

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

Total Restoration and Reclamation Cost Estimate		
I.	GROUNDWATER RESTORATION COST	\$9,529,297
II.	EQUIPMENT REMOVAL & DISPOSAL COST	\$332,739
III.	BUILDING DEMOLITION AND DISPOSAL COST	\$1,153,343
IV.	WELLFIELD BUILDINGS & EQUIPMENT REMOVAL & DISPOSAL COST	\$526,559
V.	WELL ABANDONMENT COST	\$1,566,870
VI.	WELLFIELD AND SATELLITE SURFACE RECLAMATION COST	\$76,387
VII.	TOTAL MISCELLANEOUS RECLAMATION COST	\$942,013
	SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE	\$14,127,208
	CPI ESCALATOR- July 1,1998 to May 31, 2006 (24.08%) OUT	\$0
	SUBTOTAL	\$14,127,208
	ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)	\$3,531,802
	TOTAL	\$17,659,010
	TOTAL CALCULATED SURETY (IN 2006 DOLLARS)	\$17,659,000

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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
2006-2007 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. Elution Costs												
A. Elution Processing Costs												
Kgals/Elution Required		0	0	0	0	0	0	0	0	0	0	0
Number of Elutions		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Processing Unit Cost (\$/Elution)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal Processing Costs		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
B. Deep Well Injection Costs												
Deep Well Injection Volume (Kgals/Elution)		0	0	0	0	0	0	0	0	0	0	0
Total Kgals for Injection		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Deep Well Injection Unit Cost (\$/Kgals)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Subtotal Deep Well Injection Costs		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Subtotal Elution Costs per Wellfield		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Elution Costs		\$0										
V. 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										
VI. 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										
VII. Building Utility Costs												
Central Plant												
Main Office												
Satellite SR-1												
Satellite SR-2												
Electricity (\$/Month)		\$8,500	\$1,825	\$8,500	\$8,500							

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2006-2007 SURETY ESTIMATE REVISION

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	Natural Gas (\$/Month)		OUT	\$0	\$0	\$0	\$0							
	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										
XI.	Vehicle Operation Costs													
	Number of Pickup Trucks/Pulling Units (Gas)			10										
	Unit Cost in \$/hr (WDEQ Guideline No.12, Table D-1)			\$20.21										
	Unit Cost in \$/hr (July 1998 dollars w/o escalator)		OUT	\$0.00										
	Average Operating Time (Hrs/Year)			1000										
	Total Number of Years (Average)			4										
	Total Vehicle Operation Costs			\$808,400										
XII.	Labor Costs													
	Number of Environmental Managers/RSOs			0.5										
	\$/Year (1/5 Costs to Smith Ranch, 1/2 Cost to Highland)			\$100,000										
	Number of Restoration Managers			0.5										
	\$/Year (1/5 Costs to Smith Ranch, 1/2 Cost 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										
XIII.	Capital Costs													
	Purchase RO Units (1X400 gpm Units)			\$600,000										
	Total Capital Costs			\$600,000										
	TOTAL GROUND WATER RESTORATION COSTS			\$9,529,297										

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2006-2007 SURETY ESTIMATE REVISION

Equipment Removal and Loading		CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pumphouse	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	0	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

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

Equipment Removal and Loading		CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pumphouse	Bone Yard	Satellite SR-2
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					
I.	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 Cost		\$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									

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2006-2007 SURETY ESTIMATE REVISION

Equipment Removal and Loading			CPP Ion Ex. Plant	Central Plant	Dryer Building	Satellite SR-1	Pilot ISL	Water Pumphouse	Bone Yard	Satellite SR-2
Radiation Safety Equipment		Accounted for on BLDGS	\$0	\$0	\$0	\$0	\$0	0	\$0	\$0
Total Health and Safety Costs		workbook, Section IV	\$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
2006-2007 SURETY ESTIMATE REVISION

