

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Ground Water Restoration		Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit- 4	Mine Unit-4A	Mine Unit-4 Extension	Mine Unit-15	Mine Unit-15A	Mine Unit K	Mine Unit 9
PV Assumptions												
Wellfield Area (ft2)		1,115,229	2,260,172	1,622,462	782,800	1,334,798	1,050,576	340,421	2,000,000	1,600,000	1,620,000	1,200,000
Wellfield Area (acres)		25.6	51.9	37.2	18.0	30.6	24.1	7.8	45.9	36.7	37.2	27.5
Affected Ore Zone Area (ft2)		1,115,229	2,260,172	1,622,462	782,800	1,334,798	1,050,576	340,421	2,000,000	1,600,000	1,620,000	1,200,000
Avg. Completed Thickness		18	24	20	14	18	17	18	19	19	20	20
Porosity		0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Flare Factor		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Affected Volume (ft3)		30,111,183	81,366,192	48,673,860	16,438,800	36,039,546	26,789,688	9,191,367	57,000,000	45,600,000	48,600,000	36,000,000
Kgallons per Pore Volume		60,813	164,327	98,302	33,200	72,785	54,104	18,563	115,117	92,094	98,153	72,706
Number of Patterns in Unit(s)												
Current		116	146	162	76	128	101	35	251	0	0	0
Estimated next report period		0	0	0	0	0	0	0	0	60	100	54
Total Estimated		116	146	162	76	128	101	35	251	60	100	54
Number of Wells in Unit(s)												
Production Wells												
Current		115	146	145	Wells	124	101	Wells	251	0	0	0
Estimated next report period		0	0	0	included	0	0	included	0	60	100	54
Total Estimated		115	146	145	under	124	101	under	251	60	100	54
Injection Wells												
Current		210	262	251	Wellfield 3	219	175	Wellfield 4 and Wellfield 4A	502	0	0	0
Estimated next report period		0	0	0		0	0		0	120	200	107
Total Estimated		210	262	251		219	175		502	120	200	107
Monitoring Wells												
Current		49	50	40		51	39		105	60	61	0
Estimated next report period		0	0	0		0	0		0	0	0	80
Total Estimated		49	50	40		51	39		105	60	61	80
Number of Wells per Wellfield		374	458	436		394	315		858	240	361	241
Total Number of Wells		2835										
Average Well Depth (ft)		500	850	750		850	750		450	500	950	950
I. Ground Water Sweep Costs												
PV's Required		1	1	1	1	1	1	1	1	1	1	1
Total Kgals for Treatment		60,813	164,327	98,302	33,200	72,785	54,104	18,563	115,117	92,094	98,153	72,706
Ground Water Sweep Unit Cost (\$/Kgal)		\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35	\$1.35
Subtotal Ground Water Sweep Costs per Wellfield		\$82,133	\$221,940	\$132,766	\$44,840	\$98,304	\$73,073	\$25,071	\$155,477	\$124,382	\$132,565	\$98,196
Total Ground Water Sweep Costs		\$1,188,747										
II. Reverse Osmosis Costs												
PV's Required		4	4	4	4	4	4	4	4	4	4	4
Total Kgals for Treatment		243,250	657,309	393,207	132,799	291,142	216,418	74,252	460,469	368,375	392,610	290,822
Reverse Osmosis Unit Cost (\$/Kgal)		\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60	\$0.60
Subtotal Reverse Osmosis Costs per Wellfield		\$145,464	\$393,071	\$235,138	\$79,414	\$174,103	\$129,418	\$44,402	\$275,360	\$220,288	\$234,781	\$173,912
Total Reverse Osmosis Costs		\$2,105,351										
III. Chemical Reductant Costs												
Total Kgals for Treatment (2 Pore Volumes)		121625	328654	196603	66400	145571	108209	37126	230234	184188	196305	145411
Chemical Reductant Unit Cost (\$/Kgal)		\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32	\$0.32

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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	Subtotal Chemical Reductant Costs per Wellfield	\$38,920	\$105,169	\$62,913	\$21,248	\$46,583	\$34,627	\$11,880	\$73,675	\$58,940	\$62,818	\$46,532
	Total Chemical Reductant Costs	\$563,305										
IV. Monitoring and Sampling Costs												
A. Active Restoration Period												
	Estimated Restoration Period (Years)	5	5	5		5	5		5	5	5	5
	1. UCL Sampling											
	# of Wells	49	51	43		55	36		108	60	61	80
	\$/sample	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50
	Samples/Year	6	6	6		6	6		6	6	6	6
	Sub-total Restoration Analyses	\$73,500	\$76,500	\$64,500		\$82,500	\$54,000		\$162,000	\$90,000	\$91,500	\$120,000
B. Stability Period												
	Estimated Stabilization Period (Years)	1	1	1		1	1		1	1	1	1
	1. Full Suite Analyses											
	# of Wells	17	31	24		20	10		61	34	34	56
	Samples/Year	3	3	3		3	3		3	3	3	3
	\$/sample	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200
	2. Short List Analyses											
	# of Wells	17	31	24		20	10		61	34	34	56
	Samples/Year	9	9	9		9	9		9	9	9	9
	\$/sample	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70	\$70
	Sub-total Stability Analyses	\$20,910	\$38,130	\$29,520		\$24,600	\$12,300		\$75,030	\$41,820	\$41,820	\$68,880
	Subtotal Monitoring and Sampling Costs per Wellfield	\$94,410	\$114,630	\$94,020		\$107,100	\$66,300		\$237,030	\$131,820	\$133,320	\$188,880
	Total Monitoring and Sampling Costs	\$1,167,510										
V. Mechanical Integrity Test (MIT) Costs												
	Five Year MIT Unit Cost (\$/well)	\$180	\$180	\$180	\$180	\$180	\$180	\$180	\$180	\$180	\$180	\$180
	Number of Wells (30% of Inj. and Rest. Wells)	63	79	75		66	53		151	36	60	32
	Subtotal Mechanical Integrity Testing Costs per Wellfield	\$11,340	\$14,148	\$13,554		\$11,826	\$9,450		\$27,108	\$6,480	\$10,800	\$5,778
	Total Mechanical Integrity Testing Cost	\$110,484										
TOTAL RESTORATION COSTS PER WELLFIELD		\$372,267	\$848,958	\$538,391	\$145,502	\$437,916	\$312,868	\$81,353	\$768,650	\$541,910	\$574,284	\$513,298
TOTAL WELLFIELD RESTORATION COST		\$5,135,397										
VI. Building Utility Costs												
	Electricity (\$/Month)	\$8,500	\$1,825	\$8,500	\$8,500							
	Number of Months	48	60	36	36							
	Subtotal Utility Costs per Building	\$408,000	\$109,500	\$306,000	\$306,000							
	Total Building Utility Costs	\$1,129,500										
VII. Vehicle Operation Costs												
	Number of Pickup Trucks/Pulling Units (Gas)	10										
	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	\$808,400										
VIII. Labor Costs												
	Number of Environmental Managers/RSOs	0.5										

