of Injection Wells	572												
	# of Monitoring Wells	85												
	Total Number of Wells	862												
	Average Diameter of Casing (inches)	5												
	Average Depth (ft)	860												
	Well Abandonment Unit Cost (\$/well)	\$381												
	Subtotal Abandonment Cost per Wellfield	\$328,482												
	Total Wellfield Abandonment Costs	\$328,482												
II.	Waste Disposal Well Abandonment	DDW RR1												
A.	Well Plugging													
	All lump sum costs													
	Subtotal Well Plugging Costs per Well - based on current DDW Permit	\$71,342												
B.	Pump Dismantling and Decontamination													
	Number of Persons	2												
	Number of Pumps	2												
	Pumps/Day	0.5												
	Number of Days	4												
	\$/Day/Person	\$136												
	Subtotal Dismantling and Decon Costs per Well	\$1,091												
C.	Tubing String Disposal (NRC-Licensed Facility)													
	Length of Tubing String (ft)	10100												
	Diameter of Tubing String (inches)	2.875												
	Volume of Tubing String (ft ³)	455												
	Transportation and Disposal Unit Cost (\$/ft ³)	\$12.33												
	Subtotal Tubing String Disposal Costs per Well	\$5,611												
	Subtotal Waste Disposal Well Abandonment Costs per Well	\$78,044	\$0		\$0									
	Total Waste Disposal Well Abandonment Costs	\$78,044												
TOTAL WELL ABANDONMENT COSTS		\$406,526												

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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Wellfield and Satellite Surface Reclamation		Mine Unit-27
I.	Wellfield Pattern Area, Laydown Area, and Road Reclamation	
	Area (acres)	50.0
	Disking/Seeding Unit Cost (\$/acre)	\$280
	Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs	\$14,000
	Total Wellfield Area Reclamation Costs	\$14,000
II.	Satellite Area Reclamation	RR-1
	Assumptions:	
	Area of Disturbance (acres)	3
	Average Depth of Stripped Topsoil (ft)	1
	Surface Grade: Level Ground	
	Average Length of Topsoil Haul (ft)	1000
	A. Ripping Overburden with Dover	
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)	\$814.22
	Subtotal Ripping Costs	\$2,443
	B. Topsoil Application with Scraper	
	Volume of Topsoil Removed (cy)	4840
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)	\$0.71
	Subtotal Topsoil Application Costs	\$3,436
	C. Discing and Seeding	
	Discing/Seeding Unit Cost (\$/acre)	\$280
	Subtotal Discing/Seeding Costs	\$840
	Subtotal Surface Reclamation Costs per Satellite	\$6,719
	Total Satellite Building Area Reclamation Costs	\$6,719
III	Surface Reclamation	Mine Unit-27
	A. Removal and disposal of contaminated soil around wells	
	Volume of contaminated soil (0.37 yd3 per injection and production well - estimate)	287.49
	Disposal of contaminated soil (\$/yd3) (As per Byproduct Material contract)	\$12.33
	Equipment (Backhoe \$65/hr)	\$9,343.43
	Labor (1 man-hour (\$17/hr) per 2 Yd3 - estimate)	\$2,443.67
	Subtotal removal and disposal of contaminated soil	\$11,799.42
	Total	\$11,799.42
	B. Disc and seeding	
	Disc and seeding (est. \$280/acre)	\$280.00
	Subtotal Recontour and Seeding	\$14,000.00
	Total	\$14,000.00
	Total Surface Reclamation	\$25,799
	Total	\$46,518

