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

Total Restoration and Reclamation Cost Estimate		
I.	GROUNDWATER RESTORATION COST	$2,429,505
II.	EQUIPMENT REMOVAL & DISPOSAL COST	$107,631
III.	BUILDING DEMOLITION AND DISPOSAL COST	$633,819
IV.	WELLFIELD BUILDINGS & EQUIPMENT REMOVAL & DISPOSAL COST	$69,298
V.	WELL ABANDONMENT COST	$136,699
VI.	WELLFIELD AND SATELLITE SURFACE RECLAMATION	$6,632
VII.	TOTAL MISCELLANEOUS RECLAMATION COST	$112,920
	SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE	$3,496,504
	CPI ESCALATOR- July 1,1998 to Feb. 28, 2006 (21.75%)	$760,490
	SUBTOTAL	$4,256,994
	ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)	$1,064,249
	TOTAL	$5,321,243
	TOTAL CALCULATED SURETY (IN 2006 DOLLARS)	**$5,321,200**

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)							$0.57
	Total Ground Water Sweep Costs								**$30,995**
II.	**Reverse Osmosis Costs**								
		PV's Required							5
		Total Kgals for Treatment							270,522
		Reverse Osmosis Unit Cost ($/Kgal)							$1.26
	Total Reverse Osmosis Costs								**$341,345**
III.	**Chemical Reductant Costs**								
		Total Kgals for Treatment (2 Pore Volumes)							108209
		Chemical Reductant Unit Cost ($/Kgal)							$0.29
	Total Chemical Reductant Costs								**$31,381**
IV.	**Elution Costs**								
	A.	Elution Processing Costs							
			Kgals/Elution Required						35,000
			Number of Elutions						9
			Processing Unit Cost ($/Elution)						$525
		Subtotal Processing Costs							$4,725
	B.	Deep Well Injection Costs							
			Deep Well Injection Volume (Kgals/Elution)						12
			Total Kgals for Injection						108
			Deep Well Injection Unit Cost ($/Kgals)						$1.39
		Subtotal Deep Well Injection Costs							$150
	Total Elution Costs								**$4,875**

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
SURETY ESTIMATE
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Ground Water Restoration									**Mine Unit-1**
V.	**Monitoring and Sampling Costs**								
	A.	Active Restoration Period							
		Estimated Restoration Period (Years)							5
		1.	UCL Sampling						
				# of Wells					36
				$/sample					$20
				Samples/Year					6
		Sub-total Restoration Analyses							$21,600
	B.	Stability Period							
		Estimated Stabilization Period (Years)							1
		1.	Full Suite Analyses						
			# of Wells						10
			Samples/Year						3
			$/sample						$150
		2.	Short List Analyses						
			# of Wells						10
			Samples/Year						9
			$/sample						$34
		Sub-total Stability Analyses							$7,560
	Total Monitoring and Sampling Costs								**$29,160**
VI.	**Mechanical Integrity Test (MIT) Costs**								
		Five Year MIT Unit Cost ($/well)							$71
		Number of Wells (30% of Inj. and Rest. Wells)							53
	Total Mechanical Integrity Testing Cost								**$3,728**
TOTAL WELLFIELD RESTORATION COST									**$441,484**
VII.	**Building Utility Costs**								**Central Plant**
		Electricity ($/Month)							$8,500
		Natural Gas ($/Month)							$2,500
		Number of Months							48
	Total Building Utility Costs								**$528,000**
XI.	**Vehicle Operation Costs**								
		Number of Pickup Trucks/Pulling Units (Gas)							5
		Unit Cost in $/hr (WDEQ Guideline No.12, Table D-1)							$10.13
		Unit Cost in $/hr (July 1998 dollars w/o escalator)							$8.80
		Average Operating Time (Hrs/Year)							1000
		Total Number of Years (Average)							4
	Total Vehicle Operation Costs								**$176,021**
XII.	**Labor Costs**								
		Number of Environmental Managers/RSOs							1
		$/Year							$60,000
		Number of Restoration Managers							1
		$/Year							$50,000
		Number of Environmental Technicians							1
		$/Year							$28,000
		Number of Operators/Laborers							4
		$/Year							$28,000
		Number of Maintenance Technicians							2
		$/Year							$28,000
		Number of Years							4
	Total Labor Costs								**$1,224,000**
XIII.	**Capital Costs**								
		Purchase RO Unit (800 gpm Unit)							$60,000
	Total Capital Costs								**$60,000**
TOTAL GROUND WATER RESTORATION COSTS									**$2,429,505**

POWER RESOURCES INC NORTH BUTTE URANIUM PROJECT
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FIRST YEAR OF OPERATION