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	\$/Year (1/2 costs to Smith Ranch, 1/2 costs to Highland)	\$100,000										
	Number of Restoration Managers	0.5										
	\$/Year (1/2 costs to Smith Ranch, 1/2 costs to Highland)	\$80,000										
	Number of Environmental Technicians	2										
	\$/Year	\$34,000										
	Number of Operators/Laborers	7										
	\$/Year	\$34,000										
	Number of Maintenance Technicians	2										
	\$/Year	\$34,000										
	Number of Years	4										
	Total Labor Costs	\$1,856,000										
IX.	Capital Costs											
	Purchase RO Units (1X400 gpm Units)	\$600,000										
	Total Capital Costs	\$600,000										
TOTAL GROUND WATER RESTORATION COSTS		\$9,529,297										

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Equipment Removal and Loading		CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pump House	Bone Yard	Satellite SR-2
Removal and Loading Costs									
A. Tankage									
	Number of Tanks	13	51	0	10	15	3	30	10
	Volume of Tank Construction Material (ft ³)	835	1340	300	397	260	164	1648	397
1. Labor									
	Number of Persons	3	3	3	3	3	3	3	3
	Ft ³ /Day	25	25	25	25	25	25	25	25
	Number of Days	33	54	12	16	10	7	66	16
	\$/Day/Person	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120
	Subtotal Labor Costs	\$12,030	\$19,296	\$4,320	\$5,760	\$3,744	\$2,362	\$23,731	\$5,760
2. Equipment									
	Number of Days	33	54	12	16	10	7	66	16
	\$/Day	\$338	\$338	\$338	\$338	\$338	\$338	\$338	\$338
	Subtotal Equipment Costs	\$11,295	\$18,117	\$4,056	\$5,408	\$3,515	\$2,217	\$22,281	\$5,408
	Subtotal Tankage Removal and Loading Costs	\$23,325	\$37,413	\$8,376	\$11,168	\$7,259	\$4,579	\$46,012	\$11,168
B. PVC/Steel Pipe									
	PVC Pipe Footage	2800	5000		4000	1500	0	0	4000
	Average PVC Pipe Diameter (inches)	3	3	3	3	3	3	3	3
	Shredded PVC Pipe Volume Reduction (ft ³ /ft)	0.016	0.016	0.016	0.016	0.016	0.016	0	0.016
	Volume of Shredded PVC Pipe (ft ³)	45	80	0	64	24	0	0	64
	Steel Pipe Footage	1100	0	0	0	0	80	0	0
	Average Steel Pipe Diameter (inches)	6	0	0	0	0	8	0	0
	Volume (ft ³)	216	0	0	0	0	30	0	0
1. Labor									
	Number of Persons	2	2	2	2	2	2	2	2
	Ft ³ /Day	300	300	300	300	300	300	300	300
	Number of Days	13	17	0	13	5	0	0	13
	\$/Day/Person	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120
	Subtotal PVC/Steel Pipe Labor Costs	\$3,120	\$4,000	\$0	\$3,120	\$1,200	\$64	\$0	\$3,120
	Subtotal PVC/Steel Pipe Removal and Loading Costs	\$3,120	\$4,000	\$0	\$3,120	\$1,200	\$64	\$0	\$3,120
C. Pumps									
	Number of Pumps	21	43	0	13	12	2	0	13
	Average Volume (ft ³ /pump)	4.93	4.93	0	4.93	4.93	4.93	4.93	4.93
	Volume of Pumps (ft ³)	103.53	211.99	0	64.09	59.16	9.86	0	64.09
1. Labor									
	Number of Persons	1	1	1	1	1	1	0	1
	Pumps/Day	2	2	2	2	2	2	0	2
	Number of Days	10.5	21.5	0	7	6	1	0	7
	\$/Day/Person	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120
	Subtotal Labor Costs	\$1,260	\$2,580	\$0	\$840	\$720	\$120	\$0	\$840
	Subtotal Pump Removal and Loading Costs	\$1,260	\$2,580	\$0	\$840	\$720	\$120	\$0	\$840
D. Dryer									
	Dryer Volume (ft ³)			200					
1. Labor									
	Number of Persons	0	0	5	0	0	0	0	0
	Ft ³ /Day	0	0	175	0	0	0	0	0
	Number of Days	0	0	2	0	0	0	0	0
	\$/Day/Person	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120
	Total Labor Cost	\$0	\$0	\$1,200	\$0	\$0	\$0	\$0	\$0
	Total Dryer Dismantling and Loading Costs	\$0	\$0	\$1,200	\$0	\$0	\$0	\$0	\$0
	Subtotal Equipment Removal and Loading Costs per Facility	\$39,735	\$63,289	\$13,896	\$20,888	\$12,923	\$7,125	\$69,743	\$20,888
	Total Equipment Removal and Loading Costs	\$248,487							
Transportation and Disposal Costs (NRC-Licensed Facility)									
A. Tankage									
	Volume of Tank Construction Material (ft ³)	835	1340	300	397	260	164	1648	
	Volume for Disposal Assuming 10% Void Space (ft ³)	919	1474	330	436	286	180	1813	
	Transportation and Disposal Unit Cost (\$/ft ³)	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
	Subtotal Tankage Transportation and Disposal Costs	\$11,028	\$17,688	\$3,960	\$5,232	\$3,432	\$2,160	\$21,756	\$0
B. PVC / Steel Pipe									
	Volume of Shredded PVC Pipe (ft ³)	44.8	80	0	64	24	0	0	
	Volume for Disposal Assuming 10% Void Space (ft ³)	49	88	0	70	26	0	0	
	Volume of Steel Pipe (ft ³)	296	0	0	0	0	30	30	
	Volume for Disposal Assuming 10% Void Space (ft ³)	326	0	0	0	0	33	33	
	Transportation and Disposal Unit Cost (\$/ft ³)	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
	Subtotal PVC Pipe Transportation and Disposal Costs	\$4,500	\$1,056	\$0	\$840	\$312	\$396	\$396	\$0
C. Pumps									
	Volume of Pumps (ft ³)	103.53	271	0	64	59	9.86	0	
	Volume for Disposal Assuming 10% Void Space (ft ³)	114	298	0	70	65	11	0	
	Transportation and Disposal Unit Cost (\$/ft ³)	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
	Subtotal Pump Transportation and Disposal Costs	\$1,368	\$3,576	\$0	\$840	\$780	\$132	\$0	\$0
D. Dryer									
	Dryer Volume (ft ³)	0	0	400	0	0	0	0	0
	Volume for Disposal Assuming Dryer Remains Intact (ft ³)	0	0	400	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
	Total Dryer Transportation and Disposal Costs	\$0	\$0	\$4,800	\$0	\$0	\$0	\$0	\$0
	Subtotal Equipment Transportation and Disposal Costs per Facility	\$16,896	\$22,320	\$8,760	\$6,912	\$4,524	\$2,688	\$22,152	\$0
	Total Equipment Transportation and Disposal Costs	\$84,252							
Health and Safety Costs									
	Radiation Safety Equipment		Accounted for on BLDGS workbook, Section IV	\$0	\$0	\$0	\$0	\$0	\$0
	Total Health and Safety Costs			\$0	\$0	\$0	\$0	\$0	\$0
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY		\$56,631	\$85,609	\$22,656	\$27,800	\$17,447	\$9,813	\$91,895	\$20,888
TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS		\$332,739							