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Miscellaneous Reclamation									
I. CPP/Office Area/Pilot Plant/Maint. Shop/Chem. Storage/Yard Reclamation									
	Assumptions								
	Concrete Pad= 0.3 acres								
	Total Area = 10.57 acres								
A.	Concrete Pad								
	Area of Concrete Pad (ft ²)					0			
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ²)					\$3.40			
	Average Thickness of Concrete Floor (ft)					0.50			
	Volume of Concrete Floor (ft ³)					0			
	Volume of Concrete Floor (cy)					0			
	On-Site Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)					\$5.00			
	Subtotal Concrete Pad Demolition and Disposal Costs					\$0			
B.	Gravel Road Base Removal								
	Assumptions								
	Average haul distance (ft)					0			
	Gravel Road Base Width (ft)								
	Gravel Road Base Area (acres)					0.0			
	Average Road Base Depth (ft)					0.5			
	Volume of Road Base (cy)					0			
	Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$0.87			
	Subtotal Gravel Road Base Removal Costs					\$0			
B.	Ripping Overburden with Dozer								
	Overburden Surface Area (acres)					0.0			
	Ripping Unit Cost per WDEQ Guideline No.12, App.II (\$/acre)					\$814.22			
	Subtotal Ripping Overburden Costs					\$0			
C.	Topsoil Application								
	Assumptions:								
	Area of surface disturbance (ft ²)					0			
	Average thickness of topsoil (ft)					1			
	Average haul distance (ft)					0			
	Surface grade (%)					0%			
	Volume of Topsoil (cy)					0			
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$1.12			
	Subtotal Topsoil Application Costs					\$0			
D.	Discing/Seeding								
	Assumptions								
	Surface Area (acres)					0			
	Discing/Seeding Unit Cost (\$/acre)					\$280			
	Total Discing/Seeding Costs					\$0			
	Total CPP/Office/Yard Area Reclamation					\$0			
II. Access Road Reclamation						RR-1 Access	Access to WF		
A.	Assumptions								
	Surface grade					1%	1%		
	Length of Road (ft)					1000	12000		
	Width of Road (ft)					40	14		
	Area of road (acres)					0.9	3.9		
B.	Gravel Road Base Removal								
	Assumptions								
	Average haul distance (ft)					1000	1000		
	Gravel Road Base Width (ft)					30	10		
	Gravel Road Base Area (acres)					0.69	2.75		
	Average Road Base Depth (ft)					0.5	0.5		
	Volume of Road Base (cy)					556	2222		
	Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$0.87	\$0.87		
	Subtotal Gravel Road Base Removal Costs					\$481	\$1,924		
C.	Ripping Overburden with Dozer								
	Overburden Surface Area (acres)					0.9	3.9		
	Ripping Unit Cost per WDEQ Guideline No.12, App.II (\$/acre)					\$814.22	\$814.22		
	Subtotal Ripping Overburden Costs					\$741	\$3,135		
D.	Topsoil Application								
	Assumptions								
	Average haul distance (ft)					1500	1500		
	Topsoil Surface Area (ft ²)					39639.6	167706		
	Depth of Topsoil (ft)					0.5	0.5		
	Volume of Topsoil (cy)					734	3106		
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$1.50	\$0.82		
	Subtotal Topsoil Application Costs					\$1,101	\$2,547		
E.	Discing/Seeding								
	Assumptions								

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Miscellaneous Reclamation									
			Surface Area (acres)			0.9	3.9		
			Discing/Seeding Unit Cost (\$/acre)			\$280	\$280		
			Subtotal Discing/Seeding Costs			\$255	\$1,078		
			Subtotal Reclamation Costs per Access Road			\$2,578	\$8,684		
			Total Access Road Reclamation Costs			\$11,262			
III.	Trunk Lines					Trunk Line #1 (RR-1 to MU27)	Trunk Line #2 (MU27 to HH)		
			Length of Trench (ft)			22000	11000		
A.	Removal and Loading								
			Main Pipeline Removal Unit Cost (\$/ft of trench)			\$0.91	\$0.91		
			Subtotal Trunkline Removal and Loading Costs			\$20,020	\$10,010		
B.	Transport and Disposal Costs (NRC-Licensed Facility)								
			1 2" HDPE Trunkline						
			Piping Length (ft)			0	0		
			Chipped Volume Reduction (ft³/ft)			0.005	0.005		
			Chipped Volume (ft³)			0	0		
			1. 3" HDPE Trunkline						
			Piping Length (ft)			0	0		
			Chipped Volume Reduction (ft³/ft)			0.022	0.022		
			Chipped Volume (ft³)			0	0		
			2. 6" HDPE Trunkline						
			Piping Length (ft)			0	0		
			Chipped Volume Reduction (ft³/ft)			0.078	0.078		
			Chipped Volume (ft³)			0	0		
			3. 8" HDPE Trunkline						
			Piping Length (ft)			0	11000		
			Chipped Volume Reduction (ft³/ft)			0.15	0.15		
			Chipped Volume (ft³)			0	1650		
			3. 10" HDPE Trunkline						
			Piping Length (ft)			0	0		
			Chipped Volume Reduction (ft³/ft)			0.277	0.277		
			Chipped Volume (ft³)			0	0		
			4. 12" HDPE Trunkline						
			Piping Length (ft)			0	0		
			Chipped Volume Reduction (ft³/ft)			0.293	0.293		
			Chipped Volume (ft³)			0	0		
			5. 14" HDPE Trunkline						
			Piping Length (ft)			0	0		
			Chipped Volume Reduction (ft³/ft)			0.359	0.359		
			Chipped Volume (ft³)			0	0		
			5. 16" HDPE Trunkline						
			Piping Length (ft)			0	0		
			Chipped Volume Reduction (ft³/ft)			0.4	0.4		
			Chipped Volume (ft³)			0	0		
			6 18" HDPE Trunkline						
			Piping Length (ft)			22000	0		
			Chipped Volume Reduction (ft³/ft)			0.47	0.47		
			Chipped Volume (ft³)			10340	0		
			Total Pipeline Disposal Volume			10340	1650		
			Volume for Disposal Assuming 10% Void Space (ft³)			11374	1815		
			Transportation and Disposal Unit Cost (NRC-Licensed Facility) (\$/ft³)			\$12.33	\$12.33		
						\$140,241	\$22,379		
C.	Discing/Seeding Assumptions:								
			Width of Pipeline Trench (ft)			4	4		
			Area of Pipeline Trench (acres)			2.0	1.0		
			Discing/Seeding Unit Cost (\$/acre)			\$280	\$280		
			Subtotal Discing/Seeding Costs			\$566	\$283		
			Subtotal Reclamation Costs per Pipeline			\$160,827	\$32,672		
			Total Pipeline Reclamation Costs			\$193,499			
IV.	Settling Basin/Evap. Pond Reclamation					Evaporation Pond	SettlingPond		
A.	Soil Sampling and Monitoring								
			Number of Soil Samples			0	0		
			\$/Sample			\$50	\$50		
			Subtotal Soil Sampling and Monitoring Costs			\$0	\$0		

