POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
SURETY ESTIMATE
FIRST YEAR OF OPERATION

Total Restoration and Reclamation Cost Estimate		
I.	GROUNDWATER RESTORATION COST	$3,517,068
II.	EQUIPMENT REMOVAL & DISPOSAL COST	$133,000
III.	BUILDING DEMOLITION AND DISPOSAL COST	$780,342
IV.	WELLFIELD BUILDINGS & EQUIPMENT REMOVAL & DISPOSAL COST	$53,065
V.	WELL ABANDONMENT COST	$161,505
VI.	WELLFIELD AND SATELLITE SURFACE RECLAMATION	$7,952
VII.	TOTAL MISCELLANEOUS RECLAMATION COST	$158,517
	SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE	$4,811,449
	CPI ESCALATOR- July 1,1998 to Feb. 28, 2006 (21.75%)	
	SUBTOTAL	$4,811,449
	ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)	$1,202,862
	TOTAL	$6,014,311
	TOTAL CALCULATED SURETY (IN 2006 DOLLARS)	**$6,014,300**

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
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Ground Water Restoration					**Mine Unit-1**
PV Assumptions					
	Wellfield Area (ft2)				1,050,576
	Wellfield Area (acres)				24.1
	Affected Ore Zone Area (ft2)				1,050,576
	Avg. Completed Thickness				17
	Porosity				0.27
	Flare Factor				1.5
	Affected Volume (ft3)				26,789,688
	Kgallons per Pore Volume				54,104
Number of Patterns in Unit(s)					
	Current				101
	Estimated next report period				0
	Total Estimated				101
Number of Wells in Unit(s)					
	Production Wells				
	Current				101
	Estimated next report period				0
	Total Estimated				101
	Injection Wells				
	Current				175
	Estimated next report period				0
	Total Estimated				175
	Monitoring Wells				
	Current				38
	Estimated next report period				0
	Total Estimated				38
	Number of Wells per Wellfield				314
	Total Number of Wells				
	Average Well Depth (ft)				750
I.	**Ground Water Sweep Costs**				
	PV's Required				1
	Total Kgals for Treatment				54,104
	Ground Water Sweep Unit Cost ($/Kgal)				$1.35
	Total Ground Water Sweep Costs				**$73,073**
II.	**Reverse Osmosis Costs**				
	PV's Required				4
	Total Kgals for Treatment				216,418
	Reverse Osmosis Unit Cost ($/Kgal)				$0.60
	Total Reverse Osmosis Costs				**$129,418**
III.	**Chemical Reductant Costs**				
	Total Kgals for Treatment (2 Pore Volumes)				108209
	Chemical Reductant Unit Cost ($/Kgal)				$0.32

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
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Ground Water Restoration									**Mine Unit-1**
	Total Chemical Reductant Costs								**$34,627**
IV.	**Elution Costs**							OUT	
	A.	Elution Processing Costs							
			Kgals/Elution Required						35,000
			Number of Elutions						8
			Processing Unit Cost ($/Elution)						$525
		Subtotal Processing Costs							$4,200
	B.	Deep Well Injection Costs							
			Deep Well Injection Volume (Kgals/Elution)						12
			Total Kgals for Injection						96
			Deep Well Injection Unit Cost ($/Kgals)						$1.39
		Subtotal Deep Well Injection Costs							$133
	Total Elution Costs								**$4,333**
V.	**Monitoring and Sampling Costs**								
	A.	Active Restoration Period							
		Estimated Restoration Period (Years)							5
		1.	UCL Sampling						
				# of Wells					36
				$/sample					$50
				Samples/Year					6
		Sub-total Restoration Analyses							$54,000
	B.	Stability Period							
		Estimated Stabilization Period (Years)							1
		1.	Full Suite Analyses						
			# of Wells						10
			Samples/Year						3
			$/sample						$200
		2.	Short List Analyses						
			# of Wells						10
			Samples/Year						9
			$/sample						$70
		Sub-total Stability Analyses							$12,300
	Total Monitoring and Sampling Costs								**$66,300**
VI.	**Mechanical Integrity Test (MIT) Costs**								
		Five Year MIT Unit Cost ($/well)							$180
		Number of Wells (30% of Inj. and Rest. Wells)							53
	Total Mechanical Integrity Testing Cost								**$9,450**
TOTAL WELLFIELD RESTORATION COST									**$312,868**
VII.	**Building Utility Costs**								**Central Plant**

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Ground Water Restoration						**Mine Unit-1**
		Electricity ($/Month)				$8,500
		Natural Gas ($/Month)				$2,500
		Number of Months				48
	Total Building Utility Costs					**$528,000**
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
		Unit Cost in $/hr (July 1998 dollars w/o escalator)			OUT	$0.00
		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				$100,000
		Number of Restoration Managers				1
		$/Year				$80,000
		Number of Environmental Technicians				1
		$/Year				$34,000
		Number of Operators/Laborers				4
		$/Year				$34,000
		Number of Maintenance Technicians				2
		$/Year				$34,000
		Number of Years				4
	Total Labor Costs					**$1,672,000**
X.	**Capital Costs**					
		Purchase RO Unit (1X400 gpm Unit)				$600,000
	Total Capital Costs					**$600,000**
TOTAL GROUND WATER RESTORATION COSTS						**$3,517,068**