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	$112	$112	$112
Subtotal Labor Costs	$11,228	$18,010	$4,032
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	$22,523	$36,127	$8,088
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	200	200	200
Number of Days	19.5	25	0
$/Day/Person	$112	$112	$112
Subtotal PVC/Steel Pipe Labor Costs	$4,368	$5,600	$0
Subtotal PVC/Steel Pipe Removal and Loading Costs	$4,368	$5,600	$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	$112	$112	$112
Subtotal Labor Costs	$1,176	$2,408	$0
Subtotal Pump Removal and Loading Costs	$1,176	$2,408	$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	$112	$112	$112
Total Labor Cost	$0	$0	$1,120
Total Dryer Dismantling and Loading Cost	$0	$0	$1,120

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

Equipment Removal and Loading				**CPP Ion Ex. Plant**	**Central Plant**	**Dryer Building**
	Subtotal Equipment Removal and Loading Costs per Facility			$28,067	$44,135	$9,208
	Total Equipment Removal and Loading Costs			**$81,410**		
II.	**Transportation and Disposal Costs (NRC-Licensed Facility)**					
	A.	Tankage				
			Volume of Tank Construction Material (ft^3)	835	1340	300
			Volume for Disposal Assuming 10% Void Space (ft^3)	919	1474	330
			Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62
		Subtotal Tankage Transportation and Disposal Costs		$5,165	$8,284	$1,855
	B.	PVC / Steel Pipe				
			Volume of Shredded PVC Pipe (ft^3)	44.8	80	0
			Volume for Disposal Assuming 10% Void Space (ft^3)	49	88	0
			Volume of Steel Pipe (ft^3)	296	0	0
			Volume for Disposal Assuming 10% Void Space (ft^3)	326	0	0
			Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62
		Subtotal PVC Pipe Transportation and Disposal Costs		$2,108	$495	$0
	C.	Pumps				
			Volume of Pumps (ft^3)	103.53	271	0
			Volume for Disposal Assuming 10% Void Space (ft^3)	114	298	0
			Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62
		Subtotal Pump Transportation and Disposal Costs		$641	$1,675	$0
	D.	Dryer				
			Dryer Volume (ft^3)	0	0	400
			Volume for Disposal Assuming Dryer Remains Intact (f^3)	0	0	400
			Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62
		Total Dryer Transportation and Disposal Costs		$0	$0	$2,248
	Subtotal Equipment Transportation and Disposal Costs per Facility			$7,914	$10,454	$4,103
	Total Equipment Transportation and Disposal Costs			**$22,471**		
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				$37,231	$55,839	$14,561
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS				**$107,631**		

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

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)	1	1	1	1	1	1	1	1	1
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50
Subtotal Wall Decontamination Costs	$5,405	$7,950	$0	$0	$0	$0	$1,550	$0	$0
B. Concrete Floor Decontamination									
Area to be Decontaminated (ft^2)	11,550	16,500	3,500	0	0	0	2750	0	0
Application Rate (Gallons/ft^2)	4	4	4	4	4	4	4	4	4
HCl Acid Wash, including labor ($/Gallon)	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50	$0.50
Subtotal Concrete Floor Decontamination Costs	$23,100	$33,000	$7,000	$0	$0	$0	$5,500	$0	$0
C. Deep Well Injection Costs									
Total Kgals for Injection	57.01	81.9	14	0	0	0	14.1	0	0
Deep Well Injection Unit Cost ($/Kgals)	$4.12	$1.39	$1.39	$1.39	$1.39	$1.39	$4.60	$1.39	$1.39
Subtotal Deep Well Injection Costs	$235	$114	$19	$0	$0	$0	$65	$0	$0
Subtotal Decontamination Costs per Building	$28,740	$41,064	$7,019	$0	$0	$0	$7,115	$0	$0
Total Decontamination Costs	**$83,938**								
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$)	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171	$0.171
Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15	$0.15
Subtotal Building Demolition Costs	$51,478	$85,797	$18,199	$36,896	$26,103	$594	$8,171	$25,966	$1,236
B. Concrete Floor									
Area of Concrete Floor (ft^2)	11,550	16,500	3500	9,934	7,028	0	2750	8,739	832
Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)	$3.17	$3.17	$3.17	$3.17	$3.17	$3.17	$3.05	$3.17	$3.17
Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator)	$2.75	$2.75	$2.75	$2.75	$2.75	$2.75	$2.65	$2.75	$2.75
Subtotal Concrete Floor Demolition Costs	$31,810	$45,443	$9,639	$27,359	$19,356	$0	$7,287	$24,068	$2,291
C. Concrete Footing									
Length of Concrete Footing (ft)	430	514	237	399	335	89	210	374	115
Demolition Unit Cost per WDEQ Guide. No.12,App.K ($/lin. ft)	$11.45	$11.45	$11.45	$11.45	$11.45	$11.45	$11.15	$11.45	$11.45
Unit Cost in $/lin. ft (July 1998 dollars w/o escalator)	$9.95	$9.95	$9.95	$9.95	$9.95	$9.95	$9.69	$9.95	$9.95
Subtotal Concrete Footing Demolition Costs	$4,276	$5,111	$2,354	$3,966	$3,336	$890	$2,032	$3,720	$1,148
Subtotal Demolition Costs per Building	$87,564	$136,351	$30,192	$68,221	$48,795	$1,484	$17,490	$53,754	$4,675
Total Demolition Costs	**$448,526**								
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 $0.54/cy									
Percentage (%)	100	100	100	100	100	100	100	100	100
Volume for Disposal (cubic yards)	12833	21389	4537	9198	6507	148	2037	6473	308
Disposal Unit Cost ($/cy)	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54	$0.54
Subtotal On-Site Disposal Costs	$6,930	$11,550	$2,450	$4,967	$3,514	$80	$1,100	$3,496	$166
2. NRC-Licensed Facility									