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

		CPP Ion Ex.	Central	Dryer	Office	Storage	Water Treat	Shop	Pilot ISL	Fresh Water	DDW
Building Demolition and Disposal		Plant	Plant	Building	Building	Building	Plant	Building	Building	Pumphouse	Buildings
I. Decontamination Costs											
A.	Wall Decontamination										
	Area to be Decontaminated (ft ²)	10,810	15,900	0	0	1,152	576	4,826	12,000	0	0
	HCl Acid Wash, including labor (\$/ft ²) LR	\$0.63	\$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	\$726	\$363	\$3,040	\$7,560	\$0	\$0
B.	Concrete Floor Decontamination										
	Area to be Decontaminated (ft ²)	11,550	16,500	3,500	0	1,678	839	7,028	17,477	0	0
	HCl Acid Wash, including labor (\$/ft ²) LR	\$0.47	\$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	\$789	\$394	\$3,303	\$8,214	\$0	\$0
C.	Deep Well Injection Costs										
	Total Kgals for Injection	22.36	32.4	3.5	0	2.83	1.415	11.854	29.477	0	0
	Deep Well Injection Unit Cost (\$/Kgals)	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40
	Subtotal Deep Well Injection Costs	\$31	\$45	\$5	\$0	\$4	\$2	\$17	\$41	\$0	\$0
	Subtotal Decontamination Costs per Building	\$12,270	\$17,817	\$1,650	\$0	\$1,519	\$759	\$6,360	\$15,815	\$0	\$0
	Total Decontamination Costs	\$63,687									
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)	346,500	577,500	122,500	0	16,780	8,390	175,700	314,586	8,320	660.3
	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	\$0.178
	Subtotal Building Demolition Costs	\$61,677	\$102,795	\$21,805	\$0	\$2,987	\$1,493	\$31,275	\$55,996	\$1,481	\$118
B.	Concrete Floor										
	Area of Concrete Floor (ft ²)	11,550	16,500	3,500	0	1,678	839	7,028	17,477	832	0
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)	\$3.40	\$3.40	\$3.40	\$3.40	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17
	Subtotal Concrete Floor Demolition Costs	\$39,270	\$56,100	\$11,900	\$0	\$5,319	\$2,660	\$22,279	\$55,402	\$2,637	\$0
C.	Concrete Footing										
	Length of Concrete Footing (ft)	430	514	237	0	164	116	335	529	115	0
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22
	Subtotal Concrete Footing Demolition Costs	\$5,253	\$6,279	\$2,892	\$0	\$2,002	\$1,416	\$4,098	\$6,462	\$1,405	\$0
	Subtotal Demolition Costs per Building	\$106,200	\$165,174	\$36,597	\$0	\$10,308	\$5,569	\$57,652	\$117,860	\$5,523	\$118
	Total Demolition Costs	\$761,910									
III. Disposal Costs											
A.	Building										
	Volume of Building (cy)	12833	21389	4537	0	621	311	6507	11651	308	24
I.	On-Site										
	Assumptions:										
	On-site disposal cost of \$1.25/cy										
	Percentage (%)	100	100	100	100	100	100	100	100	100	100
	Volume for Disposal (cubic yards)	12833	21389	4537	0	621	311	6507	11651	308	24
	Disposal Unit Cost (\$/cy)	\$1.25	\$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	\$0	\$777	\$388	\$8,134	\$14,564	\$385	\$31