Miscellaneous Reclamation					
B. Liner/Subsoil Removal and Disposal					
Assumptions:					
Clay liner and subsoil constitute by-product material					
Thickness of clay liner (ft)			0	0	
Thickness of contaminated subsoil (ft)			0	0	
Removal and Loading Unit Cost based on engineer's design report and Cat Performance Handbook					
Width of Pond (ft)			0	0	
Length of Pond (ft)			0	0	
Depth of Pond (ft)			0	0	
Surface area of pond (ft ²)			0	0	
1. Removal and Loading (Settling Pond is not By-Product, therefore can stay in place)					
Volume of Clay Liner (cy)			0	0	
Clay Liner Removal and Loading Unit Cost (\$/cy)			\$3.63	\$3.63	
Subtotal Liner Removal and Loading Costs			\$0	\$0	
2. Transportation and Disposal					
Volume of Clay Liner (ft ³)			0	0	
Volume of Geotextile Liner (ft ³)			0	0	
Volume of Geotextile Liner @ 40% void (ft ³)			0	0	
Transportation and Disposal Unit Cost (\$/ft ³) (As per byproduct material contract)			\$12.33	\$12.33	
Subtotal Liner Transportation and Disposal Costs			\$0	\$0	
Subtotal Liner Removal and Disposal Costs			\$0	\$0	
C. Grade and Contour					
Volume of Embankment Material (CY)			0	0	
Average Grade (%)			0	0	
Distance (ft)			0	0	
Material Moving Unit Cost per WDEQ Guideline No.12, App.E (\$/cy)			\$0.092	\$0.161	
Subtotal Grade and Contour Costs			\$0	\$0	
C. Topsoil Application					
Assumptions:					
Area of surface disturbance (ft ²)			0	0	
Average thickness of topsoil (ft)			0	0	
Average haul distance (ft)			0	0	
Surface grade (%)			0%	3%	
Volume of Topsoil (cy)			0	0	
Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)			\$1.12	\$1.12	
Subtotal Topsoil Application Costs			\$0	\$0	
D. Discing/Seeding					
Assumptions:					
Area of surface disturbance (acres)			0.0	0.0	
Discing/Seeding Unit Cost (\$/acre)			\$280	\$280	
Subtotal Discing/Seeding Costs			\$0	\$0	
Subtotal Reclamation Costs per Pond			\$0	\$0	
Total Settling Basin/Evap. Ponds Reclamation Costs			\$0		
V. Miscellaneous Structures					
A. Potable Water Wells					
Total Depth (ft) (1- 5-inch Diameter Wells, @ 750 ft)			700		
Well Abandonment Unit Cost (\$/100 ft) - per State Engineers Office			\$63.10		
Subtotal Potable Water Wells Abandonment Costs			\$441.70		
B. Fuel Area					
Concrete Floor					
Area of Concrete Floor (ft ²)					
Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ²)			\$3.40		
Subtotal Concrete Floor Demolition Costs			\$0		
Concrete Footing					
Length of Concrete Footing (ft)			0		
Demolition Unit Cost per WDEQ Guide. No.12,App.K (\$/lin. ft)			\$12.22		
Subtotal Concrete Footing Demolition Costs			\$0		
Subtotal Fuel Area Costs			\$0		
Total Miscellaneous Structures Reclamation Costs			\$441.70		
TOTAL MISCELLANEOUS RECLAMATION COSTS			\$205,203		

