



Smith Ranch - Highland  
Uranium Project  
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June 30, 2006

Addressee only  
Mr. Gary Janosko, Chief FCLB  
Fuel Cycle Facilities Branch, NMSS  
Mail Stop T-8A33  
U.S. Nuclear Regulatory Commission  
Washington D.C. 20555

RE: Smith Ranch-Highland Uranium Project  
Docket No. 40-8964, SUA-1548  
2006-2007 Surety Estimate Revision

Dear Mr. Janosko:

**HIGHLAND URANIUM PROJECT  
2006-2007 Surety Estimate Revision Summary**

The 2006-2007 Surety Estimate revision is based on the current approved estimate, which utilizes the WDEQ-LQD standardized bond format and, where applicable, the cost estimates provided in WDEQ-LQD Guideline No. 12 (dated October 2005). The 2006-2007 Surety Estimate Revision results in a Surety Estimate of \$22,497,100, which is an increase of \$710,400. from the currently approved Surety Estimate of \$21,786,700. The attached computer disk contains the Excel file (HUPBOND2007), which contains all spreadsheets and unit cost derivations.

The 2006-2007 Surety Estimate Revision reflects costs associated with new development during the report period and planned operations during the next one-year surety period. The only significant development during this report period was construction activities in Mine Unit-J (MU-J). Completed construction activities include the monitor well ring, the main trunkline from Satellite #3, completion of some of the planned wellfield patterns and all required monitor wells associated with Mine Unit J. There are a total of seven Headerhouse's in MU-J, six will



start up and be in production in 2006 and one in 2007. The estimate also identifies work to be started in MU-JA in the first & second quarter of 2007. Updating the Surety Estimate with appropriate ground water restoration, decommissioning, and reclamation costs for pattern areas and the trunkline corridor for Mine Unit-J & JA added approximately \$438,000 (before any escalators) to the Surety Estimate.

Cost estimates based on the WDEQ-LQD Guideline No. 12 were revised in 2005, and utility costs were updated at that time based on operating costs. Unit costs used from the WDEQ-LQD Guideline No. 12 were de-escalated to July 1998 dollars to maintain consistency with the other unit costs used in the bond calculations as well as the 2005-2006 revised surety estimate revision. The CPI escalator (July 98 to May 06) is then applied to the total tabulated costs. The CPI increased .3% from last year's (19.1%) revision. WDEQ-LQD Guideline No. 12 unit costs are mainly used to estimate building demolition and disposal, wellfield demolition and disposal, and surface reclamation costs. Using the current, de-escalated to July 1998 dollars

Restoration of Mine Unit-A has been completed. Therefore, there are no groundwater restoration costs for Mine Unit-A is included in the 2006-2007 Surety Estimate (with the exception of costs for stabilization period monitoring). Costs for removal of buildings and equipment, well abandonment, and surface reclamation for Mine Unit-A are retained in the 2006-2007 Surety Estimate.

Line item VI on the surety summary table decreased (\$1,220.00) as a result of more realistic estimations of the number of feet of wellfield roads (spread sheet WF REC – IIB). This is the only line item that exhibited a decrease from the 2005-2006 surety estimate revision submittal. All other surety items exhibited an increase or remained the same. The CPI escalator (19.41%) and 25% contingency account for \$ 7,424,920.00 or 33%, of the total surety estimate.

Copies of these 2006-2007 Surety Estimate Revisions are also being forwarded to the Wyoming Department of Environmental Quality (WDEQ-LQD). Upon WDEQ-LQD and NRC approval of these estimates, PRI will revise the existing surety instrument to the applicable amounts. Until that time, the existing surety instrument will remain in place.

PRI representatives are available to meet with your staff to assist with their review of this submittal. If you or your staff have any questions, please call me at (307) 358-6541 ext. 46.