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
SURETY ESTIMATE
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Equipment Removal and Loading	CPP Ion Ex. Plant	Central Plant	Dryer Building
I. Removal and Loading Costs			
A. Tankage			
Number of Tanks	13	51	0
Volume of Tank Construction Material (ft^3)	835	1340	300
1. Labor			
Number of Persons	3	3	3
Ft^3/Day	25	25	25
Number of Days	33	54	12
$/Day/Person	$120	$120	$120
Subtotal Labor Costs	$12,030	$19,296	$4,320
2. Equipment			
Number of Days	33	54	12
$/Day	$338	$338	$338
Subtotal Equipment Costs	$11,295	$18,117	$4,056
Subtotal Tankage Removal and Loading Costs	$23,325	$37,413	$8,376
B. PVC/Steel Pipe			
PVC Pipe Footage	2800	5000	
Average PVC Pipe Diameter (inches)	3	3	3
Shredded PVC Pipe Volume Reduction (ft^3/ft)	0.016	0.016	0.016
Volume of Shredded PVC Pipe (ft^3)	45	80	0
Steel Pipe Footage	1100	0	0
Average Steel Pipe Diameter (inches)	6	0	0
Volume (ft^3)	216	0	0
1. Labor			
Number of Persons	2	2	2
Ft/Day	300	300	300
Number of Days	13	17	0
$/Day/Person	$120	$120	$120
Subtotal PVC/Steel Pipe Labor Costs	$3,120	$4,000	$0
Subtotal PVC/Steel Pipe Removal and Loading Costs	$3,120	$4,000	$0
C. Pumps			
Number of Pumps	21	43	0
Average Volume (ft^3/pump)	4.93	4.93	0
Volume of Pumps (ft^3)	103.53	211.99	0
1. Labor			
Number of Persons	1	1	1
Pumps/Day	2	2	2
Number of Days	10.5	21.5	0
$/Day/Person	$120	$120	$120
Subtotal Labor Costs	$1,260	$2,580	$0
Subtotal Pump Removal and Loading Costs	$1,260	$2,580	$0
D. Dryer			
Dryer Volume (ft^3)			200
1. Labor			
Number of Persons	0	0	5
Ft^3/Day	0	0	175
Number of Days	0	0	2
$/Day/Person	$120	$120	$120
Total Labor Cost	$0	$0	$1,200
Total Dryer Dismantling and Loading Cost	$0	$0	$1,200

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
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Equipment Removal and Loading	**CPP Ion Ex. Plant**	**Central Plant**	**Dryer Building**
Subtotal Equipment Removal and Loading Costs per Facility	$27,705	$43,993	$9,576
Total Equipment Removal and Loading Costs	**$81,274**		
II. Transportation and Disposal Costs (NRC-Licensed Facility)			
A. Tankage			
Volume of Tank Construction Material (ft^3)	835	1340	300
Volume for Disposal Assuming 10% Void Space (ft^3)	919	1474	330
Transportation and Disposal Unit Cost ($/$ft^3$)	$12.00	$12.00	$12.00
Subtotal Tankage Transportation and Disposal Costs	$11,028	$17,688	$3,960
B. PVC / Steel Pipe			
Volume of Shredded PVC Pipe (ft^3)	44.8	80	0
Volume for Disposal Assuming 10% Void Space (ft^3)	49	88	0
Volume of Steel Pipe (ft^3)	296	0	0
Volume for Disposal Assuming 10% Void Space (ft^3)	326	0	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$12.00	$12.00	$12.00
Subtotal PVC Pipe Transportation and Disposal Costs	$4,500	$1,056	$0
C. Pumps			
Volume of Pumps (ft^3)	103.53	271	0
Volume for Disposal Assuming 10% Void Space (ft^3)	114	298	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$12.00	$12.00	$12.00
Subtotal Pump Transportation and Disposal Costs	$1,368	$3,576	$0
D. Dryer			
Dryer Volume (ft^3)	0	0	400
Volume for Disposal Assuming Dryer Remains Intact (f^3)	0	0	400
Transportation and Disposal Unit Cost ($/$ft^3$)	$12.00	$12.00	$12.00
Total Dryer Transportation and Disposal Costs	$0	$0	$4,800
Subtotal Equipment Transportation and Disposal Costs per Facility	$16,896	$22,320	$8,760
Total Equipment Transportation and Disposal Costs	**$47,976**		
III. Health and Safety Costs			
Radiation Safety Equipment	$1,250	$1,250	$1,250
Total Health and Safety Costs	**$3,750**		
SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY	$45,851	$67,563	$19,586
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS	**$133,000**		

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
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Building Demolition and Disposal			CPP Ion Ex. Plant	Central Plant	Dryer Building	Office Building	Shop Building	DDW Buildings	Yellowcake Storage	Warehouse Building	Fresh Water Pumphouse
I.	**Decontamination Costs**										
A.	Wall Decontamination										
	Area to be Decontaminated (ft^2)		10,810	15,900	0	0	0	0	3100	0	0
	Application Rate (Gallons/ft^2)	OUT	1	1	1	1	1	1	1	1	1
	HCl Acid Wash, including labor ($/$ft^2$)		$0.63	$0.63	$0.63	$0.63	$0.63	$0.63	$0.63	$0.63	$0.63
	Subtotal Wall Decontamination Costs		$6,810	$10,017	$0	$0	$0	$0	$1,953	$0	$0
B.	Concrete Floor Decontamination										
	Area to be Decontaminated (ft^2)		11,550	16,500	3,500	0	0	0	2750	0	0
	Application Rate (Gallons/ft^2)	OUT	1	1	1	1	1	1	1	1	1
	HCl Acid Wash, including labor ($/$ft^2$)		$0.47	$0.47	$0.47	$0.47	$0.47	$0.47	$0.47	$0.47	$0.47
	Subtotal Concrete Floor Decontamination Costs		$5,429	$7,755	$1,645	$0	$0	$0	$1,293	$0	$0
C.	Deep Well Injection Costs										
	Total Kgals for Injection		22.36	32.4	3.5	0	0	0	5.85	0	0
	Deep Well Injection Unit Cost ($/Kgals)		$1.39	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39	$1.39
	Subtotal Deep Well Injection Costs		$31	$45	$5	$0	$0	$0	$8	$0	$0
Subtotal Decontamination Costs per Building			$12,270	$17,817	$1,650	$0	$0	$0	$3,254	$0	$0
Total Decontamination Costs			**$34,991**								
II.	**Demolition Costs**										
A.	Building										
	Assumptions:										
	Dryer bldg. demolition unit cost of $0.73/$ft^3$ for additional radiation safety equipment										
	Area of Building(ft^2)		11,550	16,500	3,500	9,934	7,028	500	2750	8,739	832
	Volume of Building (ft^3)		346,500	577,500	122,500	248,350	175,700	4,000	55,000	174,780	8,320
	Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)		$0.178	$0.178	$0.178	$0.178	$0.178	$0.178	$0.178	$0.178	$0.178
	Unit Cost in $/$ft^3$ (July 1998 dollars w/o esca	OUT	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Subtotal Building Demolition Costs		$61,677	$102,795	$21,805	$44,206	$31,275	$712	$9,790	$31,111	$1,481
B.	Concrete Floor										
	Area of Concrete Floor (ft^2)		11,550	16,500	3500	9,934	7,028	0	2750	8,739	832
	Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)		$3.40	$3.40	$3.40	$3.40	$3.40	$3.40	$3.40	$3.40	$3.40
	Unit Cost in $/$ft^2$ (July 1998 dollars w/o esca	OUT	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Subtotal Concrete Floor Demolition Costs		$39,270	$56,100	$11,900	$33,776	$23,895	$0	$9,350	$29,713	$2,829
C.	Concrete Footing										
	Length of Concrete Footing (ft)		430	514	237	399	335	89	210	374	115
	Demolition Unit Cost per WDEQ Guide. No.12,App.K ($/lin. ft)		$12.22	$12.22	$12.22	$12.22	$12.22	$12.22	$12.22	$12.22	$12.22
	Unit Cost in $/lin. ft (July 1998 dollars w/o e	OUT	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	Subtotal Concrete Footing Demolition Costs		$5,253	$6,279	$2,892	$4,872	$4,098	$1,093	$2,563	$4,569	$1,410
Subtotal Demolition Costs per Building			$106,200	$165,174	$36,597	$82,854	$59,268	$1,805	$21,703	$65,393	$5,720
Total Demolition Costs			**$544,714**								
III.	**Disposal Costs**										
A.	Building										
	Volume of Building (cy)		12833	21389	4537	9198	6507	148	2037	6473	308
	1. On-Site										
	Assumptions:										
	On-site disposal cost of $1.25/cy										
	Percentage (%)		100	100	100	100	100	100	100	100	100
	Volume for Disposal (cubic yards)		12833	21389	4537	9198	6507	148	2037	6473	308
	Disposal Unit Cost ($/cy)		$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25	$1.25
	Subtotal On-Site Disposal Costs		$16,042	$26,736	$5,671	$11,498	$8,134	$185	$2,546	$8,092	$385
	2. NRC-Licensed Facility										

