

POWER RESOURCES INC REYNOLDS RANCH URANIUM PROJECT
SURETY ESTIMATE- FIRST YEAR OF OPERATION

Ground Water Restoration				Mine Unit- 21
PV Assumptions				
Wellfield Area (ft2)				1,334,798
Wellfield Area (acres)				30.6
Affected Ore Zone Area (ft2)				1,334,798
Avg. Completed Thickness				18
Porosity				0.27
Flare Factor				1.5
Affected Volume (ft3)				36,039,546
Kgallons per Pore Volume				72,785
Number of Patterns in Unit(s)				
Current				0
Estimated next report period				128
Total Estimated				128
Number of Wells in Unit(s)				
Production Wells				
Current				0
Estimated next report period				124
Total Estimated				124
Injection Wells				
Current				0
Estimated next report period				219
Total Estimated				219
Monitoring Wells				
Current				0
Estimated next report period				51
Total Estimated				51
Number of Wells per Wellfield				394
Total Number of Wells				
Average Well Depth (ft)				850
I. Ground Water Sweep Costs				
PV's Required				1
Total Kgals for Treatment				72,785
Ground Water Sweep Unit Cost (\$/Kgal)				\$1.35
Total Ground Water Sweep Costs				\$98,304
II. Reverse Osmosis Costs				
PV's Required				4
Total Kgals for Treatment				291,142
Reverse Osmosis Unit Cost (\$/Kgal)				\$1.03
Total Reverse Osmosis Costs				\$299,876
III. Chemical Reductant Costs				
Total Kgals for Treatment (2 Pore Volumes)				145571
Chemical Reductant Unit Cost (\$/Kgal)				\$0.32
Total Chemical Reductant Costs				\$46,583

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Ground Water Restoration				Mine Unit- 21
V. Monitoring and Sampling Costs				
A.	Active Restoration Period			
	Estimated Restoration Period (Years)			5
	1.	UCL Sampling		
		# of Wells		55
		\$/sample		\$50
		Samples/Year		6
	Sub-total Restoration Analyses			\$82,500
B.	Stability Period			
	Estimated Stabilization Period (Years)			1
	1.	Full Suite Analyses		
		# of Wells		20
		Samples/Year		3
		\$/sample		\$200
	2.	Short List Analyses		
		# of Wells		20
		Samples/Year		9
		\$/sample		\$70
	Sub-total Stability Analyses			\$24,600
Total Monitoring and Sampling Costs				\$107,100
VI. Mechanical Integrity Test (MIT) Costs				
	Five Year MIT Unit Cost (\$/well)			\$180
	Number of Wells (30% of Inj. and Rest. Wells)			66
Total Mechanical Integrity Testing Cost				\$11,826
TOTAL WELLFIELD RESTORATION COST				\$563,689
VII. Building Utility Costs				Satellite RR-1
	Electricity (\$/Month)			\$8,500
	Natural Gas (\$/Month)			\$765
	Number of Months			36
Total Building Utility Costs				\$333,540
XI. Vehicle Operation Costs				
	Number of Pickup Trucks/Pulling Units (Gas)			5
	Unit Cost in \$/hr (WDEQ Guideline No.12, Table D-1)			\$20.21
	Average Operating Time (Hrs/Year)			1000
	Total Number of Years (Average)			4
Total Vehicle Operation Costs				\$404,200
XII. Labor Costs				
	Number of Environmental Technicians			1

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Ground Water Restoration					Mine Unit- 21
		\$/Year			\$34,000
		Number of Operators/Laborers			4
		\$/Year			\$34,000
		Number of Maintenance Technicians			1
		\$/Year			\$34,000
		Number of Years			4
Total Labor Costs					\$816,000
XIII.	Capital Costs				
		Purchase RO Unit (1X400 gpm Units)			\$600,000
Total Capital Costs					\$600,000
TOTAL GROUND WATER RESTORATION COSTS					\$2,717,429