CLAY LINER REMOVAL AND LOADING					
Clay Liner Removal and Loading Cost					
Labor =	17	per hour			Based on current labor rates
Trackhoe =	\$ 1,125.00	per week or	\$ 28.13	per hour	All Inclusive, based on current rental rates
Belly Dump with Operator =	\$ 100.00	per hour			Based on current contractor pricing
Belly Dump Size =	20	cubic yards			
Disposal Rate =	40	yards/hour			Estimate based on experience
TOTAL REMOVAL AND LOADING	\$ 3.63	per cubic yard			

WELLFIELD BUILDING REMOVAL AND DEMO											
Cost per Well Head Cover											
	Env. Scanner	17	per hour			Based on current labor rates					
	Operator =	17	per hour			Based on current labor rates					
	Total Wellhead	2300									
	HCl 35% Cost	\$ 0.137	per pound			Based on current Univar costs for bulk HCl - April 2007					
	Acid Usage Rate	4.1	pounds per wellhead cover			Estimate based on experience					
	Acid Unit Cost	\$ 0.56	per wellhead cover								
	Total Labor Rate	\$ 39.70	per hour								
	Cleaning Rate	10	wellheads per hour			Estimate based on experience					
	Survey / Deco	\$ 3.97	per wellhead cover								
Cost per Header House											
	Env. Scanner	17	per hour			Based on current labor rates					
	Operator =	17	per hour			Based on current labor rates					
	Number of Ops	2				Based on experience					
	HCl 35% Cost	\$ 0.137	per pound			Based on current Univar costs for bulk HCl - April 2007					
	Acid Usage Rate	20	pounds per header house			Estimate					
	Acid Unit Cost	\$ 2.74	per header house								
	Total Labor Rate	\$ 311.64	per hour								
	Cleaning Rate	1	header house per day			Estimate based on experience					
	Survey / Deco	\$ 311.64	per header house								

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ACID WASH							
Current acid cost is \$275/ ton or .1375per lb.							
Commercial Concentrated acid is 37%							
Assume a 10% wash solution the price of the wash solution is \$.012 per gallon							
Assume that .25 gallon of acid wash is used per sq ft. to clean walls.							
Assume that 1 gallon of acid wash is used per sq ft. to clean floors.							
Using the square footage supplied in the bond the following assumptions were used to							
generate the cost per square ft multiplier.							
Using the CPP IX and Plant square footages the assumption is as follows							
Acid Wash (Walls)							
Labor	2	Men	Bond CPP IX and CPP sq. footage				
Rate	\$17	hr.					
Time	20	8hr. Days					
Man Lift Rental	\$8,900.00	Month					
Labor Cost per sq. ft.	\$0.54						
Acid	\$0.003						
Consumables	\$0.05						
Total	\$0.59						
Acid Wash (Floors)							
Labor	2	Men	Bond CPP IX and CPP sq. footage				
Rate	\$17	hr.					
Time	15	8hr. Days					
Labor Cost per sq. ft.	\$0.15						
Acid	\$0.01						
Consumables	\$0.05						
Total	\$0.21						

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RADIUM TREATMENT					
HUP SURETY ONLY					
Assumptions:					
1.	Based on actual operating costs				
Radium Treatment Costs per 1000 Gallons					
	Chemical	= \$	0.177		
	Filtration	= \$	0.021		
	Electricity	= \$	0.048		
	By Product Disposal of Sludge	= \$	0.097		
TOTAL RADIUM TREATMENT COSTS PER 1000 GALLONS		= \$	0.34		