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FIRST YEAR OF OPERATION

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$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal Building Disposal Costs	$6,930	$11,550	$2,450	$4,967	$3,514	$80	$1,100	$3,496	$166
B. Concrete Floor									
Area of Concrete Floor (ft^2)	11550	16500	3500	9934	7028	0	2750	8739	1186
Average Thickness of Concrete Floor (ft)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Volume of Concrete Floor (ft^3)	8662.5	12375	2625	7450.5	5271	0	2062.5	6554.25	889.5
Volume of Concrete Floor (cy)	321	458	97	276	195	0	76	243	33
1. On-Site									
Percentage (%)	75	75	75	100	100	100	75	100	100
Volume for Disposal (cy)	241	344	73	276	195	0	57	243	33
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07
Subtotal On-Site Disposal Costs	$980	$1,401	$297	$1,124	$795	$0	$233	$989	$134
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$)	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00	$2.00
Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62	$5.62
Subtotal NRC-Licensed Facility Disposal Costs	$22,007	$23,574	$5,001	$0	$0	$0	$3,929	$0	$0
Subtotal Concrete Floor Disposal Costs	$22,987	$24,975	$5,298	$1,124	$795	$0	$4,162	$989	$134
C. Concrete Footing									
Length of Concrete Footing (ft)	430	514	237	399	335	89	210	374	124
Average Depth of Concrete Footing (ft)	4	4	4	4	4	4	4	4	4
Average Width of Concrete Footing (ft)	1	1	1	1	1	1	1	1	1
Volume of Concrete Footing (ft^3)	1720	2055	947	1595	1341	358	839	1496	496
Volume of Concrete Footing (cy)	64	76	35	59	50	13	31	55	18
Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69	$4.69
Unit Cost in $/cy (July 1998 dollars w/o escalator)	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07	$4.07
Subtotal Concrete Footing Disposal Costs	$260	$310	$143	$241	$202	$54	$127	$226	$75
Subtotal Disposal Costs per Building	$30,177	$36,835	$7,891	$6,332	$4,511	$134	$5,389	$4,711	$375
Total Disposal Costs	**$96,355**								
III. 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	$147,481	$215,250	$46,102	$75,553	$53,306	$1,618	$30,994	$58,465	$5,050
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	**$633,819**								

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)	$0.31
		Subtotal Wellfield Piping Removal and Loading Costs		$3,100
	B.	Transport and Disposal Costs (NRC-Licensed Facility)		
			Average Diameter of Piping (inches)	2
			Chipped Volume Reduction (ft^3/ft)	0.005
			Chipped Volume per Wellfield (ft^3)	50
			Volume for Disposal Assuming 10% Void Space (ft^3)	55
			Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62
		Subtotal Wellfield Piping Transport and Disposal Costs		$309
	Wellfield Piping Costs per Wellfield			$3,409
	C.	Capitol Costs		
			PVC Pipe Shredder	$40,000
	Total Wellfield Piping Costs			**$43,409**
II.	**Well Pumps and Tubing**			
		Assumptions:		
			Pump and tubing removal costs included under ground water restoration labor costs	
			60% of production/injection wells contain pumps and/or tubing	
	A.	Pump and Tubing Transportation and Disposal		
			Number of Production Wells	101
			Number of Injection Wells	175
		1.	Pump Volume	
			Number of Production Wells with Pumps	61
			Average Pump Volume (ft^3)	1
			Pump Volume per Wellfield (ft^3)	61
		2.	Tubing Volume	
			Assumptions:	
			Average tubing length/wellfield based on average well depth minus 25 ft	
			Number of Production Wells with Tubing	61
			Number of Injection Wells with Tubing	105
			Average Tubing Length per Well (ft)	725
			Tubing Length per Wellfield (ft)	120350
			Diameter of Production Well Fiberglass Tubing (inches)	2
			Diameter of Injection Well HDPE Tubing (inches)	1.25
			Chipped Volume Reduction (ft^3/ft)	0.005
			Chipped Volume per Wellfield (ft^3)	602
			Volume of Pump and Tubing (ft^3)	663
			Volume for Disposal Assuming 10% Void Space (ft^3)	729
			Transportation and Disposal Unit Cost ($/$ft^3$)	$5.62