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Building Demolition and Disposal	CPP Ion Ex. Plant	Central Plant	Dryer Building	Office Building	Shop Building	DDW Buildings	Yellowcake Storage	Warehouse Building	Fresh Water Pumphouse
Percentage (%)	0	0	0	0	0	0	0	0	0
Volume for Disposal (ft^3)	0	0	0	0	0	0	0	0	0
Volume for Disposal Assuming 10% Void Space (ft^3)	0	0	0	0	0	0	0	0	0
Transportation and Disposal Unit Cost ($/$ft^3$)	$12.00	$12.00	$12.00	$12.00	$12.00	$12.00	$12.00	$12.00	$12.00
Subtotal NRC-Licensed Facility Disposal Costs	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Building Disposal Costs	$16,042	$26,736	$5,671	$11,498	$8,134	$185	$2,546	$8,092	$385
B. Concrete Floor									
Area of Concrete Floor (ft^2)	11550	16500	3500	9934	7028	0	2750	8739	1186
Average Thickness of Concrete Floor (ft)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Volume of Concrete Floor (ft^3)	8662.5	12375	2625	7450.5	5271	0	2062.5	6554.25	889.5
Volume of Concrete Floor (cy)	321	458	97	276	195	0	76	243	33
1. On-Site									
Percentage (%)	75	75	75	100	100	100	75	100	100
Volume for Disposal (cy)	241	344	73	276	195	0	57	243	33
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$6.39	$6.39	$6.39	$6.39	$6.39	$6.39	$6.39	$6.39	$6.39
Unit Cost in $/cy (July 1998 dollars w/o e OUT	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Subtotal On-Site Disposal Costs	$1,538	$2,197	$466	$1,763	$1,247	$0	$366	$1,551	$211
2. NRC-Licensed Facility									
Assumptions:									
Additional $2.00/$ft^3$ for segregation of concrete									
Percentage (%)	25	25	25	0	0	0	25	0	0
Volume for Disposal (ft^3)	2888	3094	656	0	0	0	516	0	0
Segregation and Loading Unit Cost ($/$ft^3$)	$2.60	$2.60	$2.60	$2.60	$2.60	$2.60	$2.60	$2.60	$2.60
Transportation and Disposal Unit Cost ($/$ft^3$)	$12.00	$12.00	$12.00	$12.00	$12.00	$12.00	$12.00	$12.00	$12.00
Subtotal NRC-Licensed Facility Disposal Costs	$42,165	$45,169	$9,581	$0	$0	$0	$7,528	$0	$0
Subtotal Concrete Floor Disposal Costs	$43,703	$47,366	$10,047	$1,763	$1,247	$0	$7,894	$1,551	$211
C. Concrete Footing									
Length of Concrete Footing (ft)	430	514	237	399	335	89	210	374	124
Average Depth of Concrete Footing (ft)	4	4	4	4	4	4	4	4	4
Average Width of Concrete Footing (ft)	1	1	1	1	1	1	1	1	1
Volume of Concrete Footing (ft^3)	1720	2055	947	1595	1341	358	839	1496	496
Volume of Concrete Footing (cy)	64	76	35	59	50	13	31	55	18
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$6.39	$6.39	$6.39	$6.39	$6.39	$6.39	$6.39	$6.39	$6.39
Unit Cost in $/cy (July 1998 dollars w/o esca OUT	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Subtotal Concrete Footing Disposal Costs	$407	$486	$224	$377	$317	$85	$199	$354	$117
Subtotal Disposal Costs per Building	$60,152	$74,588	$15,942	$13,638	$9,698	$270	$10,639	$9,997	$713
Total Disposal Costs	**$195,637**								
IV Health and Safety Costs									
Radiation Safety Equipment	$1,000	$1,000	$1,000	$1,000	$0	$0	$1,000	$0	$0
Total Health and Safety Costs	**$5,000**								
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	$179,622	$258,579	$55,189	$97,492	$68,966	$2,075	$36,596	$75,390	$6,433
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	**$780,342**								