Building Demolition and Disposal			CPP Ion Ex. Plant	Central Plant	Dryer Building	Office Building	Office Annex	Storage Building	Water Treat Plant	Shop Building	Pilot ISL Building	Fresh Water Pumphouse
I. Decontamination Costs												
A.	Wall Decontamination											
	Area to be Decontaminated (ft ²)		10,810	15,900	0	0	0	1,152	576	4,826	12,000	0
	Application Rate (Gallons/ft ²)		1	1	1	1	1	1	1	1	1	1
	HCl Acid Wash, including labor (\$/ft ²)		\$0.63	\$0.63	\$0.63	\$0.63	\$0.00	\$0.63	\$0.63	\$0.63	\$0.63	\$0.63
	Subtotal Wall Decontamination Costs		\$6,810	\$10,017	\$0	\$0	\$0	\$726	\$363	\$3,040	\$7,560	\$0
B.	Concrete Floor Decontamination											
	Area to be Decontaminated (ft ²)		11,550	16,500	3,500	0	0	1,678	839	7,028	17,477	0
	Application Rate (Gallons/ft ²)		0	0	0	0	0	0	0	0	0	0
	HCl Acid Wash, including labor (\$/ft ²)		\$0.47	\$0.47	\$0.47	\$0.47	\$0.00	\$0.47	\$0.47	\$0.47	\$0.47	\$0.47
	Subtotal Concrete Floor Decontamination Costs		\$5,429	\$7,755	\$1,645	\$0	\$0	\$789	\$394	\$3,303	\$8,214	\$0
C.	Deep Well Injection Costs											
	Total Kgals for Injection		10.81	15.9	0	0	0	1.152	0.576	4.826	12	0
	Deep Well Injection Unit Cost (\$/Kgals)		\$1.40	\$1.40	\$1.40	\$1.40	\$0.00	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40
	Subtotal Deep Well Injection Costs		\$15	\$22	\$0	\$0	\$0	\$2	\$1	\$7	\$17	\$0
	Subtotal Decontamination Costs per Building		\$12,254	\$17,794	\$1,645	\$0	\$0	\$1,517	\$758	\$6,350	\$15,791	\$0
	Total Decontamination Costs		\$63,599									
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	0	16,780	8,390	175,700	314,586	8,320
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)		\$0.178	\$0.178	\$0.178	\$0.178	\$0.000	\$0.178	\$0.178	\$0.178	\$0.178	\$0.178
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Building Demolition Costs		\$61,677	\$102,795	\$21,805	\$0	\$0	\$2,987	\$1,493	\$31,275	\$55,996	\$1,481
B.	Concrete Floor											
	Area of Concrete Floor (ft ²)		11,550	16,500	3,500	0	0	1,678	839	7,028	17,477	832
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)		\$3.40	\$3.40	\$3.40	\$3.40	\$0.00	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Concrete Floor Demolition Costs		\$39,270	\$56,100	\$11,900	\$0	\$0	\$5,319	\$2,660	\$22,279	\$55,402	\$2,637
C.	Concrete Footing											
	Length of Concrete Footing (ft)		430	514	237	0	0	164	116	335	529	115
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)		\$12.22	\$12.22	\$12.22	\$12.22	\$0.00	\$12.22	\$12.22	\$12.22	\$12.22	\$12.22
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Concrete Footing Demolition Costs		\$5,253	\$6,279	\$2,892	\$0	\$0	\$2,002	\$1,416	\$4,098	\$6,462	\$1,405
	Subtotal Demolition Costs per Building		\$106,200	\$165,174	\$36,597	\$0	\$0	\$10,308	\$5,569	\$57,652	\$117,860	\$5,523
	Total Demolition Costs		\$761,910									
III. Disposal Costs												
A.	Building											
	Volume of Building (cy)		12833	21389	4537	0	0	621	311	6507	11651	308
	1. On-Site											
	Assumptions:											
	On-site disposal cost of \$1.25/cy											
	Percentage (%)		100	100	100	100	0	100	100	100	100	100
	Volume for Disposal (cubic yards)		12833	21389	4537	0	0	621	311	6507	11651	308
	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	\$0	\$777	\$388	\$8,134	\$14,564	\$385