Wellfield Buildings and Equipment Removal and Disposal											**Mine Unit-1**
	Total Pump and Tubing Costs										**$4,097**
III.	**Buried Trunkline**										
		Assumptions:									
		Length of Trunkline Trench (ft)									2600
	A.	Removal and Loading									
			Main Pipeline Removal Unit Cost ($/ft of trench)								$0.85
		Subtotal Trunkline Removal and Loading Costs									$2,210
	B.	Transport and Disposal Costs (NRC-Licensed Facility)									
		1.	3" HDPE Trunkline								
				Piping Length (ft)							2600
				Chipped Volume Reduction (ft^3/ft)							0.022
				Chipped Volume (ft^3)							57.2
		2.	6" HDPE Trunkline								
				Piping Length (ft)							5200
				Chipped Volume Reduction (ft^3/ft)							0.078
				Chipped Volume (ft^3)							405.6
		3.	8" HDPE Trunkline								
				Piping Length (ft)							5000
				Chipped Volume Reduction (ft^3/ft)							0.15
				Chipped Volume (ft^3)							750
		3.	10" HDPE Trunkline								
				Piping Length (ft)							0
				Chipped Volume Reduction (ft^3/ft)							0.277
				Chipped Volume (ft^3)							0
		4.	12" HDPE Trunkline								
				Piping Length (ft)							0
				Chipped Volume Reduction (ft^3/ft)							0.293
				Chipped Volume (ft^3)							0
		5.	14" HDPE Trunkline								
				Piping Length (ft)							0
				Chipped Volume Reduction (ft^3/ft)							0.359
				Chipped Volume (ft^3)							0
		5.	16" HDPE Trunkline								
				Piping Length (ft)							2600
				Chipped Volume Reduction (ft^3/ft)							0.4
				Chipped Volume (ft^3)							1040
			Total Trunkline Chipped Volume (ft^3)								2252.8
			Volume for Disposal Assuming 10% Void Space (ft^3)								2478
			Transportation and Disposal Unit Cost ($/$ft^3$)								$5.62
		Subtotal Trunkline Transport and Disposal Costs									$13,926

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

Wellfield Buildings and Equipment Removal and Disposal											**Mine Unit-1**
	Total Trunkline Decommissioning Costs										**$16,136**
IV.	**Well Houses**										
	Total Quantity										5
	Average Well House Volume (ft^3)										12.5
	A.	Removal									
			Total Volume (ft^3)								62.5
			Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)								$0.165
			Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)								$0.14
		Subtotal Well House Demolition Costs									$9
	B.	Survey and Decontamination									
			Assumptions:								
				Cost per Well House							$5
		Subtotal Survey and Decontamination Costs									$25
	C.	Disposal at NRC licensed Facility									
			Total Volume (cy)								2
			Volume for Disposal Assuming 10% Void Space (cy)								3
			Transportation and Disposal Unit Cost ($/$ft^3$)								$5.62
		Subtotal NRC Licensed Facility Disposal Costs									$17
	Total Well House Removal and Disposal Costs										**$51**
VI.	**Header Houses**										
		Total Quantity									5
		Average Header House Volume (ft^3)									2700
	A.	Removal									
			Total Volume (ft^3)								13500
			Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^3$)								$0.171
			Unit Cost in $/$ft^3$ (July 1998 dollars w/o escalator)								$0.15
		Subtotal Building Demolition Costs									$2,006
	B.	Survey and Decontamination									
			Assumptions:								
				Cost per Header House							$200
		Subtotal Survey and Decontamination Costs									$1,000
	C.	Disposal									
			Total Volume (cy)								500
			Volume for Disposal Assuming 10% Void Space (cy)								550
			Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)								$5.44
			Unit Cost in $/cy (July 1998 dollars w/o escalator)								$4.73
		Subtotal On-Site Disposal Costs									$2,599
	Total Header House Removal and Disposal Costs										**$5,605**
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS											**$69,298**

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

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)		$280
	Total Wellfield Abandonment Costs			**$87,999**
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				**$136,699**

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)							$200	
	Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs								$3,000	
	Total Wellfield Area Reclamation Costs								**$3,000**	
III	**Satellite Area Reclamation**								**NB-1**	
		Assumptions:								
			Area of Disturbance (acres)						2.05	
			Average Depth of Stripped Topsoil (ft)						1	
			Surface Grade: Level Ground							
			Average Length of Topsoil Haul (ft)						1000	
		A.	Ripping Overburden with Dozer							
				Ripping Unit Cost per WDEQ Guideline No.12, App.I1 ($/acre)					$663.93	
				Unit Cost in $/acre (July 1998 dollars w/o escalator)					$576.83	
			Subtotal Ripping Costs						$1,182	
		B.	Topsoil Application with Scraper							
				Volume of Topsoil Removed (cy)					3307	
				Application Unit Cost per WDEQ Guideline No.12, App.C ($/cy)					$0.71	
				Unit Cost in $/cy (July 1998 dollars w/o escalator)					$0.62	
			Subtotal Topsoil Application Costs						$2,040	
		C.	Discing and Seeding							
				Discing/Seeding Unit Cost ($/acre)					$200	
			Subtotal Discing/Seeding Costs						$410	
	Total Satellite Building Area Reclamation Costs								**$3,632**	
TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS									**$6,632**	