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Wellfield Buildings and Equipment Removal and Disposal	Mine Unit-1
I. Wellfield Piping	
Assumptions:	
Number of Header Houses per Wellfield	5
Length of Piping per Header House (ft)	2000
Total Length of Piping (ft)	10000
A. Removal and Loading	
Wellfield Piping Removal Unit Cost ($/ft of pipe)	$0.42
Subtotal Wellfield Piping Removal and Loading Costs	$4,200
B. Transport and Disposal Costs (NRC-Licensed Facility)	
Average Diameter of Piping (inches)	2
Chipped Volume Reduction (ft^3/ft)	0.005
Chipped Volume per Wellfield (ft^3)	50
Volume for Disposal Assuming 10% Void Space (ft^3)	55
Transportation and Disposal Unit Cost ($/$ft^3$)	$12.00
Subtotal Wellfield Piping Transport and Disposal Costs	$660
Wellfield Piping Costs per Wellfield	$4,860
C. Capitol Costs	
PVC Pipe Shredder	$0
Total Wellfield Piping Costs	**$4,860**
II. Well Pumps and Tubing	
Assumptions:	
Pump and tubing removal costs included under ground water restoration labor costs	
60% of production/injection wells contain pumps and/or tubing	
A. Pump and Tubing Transportation and Disposal	
Number of Production Wells	101
Number of Injection Wells	175
1. Pump Volume	
Number of Production Wells with Pumps	61
Average Pump Volume (ft^3)	1
Pump Volume per Wellfield (ft^3)	61
2. Tubing Volume	
Assumptions:	
Average tubing length/wellfield based on average well depth minus 25 ft	
Number of Production Wells with Tubing	61
Number of Injection Wells with Tubing	105
Average Tubing Length per Well (ft)	725
Tubing Length per Wellfield (ft)	120350
Diameter of Production Well Fiberglass Tubing (inches)	2
Diameter of Injection Well HDPE Tubing (inches)	1.25
Chipped Volume Reduction (ft^3/ft)	0.005
Chipped Volume per Wellfield (ft^3)	602
Volume of Pump and Tubing (ft^3)	663
Volume for Disposal Assuming 10% Void Space (ft^3)	729
Transportation and Disposal Unit Cost ($/$ft^3$)	$12.00
Total Pump and Tubing Costs	**$8,748**

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Wellfield Buildings and Equipment Removal and Disposal											Mine Unit-1		
III.	**Buried Trunkline**												
		Assumptions:											
		Length of Trunkline Trench (ft)									2600		
	A.	Removal and Loading											
			Main Pipeline Removal Unit Cost ($/ft of trench)								$0.89		
		Subtotal Trunkline Removal and Loading Costs									$2,314		
	B.	Transport and Disposal Costs (NRC-Licensed Facility)											
		1.	3" HDPE Trunkline										
			Piping Length (ft)								2600		
			Chipped Volume Reduction (ft^3/ft)								0.022		
			Chipped Volume (ft^3)								57.2		
		2.	6" HDPE Trunkline										
			Piping Length (ft)								5200		
			Chipped Volume Reduction (ft^3/ft)								0.078		
			Chipped Volume (ft^3)								405.6		
		3.	8" HDPE Trunkline										
			Piping Length (ft)								5000		
			Chipped Volume Reduction (ft^3/ft)								0.15		
			Chipped Volume (ft^3)								750		
		3.	10" HDPE Trunkline										
			Piping Length (ft)								0		
			Chipped Volume Reduction (ft^3/ft)								0.277		
			Chipped Volume (ft^3)								0		
		4.	12" HDPE Trunkline										
			Piping Length (ft)								0		
			Chipped Volume Reduction (ft^3/ft)								0.293		
			Chipped Volume (ft^3)								0		
		5.	14" HDPE Trunkline										
			Piping Length (ft)								0		
			Chipped Volume Reduction (ft^3/ft)								0.359		
			Chipped Volume (ft^3)								0		
		5.	16" HDPE Trunkline										
			Piping Length (ft)								2600		
			Chipped Volume Reduction (ft^3/ft)								0.4		
			Chipped Volume (ft^3)								1040		
			Total Trunkline Chipped Volume (ft^3)								2252.8		
			Volume for Disposal Assuming 10% Void Space (ft^3)								2478		
			Transportation and Disposal Unit Cost ($/$ft^3$)								$12.00		
		Subtotal Trunkline Transport and Disposal Costs									$29,736		
	Total Trunkline Decommissioning Costs										**$32,050**		
IV.	**Well Houses**												
	Total Quantity										5		

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Wellfield Buildings and Equipment Removal and Disposal										**Mine Unit-1**	
	Average Well House Volume (ft^3)									12.5	
	A.	Removal									
			Total Volume (ft^3)							62.5	
			Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)							$0.178	
			Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)						OUT	$0.00	
		Subtotal Well House Demolition Costs								$11	
	B.	Survey and Decontamination									
			Assumptions:								
				Cost per Well House						$4.49	
		Subtotal Survey and Decontamination Costs								$22	
	C.	Disposal at NRC licensed Facility									
			Total Volume (cy)							2	
			Volume for Disposal Assuming 10% Void Space (cy)							3	
			Transportation and Disposal Unit Cost ($/$ft^3$)							$12.00	
		Subtotal NRC Licensed Facility Disposal Costs								$36	
	Total Well House Removal and Disposal Costs									**$69**	
V.	**Header Houses**										
		Total Quantity								5	
		Average Header House Volume (ft^3)								2700	
	A.	Removal									
			Total Volume (ft^3)							13500	
			Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)							$0.178	
			Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)						OUT	$0.00	
		Subtotal Building Demolition Costs								$2,403	
	B.	Survey and Decontamination									
			Assumptions:								
				Cost per Header House						$284	
		Subtotal Survey and Decontamination Costs								$1,420	
	C.	Disposal									
			Total Volume (cy)							500	
			Volume for Disposal Assuming 10% Void Space (cy)							550	
			Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)							$6.39	
			Unit Cost in $/cy (July 1998 dollars w/o escalator)						OUT	$0.00	
		Subtotal On-Site Disposal Costs								$3,515	
	Total Header House Removal and Disposal Costs									**$7,338**	
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS										**$53,065**	