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

				Satellite	Yellowcake	Satellite
Building Demolition and Disposal				SR-1	Warehouse	SR-2
I. Decontamination Costs						
A.	Wall Decontamination					
	Area to be Decontaminated (ft ²)			0	3100	
	HCl Acid Wash, including labor (\$/ft ²) LR			\$0.63	\$0.63	\$0.63
	Subtotal Wall Decontamination Costs			\$0	\$1,953	\$0
B.	Concrete Floor Decontamination					
	Area to be Decontaminated (ft ²)			9000	2750	0
	HCl Acid Wash, including labor (\$/ft ²) LR			\$0.47	\$0.47	\$0.47
	Subtotal Concrete Floor Decontamination Costs			\$4,230	\$1,293	\$0
C.	Deep Well Injection Costs					
	Total Kgals for Injection			9	5.85	0
	Deep Well Injection Unit Cost (\$/Kgals)			\$1.40	\$1.40	\$1.40
	Subtotal Deep Well Injection Costs			\$13	\$8	\$0
	Subtotal Decontamination Costs per Building			\$4,243	\$3,254	\$0
Total Decontamination Costs						
II. Demolition Costs						
A.	Building					
	Assumptions:					
	Dryer bldg. demolition unit cost of \$0.73/ft ³ for additional radiation safety equipment					
	Volume of Building (ft ³)			402,000	55,000	402,000
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)			\$0.178	\$0.178	\$0.178
	Subtotal Building Demolition Costs			\$71,556	\$9,790	\$71,556
B.	Concrete Floor					
	Area of Concrete Floor (ft ²)			13400	2750	13400
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)			\$3.05	\$3.05	\$3.05
	Subtotal Concrete Floor Demolition Costs			\$40,870	\$8,388	\$40,870
C.	Concrete Footing					
	Length of Concrete Footing (ft)			463	210	463
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)			\$12.22	\$12.22	\$12.22
	Subtotal Concrete Footing Demolition Costs			\$5,658	\$2,563	\$5,658
	Subtotal Demolition Costs per Building			\$118,084	\$20,741	\$118,084
Total Demolition Costs						
III. Disposal Costs						
A.	Building					
	Volume of Building (cy)			14889	2037	14889
	1.	On-Site				
	Assumptions:					
	On-site disposal cost of \$1.25/cy					
	Percentage (%)			100	100	100
	Volume for Disposal (cubic yards)			14889	2037	14889
	Disposal Unit Cost (\$/cy)			\$1.25	\$1.25	\$1.25
	Subtotal On-Site Disposal Costs			\$18,611	\$2,546	\$18,611