Sincerely,



John McCarthy  
Manager, Environmental, Health  
& Safety (EHS)

Cc: S.P. Collings w/atta  
C. Foldenauer w/atta

R. Townley w/o atta  
L. Spackman, WDEQ/LQD

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

<b>Total Restoration and Reclamation Cost Estimate</b>				
<b>I.</b>	<b>GROUNDWATER RESTORATION COST</b>			<b>\$10,504,422</b>
<b>II.</b>	<b>EQUIPMENT REMOVAL &amp; DISPOSAL COST</b>			<b>\$103,633</b>
<b>III.</b>	<b>BUILDING DEMOLITION AND DISPOSAL COST</b>			<b>\$1,011,992</b>
<b>IV.</b>	<b>WELLFIELD BUILDINGS &amp; EQUIPMENT REMOVAL &amp; DISPOSAL COST</b>			<b>\$1,209,170</b>
<b>V.</b>	<b>WELL ABANDONMENT COST</b>			<b>\$1,452,683</b>
<b>VI.</b>	<b>WELLFIELD AND SATELLITE SURFACE RECLAMATION COST</b>			<b>\$94,519</b>
<b>VII.</b>	<b>TOTAL MISCELLANEOUS RECLAMATION COST</b>			<b>\$695,734</b>
	<b>SUBTOTAL RECLAMATION AND RESTORATION COST ESTIMATE</b>			<b>\$15,072,153</b>
			<b>CPI ESCALATOR- July 1998 to May 31, 2006 (19.41%)</b>	<b>\$2,925,505</b>
			<b>SUBTOTAL</b>	<b>\$17,997,658</b>
			<b>ADMINISTRATIVE, OVERHEAD, AND CONTINGENCY ITEMS (25%)</b>	<b>\$4,499,415</b>
			<b>TOTAL</b>	<b>\$22,497,073</b>
			<b>TOTAL CALCULATED SURETY (IN 2005 DOLLARS)</b>	<b>\$22,497,100</b>

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2008-2007 SURETY ESTIMATE REVISION

Ground Water Restoration	Mine Unit-A	Mine Unit-B	Mine Unit-C	C-19N Pattern	C-Haul Drifts	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
<b>PV Assumptions</b>													
Wellfield Area (R2)	151900	690900	1274000	32500		279500	994500	3348000	1116000	216000	891231	1200000	400000
Wellfield Area (acres)	3.49	15.86	29.25	0.75	0.00	6.42	22.83	76.86	25.62	4.96	20.46	27.55	9.18
Affected Ore Zone Area (R2)	151900	690900	1274000	32500	0	279500	994500	3348000	1116000	216000	891231	1200000	400000
Avg. Completed Thickness	15	15	15	15		15	15	15	15	15	15	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	0.27
Perimeter Injection Wells/ R2			2.05E-04			2.54E-04	2.63E-04	2.00E-04	2.43E-04	2.45E-04	2.55E-04	2.55E-04	2.55E-04
Flare Factor	2.94	2.94	2	2		2.5	2.6	2	2.4	2.5	2.5	2.5	2.5
Affected Volume (R3)	6698790	30468690	38220000	975000	1360000	10481250	38785500	100440000	40176000	8100000	33421163	60000000	20000000
Kgallons per Pore Volume	13529	61535	77189	1969	10173	21168	78331	202849	81139	16359	67497	121176	40392
<b>Number of Patterns in Unit(s)</b>													
Current	31	141	196	5	0	43	153	465	155	30	124	120	0
Estimated next report period	0	0	0	0	0	0	0	0	0	0	0	0	40
Total Estimated	31	141	196	5	0	43	153	465	155	30	124	120	40
<b>Number of Wells in Unit(s)</b>													
<b>Production Wells</b>													
Current	27	141	192			45	143	465	155	30	125	120	0
Estimated next report period	0	0	0			0	0	0	0	0	0	0	40
Total Estimated	27	141	192			45	143	465	155	30	125	120	40
<b>Injection Wells</b>													
Current	50	319	343			91	307	903	327	67	236	240	0
Estimated next report period	0	0	0			0	0	0	0	0	0	0	80
Total Estimated	50	319	343			91	307	903	327	67	236	240	80
<b>Monitor Wells</b>													
Current	18	67	78			38	86	134	81	20	39	41	0
Estimated next report period	0	0	0			0	0	0	0	0	0	0	30
Total Estimated	18	67	78			38	86	134	81	20	39	41	30
<b>Restoration Wells</b>													
Current	13	30	19			0	0	15	0	0	0	0	0
Estimated next report period	0	0	0			0	0	0	0	0	0	0	0
Total Estimated	13	30	19			0	0	15	0	0	0	0	0
Number of Wells per Wellfield	108	557	632	0	0	174	536	1517	563	117	400	401	150
Total Number of Wells	4087												
Average Well Depth (ft)	500	450	550	550	550	600	550	650	500	600	650	540	540
<b>I. Restoration Well Installation Costs</b>													
Number of Restoration Wells	0	0	0	0	0	0	0	0	0	0	0	0	0
Well Installation Unit Cost (\$/Well)	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Subtotal Restoration Well Installation Costs per Wellfield	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Restoration Well Installation Costs	\$0												