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
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Well Abandonment								**Mine Unit-1**
I.	**Well Abandonment (Wellfields)**							
		# of Production Wells						101
		# of Injection Wells						175
		# of Monitoring Wells						38
		Total Number of Wells						314
		Average Diameter of Casing (inches)						5
		Average Depth (ft)						725
		Well Abandonment Unit Cost ($/well)						$359
	Total Wellfield Abandonment Costs							**$112,805**
II.	**Waste Disposal Well Abandonment**							**DDW#1**
	A.	Unit Cost Per Foot of Depth (Based on Wyoming Oil						$4.87
		and Gas Conservation Commission average cost/ft)						
	B.	Depth of Well (ft)						10000
	Total Waste Disposal Well Abandonment Costs							**$48,700**
TOTAL WELL ABANDONMENT COSTS								**$161,505**

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT SUREETY ESTIMATE FIRST YEAR OF OPERATION

Wellfield and Satellite Surface Reclamation									**Mine Unit-1**
I.	**Wellfield Pattern Area, Laydown Area, and Road Reclamation**								
		Area (acres)							15
		Disking/Seeding Unit Cost ($/acre)							$235
	Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs								$3,525
	Total Wellfield Area Reclamation Costs								**$3,525**
II.	**Satellite Area Reclamation**								**NB-1**
		Assumptions:							
			Area of Disturbance (acres)						2.05
			Average Depth of Stripped Topsoil (ft)						1
			Surface Grade: Level Ground						
			Average Length of Topsoil Haul (ft)						1000
		A.	Ripping Overburden with Dozer						
				Ripping Unit Cost per WDEQ Guideline No.12, App.I1 ($/acre)					$814.22
				Unit Cost in $/acre (July 1998 dollars w/o escalato				OUT	$0.00
			Subtotal Ripping Costs						$1,669
		B.	Topsoil Application with Scraper						
				Volume of Topsoil Removed (cy)					3307
				Application Unit Cost per WDEQ Guideline No.12, App.C ($/cy)					$0.71
				Unit Cost in $/cy (July 1998 dollars w/o escalator				OUT	$0.00
			Subtotal Topsoil Application Costs						$2,348
		C.	Discing and Seeding						
				Discing/Seeding Unit Cost ($/acre)					$200
			Subtotal Discing/Seeding Costs						$410
	Total Satellite Building Area Reclamation Costs								**$4,427**
TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS									**$7,952**

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SURETY ESTIMATE
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Miscellaneous Reclamation							
I.	**CPP/Office Area/Warehouse/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)				13068
			Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)				$3.40
			Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator			OUT	$0.00
			Average Thickness of Concrete Floor (ft)				0.50
			Volume of Concrete Floor (ft^3)				6,534
			Volume of Concrete Floor (cy)				242
			On-Site Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)				$5.00
			Unit Cost in $/cy (July 1998 dollars w/o escalator			OUT	$0.00
		Subtotal Concrete Pad Demolition and Disposal Costs					$45,641
	B.	Gravel Road Base Removal					
			Assumptions				
				Average haul distance (ft)			1000
			Gravel Road Base Width (ft)				
			Gravel Road Base Area (acres)				8.0
			Average Road Base Depth (ft)				0.5
			Volume of Road Base (cy)				6453
			Removal Unit Cost per WDEQ Guideline No.12, App.C ($/cy)				$0.87
			Unit Cost in $/cy (July 1998 dollars w/o escalator			OUT	$0.00
		Subtotal Gravel Road Base Removal Costs					$5,589
	B.	Ripping Overburden with Dozer					
			Overburden Surface Area (acres)				10.6
			Ripping Unit Cost per WDEQ Guideline No.12, App.I1 ($/acre)				$814.22
			Unit Cost in $/acre (July 1998 dollars w/o escalat			OUT	$0.00
		Subtotal Ripping Overburden Costs					$8,606
	C.	Topsoil Application					
			Assumptions:				
				Area of surface disturbance (ft^2)			460426
				Average thickness of topsoil (ft)			1
				Average haul distance (ft)			2000
				Surface grade (%)			0%
			Volume of Topsoil (cy)				17,053
			Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)				$1.12
			Unit Cost in $/cy (July 1998 dollars w/o escalator			OUT	$0.00
		Subtotal Topsoil Application Costs					$19,150
	D.	Discing/Seeding					
			Assumptions				
			Surface Area (acres)				10.57
			Discing/Seeding Unit Cost ($/acre)				$235

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Miscellaneous Reclamation							
		Total Discing/Seeding Costs					$2,484
	Total CPF/Office/Yard Area Reclamation						**$75,881**
II.	**Access Road Reclamation**						**CPP Access Rd.**
	A.	Assumptions					
		Surface grade					1%
		Length of Road (ft)					7000
		Width of Road (ft)					40
		Area of road (acres)					4.75
	B.	Gravel Road Base Removal					
		Assumptions					
		Average haul distance (ft)					1000
		Gravel Road Base Width (ft)					30
		Gravel Road Base Area (acres)					4.82
		Average Road Base Depth (ft)					0.5
		Volume of Road Base (cy)					3889
		Removal Unit Cost per WDEQ Guideline No.12, App.C ($/cy)					$0.87
		Unit Cost in $/cy (July 1998 dollars w/o escalator				OUT	$0.00
		Subtotal Gravel Road Base Removal Costs					$3,368
	C.	Ripping Overburden with Dozer					
		Overburden Surface Area (acres)					4.8
		Ripping Unit Cost per WDEQ Guideline No.12, App.I1 ($/acre)					$814.22
		Unit Cost in $/acre (July 1998 dollars w/o escalat				OUT	$0.00
		Subtotal Ripping Overburden Costs					$3,868
	D.	Topsoil Application					
		Assumptions					
		Average haul distance (ft)					1500
		Topsoil Surface Area (ft^2)					206910
		Depth of Topsoil (ft)					0.5
		Volume of Topsoil (cy)					3832
		Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)					$1.50
		Unit Cost in $/cy (July 1998 dollars w/o escalator				OUT	$0.00
		Subtotal Topsoil Application Costs					$5,748
	E.	Discing/Seeding					
		Assumptions					
		Surface Area (acres)					4.8
		Discing/Seeding Unit Cost ($/acre)					$235
		Subtotal Discing/Seeding Costs					$1,116
	Subtotal Reclamation Costs per Access Road						$14,100
	Total Access Road Reclamation Costs						**$22,765**
III.	**Trunk Lines #1 and #2**						**Trunk Line #1 (To MU-1)**
		Length of Trench (ft)					4000