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
I.	Wellfield Piping											
	Assumptions:											
		Number of Header Houses per Wellfield		6	5	8	6	5	13	4	5	3
		Length of Piping per Header House (ft)		2000	2000	2000	2000	2000	2000	2000	2000	2000
		Total Length of Piping (ft)		12000	10000	16000	12000	10000	26000	8000	10000	6000
	A.	Removal and Loading										
		Wellfield Piping Removal Unit Cost (\$/ft of pipe)		\$0.42	\$0.42	\$0.42	\$0.42	\$0.42	\$0.42	\$0.42	\$0.42	\$0.42
		Subtotal Wellfield Piping Removal and Loading Costs		\$5,040	\$4,200	\$6,720	\$5,040	\$4,200	\$10,920	\$3,360	\$4,200	\$2,520
	B.	Transport and Disposal Costs (NRC-Licensed Facility)										
		Average Diameter of Piping (inches)		2	2	2	2	2	2	2	2	2
		Chipped Volume Reduction (ft ³ /ft)		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Chipped Volume per Wellfield (ft ³)		60	50	80	60	50	130	40	50	30
		Volume for Disposal Assuming 10% Void Space (ft ³)		66	55	88	66	55	143	44	55	33
		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 Wellfield Piping Transport and Disposal Costs		\$792	\$660	\$1,056	\$792	\$660	\$1,716	\$528	\$660	\$396
		Wellfield Piping Costs per Wellfield		\$5,832	\$4,860	\$7,776	\$5,832	\$4,860	\$12,636	\$3,888	\$4,860	\$2,916
	C.	Capitol Costs										
		Fiberglass/ poly / PVC Pipe Shredder		\$50,000								
		BFI Containers (2@\$7,800.00 each)		\$15,600								
		Total Wellfield Piping Costs		\$119,060								
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		115	146	145	124	101	251	60	100	54
		Number of Injection Wells		210	262	251	219	175	502	120	200	107
	1.	Pump Volume										
		Number of Production Wells with Pumps		69	88	87	74	61	151	36	60	32
		Average Pump Volume (ft ³)		1	1	1	1	1	1	1	1	2
		Pump Volume per Wellfield (ft ³)		69	88	87	74	61	151	36	60	64
	2.	Tubing Volume										
		Assumptions:										
		Average tubing length/wellfield based on average well depth minus 25 ft										
		Number of Production Wells with Tubing		69	88	87	74	61	151	36	60	32
		Number of Injection Wells with Tubing		126	157	151	131	105	301	72	120	64
		Average Tubing Length per Well (ft)		475	825	725	825	725	425	475	925	925
		Tubing Length per Wellfield (ft)		92625	202125	172550	169125	120350	192100	51300	166500	88800
		Diameter of Production Well Fiberglass Tubing (inches)		2	2	2	2	2	2	2	2	2
		Diameter of Injection Well HDPE Tubing (inches)		1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Wellfield Buildings and Equipment Removal and Disposal			Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
		Chipped Volume Reduction (ft ³ /ft)	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
		Chipped Volume per Wellfield (ft ³)	463	1011	863	846	602	961	257	833	444
		Volume of Pump and Tubing (ft ³)	532	1099	950	920	663	1112	293	893	508
		Volume for Disposal Assuming 10% Void Space (ft ³)	585	1209	1045	1012	729	1223	322	982	559
		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 Pump and Tubing Transport and Disposal Costs	\$7,020	\$14,508	\$12,540	\$12,144	\$8,748	\$14,676	\$3,864	\$11,784	\$6,708
		Pump and Tubing Costs per Wellfield	\$7,020	\$14,508	\$12,540	\$12,144	\$8,748	\$14,676	\$3,864	\$11,784	\$6,708
		Total Pump and Tubing Costs	\$91,992								
III.	Buried Trunkline										
	Assumptions:										
		Length of Trunkline Trench (ft)	5075	7600	4790	7105	5460	10000	0	0	7000
	A. Removal and Loading										
		Main Pipeline Removal Unit Cost (\$/ft of trench)	\$0.89	\$0.89	\$0.89	\$0.89	\$0.89	\$0.89	\$0.89	\$0.89	\$0.89
		Subtotal Trunkline Removal and Loading Costs	\$4,517	\$6,764	\$4,263	\$6,323	\$4,859	\$8,900	\$0	\$0	\$6,230
	B. Transport and Disposal Costs (NRC-Licensed Facility)										
	1. 1" Carbon Steel Trunkline										
		Piping Length (ft)						10000	0	0	0
		Volume (ft ³)						218	0	0	0
	2. 1" HDPE Trunkline										
		Piping Length (ft)						10000	0	0	0
		Chipped Volume Reduction (ft ³ /ft)						0.005	0.005	0.005	0.005
		Chipped Volume (ft ³)						50	0	0	0
	3. 3" HDPE Trunkline										
		Piping Length (ft)	5075	7600	4790	7105	5460	0	0	0	0
		Chipped Volume Reduction (ft ³ /ft)	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
		Chipped Volume (ft ³)	111.65	167.2	105.38	156.31	120.12	0	0	0	0
	4. 6" HDPE Trunkline										
		Piping Length (ft)	2410	10000	4820	3520	3800	20000	0	0	0
		Chipped Volume Reduction (ft ³ /ft)	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
		Chipped Volume (ft ³)	187.98	780	375.96	274.56	296.4	1560	0	0	0
	5. 8" HDPE Trunkline										
		Piping Length (ft)	4100		1100	2400	1840	0	0	0	0
		Chipped Volume Reduction (ft ³ /ft)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
		Chipped Volume (ft ³)	615	0	165	360	276	0	0	0	0
	6. 10" HDPE Trunkline										
		Piping Length (ft)	0	5200	3660	2280	2400	0	0	0	0
		Chipped Volume Reduction (ft ³ /ft)	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
		Chipped Volume (ft ³)	0	1440.4	1013.82	631.56	664.8	0	0	0	0
	7. 12" HDPE Trunkline										
		Piping Length (ft)	1460	0	0	3210	2060	0	0	0	0
		Chipped Volume Reduction (ft ³ /ft)	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
		Chipped Volume (ft ³)		427.78	0	0	940.53	603.58	0	0	0	0
	8.	14" HDPE Trunkline										
		Piping Length (ft)		740	0	0	0	0	0	0	0	0
		Chipped Volume Reduction (ft ³ /ft)		0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
		Chipped Volume (ft ³)		265.66	0	0	0	0	0	0	0	0
	9.	16" HDPE Trunkline										
		Piping Length (ft)		1440	0	0	2800	820	0	0	0	0
		Chipped Volume Reduction (ft ³ /ft)		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		Chipped Volume (ft ³)		576	0	0	1120	328	0	0	0	0
		Total Trunkline Chipped Volume (ft ³)		2184.07	2387.6	1660.16	3482.96	2288.9	1560	0	0	0
		Volume for Disposal Assuming 10% Void Space (ft ³)		2402	2626	1826	3831	2518	1716	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 Trunkline Transport and Disposal Costs		\$28,824	\$31,512	\$21,912	\$45,972	\$30,216	\$20,592	\$0	\$0	\$0
		Trunkline Decommissioning Costs per Wellfield		\$33,341	\$38,276	\$26,175	\$52,295	\$35,075	\$29,492	\$0	\$0	\$6,230
		Total Trunkline Decommissioning Costs		\$220,884								
IV.	Well Houses											
		Total Quantity		315	408	396	343	276	392	0	50	120
		Average Well House Volume (ft ³)		12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
	A.	Removal										
		Total Volume (ft ³)		3937.5	5100	4950	4287.5	3450	4900	0	625	1500
		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
		Subtotal Well House Demolition Costs		\$701	\$908	\$881	\$763	\$614	\$872	\$0	\$111	\$267
	B.	Survey and Decontamination										
		Assumptions:										
		Cost per Well House		4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49
		Subtotal Survey and Decontamination Costs		\$1,414	\$1,832	\$1,778	\$1,540	\$1,239	\$1,760	\$0	\$225	\$539
	C.	Disposal at NRC licensed Facility										
		Total Volume (cy)		146	189	183	159	128	181	0	23	56
		Volume for Disposal Assuming 10% Void Space (cy)		160	208	202	175	141	200	0	25	61
		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		\$1,920	\$2,496	\$2,424	\$2,100	\$1,692	\$2,400	\$0	\$300	\$732
		Well House Removal and Disposal Costs per Wellfield		\$4,035	\$5,236	\$5,083	\$4,403	\$3,545	\$5,032	\$0	\$636	\$1,538
		Total Well House Removal and Disposal Costs		\$29,508								
V.	Header Houses (Includes Booster Stations)											
		Total Quantity		6	5	8	6	5	13	4	5	3
		Average Header House Volume (ft ³)		2700	2700	2700	2700	2700	2700	2700	2700	2700
	A.	Removal										
		Total Volume (ft ³)		16200	13500	21600	16200	13500	35100	10800	13500	8100
		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
		Subtotal Building Demolition Costs		\$2,884	\$2,403	\$3,845	\$2,884	\$2,403	\$6,248	\$1,922	\$2,403	\$1,442