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Ground Water Restoration		Mine Unit-A	Mine Unit-B	Mine Unit-C	C-19N Pattern	C-Haul Drifts	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-II	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
<b>II. Ground Water Sweep Costs</b>														
	PV's Required	0	1	1	1	1	1	1	1	1	1	1	1	1
	Total Kgals for Treatment	0	61535	77189	1969	10173	21168	78331	202849	81139	16359	67497	121176	40392
	Ground Water Sweep Unit Cost (\$/Kgal)	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77	\$0.77
	Subtotal Ground Water Sweep Costs per Wellfield	\$0	\$47,114	\$59,100	\$1,508	\$7,789	\$16,207	\$59,974	\$155,311	\$62,124	\$12,525	\$51,679	\$92,778	\$30,926
	<b>Total Ground Water Sweep Costs</b>	<b>\$597,035</b>												
<b>III. Reverse Osmosis Costs</b>														
	PV's Required	0	5	5	5	5	5	5	5	5	5	5	5	5
	Total Kgals for Treatment	0	307673	385946	9846	50864	105840	391656	1014243	405697	81794	337487	605880	201960
	Reverse Osmosis Unit Cost (\$/Kgal)	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33	\$1.33
	Subtotal Reverse Osmosis Costs per Wellfield	\$0	\$407,851	\$511,609	\$13,051	\$67,425	\$140,301	\$519,179	\$1,344,481	\$537,792	\$108,426	\$447,373	\$803,155	\$267,718
	<b>Total Reverse Osmosis Costs</b>	<b>\$5,168,361</b>												
<b>IV. Bioremediation/Chemical Reductant Costs</b>														
	Total Kgals for Treatment (2 Pore Volumes)	0	123069	154378	3938	20346	42336	156662	405697	162279	32718	134995	242352	80784
	Chemical Reductant Unit Cost (\$/Kgal)	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29	\$0.29
	Subtotal Chemical Reductant Costs per Wellfield	\$0	\$35,690	\$44,770	\$1,142	\$5,900	\$12,277	\$45,432	\$117,652	\$47,061	\$9,488	\$39,148	\$70,282	\$23,427
	<b>Total Chemical Reductant Costs</b>	<b>\$452,269</b>												
<b>V. Elution Costs</b>														
<b>A. Elution Processing Costs</b>														
	Kgals/Elution Required	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000
	Number of Elutions	0	11	13	1	2	4	13	35	14	3	12	21	7
	Processing Unit Cost (\$/Elution)	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525
	Subtotal Processing Costs	\$0	\$5,775	\$6,825	\$525	\$1,050	\$2,100	\$6,825	\$18,375	\$7,350	\$1,575	\$6,300	\$11,025	\$3,675
<b>B. Deep Well Injection Costs</b>														
	Deep Well Injection Volume (Kgals/Elution)	12	12	12	12	12	12	12	12	12	12	12	12	12
	Total Kgals for Injection	0	132	156	12	24	48	156	420	168	36	144	252	84
	Deep Well Injection Unit Cost (\$/Kgals)	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60
	Subtotal Deep Well Injection Costs	\$0	\$607	\$718	\$55	\$110	\$221	\$718	\$1,933	\$773	\$166	\$663	\$1,160	\$387
	Subtotal Elution Costs per Wellfield	\$0	\$6,382	\$7,543	\$580	\$1,160	\$2,321	\$7,543	\$20,308	\$8,123	\$1,741	\$6,963	\$12,185	\$4,062
	<b>Total Elution Costs</b>	<b>\$78,911</b>												
<b>VI. Monitoring and Sampling Costs</b>														
<b>A. Restoration Well Sampling</b>														
	Estimated Restoration Period (Years)	5	5	5	5	2	5	5	5	5	5	5	5	5
	1. Well Sampling prior to restoration start													
	# of Wells	0	20	31	5	7	9	31	21	12	4	6	6	6
	\$/sample	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Ground Water Restoration	Mine Unit-A	Mine Unit-B	Mine Unit-C	C-19N Pattern	C-Haul Drifts	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Est.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
<b>2. Restoration Progress Sampling</b>													
# of Wells	0	20	31	5	7	9	31	21	12	4	6	12	12
\$/sample	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34
Samples/Year	6	6	6	6	6	6	6	6	6	6	6	6	6
<b>3. UCL Sampling</b>													
# of Wells	0	70	78	5	20	29	55	89	69	16	33	69	69
\$/sample	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19
Samples/Year	6	6	6	6	6	6	6	6	6	6	6	6	6
<b>Sub-total Restoration Analyses</b>	\$0	\$63,300	\$80,730	\$8,700	\$8,466	\$27,060	\$67,620	\$75,300	\$53,370	\$13,800	\$25,830	\$52,470	\$52,470
<b>B. Short-term Stability</b>													
<b>Estimated Stabilization Period (Months)</b>	12	12	12	12	12	12	12	12	12	12	12	12	12
# of Wells	6	56	44	6	2	19	28	89	69	16	33	33	33
Samples/Year	6	6	6	6	6	6	6	6	6	6	6	6	6
\$/sample	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19
# of Wells	5	20	31	6	2	9	31	21	12	4	6	6	6
Samples/Year	6	6	6	6	6	6	6	6	6	6	6	6	6
\$/sample	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34	\$34
# of Wells	5	20	31	6	2	9	31	21	12	4	6	6	6
Samples/Year	2	2	2	2	2	2	2	2	2	2	2	2	2
\$/sample	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$150
<b>Sub-total Short-term Stability Analyses</b>	\$3,204	\$16,464	\$20,640	\$3,708	\$1,236	\$6,702	\$18,816	\$20,730	\$13,914	\$3,840	\$6,786	\$6,786	\$6,786
<b>Subtotal Monitoring and Sampling Costs per Wellfield</b>	\$3,204	\$79,764	\$101,370	\$12,408	\$9,702	\$33,762	\$86,436	\$96,030	\$67,284	\$17,640	\$32,616	\$59,256	\$59,256
<b>Total Monitoring and Sampling Costs</b>	\$658,728												
<b>VII. Mechanical Integrity Test (MIT) Costs</b>													
Five Year MIT Unit Cost (\$/well)	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71	\$71
Number of Wells (30% of Inj. and Rest. Wells)	0	0	109	0	0	27	92	275	98	20	71	72	24
<b>Subtotal Mechanical Integrity Testing Costs per Wellfield</b>	\$0	\$0	\$7,711	\$0	\$0	\$1,938	\$6,539	\$19,553	\$6,965	\$1,427	\$5,027	\$5,112	\$1,704
<b>Total Mechanical Integrity Testing Cost</b>	\$55,976												
<b>TOTAL RESTORATION COSTS PER WELLFIELD</b>	\$3,204	\$376,801	\$732,103	\$28,689	\$91,976	\$206,806	\$725,103	\$1,753,335	\$729,349	\$151,247	\$582,806	\$1,042,768	\$387,093
<b>TOTAL WELLFIELD RESTORATION COST</b>	\$7,011,280												
<b>VIII. Building Utility Costs</b>													
Central Plant		Main Office	Satellite No.1	Satellite No.2	Satellite No.3								
Electricity (\$/Month)	\$0	\$0	\$1,050	\$1,190	\$1,675								
Propane (\$/Month)	\$0	\$0	\$680	\$0	\$1,160								
Natural Gas (\$/Month)	\$0	\$0	\$0	\$520	\$0								
Number of Months	0	60	6	48	48								
<b>Subtotal Utility Costs per Building</b>	\$0	\$0	\$10,380	\$82,080	\$136,080								
<b>Total Building Utility Costs</b>	\$228,540												