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Miscellaneous Reclamation								
	A.	Removal and Loading						
			Main Pipeline Removal Unit Cost ($/ft of trench)					$0.89
		Subtotal Trunkline Removal and Loading Costs						$3,560
	B.	Transport and Disposal Costs (NRC-Licensed Facility)						
		1.	3" HDPE Trunkline					
				Piping Length (ft)				4000
				Chipped Volume Reduction (ft^3/ft)				0.022
				Chipped Volume (ft^3)				88
		2.	6" HDPE Trunkline					
				Piping Length (ft)				8000
				Chipped Volume Reduction (ft^3/ft)				0.078
				Chipped Volume (ft^3)				624
		3.	8" HDPE Trunkline					
				Piping Length (ft)				0
				Chipped Volume Reduction (ft^3/ft)				0.15
				Chipped Volume (ft^3)				0
		3.	10" HDPE Trunkline					
				Piping Length (ft)				0
				Chipped Volume Reduction (ft^3/ft)				0.277
				Chipped Volume (ft^3)				0
		4.	12" HDPE Trunkline					
				Piping Length (ft)				0
				Chipped Volume Reduction (ft^3/ft)				0.293
				Chipped Volume (ft^3)				0
		5.	14" HDPE Trunkline					
				Piping Length (ft)				0
				Chipped Volume Reduction (ft^3/ft)				0.359
				Chipped Volume (ft^3)				0
		5.	16" HDPE Trunkline					
				Piping Length (ft)				4000
				Chipped Volume Reduction (ft^3/ft)				0.4
				Chipped Volume (ft^3)				1600
			Total Trunkline Chipped Volume (ft^3)					2312
			Volume for Disposal Assuming 10% Void Space (ft^3)					2543
			Transportation and Disposal Unit Cost (NRC-Licensed Facility) ($/ft^3$)					$12.00
		Subtotal Pipeline Disposal Costs						$30,516
	C.	Discing/Seeding						
			Assumptions:					
				Width of Pipeline Trench (ft)				4
				Area of Pipeline Trench (acres)				0.4

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Miscellaneous Reclamation								
			Discing/Seeding Unit Cost ($/acre)					$235
		Subtotal Discing/Seeding Costs						$86
	Subtotal Reclamation Costs per Pipeline							$34,162
	Total Pipeline Reclamation Costs							**$34,162**
IV.	**Settling Basin/Evap. Pond Reclamation**							**Evaporation Pond**
	A.	Soil Sampling and Monitoring						
			Number of Soil Samples					10
			$/Sample					$75
		Subtotal Soil Sampling and Monitoring Costs						$750
	B.	Liner/Subsoil Removal and Disposal						
				Removal and Loading Unit Cost based on engineer's design				
				report and Cat Performance Handbook				
			Width of Pond (ft)					112
			Length of Pond (ft)					487
			Depth of Pond (ft)					10
			Surface area of pond (ft^2)					54544
			Surface area of both ponds (ft^2)					109088
		1.	Removal and Loading					
				Volume of Geotextile Liner (cy)				272.72
				GeotextileLiner Removal and Loading Unit Cost ($/cy)				$3
				Liner Removal and Loading Costs				$818
				PVC Pipe Footage				920
				Average PVC Pipe Diameter (inches)				3
				PVC Pipe Removal Costs (base on previous estimates for piping removal)				$1,008
			Subtotal Removal and Loading Costs					$1,826
		2.	Transportation and Disposal					
				Volume of Geotextile Liner (ft^3)				272.72
				Volume of Geotextile Liner @ 40% void (ft^3)				455
				Shredded PVC Pipe Volume Reduction (ft^3/ft)				0.016
				Volume of Shredded PVC Pipe (ft^3)				15
				Transportation and Disposal Unit Cost ($/$ft^3$)				$12.00
			Subtotal Transportation and Disposal Costs					$5,631
		Subtotal Liner Removal and Disposal Costs						$7,457
	C.	Grade and Contour						
				Volume of Embankment Material (CY)				16,900
				Average Grade (%)				0
				Distance (ft)				100
				Material Moving Unit Cost per WDEQ Guideline No.12, App.E ($/cy)				$0.092
				Unit Cost in $/cy (July 1998 dollars w/o escal			OUT	$0.00
			Subtotal Grade and Contour Costs					$1,555
	C.	Topsoil Application						
			Assumptions:					
				Area of surface disturbance (ft^2)				115000
				Average thickness of topsoil (ft)				1