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Wellfield Buildings and Equipment Removal and Disposal				Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
B.	Survey and Decontamination											
	Assumptions:											
	Cost per Header House			\$284	\$284	\$284	\$284	\$284	\$284	\$284	\$284	\$284
	Subtotal Survey and Decontamination Costs			\$1,704	\$1,420	\$2,272	\$1,704	\$1,420	\$3,692	\$1,136	\$1,420	\$852
C.	Disposal											
	Total Volume (cy)			600	500	800	600	500	1300	400	500	300
	Volume for Disposal Assuming 10% Void Space (cy)			660	550	880	660	550	1430	440	550	330
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ³)			\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
	Subtotal On-Site Disposal Costs			\$4,217	\$3,515	\$5,623	\$4,217	\$3,515	\$9,138	\$2,812	\$3,515	\$2,109
	Header House Removal and Disposal Costs per Wellfield			\$8,805	\$7,338	\$11,740	\$8,805	\$7,338	\$19,078	\$5,870	\$7,338	\$4,403
	Total Header House Removal and Disposal Costs			\$80,715								
TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD				\$59,033	\$70,218	\$63,314	\$83,479	\$59,566	\$80,914	\$13,622	\$24,618	\$21,795
TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS				\$526,559								

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Well Abandonment		Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
I.	Well Abandonment (Wellfields)										
	# of Production Wells	115	146	145	Wells	124	101	251	60	100	54
	# of Injection Wells	210	262	251	included	219	175	502	120	200	107
	# of Monitoring Wells	49	50	40	under	51	39	105	60	61	80
	Total Number of Wells	374	458	436		394	315	858	240	361	241
	Average Diameter of Casing (inches)	5	5	5		5	5	4.5	4.5	4.5	4.5
	Average Depth (ft)	500	850	750		850	750	450	500	950	950
	Well Abandonment Unit Cost (\$/well)	\$359	\$396	\$386		\$396	\$386	\$354	\$354	\$354	\$396
	Subtotal Abandonment Cost per Wellfield	\$134,360	\$181,395	\$168,096		\$156,047	\$121,446	\$303,725	\$84,958	\$127,791	\$95,450
	Total Wellfield Abandonment Costs	\$1,373,268									
II.	Waste Disposal Well Abandonment	DDW#1	DDW#2	SW DDW							
	A. Well Plugging										
	All lump sum costs										
	Subtotal Well Plugging Costs per Well	\$71,342	\$71,342	\$31,655							
	B. Pump Dismantling and Decontamination										
	Number of Persons	2	2	2							
	Number of Pumps	2	2	2							
	Pumps/Day	0.5	0.5	0.5							
	Number of Days	4	4	4							
	\$/Day/Person	\$120	\$120	\$120							
	Subtotal Dismantling and Decon Costs per Well	\$960	\$960	\$960							
	C. Tubing String Disposal (NRC-Licensed Facility)										
	Length of Tubing String (ft)	10100	10100	10100							
	Diameter of Tubing String (inches)	2.875	2.875	2.875							
	Volume of Tubing String (ft ³)	455	455	455							
	Transportation and Disposal Unit Cost (\$/ft ³)	\$12.00	\$12.00	\$12.00							
	Subtotal Tubing String Disposal Costs per Well	\$5,461	\$5,461	\$5,461							
	Subtotal Waste Disposal Well Abandonment Costs per Well	\$77,763	\$77,763	\$38,076							
	Total Waste Disposal Well Abandonment Costs	\$193,602									
	TOTAL WELL ABANDONMENT COSTS	\$1,566,870									