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Equipment Removal and Loading				Satellite RR-1
I. Removal and Loading Costs				
A.	Tankage			
	Number of Tanks			10
	Volume of Tank Construction Material (ft ³)			397
1.	Labor			
	Number of Persons			3
	Ft ³ /Day			25
	Number of Days			16
	\$/Day/Person			\$120
	Subtotal Labor Costs			\$5,760
2.	Equipment			
	Number of Days			16
	\$/Day			\$338
	Subtotal Equipment Costs			\$5,408
	Subtotal Tankage Removal and Loading Costs			\$11,168
B.	PVC/Steel Pipe			
	PVC Pipe Footage			4000
	Average PVC Pipe Diameter (inches)			3
	Shredded PVC Pipe Volume Reduction (ft ³ /ft)			0.016
	Volume of Shredded PVC Pipe (ft ³)			64
	Steel Pipe Footage			0
	Average Steel Pipe Diameter (inches)			0
	Volume (ft ³)			0
1.	Labor			
	Number of Persons			2
	Ft/Day			200
	Number of Days			20
	\$/Day/Person			\$120
	Subtotal PVC/Steel Pipe Labor Costs			\$4,800
	Subtotal PVC/Steel Pipe Removal and Loading Costs			\$4,800
C.	Pumps			
	Number of Pumps			13
	Average Volume (ft ³ /pump)			4.93
	Volume of Pumps (ft ³)			64.09
1.	Labor			
	Number of Persons			1
	Pumps/Day			2
	Number of Days			7
	\$/Day/Person			\$120
	Subtotal Labor Costs			\$840
	Subtotal Pump Removal and Loading Costs			\$840
Total Equipment Removal and Loading Costs				\$16,808

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Equipment Removal and Loading							Satellite RR-1
II. Transportation and Disposal Costs (NRC-Licensed Facility)							
A.	Tankage						
		Volume of Tank Construction Material (ft ³)					397
		Volume for Disposal Assuming 10% Void Space (ft ³)					436
		Transportation and Disposal Unit Cost (\$/ft ³)					\$12.00
		Subtotal Tankage Transportation and Disposal Costs					\$5,232
B.	PVC / Steel Pipe						
		Volume of Shredded PVC Pipe (ft ³)					64
		Volume for Disposal Assuming 10% Void Space (ft ³)					70
		Volume of Steel Pipe (ft ³)					0
		Volume for Disposal Assuming 10% Void Space (ft ³)					0
		Transportation and Disposal Unit Cost (\$/ft ³)					\$12.00
		Subtotal PVC Pipe Transportation and Disposal Costs					\$840
C.	Pumps						
		Volume of Pumps (ft ³)					64
		Volume for Disposal Assuming 10% Void Space (ft ³)					70
		Transportation and Disposal Unit Cost (\$/ft ³)					\$5.62
		Subtotal Pump Transportation and Disposal Costs					\$393
		Total Equipment Transportation and Disposal Costs					\$6,465
III. Health and Safety Costs							
		Radiation Safety Equipment					\$1,250
		Total Health and Safety Costs					\$1,250
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS							\$24,523

POWER RESOURCES INC REYNOLDS RANCH URANIUM PROJECT
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					DDW#3	Satellite
Building Demolition and Disposal					Building	RR-1
I. Decontamination Costs						
A.	Wall Decontamination					
	Area to be Decontaminated (ft ²)				0	0
	Application Rate (Gallons/ft ²)				1	1
	HCl Acid Wash, including labor (\$/Gallon)				\$0.63	\$0.63
	Subtotal Wall Decontamination Costs				\$0	\$0
B.	Concrete Floor Decontamination					
	Area to be Decontaminated (ft ²)				0	9000
	Application Rate (Gallons/ft ²)				1	1
	HCl Acid Wash, including labor (\$/Gallon)				\$0.47	\$0.47
	Subtotal Concrete Floor Decontamination Costs				\$0	\$4,230
C.	Deep Well Injection Costs					
	Total Kgals for Injection				0	9
	Deep Well Injection Unit Cost (\$/Kgals)				\$1.40	\$1.40
	Subtotal Deep Well Injection Costs				\$0	\$13
	Subtotal Decontamination Costs per Building				\$0	\$4,243
	Total Decontamination Costs				\$4,243	
II. Demolition Costs						
A.	Building					
	Assumptions:					
	Dryer bldg. demolition unit cost of \$0.73/ft ³ for additional radiation safety equipment					
	Volume of Building (ft ³)				660.3	402,000
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)				\$0.178	\$0.178
	Subtotal Building Demolition Costs				\$118	\$71,556
B.	Concrete Floor					
	Area of Concrete Floor (ft ²)				0	13400
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ²)				\$3.40	\$3.40
	Subtotal Concrete Floor Demolition Costs				\$0	\$45,560
C.	Concrete Footing					
	Length of Concrete Footing (ft)				0	463
	Demolition Unit Cost per WDEQ Guide. No.12,App.K (\$/lin. ft)				\$12.22	\$12.22
	Subtotal Concrete Footing Demolition Costs				\$0	\$5,658
	Subtotal Demolition Costs per Building				\$118	\$122,774
	Total Demolition Costs				\$122,892	
III. Disposal Costs						
A.	Building					
	Volume of Building (cy)				24	14889
	1. On-Site					
	Assumptions:					
	On-site disposal cost of \$0.54/cy					
	Percentage (%)				100	100