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Ground Water Restoration			
(X)	Irrigation Maintenance and Monitoring Costs	Irrigator No.1	Irrigator No.2
A.	Irrigation Maintenance and Repair		
	Irrigation Operation Months/Year	6	6
	Cost per Month	\$667	\$667
	Total Number of Years	5	5
	Subtotal Maintenance and Repair Costs	\$20,010	\$20,010
B.	Irrigation Monitoring and Sampling		
	# of Irrigation Fluid Samples/Year	6	6
	Cost/sample	\$121	\$121
	# of Vegetation Samples/Year	4	4
	Cost/sample	\$165	\$165
	# of Soil Samples/Year	28	32
	Cost/sample	\$174	\$174
	# of Soil Water Samples/Year	12	2
	Cost/sample	\$121	\$121
	Total Number of Years	5	5
	Subtotal Sampling Costs	\$38,550	\$35,980
	Subtotal Maintenance and Monitoring Costs per Irrigator	\$58,560	\$55,990
	Total Irrigation Maintenance and Monitoring Costs	\$114,550	
X.	Capital Costs (RO Purchase)		
	Purchase/Installation Costs for 500 gpm RO Capacity	\$500,000	
	Total Capital Costs	\$500,000	
XI.	Vehicle Operation Costs		
	Number of Pickup Trucks/Pulling Units (Gas)	10	
	Unit Cost in \$/hr (WDEQ Guideline No.12, Table D-1)	\$10.13	
	Unit Cost in \$/hr (July 1998 dollars w/o escalator)	\$8.80	
	Average Operating Time (Hrs/Year)	1000	
	Total Number of Years (Average)	5	
	Total Vehicle Operation Costs	\$440,052	
XII.	Labor Costs		
	Number of Environmental Managers/RSOs	1	
	\$/Year	\$60,000	
	Number of Restoration Managers	1	
	\$/Year	\$50,000	
	Number of Environmental Technicians	2	
	\$/Year	\$28,000	
	Number of Operators/Laborers	7	
	\$/Year	\$28,000	
	Number of Maintenance Technicians	2	
	\$/Year	\$28,000	
	Number of Years	5	
	Total Labor Costs	\$2,090,000	
XIII.	Capital Costs		
	Purchase RO Units (2X800 gpm Units)	\$120,000	
	Total Labor Costs	\$120,000	
	<b>TOTAL GROUND WATER RESTORATION COSTS</b>	<b>\$10,504,422</b>	