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Wellfield and Satellite Surface Reclamation			Mine Unit-1	Mine Unit-2	Mine Unit-3	Mine Unit-3 2nd Comp.	Mine Unit-4	Mine Unit-4A	Mine Unit-15	Mine Unit-15A	Mine Unit-K	Mine Unit-9
I.	Wellfield Pattern Area, Laydown Area, and Road Reclamation											
	Area (acres)		27.1	53.24	38.72	18	31.43	29.6	66.8	1	5	7
	Disking/Seeding Unit Cost (\$/acre)		\$235	\$235	\$235	\$235	\$235	\$235	\$235	\$235	\$235	\$235
	Subtotal Pattern Area, Laydown Area, and Road Reclamation Costs		\$6,369	\$12,511	\$9,099	\$4,230	\$7,386	\$6,956	\$15,698	\$235	\$1,175	\$1,645
	Total Wellfield Area Reclamation Costs		\$65,304									
III.	Satellite Area Reclamation		SR-1	SR-2								
	Assumptions:											
	Area of Disturbance (acres)		2.05	3								
	Average Depth of Stripped Topsoil (ft)		1	1								
	Surface Grade: Level Ground											
	Average Length of Topsoil Haul (ft)		1000	500								
	A. Ripping Overburden with Dozer											
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)		\$814.22	\$814.22								
	Subtotal Ripping Costs		\$1,669	\$2,443								
	B. Topsoil Application with Scraper											
	Volume of Topsoil Removed (cy)		3307	4840								
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)		\$0.71	\$0.71								
	Subtotal Topsoil Application Costs		\$2,348	\$3,436								
	C. Discing and Seeding											
	Discing/Seeding Unit Cost (\$/acre)		\$235	\$235								
	Subtotal Discing/Seeding Costs		\$482	\$705								
	Subtotal Surface Reclamation Costs per Satellite		\$4,499	\$6,584								
	Total Satellite Building Area Reclamation Costs		\$11,083	\$6,584								
	TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS		\$76,387									

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Miscellaneous Reclamation									
	Surface Area (acres)			4.8	10.9	5.0	7.3	5.9	
	Discing/Seeding Unit Cost (\$/acre)			\$235	\$235	\$235	\$235	\$200	
	Subtotal Discing/Seeding Costs			\$1,116	\$2,562	\$1,175	\$1,709	\$1,171	
	Subtotal Reclamation Costs per Access Road			\$13,221	\$29,702	\$11,048	\$15,829	\$12,535	
	Total Access Road Reclamation Costs			\$82,335					
III.	Trunk Lines			Trunk Line #1 (To MU-4)	Trunk Line #2 (To SR-1)	Trunk Line #3 (MU-15 to SR-1)	Trunk Line #4 (O-Sand Pilot)	Trunk Line to SR-2	
	Length of Trench (ft)			7750	8500	21250	5500	2500	
A.	Removal and Loading								
	Main Pipeline Removal Unit Cost (\$/ft of trench)			\$0.89	\$0.89	\$0.89	\$0.89	\$0.89	
	Subtotal Trunkline Removal and Loading Costs			\$6,898	\$7,565	\$18,913	\$4,895	\$2,225	
B.	Transport and Disposal Costs (NRC-Licensed Facility)								
	1. 2" HDPE Trunkline								
	Piping Length (ft)			7750	42500	21250	22000	22000	
	Chipped Volume Reduction (ft ³ /ft)			0.005	0.005	0.005	0.005	0.005	
	Chipped Volume (ft ³)			38.75	212.5	106.25	110	110	
	1. 3" HDPE Trunkline								
	Piping Length (ft)			0	0	0	0	0	
	Chipped Volume Reduction (ft ³ /ft)			0.022	0.022	0.022	0.022	0.022	
	Chipped Volume (ft ³)			0	0	0	0	0	
	2. 6" HDPE Trunkline								
	Piping Length (ft)			7750	17000	42500	0	0	
	Chipped Volume Reduction (ft ³ /ft)			0.078	0.078	0.078	0.078	0.078	
	Chipped Volume (ft ³)			604.5	1326	3315	0	0	
	3. 8" HDPE Trunkline								
	Piping Length (ft)			0	0	0	0	0	
	Chipped Volume Reduction (ft ³ /ft)			0.15	0.15	0.15	0.15	0.15	
	Chipped Volume (ft ³)			0	0	0	0	0	
	3. 10" HDPE Trunkline								
	Piping Length (ft)			0	0	0	0	0	
	Chipped Volume Reduction (ft ³ /ft)			0.277	0.277	0.277	0.277	0.277	
	Chipped Volume (ft ³)			0	0	0	0	0	
	4. 12" HDPE Trunkline								
	Piping Length (ft)			0	9000	0	0	0	
	Chipped Volume Reduction (ft ³ /ft)			0.293	0.293	0.293	0.293	0.293	
	Chipped Volume (ft ³)			0	2637	0	0	0	
	5. 14" HDPE Trunkline								
	Piping Length (ft)			0	0	0	0	0	
	Chipped Volume Reduction (ft ³ /ft)			0.359	0.359	0.359	0.359	0.359	
	Chipped Volume (ft ³)			0	0	0	0	0	
	5. 16" HDPE Trunkline								
	Piping Length (ft)			15500	11000	21120	15500	15500	
	Chipped Volume Reduction (ft ³ /ft)			0.4	0.4	0.4	0.4	0.4	
	Chipped Volume (ft ³)			6200	4400	8448	6200	6200	
	6 18" HDPE Trunkline								
	Piping Length (ft)			0	31500	0	0	0	
	Chipped Volume Reduction (ft ³ /ft)			0.47	0.47	0.47	0.47	0.47	
	Chipped Volume (ft ³)			0	14805	0	0	0	
	Total Pipeline Disposal Volume			6804.5	23168	11763	6200	6200	
	Volume for Disposal Assuming 10% Void Space (ft ³)			7485	25485	12939	6820	6820	
	Transportation and Disposal Unit Cost (NRC-Licensed Facility) (\$/ft ³)			\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	
				\$89,820	\$305,820	\$155,268	\$81,840	\$81,840	
C.	Discing/Seeding								
	Assumptions:								
	Width of Pipeline Trench (ft)			4	4	4	4	4	
	Area of Pipeline Trench (acres)			0.7	0.8	2.0	0.5	0.2	
	Discing/Seeding Unit Cost (\$/acre)			\$235	\$235	\$235	\$235	\$235	
	Subtotal Discing/Seeding Costs			\$167	\$183	\$459	\$119	\$54	
	Subtotal Reclamation Costs per Pipeline			\$96,885	\$313,568	\$174,640	\$86,854	\$84,119	
	Total Pipeline Reclamation Costs			\$756,066					
IV.	Settling Basin/ Evap. Pond Reclamation			Evaporation Pond	Settling Pond				
A.	Soil Sampling and Monitoring								
	Number of Soil Samples			0	15				
	\$/Sample			\$75	\$75				
	Subtotal Soil Sampling and Monitoring Costs			\$0	\$1,125				