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					DDW#3	Satellite
Building Demolition and Disposal					Building	RR-1
				Volume for Disposal (cubic yards)	24	14889
				Disposal Unit Cost (\$/cy)	\$1.25	\$1.25
				Subtotal On-Site Disposal Costs	\$31	\$18,611
			2.	NRC-Licensed Facility		
				Percentage (%)	0	0
				Volume for Disposal (ft ³)	0	0
				Volume for Disposal Assuming 10% Void Space (ft ³)	0	0
				Transportation and Disposal Unit Cost (\$/ft ³)	\$12.00	\$12.00
				Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$0
				Subtotal Building Disposal Costs	\$31	\$18,611
			B.	Concrete Floor		
				Area of Concrete Floor (ft ²)	0	13400
				Average Thickness of Concrete Floor (ft)	0.75	0.75
				Volume of Concrete Floor (ft ³)	0	10050
				Volume of Concrete Floor (cy)	0	372
			1.	On-Site		
				Percentage (%)	0	75
				Volume for Disposal (cy)	0	279
				Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)	\$6.39	\$6.39
				Subtotal On-Site Disposal Costs	\$0	\$1,784
			2.	NRC-Licensed Facility		
				Assumptions:		
				Additional \$2.00/ft ³ for segregation of concrete		
				Percentage (%)	0	25
				Volume for Disposal (ft ³)	0	2513
				Segregation and Loading Unit Cost (\$/ft ³)	\$2.60	\$2.60
				Transportation and Disposal Unit Cost (\$/ft ³)	\$12.00	\$12.00
				Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$36,683
				Subtotal Concrete Floor Disposal Costs	\$0	\$38,467
			C.	Concrete Footing		
				Length of Concrete Footing (ft)	0	463
				Average Depth of Concrete Footing (ft)	4	4
				Average Width of Concrete Footing (ft)	1	1
				Volume of Concrete Footing (ft ³)	0	1852
				Volume of Concrete Footing (cy)	0	69
				Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)	\$6.39	\$6.39
				Subtotal Concrete Footing Disposal Costs	\$0	\$438
				Subtotal Disposal Costs per Building	\$31	\$57,516
				Total Disposal Costs	\$57,547	
			III.	Health and Safety Costs		
				Radiation Safety Equipment	\$0	\$1,000
				Total Health and Safety Costs	\$1,000	
				SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	\$149	\$185,533
				TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS	\$185,682	

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Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-21
I.	Wellfield Piping			
	Assumptions:			
		Number of Header Houses per Wellfield		6
		Length of Piping per Header House (ft)		2000
		Total Length of Piping (ft)		12000
	A.	Removal and Loading		
		Wellfield Piping Removal Unit Cost (\$/ft of pipe)		\$0.42
		Subtotal Wellfield Piping Removal and Loading Costs		\$5,040
	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)		60
		Volume for Disposal Assuming 10% Void Space (ft ³)		66
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.00
		Subtotal Wellfield Piping Transport and Disposal Costs		\$792
		Total Wellfield Piping Costs		\$5,832
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		124
		Number of Injection Wells		219
	1.	Pump Volume		
		Number of Production Wells with Pumps		74
		Average Pump Volume (ft ³)		1
		Pump Volume per Wellfield (ft ³)		74
	2.	Tubing Volume		
		Assumptions:		
		Average tubing length/wellfield based on average well depth minus 25 ft		
		Number of Production Wells with Tubing		74
		Number of Injection Wells with Tubing		131
		Average Tubing Length per Well (ft)		825
		Tubing Length per Wellfield (ft)		169125
		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)		846
		Volume of Pump and Tubing (ft ³)		920
		Volume for Disposal Assuming 10% Void Space (ft ³)		1012
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.00
		Subtotal Pump and Tubing Transport and Disposal Costs		\$12,144