Miscellaneous Reclamation		
Average haul distance (ft)		1000
Surface grade (%)		0%
Volume of Topsoil (cy)		4,259
Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)		$1.12
Unit Cost in $/cy (July 1998 dollars w/o escalator	OUT	$0.00
Subtotal Topsoil Application Costs		$4,783
D. Discing/Seeding		
Assumptions:		
Area of surface disturbance (acres)		2.6
Discing/Seeding Unit Cost ($/acre)		$235
Subtotal Discing/Seeding Costs		$611
Total Settling Basin/Evap. Ponds Reclamation Costs		**$15,156**
V. Miscellaneous Structures		
B. Potable Water Wells		
Total Depth (ft) (Two 5-inch Diameter Wells, @ 750 ft)		1,500
Well Abandonment Unit Cost ($/100 ft)		$6.70
Subtotal Potable Water Wells Abandonment Costs		$100.50
C. Fuel Area		
Concrete Floor		
Area of Concrete Floor (ft^2)		375
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)		$3.40
Unit Cost in $/$ft^2$ (July 1998 dollars w/o escal	OUT	$0.00
Subtotal Concrete Floor Demolition Costs		$1,275
Concrete Footing		
Length of Concrete Footing (ft)		77
Demolition Unit Cost per WDEQ Guide. No.12,App.K ($/lin. ft)		$12.22
Unit Cost in $/lin. ft (July 1998 dollars w/o es	OUT	$0.00
Subtotal Concrete Footing Demolition Costs		$947
Subtotal Fuel Area Costs		$2,222
Total Miscellaneous Structures Reclamation Costs		**$3,598**
VI. Wellfield Pattern Area, Laydown Area, and Road Reclamation		
Area (acres)		29.6
Disking/Seeding Unit Cost ($/acre)		$235
Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs		$6,956
Total Wellfield Area Reclamation Costs		**$6,956**
TOTAL MISCELLANEOUS RECLAMATION COSTS		**$158,517**

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RADIUM TREATMENT					
	HUP SURETY ONLY!!				
Assumptions:					
1.	Based on actual 1998 operating costs from Satellite No. 2				
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**	HUP ONLY	

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GROUNDWATER SWEEP (GWS)

Assumptions:

1. All pumps are 5 hp pumping at 5.0 gpm
2. Cost of electricity = $0.048/kwh
3. All water pumped is disposed at WDW with a 20 hp pump
4. Repair and maintenance costs estimated at $0.50/1000 gallons
5. Process sampling and analysis costs estimated at $0.03/1000 gallons
6. Labor costs are not included

Wellfield Pumping Costs per 1000 Gallons

$$\frac{1000\ \text{gal}}{} \times \frac{5\ \text{hp}}{5\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.05}{\text{kwh}} = \$\ 0.60$$

Pumping to WDW Costs per 1000 Gallons

$$\frac{1000\ \text{gal}}{} \times \frac{75\ \text{hp}}{200\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.05}{\text{kwh}} = \$\ 0.22$$

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.	Based on actual 1998 operating costs at Satellite No. 1. Verified by		
	Hydranautics RO System Design Software, Version 6.0 (1995)		
2.	Cost of electricity = $0.048/kwh		
3.	75% permeate/25% reject split		
4.	Membrane life of 5 years with a cost of $700 per membrane element		
5.	Includes cost of pumping from wellfield to RO Unit		
6.			
	6&7 OUT		
7.			
8.	Process sampling and analysis costs estimated at $0.03/1000 gallons		
9.	Labor costs are not included		
Reverse Osmosis Costs per 1000 Gallons			
	Electricity	= $	0.048
	Chemicals	= $	0.23
	Membrane Replacement	= $	0.03
	Repair and Maintenance	= $	0.26
	Items Removed		
	Process Sampling and Analysis	= $	0.03
TOTAL RO COSTS PER 1000 GALLONS		**= $**	**0.60**

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6. The 20% reject is disposed at WDW with a 20 hp pump at actual cost of							
$0.14/1000 gallons							
7. The permeate is returned to the wellfield with a 20 hp pump at actual cost of							
$0.019/1000 gallons							
Pumping from Wellfield							
Pumping to Wellfield							
Pumping to WDW							
$	0.14	X	0.2				

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CHEMICAL REDUCTANT																		
Assumptions:																		
1.	Bioremediation is utilized																	
2.	Based on actual 2003-2004 operating costs during restoration activities																	
3.	Added the cost of using cheese whey																	
TOTAL CHEMICAL REDUCTANT COSTS PER Kgal															**= $**	**0.3**		
										July 1998 Dollars					**= $**	**0.26**	OUT	

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ELUTION PROCESSING															
Assumptions:															
1.	Based on actual operating costs														
TOTAL PROCESSING COSTS PER ELUTION									**= $**	**900**					
				Costs removed from GW REST Workbook											

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DEEP WELL INJECTION

Assumptions:

1. Pump 150 hp pumping at 100 gpm
2. Cost of electricity = $0.048/kwh
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
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

$$\frac{1000 \text{ gal}}{} \times \frac{150 \text{ hp}}{100 \text{ gpm}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{0.746 \text{ kwh}}{\text{hp}} \times \frac{\$ \ 0.048}{\text{kwh}} = \$ \ 0.90$$

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	Backhoe for 8.0 hr/day to dig and reclaim pit at cost of $65/hr.														
3	Use hose reel for 8 hr/day to pull equipment from well at cost of $45/hr.														
4	Use cementer for 8.0 hr/day to pump cement/plug gel at cost of $45/hr.														
5	Use tow vehicle for 8.0 hr/day to tow hose reel and cementer from well to well at cost of $40/hr.														
6	Labor for backhoe, hose reel, cementer will require 3 workers at 8.0 hr/day at cost of $35/hr.														
	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 $7.62and plug gel cost is $5.95/sack.														
	Fixed Costs														
	Backhoe														
		8	hours	X	$	65	per hour		=$	520.00					
	Hose Reel/Tow Vehicle														
		8	hours	X	$	35	per hour		=$	280.00					
	Cementer														
		8	hours	X	$	45	per hour		=$	360.00					
	Tow Vehicle														
		8	hours	X	$	40	per hour		=$	320.00					
	Labor														
3	men=	24	man	X	$	15.00	per man		=$	360.00					
			hours				hour								
			Total Fixed Costs per 8.0 hr/day						=$	1840.00					
	Variable Costs		(per 100 ft of well depth)												
	Materials														
		7.5	sack cement		X		$	7.62	per	=$	57.15				
			per 100 feet						sack						
		1	sack plug gel		X		$	5.95	per ho	=$	5.95				
			per 100 feet						plug						