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

Miscellaneous Reclamation									
B. Liner/Subsoil Removal and Disposal									
Assumptions:									
Clay liner and subsoil constitute by-product material									
Thickness of clay liner (ft)					0.5		0.5		
Thickness of contaminated subsoil (ft)					0.5		0.5		
Removal and Loading Unit Cost based on engineer's design report and Cat Performance Handbook									
Width of Pond (ft)					200		252		
Length of Pond (ft)					100		432		
Depth of Pond (ft)					10		20		
Surface area of pond (ft ²)					20000		108864		
1. Removal and Loading (Settling Pond is not By-Product, therefore can stay in place)									
Volume of Clay Liner (cy)					741		0		
Clay Liner Removal and Loading Unit Cost (\$/cy)					\$2.58		\$2.58		
Subtotal Liner Removal and Loading Costs					\$1,911		\$0		
2. Transportation and Disposal									
Volume of Clay Liner (ft ³)					0		0		
Volume of Geotextile Liner (ft ³)					50		0		
Volume of Geotextile Liner @ 40% void (ft ³)					83		0		
Transportation and Disposal Unit Cost (\$/ft ³)					\$12.00		\$12.00		
Subtotal Liner Transportation and Disposal Costs					\$1,000		\$0		
Subtotal Liner Removal and Disposal Costs					\$2,911		\$0		
C. Grade and Contour									
Volume of Embankment Material (CY)					7,407		80,640		
Average Grade (%)					0		0		
Distance (ft)					50		100		
Material Moving Unit Cost per WDEQ Guideline No.12, App.E (\$/cy)					\$0.092		\$0.161		
Subtotal Grade and Contour Costs					\$681		\$12,983		
C. Topsoil Application									
Assumptions:									
Area of surface disturbance (ft ²)					20000		108899		
Average thickness of topsoil (ft)					1		1		
Average haul distance (ft)					1000		1000		
Surface grade (%)					0%		3%		
Volume of Topsoil (cy)					741		4,033		
Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$1.12		\$1.12		
Subtotal Topsoil Application Costs					\$832		\$4,529		
D. Discing/Seeding									
Assumptions:									
Area of surface disturbance (acres)					0.5		2.5		
Discing/Seeding Unit Cost (\$/acre)					\$235		\$235		
Subtotal Discing/Seeding Costs					\$118		\$588		
Subtotal Reclamation Costs per Pond					\$4,542		\$19,225		
Total Settling Basin/Evap. Ponds Reclamation Costs					\$23,768				
V. Miscellaneous Structures									
A. Potable Water Wells									
Total Depth (ft) (5- 5-inch Diameter Wells, @ 750 ft)					3,750				
Well Abandonment Unit Cost (\$/100 ft)					\$63.10				
Subtotal Potable Water Wells Abandonment Costs					\$2,366.25				
B. 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				
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				
Subtotal Concrete Footing Demolition Costs					\$947				
Subtotal Fuel Area Costs					\$2,222				
Total Miscellaneous Structures Reclamation Costs					\$4,588.25				
TOTAL MISCELLANEOUS RECLAMATION COSTS					\$942,638				

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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		

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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 SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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
	Items Removed								
	Process Sampling and Analysis								= \$ 0.03
TOTAL RO COSTS PER 1000 GALLONS								= \$ 0.60	

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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 SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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 SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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 SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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 SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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 SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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		1 week		1 days	=\$ 0.30			
	week	X	5 days	X	750 ft				
Fuel									
	\$ 10		8 hrs		1 days	=\$ 0.11			
	hour	X	1 day	X	750 ft				
Labor									
Trackhoe Operation									
	\$ 15		8 man hrs		1 days	=\$ 0.16			
	man hr	X	1 day	X	750 ft				
Pipeline Extraction									
	\$ 15		16 man hrs		1 day	=\$ 0.32			
	man hr	X	1 day	X	750 ft				
MAIN PIPELINE REMOVAL COST PER FT OF TRENCH						=\$ 0.89			

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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		1 week		1 days				
	week	X	5 days	X	1500 ft				=\$ 0.13
Fuel									
	\$ 10		8 hrs		1 days				
	hour	X	1 day	X	1500 ft				=\$ 0.05
Labor									
Backhoe Operation									
	\$ 15		8 man hrs		1 days				
	man hr	X	1 day	X	1500 ft				=\$ 0.08
Pipeline Extraction									
	\$ 15		16 man hrs		1 day				
	man hr	X	1 day	X	1500 ft				=\$ 0.16
MAIN PIPELINE REMOVAL COST PER FT OF PIPE = \$ 0.420									

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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	/ft³

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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						

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
SURETY ESTIMATE REVISION

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