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Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-21
Total Pump and Tubing Costs				\$12,144
III. Buried Trunkline				
Assumptions:				
Length of Trunkline Trench (ft)				7105
A. Removal and Loading				
Main Pipeline Removal Unit Cost (\$/ft of trench)				\$0.89
Subtotal Trunkline Removal and Loading Costs				\$6,323
B. Transport and Disposal Costs (NRC-Licensed Facility)				
1. 3" HDPE Trunkline				
Piping Length (ft)				7105
Chipped Volume Reduction (ft ³ /ft)				0.022
Chipped Volume (ft ³)				156.31
2. 6" HDPE Trunkline				
Piping Length (ft)				3520
Chipped Volume Reduction (ft ³ /ft)				0.078
Chipped Volume (ft ³)				274.56
3. 8" HDPE Trunkline				
Piping Length (ft)				2400
Chipped Volume Reduction (ft ³ /ft)				0.15
Chipped Volume (ft ³)				360
3. 10" HDPE Trunkline				
Piping Length (ft)				2280
Chipped Volume Reduction (ft ³ /ft)				0.277
Chipped Volume (ft ³)				631.56
4. 12" HDPE Trunkline				
Piping Length (ft)				3210
Chipped Volume Reduction (ft ³ /ft)				0.293
Chipped Volume (ft ³)				940.53
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)				2800
Chipped Volume Reduction (ft ³ /ft)				0.4
Chipped Volume (ft ³)				1120
Total Trunkline Chipped Volume (ft ³)				3482.96
Volume for Disposal Assuming 10% Void Space (ft ³)				3831
Transportation and Disposal Unit Cost (\$/ft ³)				\$12.00
Subtotal Trunkline Transport and Disposal Costs				\$45,972
Total Trunkline Decommissioning Costs				\$52,295
IV. Well Houses				
Total Quantity				343

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Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-21
	Average Well House Volume (ft ³)			12.5
A.	Removal			
	Total Volume (ft ³)			4287.5
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)			\$0.178
	Subtotal Well House Demolition Costs			\$763
B.	Survey and Decontamination			
	Assumptions:			
	Cost per Well House			\$4.5
	Subtotal Survey and Decontamination Costs			\$1,540
C.	Disposal at NRC licensed Facility			
	Total Volume (cy)			159
	Volume for Disposal Assuming 10% Void Space (cy)			175
	Transportation and Disposal Unit Cost (\$/ft ³)			\$12.00
	Subtotal NRC Licensed Facility Disposal Costs			\$2,100
	Total Well House Removal and Disposal Costs			\$4,403
VI.	Header Houses			
	Total Quantity			6
	Average Header House Volume (ft ³)			2700
A.	Removal			
	Total Volume (ft ³)			16200
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)			\$0.178
	Subtotal Building Demolition Costs			\$2,884
B.	Survey and Decontamination			
	Assumptions:			
	Cost per Header House			\$284
	Subtotal Survey and Decontamination Costs			\$1,704
C.	Disposal			
	Total Volume (cy)			600
	Volume for Disposal Assuming 10% Void Space (cy)			660
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)			\$6.39
	Subtotal On-Site Disposal Costs			\$4,217
	Total Header House Removal and Disposal Costs			\$8,805
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS				\$83,479

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Well Abandonment				Mine Unit-21
I.	Well Abandonment (Wellfields)			
	# of Production Wells			124
	# of Injection Wells			219
	# of Monitoring Wells			51
	Total Number of Wells			394
	Average Diameter of Casing (inches)			5
	Average Depth (ft)			850
	Well Abandonment Unit Cost (\$/well)			\$359
	Total Wellfield Abandonment Costs			\$141,545
II.	Waste Disposal Well Abandonment			DDW#3
A.	Unit Cost Per Foot of Depth (Based on Wyoming Oil and Gas Conservation Commission average cost/ft)			\$7.78
B.	Depth of Well (ft)			10000
	Total Waste Disposal Well Abandonment Costs			\$77,763
TOTAL WELL ABANDONMENT COSTS				\$219,308

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Wellfield and Satellite Surface Reclamation				Mine Unit-4
I.	Wellfield Pattern Area, Laydown Area, and Road Reclamation			
	Area (acres)			33
	Disking/Seeding Unit Cost (\$/acre)			\$235
	Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs			\$7,755
	Total Wellfield Area Reclamation Costs			\$7,755
II.	Satellite Area Reclamation			RR-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
	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
	Subtotal Topsoil Application Costs			\$2,348
	C. Discing and Seeding			
	Discing/Seeding Unit Cost (\$/acre)			\$235
	Subtotal Discing/Seeding Costs			\$482
	Total Satellite Building Area Reclamation Costs			\$4,499
TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS				\$12,254