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

		CPP Ion Ex.	Central	Dryer	Office	Office	Storage	Water Treat	Shop	Pilot ISL	Fresh Water
Building Demolition and Disposal		Plant	Plant	Building	Building	Annex	Building	Plant	Building	Building	Pumphouse
2.	NRC-Licensed Facility										
	Percentage (%)	0	0	0	0	0	0	0	0	0	0
	Volume for Disposal (ft ³)	0	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	0
	Transportation and Disposal Unit Cost (\$/ft ³)	\$12.00	\$12.00	\$12.00	\$12.00	\$0.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
	Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Building Disposal Costs	\$16,042	\$26,736	\$5,671	\$0	\$0	\$777	\$388	\$8,134	\$14,564	\$385
B.	Concrete Floor										
	Area of Concrete Floor (ft ²)	11550	16500	3500	0	0	1678	839	7028	17477	1186
	Average Thickness of Concrete Floor (ft)	0.75	0.75	0.75	0.75	0	0.75	0.75	0.75	0.75	0.75
	Volume of Concrete Floor (ft ³)	8662.5	12375	2625	0	0	1258.5	629.25	5271	13107.75	889.5
	Volume of Concrete Floor (cy)	321	458	97	0	0	47	23	195	485	33
1.	On-Site										
	Percentage (%)	75	75	75	100	0	100	100	100	75	100
	Volume for Disposal (cy)	241	344	73	0	0	47	23	195	364	33
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)	\$6.39	\$6.39	\$6.39	\$6.39	\$0.00	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal On-Site Disposal Costs	\$1,538	\$2,197	\$466	\$0	\$0	\$298	\$149	\$1,247	\$2,327	\$211
2.	NRC-Licensed Facility										
	Assumptions:										
	Additional \$2.60/cy for segregation of concrete										
	Percentage (%)	25	25	25	0	0	0	0	0	25	0
	Volume for Disposal (ft ³)	2888	3094	656	0	0	0	0	0	3277	0
	Segregation and Loading Unit Cost (\$/ft ³)	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60
	Transportation and Disposal Unit Cost (\$/ft ³)	\$12.00	\$12.00	\$12.00	\$12.00	\$0.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
	Subtotal NRC-Licensed Facility Disposal Costs	\$42,165	\$45,169	\$9,581	\$0	\$0	\$0	\$0	\$0	\$47,843	\$0
	Subtotal Concrete Floor Disposal Costs	\$43,703	\$47,366	\$10,047	\$0	\$0	\$298	\$149	\$1,247	\$50,170	\$211
C.	Concrete Footing										
	Length of Concrete Footing (ft)	430	514	237	0	0	164	116	335	529	124
	Average Depth of Concrete Footing (ft)	4	4	4	4	0	4	4	4	4	4
	Average Width of Concrete Footing (ft)	1	1	1	1	0	1	1	1	1	1
	Volume of Concrete Footing (ft ³)	1720	2055	947	0	0	655	463	1341	2115	496
	Volume of Concrete Footing (cy)	64	76	35	0	0	24	17	50	78	18
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)	\$6.39	\$6.39	\$6.39	\$6.39	\$0.00	\$6.39	\$6.39	\$6.39	\$6.39	\$6.39
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Concrete Footing Disposal Costs	\$407	\$486	\$224	\$0	\$0	\$155	\$110	\$317	\$501	\$117
	Subtotal Disposal Costs per Building	\$60,152	\$74,588	\$15,942	\$0	\$0	\$1,230	\$647	\$9,698	\$65,235	\$713
	Total Disposal Costs	\$317,224									
IV.	Health and Safety Costs										
	Radiation Safety Equipment RSO removed per item cost and generated one lump sum cost!	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Total Health and Safety Costs	\$10,610									
SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS		\$178,606	\$257,556	\$54,184	\$0	\$0	\$13,055	\$6,974	\$73,700	\$198,886	\$6,236
TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS		\$1,153,343									