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GROUNDWATER SWEEP (GWS)											
Assumptions:											
1. All pumps are 5 hp pumping at 5.0 gpm											
2. Cost of electricity from Recurring Cost Sheet											
3. All water pumped is disposed at WDW with a 20 hp pump											
4. Repair and maintenance costs estimated at \$0.50/1000 gallons, Operator Experience											
5. Process sampling and analysis costs estimated at \$0.03/1000 gallons, Operator Experience											
6. Labor costs are not included											
Wellfield Pumping Costs per 1000 Gallons											
1000 gal	X	5 hp	X	1 hr	X	0.746 kwh	X	\$ 0.048	= \$	0.60	
		5 gpm		60 min		hp		kwh			
Pumping to WDW Costs per 1000 Gallons											
1000 gal	X	75 hp	X	1 hr	X	0.746 kwh	X	\$ 0.048	= \$	0.22	
		200 gpm		60 min		hp		kwh			
Repair and Maintenance Costs per 1000 Gallons										= \$	0.5
Process Sampling and Analysis Costs per 1000 Gallons										= \$	0.03
TOTAL GWS COSTS PER 1000 GALLONS										= \$	1.35

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REVERSE OSMOSIS (RO)									
Assumptions:									
1.	Cost of electricity from Recurring Cost Sheet								
2.	75% permeate/25% reject split								
3.	Membrane life of 5 years with a cost of \$700 per membrane element								
4.	Includes cost of pumping from wellfield to RO Unit								
5.	Process sampling and analysis costs estimated at \$0.03/1000 gallons - Operator Experience								
6.	Labor costs are not included								
Reverse Osmosis Costs per 1000 Gallons					Chemical Costs				
	Electricity				= \$ 0.48				
	Chemicals				= \$ \$0.13	Scale Inhibitor	\$2.00	\$/lb	
	Membrane Replacement				= \$ \$0.06	Dose Rate	6.75	ppm	
	Repair and Maintenance				= \$ 0.26	RO Flow	400	gpm	
	Process Sampling and Analysis				= \$ 0.03				
						lbs scale/1000gal	0.056330727		
TOTAL RO COSTS PER 1000 GALLONS					= \$ 0.96				
						Cost per 1000 gal	\$0.11		
						Cleaning Chemicals	0.02		
						Total Chemical Cost	\$0.13		
						Membrane Replacement			
						For 400gpm RO	400		
						Number of membranes	96		
						Cost per Membrane	\$600.00		
						Years of Life	5		
						Labor to Change Membrane	\$480.00		
						Cost per 1000 gal	\$0.06		

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CHEMICAL REDUCTANT														
Assumptions:														
1. Bioremediation is utilized														
2. Based on actual operating costs during restoration activities														
3. Added the cost of using cheese whey														
TOTAL CHEMICAL REDUCTANT COSTS PER Kgal = \$ 0.30														

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ELUTION PROCESSING																			
Assumptions:																			
1. Based on actual operating costs																			
TOTAL PROCESSING COSTS PER ELUTION										= \$ 900									

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DEEP WELL INJECTION											
Assumptions:											
1. Pump 150 hp pumping at 100 gpm											
2. Cost of electricity from Recurring Cost Sheet											
3. Repair and maintenance costs based on average injection volume of 8,000,000 gallons per year											
4. Repair and maintenance costs estimated at \$.50/1000 gallons, Operator Experience											
5. Chemical costs based on average injection volume of 8,000,000 gallons per year											
6. Labor costs are not included											
Waste Disposal Pumping Costs per 1000 Gallons											
1000 gal	X	150 hp	X	1 hr	X	0.746 kwh	X	\$ 0.048	= \$ 0.90		
		100 gpm		60 min		hp		kwh			
Repair and Maintenance Costs per 1000 Gallons									= \$ 0.5		
TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS									= \$ 1.40		

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WELL ABANDONMENT									
Assumptions:									
1 Typical 8 hour working day									
2 Trackhoe for 8.0 hr/day to dig and reclaim pit									
3 Use hose reel for 8 hr/day to pull equipment from well									
4 Use cementer for 8.0 hr/day to pump cement/plug gel									
5 Use tow vehicle for 8.0 hr/day to tow hose reel and cementer									
6 Labor for backhoe, hose reel, cementer will require 3 workers at 8.0 hr/day									
Materials include 7.5 sacks of cement/100 ft and 1 sack of plug gel/100 ft of 5" well casing.									
Cost of cement is \$7.62 and plug gel cost is \$6.45/sack.									
Cement costs for 2007 = GCC Dakota Cement; Plug gel costs for 2007 = Casper Well Products									
Fixed Costs									
Trackhoe									
	8 hours	X	\$ 28.13	per hour				= \$	225.00
Hose Reel/Tow Vehicle									
	8 hours	X	\$ 45	per hour				= \$	360.00
Cementer									
	8 hours	X	\$ 45	per hour				= \$	360.00
Tow Vehicle									
	8 hours	X	\$ 45	per hour				= \$	360.00
Labor									
3 men=	24 man	X	\$ 17	per man				= \$	409.02
	hours			hour					
Total Fixed Costs per 8.0 hr/day								= \$	1714.02
Variable Costs (per 100 ft of well depth)									
Materials									
	7.5 sack cement	X	\$ 7.62	per sack				= \$	57.15
	per 100 feet								
	1 sack plug gel	X	\$ 6.45	per ho				= \$	6.45
	per 100 feet			plug					