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Miscellaneous Reclamation								
I.	Access Road Reclamation						Sat. Access Rd.	Access to WF
	A.	Assumptions						
		Surface grade					1%	1%
		Length of Road (ft)					1000	2640
		Width of Road (ft)					14	14
		Area of road (acres)					0.32	0.85
	B.	Gravel Road Base Removal						
		Assumptions						
		Average haul distance (ft)					1000	1000
		Gravel Road Base Width (ft)					14	14
		Gravel Road Base Area (acres)					0.32	0.85
		Average Road Base Depth (ft)					0.5	0.5
		Volume of Road Base (cy)					259	684
		Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$0.87	\$0.87
		Subtotal Gravel Road Base Removal Costs					\$225	\$593
	C.	Ripping Overburden with Dozer						
		Overburden Surface Area (acres)					0.3	0.9
		Ripping Unit Cost per WDEQ Guideline No.12, App.I1 (\$/acre)					\$814.22	\$814.22
		Subtotal Ripping Overburden Costs					\$261	\$692
	D.	Topsoil Application						
		Assumptions						
		Average haul distance (ft)					1500	1500
		Topsoil Surface Area (ft ²)					13939.2	37026
		Depth of Topsoil (ft)					0.5	0.5
		Volume of Topsoil (cy)					258	686
		Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$1.50	\$0.82
		Subtotal Topsoil Application Costs					\$387	\$562
	E.	Discing/Seeding						
		Assumptions						
		Surface Area (acres)					0.3	0.9
		Discing/Seeding Unit Cost (\$/acre)					\$235	\$235
		Subtotal Discing/Seeding Costs					\$75	\$200
		Subtotal Reclamation Costs per Access Road					\$948	\$2,047
		Total Access Road Reclamation Costs					\$2,995	
II.	Trunk Lines #1 and #2						Trunk Line (To MU-21)	
		Length of Trench (ft)					2000	
	A.	Removal and Loading						
		Main Pipeline Removal Unit Cost (\$/ft of trench)					\$0.89	
		Subtotal Trunkline Removal and Loading Costs					\$1,780	
	B.	Transport and Disposal Costs (NRC-Licensed Facility)						
		1. 3" HDPE Trunkline						
		Piping Length (ft)					2000	
		Chipped Volume Reduction (ft ³ /ft)					0.022	
		Chipped Volume (ft ³)					44	
		2. 6" HDPE Trunkline						
		Piping Length (ft)					2000	
		Chipped Volume Reduction (ft ³ /ft)					0.078	

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Miscellaneous Reclamation								
			Chipped Volume (ft ³)					156
	5.		16" HDPE Trunkline					
			Piping Length (ft)					2000
			Chipped Volume Reduction (ft ³ /ft)					0.4
			Chipped Volume (ft ³)					800
			Total Trunkline Chipped Volume (ft ³)					1000
			Volume for Disposal Assuming 10% Void Space (ft ³)					1100
			Transportation and Disposal Unit Cost (NRC-Licensed Facility) (\$/ft ³)					\$12.00
			Subtotal Pipeline Disposal Costs					\$13,200
	C.		Discing/Seeding					
			Assumptions:					
			Width of Pipeline Trench (ft)					4
			Area of Pipeline Trench (acres)					0.2
			Discing/Seeding Unit Cost (\$/acre)					\$235
			Subtotal Discing/Seeding Costs					\$43
			Total Pipeline Reclamation Costs					\$15,023
			TOTAL MISCELLANEOUS RECLAMATION COSTS					\$18,018

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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 LR	= \$	0.177			
Filtration LR	= \$	0.021			
Electricity LR from PD	= \$	0.134			
By Product Disposal of Sludge LR	= \$	0.097			
TOTAL RADIUM TREATMENT COSTS PER 1000 GALLONS				= \$ 0.43	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										
	1000 gal	X	$\frac{5 \text{ hp}}{5 \text{ gpm}}$	X	$\frac{1 \text{ hr}}{60 \text{ min}}$	X	$\frac{0.746 \text{ kwh}}{\text{hp}}$	X	$\frac{\$ 0.05}{\text{kwh}}$	= \$ 0.60
Pumping to WDW Costs per 1000 Gallons										
	1000 gal	X	$\frac{75 \text{ hp}}{200 \text{ gpm}}$	X	$\frac{1 \text{ hr}}{60 \text{ min}}$	X	$\frac{0.746 \text{ kwh}}{\text{hp}}$	X	$\frac{\$ 0.05}{\text{kwh}}$	= \$ 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	