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

				DDW	Satellite	Yellowcake	Satellite
Building Demolition and Disposal				Buildings	SR-1	Warehouse	SR-2
I. Decontamination Costs							
A.	Wall Decontamination						
	Area to be Decontaminated (ft ²)			0	0	3100	
	Application Rate (Gallons/ft ²)			1	1	1	1
	HCl Acid Wash, including labor (\$/ft ²)			\$0.63	\$0.63	\$0.63	\$0.63
	Subtotal Wall Decontamination Costs			\$0	\$0	\$1,953	\$0
B.	Concrete Floor Decontamination						
	Area to be Decontaminated (ft ²)			0	9000	2750	0
	Application Rate (Gallons/ft ²)			0	0	0	0
	HCl Acid Wash, including labor (\$/ft ²)			\$0.47	\$0.47	\$0.47	\$0.47
	Subtotal Concrete Floor Decontamination Costs			\$0	\$4,230	\$1,293	\$0
C.	Deep Well Injection Costs						
	Total Kgals for Injection			0	0	3.1	0
	Deep Well Injection Unit Cost (\$/Kgals)			\$1.40	\$4.60	\$4.60	\$4.60
	Subtotal Deep Well Injection Costs			\$0	\$0	\$14	\$0
	Subtotal Decontamination Costs per Building			\$0	\$4,230	\$3,260	\$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)			660.3	402,000	55,000	402,000
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)			\$0.178	\$0.178	\$0.178	\$0.178
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator) OUT			\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Building Demolition Costs			\$118	\$71,556	\$9,790	\$71,556
B.	Concrete Floor						
	Area of Concrete Floor (ft ²)			0	13400	2750	13400
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)			\$3.17	\$3.05	\$3.05	\$3.05
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator) OUT			\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Concrete Floor Demolition Costs			\$0	\$40,870	\$8,388	\$40,870
C.	Concrete Footing						
	Length of Concrete Footing (ft)			0	463	210	463
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft ³)			\$12.22	\$12.22	\$12.22	\$12.22
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator) OUT			\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Concrete Footing Demolition Costs			\$0	\$5,658	\$2,563	\$5,658
	Subtotal Demolition Costs per Building			\$118	\$118,084	\$20,741	\$118,084
	Total Demolition Costs						
III. Disposal Costs							
A.	Building						
	Volume of Building (cy)			24	14889	2037	14889
	1. On-Site						
	Assumptions:						
	On-site disposal cost of \$1.25/cy						
	Percentage (%)			100	100	100	100
	Volume for Disposal (cubic yards)			24	14889	2037	14889
	Disposal Unit Cost (\$/cy)			\$1.25	\$1.25	\$1.25	\$1.25
	Subtotal On-Site Disposal Costs			\$31	\$18,611	\$2,546	\$18,611

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

				DDW	Satellite	Yellowcake	Satellite
Building Demolition and Disposal				Buildings	SR-1	Warehouse	SR-2
	2.	NRC-Licensed Facility					
		Percentage (%)		0	0	0	0
		Volume for Disposal (ft ³)		0	0	0	0
		Volume for Disposal Assuming 10% Void Space (ft ³)		0	0	0	0
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.00	\$12.00	\$12.00	\$12.00
		Subtotal NRC-Licensed Facility Disposal Costs		\$0	\$0	\$0	\$0
		Subtotal Building Disposal Costs		\$31	\$18,611	\$2,546	\$18,611
	B.	Concrete Floor					
		Area of Concrete Floor (ft ²)		0	13400	2750	13400
		Average Thickness of Concrete Floor (ft)		0.75	0.75	0.75	0.75
		Volume of Concrete Floor (ft ³)		0	10050	2062.5	10050
		Volume of Concrete Floor (cy)		0	372	76	372
	1.	On-Site					
		Percentage (%)		0	75	75	75
		Volume for Disposal (cy)		0	279	57	279
		Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$6.39	\$6.39	\$6.39	\$6.39
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		OUT	\$0.00	\$0.00	\$0.00
		Subtotal On-Site Disposal Costs		\$0	\$1,784	\$366	\$1,784
	2.	NRC-Licensed Facility					
		Assumptions:					
		Additional \$2.60/cy for segregation of concrete					
		Percentage (%)		0	25	25	
		Volume for Disposal (ft ³)		0	2513	516	
		Segregation and Loading Unit Cost (\$/ft ³)		\$2.60	\$2.60	\$2.60	\$2.60
		Transportation and Disposal Unit Cost (\$/ft ³)		\$12.00	\$12.00	\$12.00	\$12.00
		Subtotal NRC-Licensed Facility Disposal Costs		\$0	\$36,683	\$7,528	\$0
		Subtotal Concrete Floor Disposal Costs		\$0	\$38,467	\$7,894	\$1,784
	C.	Concrete Footing					
		Length of Concrete Footing (ft)		0	463	210	463
		Average Depth of Concrete Footing (ft)		4	4	4	4
		Average Width of Concrete Footing (ft)		1	1	1	1
		Volume of Concrete Footing (ft ³)		0	1852	839	1852
		Volume of Concrete Footing (cy)		0	69	31	69
		Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$6.39	\$6.39	\$6.39	\$6.39
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$0.00	\$0.00	\$0.00	\$0.00
		Subtotal Concrete Footing Disposal Costs		\$0	\$438	\$199	\$438
		Subtotal Disposal Costs per Building		\$31	\$57,516	\$10,639	\$20,833
		Total Disposal Costs					
	IV.	Health and Safety Costs					
		Radiation Safety Equipment RSO removed per item cost and generated one lump sum cost!		\$0	\$0	\$0	\$0
		Total Health and Safety Costs					
		SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS		\$149	\$179,830	\$34,640	\$138,917
		TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS					