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$)						$3.17	
			Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator)						$2.75	
			Average Thickness of Concrete Floor (ft)						0.50	
			Volume of Concrete Floor (ft^3)						6,534	
			Volume of Concrete Floor (cy)						242	
			On-Site Disposal Unit Cost per WDEQ Guideline No.12,App.K ($/cy)						$4.69	
			Unit Cost in $/cy (July 1998 dollars w/o escalator)						$4.07	
		Subtotal Concrete Pad Demolition and Disposal Costs							$36,977	
	B.	Gravel Road Base Removal								
			Assumptions							
				Average haul distance (ft)					1000	
			Gravel Road Base Width (ft)							
			Gravel Road Base Area (acres)						8.0	
			Average Road Base Depth (ft)						0.5	
			Volume of Road Base (cy)						6453	
			Removal Unit Cost per WDEQ Guideline No.12, App.C ($/cy)						$0.71	
			Unit Cost in $/cy (July 1998 dollars w/o escalator)						$0.62	
		Subtotal Gravel Road Base Removal Costs							$3,981	
	B.	Ripping Overburden with Dozer								
			Overburden Surface Area (acres)						10.6	
			Ripping Unit Cost per WDEQ Guideline No.12, App.I1 ($/acre)						$663.93	
			Unit Cost in $/acre (July 1998 dollars w/o escalator)						$576.83	
		Subtotal Ripping Overburden Costs							$6,097	
	C.	Topsoil Application								
			Assumptions:							
				Area of surface disturbance (ft^2)					460426	
				Average thickness of topsoil (ft)					1	
				Average haul distance (ft)					2000	
				Surface grade (%)					0%	
			Volume of Topsoil (cy)						17,053	
			Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)						$0.92	
			Unit Cost in $/cy (July 1998 dollars w/o escalator)						$0.80	
		Subtotal Topsoil Application Costs							$13,630	
	D.	Discing/Seeding								
			Assumptions							
			Surface Area (acres)						10.57	
			Discing/Seeding Unit Cost ($/acre)						$200	
		Total Discing/Seeding Costs							$2,114	
	Total CPF/Office/Yard Area Reclamation								**$58,818**	
II.	**Access Road Reclamation**								**CPP Access Rd.**	**Access to WF**
	A.	Assumptions								
			Surface grade						1%	5%
		Length of Road (ft)							7000	500

Miscellaneous Reclamation											
			Width of Road (ft)							40	14
			Area of road (acres)							4.75	5
	B.		Gravel Road Base Removal								
				Assumptions							
					Average haul distance (ft)					1000	1000
				Gravel Road Base Width (ft)						30	14
				Gravel Road Base Area (acres)						4.82	0.16
				Average Road Base Depth (ft)						0.5	0.5
				Volume of Road Base (cy)						3889	130
				Removal Unit Cost per WDEQ Guideline No.12, App.C ($/cy)						$0.71	$0.71
				Unit Cost in $/cy (July 1998 dollars w/o escalator)						$0.62	$0.62
			Subtotal Gravel Road Base Removal Costs							$2,399	$80
	C.		Ripping Overburden with Dozer								
				Overburden Surface Area (acres)						4.8	5.0
				Ripping Unit Cost per WDEQ Guideline No.12, App.I1 ($/acre)						$663.93	$663.93
				Unit Cost in $/acre (July 1998 dollars w/o escalator)						$576.83	$576.83
			Subtotal Ripping Overburden Costs							$2,740	$2,884
	D.		Topsoil Application								
				Assumptions							
					Average haul distance (ft)					1500	500
				Topsoil Surface Area (ft^2)						206910	217800
				Depth of Topsoil (ft)						0.5	0.5
				Volume of Topsoil (cy)						3832	4033
				Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)						$1.50	$0.82
				Unit Cost in $/cy (July 1998 dollars w/o escalator)						$1.30	$0.71
			Subtotal Topsoil Application Costs							$4,993	$2,873
	E.		Discing/Seeding								
				Assumptions							
				Surface Area (acres)						4.8	5.0
				Discing/Seeding Unit Cost ($/acre)						$200	$200
			Subtotal Discing/Seeding Costs							$950	$1,000
	Subtotal Reclamation Costs per Access Road									$11,082	$6,837
	Total Access Road Reclamation Costs									**$17,919**	
III.	**Trunk Lines #1 and #2**									**Trunk Line #1 (To MU-1)**	
				Length of Trench (ft)						4000	
	A.		Removal and Loading								
				Main Pipeline Removal Unit Cost ($/ft of trench)						$0.85	
			Subtotal Trunkline Removal and Loading Costs							$3,400	
	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	