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WELL ABANDONMENT Page 2															
	Total materials Cost (per 100 ft of well depth)									$	63.10				
	Total number of wells completed per/day														
			6												
	Cost per Well per Unit of Average Depth														
					Well Depth (ft)										
						450				**=$**	**354**				
						500				**=$**	**359**				
						550				**=$**	**365**				
						600				**=$**	**370**				
						650				**=$**	**375**				
						700				**=$**	**380**				
						750				**=$**	**386**				
						800				**=$**	**391**				
						850				**=$**	**396**				
						900				**=$**	**401**				
						950				**=$**	**407**				

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SURETY ESTIMATE
FIRST YEAR OF OPERATION

FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)																
Assumptions:																
1	Pulling Unit for 8.0 hr/day at cost of $45/hr.															
2	MIT Unit for 8.0 hr/day at cost of $45/hr.															
3	Labor for operation of pulling unit will require 2 workers at $15/hr															
4	Labor for operation of MIT Unit will require 1 worker at $15/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	$	15	per hour	X	2	workers			=$	$240.00		
	MIT Unit															
		8	hours	X	$	15	per hour						=$	120.00		
							TOTAL MIT COST PER DAY						**=$**	**1080.00**		
	Wells Completed					6	per day									
							MIT COSTS PER WELL						**=$**	**180.00**		

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
SURETY ESTIMATE
FIRST YEAR OF OPERATION

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														
4.	Fuel cost: $10/operating hour														
5.	Trackhoe operation requires 1 worker at $15/hour														
6.	Pipeline extraction requires 2 workers at $15/hour (in addition to trackhoe operator)														
7.	Pipelines removed simutaneously														
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						
	Fuel														
		$	10	X	8	hrs	X	1	days	=$	0.11				
		hour			1	day		750	ft						
Labor															
	Trackhoe Operation														
		$	15	X	8	man hrs	X	1	days	=$	0.16				
		man hr			1	day		750	ft						
	Pipeline Extraction														
		$	15	X	16	man hrs	X	1	day	=$	0.32				
		man hr			1	day		750	ft						
MAIN PIPELINE REMOVAL COST PER FT OF TRENCH										**=$**	**0.89**				

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
SURETY ESTIMATE
FIRST YEAR OF OPERATION

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: $1,000/week														
4.	Fuel cost: $10/operating hour														
5.	Backhoe operation requires 1 worker at $15/hour														
6.	Pipeline extraction requires 2 workers at $15/hour (in addition to trackhoe operator)														
7.	Operating schedule: 8 hrs/day, 5 days/week														
Main Pipeline Removal Costs per ft of Pipe															
Equipment															
	Backhoe														
		$ 1000 / week		X	1 week / 5 days		X	1 days / 1500 ft		=$	0.13				
	Fuel														
		$ 10 / hour		X	8 hrs / 1 day		X	1 days / 1500 ft		=$	0.05				
Labor															
	Backhoe Operation														
		$ 15 / man hr		X	8 man hrs / 1 day		X	1 days / 1500 ft		=$	0.08				
	Pipeline Extraction														
		$ 15 / man hr		X	16 man hrs / 1 day		X	1 day / 1500 ft		=$	0.16				
	MAIN PIPELINE REMOVAL COST PER FT OF PIPE									**=$**	**0.420**				

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
SURETY ESTIMATE
FIRST YEAR OF OPERATION

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 $235/acre is based on actual contractor costs

Gravel Road Base Removal Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{0.25\ \text{ft}}{} \times \frac{10\ \text{ft}}{} \times \frac{1\ \text{cy}}{27\ \text{ft}^3} \times \frac{\$0.87}{\text{cy}} = \$\ 80$$

Scarification Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$41.87}{\text{acre}} = \$\ 24$$

Grading Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$45.65}{\text{acre}} = \$\ 26$$

Topsoil Application Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{0.67\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{cy}}{27\ \text{ft}^3} \times \frac{\$0.87}{\text{cy}} = \$\ 537$$

Discing/Seeding Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$235}{\text{acre}} = \$\ 135$$

TOTAL WELLFIELD ROAD RECLAMATION COSTS PER 1000 FT OF ROAD (BEFORE JANUARY 1, 1997) = $ 802

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 $235/acre is based on actual contractor costs

Scarification Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{20\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$41.87}{\text{acre}} = \$\ 19$$

Grading Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{20\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$45.65}{\text{acre}} = \$\ 21$$

Topsoil Application Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{0.40\ \text{ft}}{} \times \frac{20\ \text{ft}}{} \times \frac{1\ \text{cy}}{27\ \text{ft}^3} \times \frac{\$0.86}{\text{cy}} = \$\ 255$$

Discing/Seeding Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{20\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$235}{\text{acre}} = \$\ 108$$

TOTAL WELLFIELD ROAD RECLAMATION COSTS PER 1000 FT OF ROAD (AFTER JANUARY 1, 1997) = $ 403

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
SURETY ESTIMATE
FIRST YEAR OF OPERATION

BYPRODUCT MATERIAL TRANSPORTATION AND DISPOSAL

Assumptions:

1. Based on actual 2001-2002 contracted costs for transportation to and disposal at an NRC-licensed disposal facility.
2. Includes profit for transporter and disposal facility.
3. All types of waste shipped vi bulk container (30-yd^3 dumpster or 30-yd^3 dump truck).
4. Each shipment contains 30,000 lbs of material.

	Transportation Cost			Disposal Cost			Total	
	$ 1.00	/ft^3	+	$ 11.00	/ft^3	=	$ 12.00	/ft^3
						=	**$ 12.00**	**/ft^3**

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
SURETY ESTIMATE
FIRST YEAR OF OPERATION

DISKING/SEEDING								
Assumptions:								
1.	Based on actual contractor costs in 2006							
2.	Disking cost $55/Acre							
3.	Seeding cost based on drill seeding - seed cost based on type,							
	availability, over all cost of $180.00/Acre							
TOTAL DISKING/SEEDING COSTS PER ACRE					**= $**	**235**		

Abbreviations/Acronyms		
$	Dollars	
$/Kgal	Dollars per 1000 gallons	
avg	average	
ft	feet	
ft2	square feet	
ft3	cubic feet	
gal	gallon	
gpm	gallons per minute	
H&S	Health and Safety	
H2S	Hydrogen Sulfide	
H2SO4	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	
yd3	cubic yards	
yr	year	