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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
		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

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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
	Volume of Pump and Tubing (ft)		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
	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

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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)	0.359	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
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)	OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	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
	Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)	OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Building Demolition Costs	\$2,884	\$2,403	\$3,845	\$2,884	\$2,403	\$6,248	\$1,922	\$2,403	\$1,442
B.	Survey and Decontamination									
	Assumptions:									

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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
		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
		Unit Cost in \$/ft ³ (July 1998 dollars w/o escalator)	OUT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		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
2006-2007 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										
	Drill Rig Operation (\$/hr) SH	0	0	0							
	Number of Hours SH	0	0	0							
	OUT Drill Rig Operating Costs SH	0	0	0	All lump sum costs						
	Cementing Costs SH	0	0	0							
	Equipment Transport Costs SH	0	0	0							
	Well Cap Welding Costs SH	0	0	0							
	Brine Makeup and Injection Costs SH	0	0	0							
	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
2006-2007 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								
	Unit Cost in \$/acre (July 1998 dollars w/o escalat)	OUT	\$0.00	\$0.00							
	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								
	Unit Cost in \$/acre (July 1998 dollars w/o escalat)	OUT	\$0.00	\$0.00							
	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
2006-2007 SURETY ESTIMATE REVISION

Miscellaneous Reclamation										
I. CPP/Office Area/Pilot Plant/Maint. Shop/Chem. Storage/Yard Reclamation										
Assumptions										
Concrete Pad= 0.3 acres										
Total Area = 10.57 acres										
A. Concrete Pad										
Area of Concrete Pad (ft ²)										13068
Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ²)										\$3.40
Unit Cost in \$/ft ² (July 1998 dollars w/o escalator)										OUT \$0.00
Average Thickness of Concrete Floor (ft)										0.50
Volume of Concrete Floor (ft ³)										6,534
Volume of Concrete Floor (cy)										242
On-Site Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)										\$5.00
Unit Cost in \$/cy (July 1998 dollars w/o escalator)										OUT \$0.00
Subtotal Concrete Pad Demolition and Disposal Costs										\$45,641
B. Gravel Road Base Removal										
Assumptions										
Average haul distance (ft)										1000
Gravel Road Base Width (ft)										
Gravel Road Base Area (acres)										8.0
Average Road Base Depth (ft)										0.5
Volume of Road Base (cy)										6453
Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)										\$0.87
Unit Cost in \$/cy (July 1998 dollars w/o escalator)										OUT \$0.00
Subtotal Gravel Road Base Removal Costs										\$5,589
B. Ripping Overburden with Dozer										
Overburden Surface Area (acres)										10.6
Ripping Unit Cost per WDEQ Guideline No.12, App.II (\$/acre)										\$814.22
Unit Cost in \$/cy (July 1998 dollars w/o escalator)										OUT \$0.00
Subtotal Ripping Overburden Costs										\$8,606
C. Topsoil Application										
Assumptions:										
Area of surface disturbance (ft ²)										460426
Average thickness of topsoil (ft)										1
Average haul distance (ft)										2000
Surface grade (%)										0%
Volume of Topsoil (cy)										17,053
Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)										\$1.12
Unit Cost in \$/cy (July 1998 dollars w/o escalator)										OUT \$0.00
Subtotal Topsoil Application Costs										\$19,150