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WELL ABANDONMENT Page 2									
Total materials Cost (per 100 ft of well depth)							\$	63.60	
Total number of wells completed per/day									
6									
Cost per Well per Unit of Average Depth									
Well Depth (ft)									
450							= \$	333	
500							= \$	339	
550							= \$	344	
600							= \$	349	
650							= \$	355	
700							= \$	360	
750							= \$	365	
800							= \$	370	
850							= \$	376	
900							= \$	381	
950							= \$	386	

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FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)									
Assumptions:									
1	Pulling Unit for 8.0 hr/day per Recurring Cost Sheet								
2	MIT Unit for 8.0 hr/day per Recurring Cost Sheet								
3	Labor for operation of pulling unit will require 2 workers at \$17/hr								
4	Labor for operation of MIT Unit will require 1 worker at \$17/hr								
5	Average wells plugged per day is 6								
MIT Costs per Well									
Equipment:									
	Pulling Unit								
	8 hours	X	\$ 45	per hour				= \$	360.00
	MIT Unit								
	8 hours	X	\$ 45	per hour				= \$	360.00
Labor:									
	Pulling Unit								
	8 hours	X	\$ 17.04	per hour	X	2 workers		= \$	\$272.68
	MIT Unit								
	8 hours	X	\$ 17.04	per hour				= \$	136.34
	TOTAL MIT COST PER DAY = \$ 1129.00								
	Wells Completed 6 per day								
	MIT COSTS PER WELL = \$ 188.17								

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MAIN PIPELINE REMOVAL									
Assumptions:									
1.	Trenching with trackhoe at 750 ft/day								
2.	Pipeline extraction and backfilling with trackhoe at 750 ft/day								
3.	Trackhoe rental: \$1,125/week all inclusive fuel, maintenance, mob								
5.	Trackhoe operation requires 1 worker at \$17/hour								
6.	Pipeline extraction requires 2 workers at \$17/hour (in addition to trackhoe operator)								
7.	Pipelines removed simultaneously								
8.	Includes removal of manholes								
9.	Operating schedule: 8 hrs/day, 5 days/week								
Main Pipeline Removal Costs per ft of Trench									
Equipment									
Trackhoe									
	\$ 1125	X	1 week	X	1 days	= \$	0.30		
	week		5 days		750 ft				
Labor									
Trackhoe Operation									
	\$ 17	X	8 man hrs	X	1 days	= \$	0.18		
	man hr		1 day		750 ft				
Pipeline Extraction									
	\$ 17	X	16 man hrs	X	2 day	= \$	0.36		
	man hr		1 day		750 ft				
MAIN PIPELINE REMOVAL COST PER FT OF TRENCH = \$ 0.84									

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WELLFIELD PIPING REMOVAL									
Assumptions:									
1. Trenching with backhoe at 1500 ft/day									
2. Pipeline extraction and backfilling with backhoe at 1500/day									
3. Backhoe rental: \$1,125/week, all inclusive fuel, maintenance, mob									
4. Backhoe operation requires 1 worker at \$17/hour									
5. Pipeline extraction requires 2 workers at \$17/hour (in addition to trackhoe operator)									
6. Operating schedule: 8 hrs/day, 5 days/week									
Main Pipeline Removal Costs per ft of Pipe									
Equipment									
Backhoe									
	\$ 1125	X	1 week	X	1 days	= \$	0.15		
	week		5 days		1500 ft				
Labor									
Backhoe Operation									
	\$ 17	X	8 man hrs	X	1 days	= \$	0.09		
	man hr		1 day		1500 ft				
Pipeline Extraction									
	\$ 17	X	16 man hrs	X	1 day	= \$	0.18		
	man hr		1 day		1500 ft				
MAIN PIPELINE REMOVAL COST PER FT OF PIPE							= \$	0.420	