Miscellaneous Reclamation											
		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$)							$5.62	
		Subtotal Pipeline Disposal Costs								$14,292	
	C.	Discing/Seeding									
			Assumptions:								
				Width of Pipeline Trench (ft)						4	
				Area of Pipeline Trench (acres)						0.4	
			Discing/Seeding Unit Cost ($/acre)							$200	
		Subtotal Discing/Seeding Costs								$73	
	Subtotal Reclamation Costs per Pipeline									$17,765	
	Total Pipeline Reclamation Costs									**$17,765**	
IV.	**Settling Basin/Evap. Pond Reclamation**									**Evaporation Pond**	
	A.	Soil Sampling and Monitoring									
			Number of Soil Samples							10	
			$/Sample							$60	
		Subtotal Soil Sampling and Monitoring Costs								$600	
	B.	Liner/Subsoil Removal and Disposal									
				Removal and Loading Unit Cost based on engineer's design							
					report and Cat Performance Handbook						
			Width of Pond (ft)							112	
			Length of Pond (ft)							487	
			Depth of Pond (ft)							10	
			Surface area of pond (ft^2)							54544	
			Surface area of both ponds (ft^2)							109088	
		1.	Removal and Loading								
				Volume of Geotextile Liner (cy)						272.72	
				GeotextileLiner Removal and Loading Unit Cost ($/cy)						$3	

Miscellaneous Reclamation								
				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				$1,826	
		2.	Transportation and Disposal					
				Volume of Geotextile Liner (ft^3)			272.72	
				Volume of Geotextile Liner @ 40% void (ft^3)			455	
				Shredded PVC Pipe Volume Reduction (ft^3/ft)			0.016	
				Volume of Shredded PVC Pipe (ft^3)			15	
				Transportation and Disposal Unit Cost ($/$ft^3$)			$5.62	
			Subtotal Transportation and Disposal Costs				$2,637	
		Subtotal Liner Removal and Disposal Costs					$4,463	
	C.	Grade and Contour						
				Volume of Embankment Material (CY)			16,900	
				Average Grade (%)			0	
				Distance (ft)			100	
				Material Moving Unit Cost per WDEQ Guideline No.12, App.E ($/cy)			$0.092	
				Unit Cost in $/cy (July 1998 dollars w/o escalator)			$0.08	
			Subtotal Grade and Contour Costs				$1,351	
	C.	Topsoil Application						
			Assumptions:					
				Area of surface disturbance (ft^2)			115000	
				Average thickness of topsoil (ft)			1	
				Average haul distance (ft)			1000	
				Surface grade (%)			0%	
			Volume of Topsoil (cy)				4,259	
			Topsoil Unit Cost per WDEQ Guideline No.12, App.C ($/cy)				$0.71	
			Unit Cost in $/cy (July 1998 dollars w/o escalator)				$0.62	
		Subtotal Topsoil Application Costs					$2,627	
	D.	Discing/Seeding						
			Assumptions:					
				Area of surface disturbance (acres)			2.6	
			Discing/Seeding Unit Cost ($/acre)				$200	
		Subtotal Discing/Seeding Costs					$520	
	Total Settling Basin/Evap. Ponds Reclamation Costs						**$9,561**	
V.	**Miscellaneous Structures**							
	B.	Potable Water Wells						
			Total Depth (ft) (Two 5-inch Diameter Wells, @ 750 ft)				1,500	
			Well Abandonment Unit Cost ($/100 ft)				$6.70	
		Subtotal Potable Water Wells Abandonment Costs					$100.50	
	C.	Fuel Area						
			Concrete Floor					
				Area of Concrete Floor (ft^2)			375	
				Demolition Unit Cost per WDEQ Guideline No.12,App.K ($/$ft^2$)			$3.17	
				Unit Cost in $/$ft^2$ (July 1998 dollars w/o escalator)			$2.75	
			Subtotal Concrete Floor Demolition Costs				$1,033	
			Concrete Footing					
				Length of Concrete Footing (ft)			77	
				Demolition Unit Cost per WDEQ Guide. No.12,App.K ($/lin. ft)			$11.45	

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

Miscellaneous Reclamation												
					Unit Cost in $/lin. ft (July 1998 dollars w/o escalator)						$9.95	
				Subtotal Concrete Footing Demolition Costs							$771	
			Subtotal Fuel Area Costs								$1,804	
	Total Miscellaneous Structures Reclamation Costs										**$2,938**	
I.	**Wellfield Pattern Area, Laydown Area, and Road Reclamation**											
			Area (acres)								29.6	
			Disking/Seeding Unit Cost ($/acre)								$200	
	Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs										$5,920	
	Total Wellfield Area Reclamation Costs										**$5,920**	
TOTAL MISCELLANEOUS RECLAMATION COSTS											**$112,920**	

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

RADIUM TREATMENT			
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	= $	0.019
	By Product Disposal of Sludge	= $	0.097
TOTAL RADIUM TREATMENT COSTS PER 1000 GALLONS		**= $**	**0.31**

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

GROUNDWATER SWEEP (GWS)

Assumptions:

1. All pumps are 5 hp pumping at 5.0 gpm
2. Cost of electricity = $0.03/kwh
3. All water pumped is disposed at WDW with a 20 hp pump
4. Repair and maintenance costs estimated at $0.03/1000 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

$$\frac{1000\ \text{gal}}{} \times \frac{5\ \text{hp}}{5\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.03}{\text{kwh}} = \$\ 0.37$$

Pumping to WDW Costs per 1000 Gallons

$$\frac{1000\ \text{gal}}{} \times \frac{75\ \text{hp}}{200\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.03}{\text{kwh}} = \$\ 0.14$$

Repair and Maintenance Costs per 1000 Gallons = $ 0.03

Process Sampling and Analysis Costs per 1000 Gallons = $ 0.03

TOTAL GWS COSTS PER 1000 GALLONS **= $ 0.57**

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

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 = $0.03/kwh											
3.	80% permeate/20% reject split											
4.	Membrane life of 4 years with a cost of $695 per membrane element											
5.	Includes cost of pumping from wellfield to RO Unit											
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											
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						= $	0.17				
	Chemicals						= $	0.26				
	Membrane Replacement						= $	0.15				
	Repair and Maintenance						= $	0.26				
	Pumping from Wellfield						= $	0.37				
	Pumping to Wellfield						=$	0.019				
	Pumping to WDW											
		$	0.14	X	0.2		= $	0.0028				
	Process Sampling and Analysis						= $	0.03				
TOTAL RO COSTS PER 1000 GALLONS							**= $**	**1.26**				

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

CHEMICAL REDUCTANT																	
Assumptions:																	
1.	Bioremediation is utilized																
2.	Based on actual 2003-2004 operating costs during restoration activities																
TOTAL CHEMICAL REDUCTANT COSTS PER Kgal															**= $**	**0.33**	
										July 1998 Dollars					**= $**	**0.29**	

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

ELUTION PROCESSING										
Assumptions:										
1.	Based on actual operating costs									
TOTAL PROCESSING COSTS PER ELUTION									**= $**	**525**

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

DEEP WELL INJECTION

Assumptions:

1. Pump 75 hp pumping at 200 gpm
2. Cost of electricity = $0.03/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 $1.25/1000 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

$$\frac{1000\ \text{gal}}{} \times \frac{75\ \text{hp}}{200\ \text{gpm}} \times \frac{1\ \text{hr}}{60\ \text{min}} \times \frac{0.746\ \text{kwh}}{\text{hp}} \times \frac{\$\ 0.03}{\text{kwh}} = \$\ 0.14$$

Repair and Maintenance Costs per 1000 Gallons = $ 1.25

TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS **= $ 1.39**

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

WELL ABANDONMENT														
Assumptions:														
1.	Use backhoe for 0.5 hr/well to dig and reclaim pit at cost of $50/hr.													
2.	Use hose reel/tow vehicle for 2 hr/well to pull hoses and pump plug gel at cost of $35/hr.													
3.	Use cementer/tow vehicle for 1 hr/well to pump plug gel at cost of $45/hr.													
4.	Labor for backhoe, hose reel, cementer will require 2 workers at 3.5 hr/well at cost of $15/hr.													
5.	Materials include one hole plug at $1.75 and one sack of plug gel/100 ft of 5 inch well casing.													
	Cost of plug gel is $6.70/sack.													
Well Abandonment Costs														
	Fixed Costs													
	Backhoe													
		0.5	hours	X	$	50	per hour			=$	25.00			
	Hose Reel/Tow Vehicle													
		2	hours	X	$	35	per hour			=$	70.00			
	Cementer/Tow Vehicle													
		1	hours	X	$	45	per hour			=$	45.00			
	Labor													
		7	man	X	$	15.00	per man			=$	105.00			
			hours				hour							
	Materials													
		1	hole	X	$	1.75	per hole			=$	1.75			
			plug				plug							
						Total Fixed Costs				=$	246.75			
	Variable Costs		(per 100 ft of well depth)											
	Materials													
		1	sack plug gel			X	$	6.70	per	=$	6.70			
			per 100 feet						sack					
	Cost per Well per Unit of Average Depth													
					Well Depth (ft)									
						450				**=$**	**277**			
						500				**=$**	**280**			
						550				**=$**	**284**			
						600				**=$**	**287**			
						650				**=$**	**290**			
						700				**=$**	**294**			
						750				**=$**	**297**			
						800				**=$**	**300**			
						850				**=$**	**304**			
						900				**=$**	**307**			
						950				**=$**	**310**			

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

FIVE YEAR MECHANICAL INTEGRITY TESTS (MIT)															
Assumptions:															
1.	Based on 1999 PRI costs.														
2.	Use Pulling Unit for 0.25 hr/well at cost of $45/hr.														
3.	Use MIT Unit for 1.5 hr/well at cost of $20/hr.														
4.	Labor for operation of pulling unit will require 2 workers at $15/hr														
5.	Labor for operation of MIT Unit will require 1 worker at $15/hr														
MIT Costs per Well															
Equipment:															
	Pulling Unit														
		0.25	hours	X	$	45	per hour					=$	11.25		
	MIT Unit														
		1.5	hours	X	$	20	per hour					=$	30.00		
Labor:															
	Pulling Unit														
		0.25	hours	X	$	15	per hour	X	2	workers		=$	$7.50		
	MIT Unit														
		1.5	hours	X	$	15	per hour					=$	22.50		
							MIT COST PER WELL					**=$**	**71**		