POWER RESOURCES INC REYNOLDS RANCH 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 = \$0.048/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.	Process sampling and analysis costs estimated at \$0.03/1000 gallons								
7.	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
	Process Sampling and Analysis								= \$ 0.03
TOTAL RO COSTS PER 1000 GALLONS = \$ 0.60									

POWER RESOURCES INC REYNOLDS RANCH 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											
3.	Added the cost of using cheese whey											
TOTAL CHEMICAL REDUCTANT COSTS PER Kgal											= \$ 0.3	

POWER RESOURCES INC REYNOLDS RANCH URANIUM PROJECT
SURETY ESTIMATE- FIRST YEAR OF OPERATION

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												
	1000 gal	X	150 hp	X	1 hr	X	0.746 kwh	X	\$ 0.048	= \$	0.90	
			100 gpm		60 min		hp		kwh			
Repair and Maintenance Costs per 1000 Gallons										= \$	0.5	
TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS										= \$	1.40	

POWER RESOURCES INC REYNOLDS RANCH URANIUM PROJECT
SURETY ESTIMATE- FIRST YEAR OF OPERATION

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 \$7.62 and plug gel cost is \$5.95/sack.									
<u>Fixed Costs</u>										
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		
<u>Variable Costs</u> (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					

POWER RESOURCES INC REYNOLDS RANCH URANIUM PROJECT
SURETY ESTIMATE- FIRST YEAR OF OPERATION

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

POWER RESOURCES INC REYNOLDS RANCH URANIUM PROJECT
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 REYNOLDS RANCH 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 simultaneously								
8.	Includes removal of manholes								
9.	Operating schedule: 8 hrs/day, 5 days/week								
Main Pipeline Removal Costs per ft of Trench									
Equipment									
Trackhoe									
	\$ 1125	X	1 week	X	1 days	=\$ 0.30			
	week		5 days		750 ft				
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 REYNOLDS RANCH 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	X	1 week	X	1 days	= \$ 0.13			
	week		5 days		1500 ft				
Fuel									
	\$ 10	X	8 hrs	X	1 days	= \$ 0.05			
	hour		1 day		1500 ft				
Labor									
Backhoe Operation									
	\$ 15	X	8 man hrs	X	1 days	= \$ 0.08			
	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 PIPE						= \$ 0.420			

POWER RESOURCES INC REYNOLDS RANCH 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									
1000 ft	X	0.25 ft	X	10 ft	X	$\frac{1 \text{ cy}}{27 \text{ ft}^3}$	X	$\frac{\$0.87}{\text{cy}}$	= \$ 80
Scarification Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$41.87}{\text{acre}}$	= \$ 24
Grading Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$45.65}{\text{acre}}$	= \$ 26
Topsoil Application Costs per 1000 ft of Road									
1000 ft	X	0.67 ft	X	25 ft	X	$\frac{1 \text{ cy}}{27 \text{ ft}^3}$	X	$\frac{\$0.87}{\text{cy}}$	= \$ 537
Discing/Seeding Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$235}{\text{acre}}$	= \$ 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									
1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$41.87}{\text{acre}}$	= \$ 19
Grading Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$45.65}{\text{acre}}$	= \$ 21
Topsoil Application Costs per 1000 ft of Road									
1000 ft	X	0.40 ft	X	20 ft	X	$\frac{1 \text{ cy}}{27 \text{ ft}^3}$	X	$\frac{\$0.86}{\text{cy}}$	= \$ 255
Discing/Seeding Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	$\frac{1 \text{ acre}}{4.356E+04 \text{ ft}^2}$	X		X	$\frac{\$235}{\text{acre}}$	= \$ 108
TOTAL WELLFIELD ROAD RECLAMATION COSTS PER 1000 FT OF ROAD (AFTER JANUARY 1, 1997)									
									= \$ 403

POWER RESOURCES INC REYNOLDS RANCH 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 REYNOLDS RANCH URANIUM PROJECT
SURETY ESTIMATE- FIRST YEAR OF OPERATION

DISKING/SEEDING									
Assumptions:									
1. Based on actual contractor costs									
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			

POWER RESOURCES INC REYNOLDS RANCH URANIUM PROJECT
SURETY ESTIMATE- FIRST YEAR OF OPERATION

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