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

Miscellaneous Reclamation										
D.	Discing/Seeding									
	Assumptions									
	Surface Area (acres)					10.57				
	Discing/Seeding Unit Cost (\$/acre)					\$235				
	Total Discing/Seeding Costs					\$2,484				
	Total CPF/Office/Yard Area Reclamation					\$75,881				
II.	Access Road Reclamation					CPP Access Rd.	CPP to SAT 3	Access to WF	MU-15 Access	SR2 Access
A.	Assumptions									
	Surface grade					1%	5%	5%	0%	5%
	Length of Road (ft)					5173	15827	15557	10560	8500
	Width of Road (ft)					40	30	14	30	30
	Area of road (acres)					4.75	10.9	5	7.27	5.85
B.	Gravel Road Base Removal									
	Assumptions									
	Average haul distance (ft)					1000	1000	1000	1000	1000
	Gravel Road Base Width (ft)					30	20	10	20	20
	Gravel Road Base Area (acres)					3.56	7.27	3.57	4.85	3.90
	Average Road Base Depth (ft)					0.5	0.5	0.5	0.5	0.5
	Volume of Road Base (cy)					2874	5862	2881	3911	3148
	Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$0.87	\$0.87	\$0.87	\$0.87	\$0.87
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)			OUT		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Gravel Road Base Removal Costs					\$2,489	\$5,076	\$2,495	\$3,387	\$2,726
C.	Ripping Overburden with Dozer									
	Overburden Surface Area (acres)					4.8	10.9	5.0	7.3	5.9
	Ripping Unit Cost per WDEQ Guideline No.12, App.II (\$/acre)					\$814.22	\$814.22	\$814.22	\$814.22	\$814.22
	Unit Cost in \$/acre (July 1998 dollars w/o escalator)			OUT		\$0.00	\$0.00	\$0.00	\$0.00	\$707.40
	Subtotal Ripping Overburden Costs					\$3,868	\$8,875	\$4,071	\$5,922	\$4,141
D.	Topsoil Application									
	Assumptions									
	Average haul distance (ft)					1500	1500	1500	1500	1500
	Topsoil Surface Area (ft ²)					206910	474804	217800	316800	255000
	Depth of Topsoil (ft)					0.5	0.5	0.5	0.5	0.5
	Volume of Topsoil (cy)					3832	8793	4033	5867	4722
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)					\$1.50	\$1.50	\$0.82	\$0.82	\$0.82
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)			OUT		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Subtotal Topsoil Application Costs					\$5,748	\$13,189	\$3,307	\$4,811	\$3,872
E.	Discing/Seeding									
	Assumptions									
	Surface Area (acres)					4.8	10.9	5.0	7.3	5.9
	Discing/Seeding Unit Cost (\$/acre)					\$235	\$235	\$235	\$235	\$200

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

Miscellaneous Reclamation										
				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	\$11,910
				Total Access Road Reclamation Costs		\$81,710				
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

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

Miscellaneous Reclamation									
		Chipped Volume Reduction (ft ³ /ft)		0.359	0.359	0.359	0.359	0.359	0.359
		Chipped Volume (ft ³)		0	0	0	0	0	0
	5.	16" HDPE Trunkline							
		Piping Length (ft)		15500	11000	21120	15500	15500	15500
		Chipped Volume Reduction (ft ³ /ft)		0.4	0.4	0.4	0.4	0.4	0.4
		Chipped Volume (ft ³)		6200	4400	8448	6200	6200	6200
	6	18" HDPE Trunkline							
		Piping Length (ft)		0	31500	0	0	0	0
		Chipped Volume Reduction (ft ³ /ft)		0.47	0.47	0.47	0.47	0.47	0.47
		Chipped Volume (ft ³)		0	14805	0	0	0	0
		Total Pipeline Disposal Volume		6804.5	23168	11763	6200	6200	6200
		Volume for Disposal Assuming 10% Void Space (ft ³)		7485	25485	12939	6820	6820	6820
		Transportation and Disposal Unit Cost (NRC-Licensed Facility) (\$/ft³)		\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00
				\$89,820	\$305,820	\$155,268	\$81,840	\$81,840	\$81,840
	C.	Discing/Seeding							
		Assumptions:							
		Width of Pipeline Trench (ft)		4	4	4	4	4	4
		Area of Pipeline Trench (acres)		0.7	0.8	2.0	0.5	0.2	0.2
		Discing/Seeding Unit Cost (\$/acre)		\$235	\$235	\$235	\$235	\$235	\$235
		Subtotal Discing/Seeding Costs		\$167	\$183	\$459	\$119	\$54	\$54
		Subtotal Reclamation Costs per Pipeline		\$96,885	\$313,568	\$174,640	\$86,854	\$84,119	\$84,119
		Total Pipeline Reclamation Costs		\$756,066					
	IV.	Settling Basin/Evap. Pond Reclamation			Evaporation Pond	SettlingPond			
	A.	Soil Sampling and Monitoring							
		Number of Soil Samples		0	15				
		\$/Sample		\$75	\$75				
		Subtotal Soil Sampling and Monitoring Costs		\$0	\$1,125				
	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				