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Equipment Removal and Loading		Central Plant	Satellite No.1	Satellite No.2	Satellite No.3
<b>I. Removal and Loading Costs</b>					
<b>A. Tankage</b>					
	Number of Tanks	26	8	14	18
	Volume of Tank Construction Material (ft <sup>3</sup> )	1028	162	290	397
<b>1. Labor</b>					
	Number of Persons	3	3	3	3
	Ft <sup>3</sup> /Day	25	25	25	25
	Number of Days	41	6	12	16
	\$/Day/Person	\$112	\$112	\$112	\$112
	Subtotal Labor Costs	\$13,776	\$2,016	\$4,032	\$5,376
<b>2. Equipment</b>					
	Number of Days	41	6	12	16
	\$/Day	\$338	\$338	\$338	\$338
	Subtotal Equipment Costs	\$13,858	\$2,028	\$4,056	\$5,408
	Subtotal Tankage Removal and Loading Costs	\$27,634	\$4,044	\$8,088	\$10,784
<b>B. PVC Pipe</b>					
	PVC Pipe Footage	5000	1000	4000	4000
	Average PVC Pipe Diameter (inches)	3	3	3	3
	Shredded PVC Pipe Volume Reduction (ft <sup>3</sup> /ft)	0.016	0.016	0.016	0.016
	Volume of Shredded PVC Pipe (ft <sup>3</sup> )	80	16	64	64
<b>1. Labor</b>					
	Number of Persons	2	2	2	2
	Ft/Day	200	200	200	200
	Number of Days	25	5	20	20
	\$/Day/Person	\$112	\$112	\$112	\$112
	Subtotal Labor Costs	\$5,600	\$1,120	\$4,480	\$4,480
	Subtotal PVC Pipe Removal and Loading Costs	\$5,600	\$1,120	\$4,480	\$4,480
<b>C. Pumps</b>					
	Number of Pumps	50	10	14	13
	Average Volume (ft <sup>3</sup> /pump)	4.93	4.93	4.93	4.93
	Volume of Pumps (ft <sup>3</sup> )	246.5	49.3	69.02	64.09
<b>1. Labor</b>					
	Number of Persons	1	1	1	1
	Pumps/Day	2	2	2	2
	Number of Days	25	5	7	7
	\$/Day/Person	\$112	\$112	\$112	\$112
	Subtotal Labor Costs	\$2,800	\$560	\$784	\$784
	Subtotal Pump Removal and Loading Costs	\$2,800	\$560	\$784	\$784
<b>D. Dryer</b>					
	Dryer Volume (ft <sup>3</sup> )	885	0	0	0
<b>1. Labor</b>					
	Number of Persons	5	0	0	0
	Ft <sup>3</sup> /Day	175	0	0	0
	Number of Days	5	0	0	0
	\$/Day/Person	\$112	\$112	\$112	\$112
	Total Labor Cost	\$2,800	\$0	\$0	\$0
	Total Dryer Dismantling and Loading Cost	\$2,800	\$0	\$0	\$0
<b>E. RO Units</b>					



POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Equipment Removal and Loading		Central Plant	Satellite No.1	Satellite No.2	Satellite No.3
Number of RO Units					
	Current	0	3	0	0
	Planned	0	0	1	1
Average Volume (ft <sup>3</sup> /RO Unit)		250	250	250	250
<b>I. Labor</b>					
	Number of Persons	2	2	2	2
	Number of Days	0	1.5	0.5	0.5
	\$/Day/Person	\$112	\$112	\$112	\$112
	Subtotal Labor Costs	\$0	\$336	\$112	\$112
Subtotal RO Unit Removal and Loading Costs		\$0	\$336	\$112	\$112
Subtotal Equipment Removal and Loading Costs per Facility		\$38,834	\$6,060	\$13,464	\$16,160
<b>Total Equipment Removal and Loading Costs</b>		<b>\$74,518</b>			
<b>II. Transportation and Disposal Costs (NRC-Licensed Facility)</b>					
<b>A. Tankage</b>					
	Volume of Tank Construction Material (ft <sup>3</sup> )	1028	162	290	397
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	1131	178	319	436
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal Tankage Transportation and Disposal Costs	\$6,356	\$1,000	\$1,793	\$2,450
<b>B. PVC Pipe</b>					
	Volume of Shredded PVC Pipe (ft <sup>3</sup> )	80	16	64	64
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	88	18	70	70
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal PVC Pipe Transportation and Disposal Costs	\$495	\$101	\$393	\$393
<b>C. Pumps</b>					
	Volume of Pumps (ft <sup>3</sup> )	246.5	49.3	69.02	64.09
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	271	54	76	70
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal Pump Transportation and Disposal Costs	\$1,523	\$303	\$427	\$393
<b>D. Dryer</b>					
	Dryer Volume (ft <sup>3</sup> )	885	0	0	0
	Volume for Disposal Assuming Dryer Remains Intact (ft <sup>3</sup> )	885	0	0	0
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$5.62
	Total Dryer Transportation and Disposal Costs	\$4,974	\$0	\$0	\$0
<b>E. RO Units</b>					
	Volume of RO Units (ft <sup>3</sup> )	0	750	250	250
	Volume for Disposal Assuming 50% Volume Reduction (ft <sup>3</sup> )	0	375	125	125
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal RO Unit Transportation and Disposal Costs	\$0	\$2,108	\$703	\$703
Subtotal Equipment Transportation and Disposal Costs per Facility		\$13,348	\$3,512	\$3,316	\$3,939
<b>Total Equipment Transportation and Disposal Costs</b>		<b>\$24,115</b>			
<b>III. Health and Safety Costs</b>					
	Radiation Safety Equipment	\$1,250	\$1,250	\$1,250	\$1,250
<b>Total Health and Safety Costs</b>		<b>\$5,000</b>			
<b>SUBTOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS PER FACILITY</b>		<b>\$53,432</b>	<b>\$10,822</b>	<b>\$18,030</b>	<b>\$21,349</b>
<b>TOTAL EQUIPMENT REMOVAL AND DISPOSAL COSTS</b>		<b>\$103,633</b>			