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WELLFIELD ROAD RECLAMATION									
Assumptions (Roads constructed before January 1, 1997):									
1. Gravel road base removed at cost of \$0.86/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)									
2. Gravel road base: average depth = 0.25 ft, average width = 10 ft									
3. Roads scarified prior to topsoil application at cost of \$41.87/acre (WDEQ Guideline No. 12, Appendix P)									
4. Grading of scarified roads prior to topsoil application at cost of \$45.65/acre (WDEQ Guideline No. 12, Appendix G)									
5. Topsoil applied at cost of \$0.866/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)									
6. Stripped topsoil: average depth = 0.67 ft, average width = 25 ft									
7. Discing/seeding cost of \$280/acre is based on actual contractor costs									
Gravel Road Base Removal Costs per 1000 ft of Road									
1000 ft	X	0.25 ft	X	10 ft	X	1 cy 27 ft ³	X	\$0.87 cy	= \$ 80
Scarification Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	1 acre 4.356E+04 ft ²	X			\$41.87 acre	= \$ 24
Grading Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	1 acre 4.356E+04 ft ²	X			\$45.65 acre	= \$ 26
Topsoil Application Costs per 1000 ft of Road									
1000 ft	X	0.67 ft	X	25 ft	X	1 cy 27 ft ³	X	\$0.87 cy	= \$ 537
Discing/Seeding Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	1 acre 4.356E+04 ft ²	X			\$280 acre	= \$ 161
TOTAL WELLFIELD ROAD RECLAMATION COSTS PER									
1000 FT OF ROAD (BEFORE JANUARY 1, 1997)									
									= \$ 828
Assumptions (Roads constructed after January 1, 1997):									
1. Gravel road base will not be removed									
2. Roads scarified prior to topsoil application at cost of \$41.87/acre (WDEQ Guideline No. 12, Appendix P)									
3. Grading of scarified roads prior to topsoil application at cost of \$45.65/acre (WDEQ Guideline No. 12, Appendix G)									
4. Topsoil applied at cost of \$0.86/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)									
5. Stripped topsoil: average depth = 0.4 ft, average width = 20 ft									
6. Discing/seeding cost of \$280/acre is based on actual contractor costs									
Scarification Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	1 acre 4.356E+04 ft ²	X			\$41.87 acre	= \$ 19
Grading Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	1 acre 4.356E+04 ft ²	X			\$45.65 acre	= \$ 21
Topsoil Application Costs per 1000 ft of Road									
1000 ft	X	0.40 ft	X	20 ft	X	1 cy 27 ft ³	X	\$0.87 cy	= \$ 257
Discing/Seeding Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	1 acre 4.356E+04 ft ²	X			\$280 acre	= \$ 129
TOTAL WELLFIELD ROAD RECLAMATION COSTS PER									
1000 FT OF ROAD (AFTER JANUARY 1, 1997)									
									= \$ 426

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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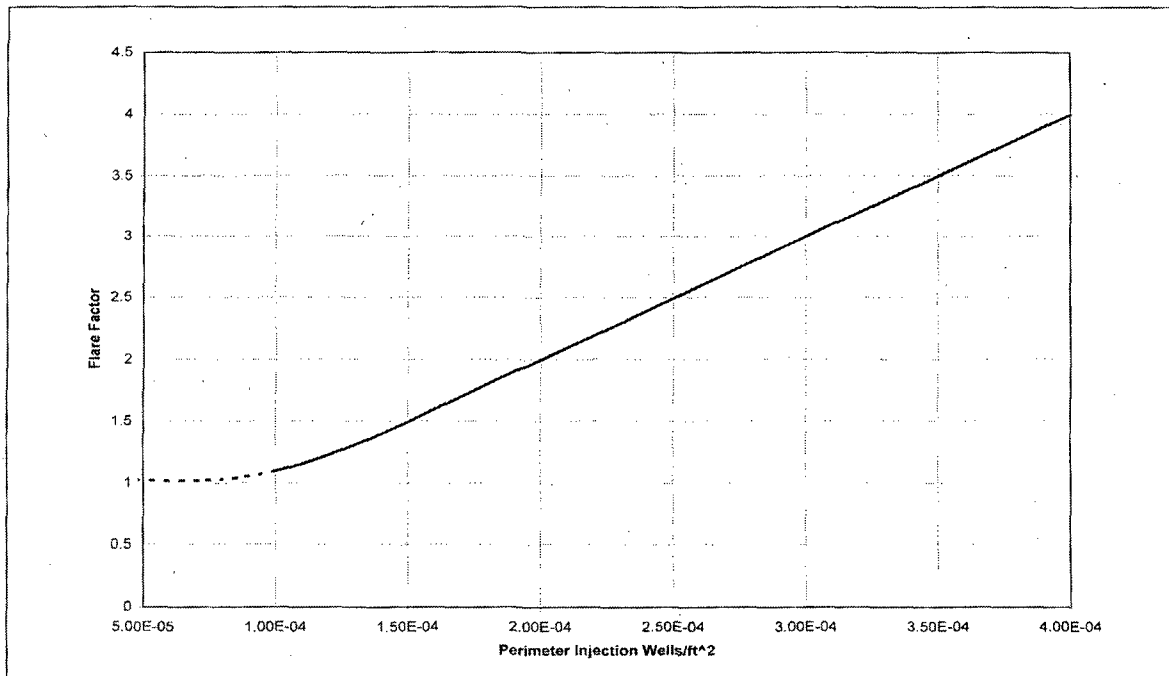
DISKING/SEEDING									
Assumptions:									
1.	Based on actual contractor costs in 2007								
2.	Drill Seeding \$250/Acre - based on contractor estimate 6/2007								
3.	Seed cost \$30/Acre - Based on 5/07 seed costs at SRHUP								
TOTAL DISKING/SEEDING COSTS PER ACRE					= \$ 280.00				