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

MAIN PIPELINE REMOVAL													
Assumptions:													
1.	Trenching with trackhoe at 1500 ft/day												
2.	Pipeline extraction and backfilling with trackhoe at 1500 ft/day												
3.	Trackhoe rental: $1600/week												
4.	Fuel cost: $9/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												
		$	1600	X	1	week	X	2	days	=$	0.43		
		week			5	days		1500	ft				
	Fuel												
		$	9	X	8	hrs	X	2	days	=$	0.10		
		hour			1	day		1500	ft				
Labor													
	Trackhoe Operation												
		$	15	X	8	man hrs	X	2	days	=$	0.16		
		man hr			1	day		1500	ft				
	Pipeline Extraction												
		$	15	X	16	man hrs	X	1	day	=$	0.16		
		man hr			1	day		1500	ft				
MAIN PIPELINE REMOVAL COST PER FT OF TRENCH										**=$**	**0.85**		

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

WELLFIELD PIPING REMOVAL														
Assumptions:														
1.	Trenching with backhoe at 3000 ft/day													
2.	Pipeline extraction and backfilling with backhoe at 3000 ft/day													
3.	Backhoe rental: $750/week													
4.	Fuel cost: $9/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													
		$	750	X	1	week	X	2	days	=$	0.10			
		week			5	days		3000	ft					
	Fuel													
		$	9	X	8	hrs	X	2	days	=$	0.05			
		hour			1	day		3000	ft					
Labor														
	Backhoe Operation													
		$	15	X	8	man hrs	X	2	days	=$	0.08			
		man hr			1	day		3000	ft					
	Pipeline Extraction													
		$	15	X	16	man hrs	X	1	day	=$	0.08			
		man hr			1	day		3000	ft					
	MAIN PIPELINE REMOVAL COST PER FT OF PIPE									**=$**	**0.31**			

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 $0.60/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 $36.30/acre (WDEQ Guideline No. 12, Appendix P)
4. Grading of scarified roads prior to topsoil application at cost of $38.45/acre (WDEQ Guideline No. 12, Appendix G)
5. Topsoil applied at cost of $0.60/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 $200/acre is based on actual contractor costs

Gravel Road Base Removal Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{0.25\ \text{ft}}{} \times \frac{10\ \text{ft}}{} \times \frac{1\ \text{cy}}{27\ \text{ft}^3} \times \frac{\$0.60}{\text{cy}} = \$\ 56$$

Scarification Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$36.30}{\text{acre}} = \$\ 21$$

Grading Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$38.45}{\text{acre}} = \$\ 22$$

Topsoil Application Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{0.67\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{cy}}{27\ \text{ft}^3} \times \frac{\$0.60}{\text{cy}} = \$\ 372$$

Discing/Seeding Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{25\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$200}{\text{acre}} = \$\ 115$$

TOTAL WELLFIELD ROAD RECLAMATION COSTS PER 1000 FT OF ROAD (BEFORE JANUARY 1, 1997) = $ 586

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 $36.30/acre (WDEQ Guideline No. 12, Appendix P)
3. Grading of scarified roads prior to topsoil application at cost of $38.45/acre (WDEQ Guideline No. 12, Appendix G)
4. Topsoil applied at cost of $0.60/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 $200/acre is based on actual contractor costs

Scarification Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{20\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$36.30}{\text{acre}} = \$\ 17$$

Grading Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{20\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$38.45}{\text{acre}} = \$\ 18$$

Topsoil Application Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{0.40\ \text{ft}}{} \times \frac{20\ \text{ft}}{} \times \frac{1\ \text{cy}}{27\ \text{ft}^3} \times \frac{\$0.60}{\text{cy}} = \$\ 178$$

Discing/Seeding Costs per 1000 ft of Road

$$\frac{1000\ \text{ft}}{} \times \frac{20\ \text{ft}}{} \times \frac{1\ \text{acre}}{4.356\text{E+}04\ \text{ft}^2} \times \frac{\$200}{\text{acre}} = \$\ 92$$

TOTAL WELLFIELD ROAD RECLAMATION COSTS PER 1000 FT OF ROAD (AFTER JANUARY 1, 1997) = $ 305

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**		
			$ 66.67	/yd^3	+	$ 85.00	/yd^3	=	$ 151.67	/yd^3	
								=	**$ 5.62**	**/ft^3**	

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

DISKING/SEEDING						
Assumptions:						
1.	Based on actual contractor costs					
TOTAL DISKING/SEEDING COSTS PER ACRE					**= $**	**200**

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	