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

		Central Plant	Dryer Building	Satellite No. 1	Satellite No. 2	Satellite No. 3	Sat. No.3 Fab. Shop	Yellow Cake Warehouse	South Warehouse	Suspended Walkway
<b>Building Demolition and Disposal</b>										
<b>I. Decontamination Costs</b>										
<b>A. Wall Decontamination</b>										
	Area to be Decontaminated (ft <sup>2</sup> )	131000	0	0	0	0	0	0	0	0
	Application Rate (Gallons/ft <sup>2</sup> )	1	1	1	1	1	1	1	1	1
	HCl Acid Wash, including labor (\$/Gallon)	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Wall Decontamination Costs	\$65,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>B. Concrete Floor Decontamination</b>										
	Area to be Decontaminated (ft <sup>2</sup> )	17820	0	6000	9600	9600	0	0	0	0
	Application Rate (Gallons/ft <sup>2</sup> )	4	4	4	4	4	4	4	4	4
	HCl Acid Wash, including labor (\$/Gallon)	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Concrete Floor Decontamination Costs	\$35,640	\$0	\$12,000	\$19,200	\$19,200	\$0	\$0	\$0	\$0
<b>C. Deep Well Injection Costs</b>										
	Total Kgals for Injection	202.28	0	24	38.4	38.4	0	0	0	0
	Deep Well Injection Unit Cost (\$/Kgals)	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60
	Subtotal Deep Well Injection Costs	\$931	\$0	\$110	\$177	\$177	\$0	\$0	\$0	\$0
	Subtotal Decontamination Costs per Building	\$102,071	\$0	\$12,110	\$19,377	\$19,377	\$0	\$0	\$0	\$0
	<b>Total Decontamination Costs</b>	<b>\$158,021</b>								
<b>II. Demolition Costs</b>										
<b>A. Building</b>										
	Assumptions:									
	Dryer bldg. demolition unit cost of \$0.73/ft <sup>2</sup> for additional radiation safety equipment									
	Volume of Building (ft <sup>3</sup> )	794000	30720	192000	320000	320000	37560	91000	333000	5600
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171
	Unit Cost in \$/ft <sup>3</sup> (July 1998 dollars w/o escalator)	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15
	Subtotal Building Demolition Costs	\$117,962	\$4,564	\$28,525	\$47,541	\$47,541	\$5,580	\$13,520	\$49,473	\$832
<b>B. Concrete Floor</b>										
	Area of Concrete Floor (ft <sup>2</sup> )	23760	0	8000	12800	12800	0	6500	18000	0
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>2</sup> )	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17
	Unit Cost in \$/ft <sup>2</sup> (July 1998 dollars w/o escalator)	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75
	Subtotal Concrete Floor Demolition Costs	\$65,438	\$0	\$22,033	\$35,253	\$35,253	\$0	\$17,902	\$49,574	\$0
<b>C. Concrete Footing</b>										
	Length of Concrete Footing (ft)	622	0	360	480	480	0	360	580	0
	Demolition Unit Cost per WDEQ Guide. No.12,App.K (\$/lin. ft)	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45
	Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95
	Subtotal Concrete Footing Demolition Costs	\$6,188	\$0	\$3,581	\$4,775	\$4,775	\$0	\$3,581	\$5,770	\$0
	Subtotal Demolition Costs per Building	\$189,588	\$4,564	\$54,139	\$87,569	\$87,569	\$5,580	\$35,003	\$104,817	\$832
	<b>Total Demolition Costs</b>	<b>\$696,995</b>								
<b>III. Disposal Costs</b>										
<b>A. Building</b>										
	Volume of Building (cy)	29407	1138	7111	11852	11852	1391	3370	12333	207
<b>1. On-Site</b>										
	Assumptions:									
	On-site disposal cost of \$0.54/cy									
	Percentage (%)	100	0	100	100	100	100	100	100	100
	Volume for Disposal (cubic yards)	29407	0	7111	11852	11852	1391	3370	12333	207
	Disposal Unit Cost (\$/cy)	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