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

Miscellaneous Reclamation									
	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			
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		OUT	\$0.00	\$0.00			
		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			
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		OUT	\$0.00	\$0.00			
		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.	Venthole							
		Hole Depth (ft)			0				
		Concrete Volume (cy)		All Ventholes closed	0				
		Backfill (\$1.09/cy) SH		OUT	\$0				
		Backhoe 16 hrs (\$50/hour) SH			\$0				

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

Miscellaneous Reclamation									
		Steel Plate and Rebar SH				\$0			
		Cement (10 cy @\$76/cy delivered) SH				\$0			
		Labor (40 man-hours @ \$15/hour) SH				\$0			
		Dirt Cover (100 cy @ \$1.09/cy) SH				\$0			
		Subtotal Venthole Plugging Costs				\$0			
	B.	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			
	C.	Fuel Area							
		Concrete Floor							
		Area of Concrete Floor (ft ²)				375			
		Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft ²)				\$3.40			
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		OUT		\$0.00			
		Subtotal Concrete Floor Demolition Costs				\$1,275			
		Concrete Footing							
		Length of Concrete Footing (ft)				77			
		Demolition Unit Cost per WDEQ Guide, No.12,App.K (\$/lin. ft)				\$12.22			
		Unit Cost in \$/cy (July 1998 dollars w/o escalator)		OUT		\$0.00			
		Subtotal Concrete Footing Demolition Costs				\$947			
		Subtotal Fuel Area Costs				\$2,222			
		Total Miscellaneous Structures Reclamation Costs				\$4,588.25			
		TOTAL MISCELLANEOUS RECLAMATION COSTS				\$942,013			

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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	HUP ONLY

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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
2006-2007 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.									
	6&7 OUT								
7.									
8.	Process sampling and analysis costs estimated at \$0.03/1000 gallons								
9.	Labor costs are not included								
Reverse Osmosis Costs per 1000 Gallons									
	Electricity							= \$	0.048
	Chemicals							= \$	0.23
	Membrane Replacement							= \$	0.03
	Repair and Maintenance							= \$	0.26
									Items Removed
	Process Sampling and Analysis							= \$	0.03
TOTAL RO COSTS PER 1000 GALLONS								= \$	0.60

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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		
											July 1998 Dollars	= \$ 0.26	OUT

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 SURETY ESTIMATE REVISION

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

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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	$\frac{150 \text{ hp}}{100 \text{ gpm}}$	X	$\frac{1 \text{ hr}}{60 \text{ min}}$	X	$\frac{0.746 \text{ kwh}}{\text{hp}}$	X	$\frac{\$ 0.048}{\text{kwh}}$	= \$	0.90
Repair and Maintenance Costs per 1000 Gallons										= \$	0.5
TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS										= \$	1.40

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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
2006-2007 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
2006-2007 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
2006-2007 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	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 SMITH RANCH URANIUM PROJECT
2006-2007 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	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 SMITH RANCH URANIUM PROJECT
2006-2007 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	X	\$0.87	= \$ 80
						27 ft ³		cy	
Scarification Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	1 acre				\$41.87	= \$ 24
				4.356E+04 ft ²				acre	
Grading Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	1 acre				\$45.65	= \$ 26
				4.356E+04 ft ²				acre	
Topsoil Application Costs per 1000 ft of Road									
1000 ft	X	0.67 ft	X	25 ft	X	1 cy	X	\$0.87	= \$ 537
						27 ft ³		cy	
Discing/Seeding Costs per 1000 ft of Road									
1000 ft	X	25 ft	X	1 acre				\$235	= \$ 135
				4.356E+04 ft ²				acre	
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				\$41.87	= \$ 19
				4.356E+04 ft ²				acre	
Grading Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	1 acre				\$45.65	= \$ 21
				4.356E+04 ft ²				acre	
Topsoil Application Costs per 1000 ft of Road									
1000 ft	X	0.40 ft	X	20 ft	X	1 cy	X	\$0.86	= \$ 255
						27 ft ³		cy	
Discing/Seeding Costs per 1000 ft of Road									
1000 ft	X	20 ft	X	1 acre				\$235	= \$ 108
				4.356E+04 ft ²				acre	
TOTAL WELLFIELD ROAD RECLAMATION COSTS PER									
1000 FT OF ROAD (AFTER JANUARY 1, 1997)									
								= \$ 403	

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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	/ft ³	

POWER RESOURCES INC SMITH RANCH URANIUM PROJECT
2006-2007 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
2006-2007 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				