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
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FLARE FACTOR CALCULATION

Assumptions:

1. Flare Factor Conservatively Estimated from Figure 3-16, Lewis Water Consultants, Inc., Oct. 1999 (below)
2. Number of Perimeter Injection Wells per sq.ft. estimated from wellfield spacing, total area, and perimeter area



Lewis Water Consultants
Environmental Research/Engineering/Modeling

RAMC Smith Ranch Facility
Figure 3-16. Predicted wellfield flare factor for RAMC commercial wellfields,
as a function of wellfield scale

Date: 9/14/99

Project: RAMC Wellfield Evaluation

File: land.ppt

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

PORE VOLUME AND RESTORATION TIMING CALCULATION						
Assumptions:						
1. Pore Volumes required for wellfield resoration are conservatively estimated from Table 3-2, Lewis Water Consultants, Inc., Oct. 1999 (below)						
2. Restoration Target is Return to Class of Use, Class I Groundwater (WDEQ)						
3. Conservatively Assumes 1PV groundwater sweep, 3PVs RO with Reductant added to final 2 PVs of RO stream (4PV's total)						
4. Restoration Timing is conservatively estimated at 2 years for all wellfields based on 400 gpm sweep rate and largest wellfield affected volume (Wellfield 15) at Smith Ranch.						
Table 3-2. Predicted Wellfield 1 Restoration Timing						
Constituent	Restoration Target (Background)	Number of Pore Volumes to Meet Target	Time Required to Meet Target (Baseline), days	Restoration Target (Class of use ^a)	Number of Pore Volumes to Meet Target	Time Required to Meet Target (Class-of-Use)days
U	0.168	3.2	150	5	1.8	86
Se	0.001	3.2	150	0.01	2.3	109
Cl	4.176	4.4	210	250	0	0
SO ₄	113.125	3.8	179	250	2.5	117
HCO ₃	228.194	2.3	109	na	na	na
Ca	72.617	3.8	179	na	na	na
Na	22.525	3.2	150	na	na	na
As	0.001	3.0	141	0.05	0	0
B	0.100	3.2	150	0.75	0	0
Fe	0.065	0	0	0.3	0	0
Mn	0.022	4.4	210	0.05	3.4	160
Mg	17.364	3.2	150	na	na	na
K	7.269	3.2	150	na	na	na
F	0.322	3.2	150	2.4	na	na
SiO ₂	16.975	3.2	150	na	na	na
Zn	0.010	3.2	150	5	0	0
^a -- standards listed are for Wyoming Class I ground water, although baseline wellfield ground water does not meet this standard due to excessive radium.						

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Abbreviations/Acronyms						
\$	Dollars					
\$/Kgal	Dollars per 1000 gallons					
avg	average					
ft	feet					
ft ²	square feet					
ft ³	cubic feet					
gal	gallon					
gpm	gallons per minute					
H&S	Health and Safety					
H ₂ S	Hydrogen Sulfide					
H ₂ SO ₄	Sulfuric Acid					
HCl	Hydrochloric Acid					
Hp	Horsepower					
Kgal	1000 gallons					
Kwh	Kilowatt-hours					
NaOH	Caustic Soda					
OD	Outside Diameter					
PPE	personal protective equipment					
PV	Pore Volume Estimate					
reqm't	requirement					
RO	Reverse Osmosis					
WDW	Waste Disposal Well					
yd ³	cubic yards					
yr	year					