		Central Plant	Dryer Building	Satellite No. 1	Satellite No. 2	Satellite No. 3	Sat. No.3 Fab. Shop	Yellow Cake Warehouse	South Warehouse	Suspended Walkway
<b>Building Demolition and Disposal</b>										
	Subtotal On-Site Disposal Costs	\$15,880	\$0	\$3,840	\$6,400	\$6,400	\$751	\$1,820	\$6,660	\$112
2.	<b>NRC-Licensed Facility</b>									
	Percentage (%)	0	100	0	0	0	0	0	0	0
	Volume for Disposal (ft <sup>3</sup> )	0	2624	0	0	0	0	0	0	0
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	0	2886	0	0	0	0	0	0	0
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$16,219	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Building Disposal Costs	\$15,880	\$16,219	\$3,840	\$6,400	\$6,400	\$751	\$1,820	\$6,660	\$112
B.	<b>Concrete Floor</b>									
	Area of Concrete Floor (ft <sup>2</sup> )	23760	0	8000	12800	12800	0	6500	18000	0
	Average Thickness of Concrete Floor (ft)	0.75	0	0.67	0.67	0.67	0	0.5	0.5	0
	Volume of Concrete Floor (ft <sup>3</sup> )	17820	0	5360	8576	8576	0	3250	9000	0
	Volume of Concrete Floor (cy)	660	0	199	318	318	0	120	333	0
1.	<b>On-Site</b>									
	Percentage (%)	75	0	75	75	75	0	100	100	0
	Volume for Disposal (cy)	495	0	149	238	238	0	120	333	0
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07
	Subtotal On-Site Disposal Costs	\$2,017	\$0	\$607	\$971	\$971	\$0	\$490	\$1,358	\$0
2.	<b>NRC-Licensed Facility</b>									
	Assumptions:									
	Additional \$2.00/ft <sup>3</sup> for segregation of concrete									
	Percentage (%)	25	0	25	25	25	0	0	0	0
	Volume for Disposal (ft <sup>3</sup> )	4455	0	1340	2144	2144	0	0	0	0
	Segregation and Loading Unit Cost (\$/ft <sup>3</sup> )	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal NRC-Licensed Facility Disposal Costs	\$33,947	\$0	\$10,211	\$16,337	\$16,337	\$0	\$0	\$0	\$0
	Subtotal Concrete Floor Disposal Costs	\$35,964	\$0	\$10,818	\$17,308	\$17,308	\$0	\$490	\$1,358	\$0
C.	<b>Concrete Footing</b>									
	Length of Concrete Footing (ft)	622	0	360	480	480	0	360	580	0
	Average Depth of Concrete Footing (ft)	4	4	4	4	4	4	4	4	0
	Average Width of Concrete Footing (ft)	1	1	1	1	1	1	1	1	0
	Volume of Concrete Footing (ft <sup>3</sup> )	2488	0	1440	1920	1920	0	1440	2320	0
	Volume of Concrete Footing (cy)	92	0	53	71	71	0	53	86	0
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07
	Subtotal Concrete Footing Disposal Costs	\$375	\$0	\$217	\$290	\$290	\$0	\$217	\$350	\$0
	Subtotal Disposal Costs per Building	\$52,219	\$16,219	\$14,875	\$23,998	\$23,998	\$751	\$2,527	\$8,368	\$112
	<b>Total Disposal Costs</b>	<b>\$151,976</b>								
III.	<b>Health and Safety Costs</b>									
	Radiation Safety Equipment	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$0
	<b>Total Health and Safety Costs</b>	<b>\$5,000</b>								
<b>SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS</b>		<b>\$344,878</b>	<b>\$21,783</b>	<b>\$82,124</b>	<b>\$131,944</b>	<b>\$131,944</b>	<b>\$6,331</b>	<b>\$37,530</b>	<b>\$113,185</b>	<b>\$944</b>
<b>TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS</b>		<b>\$1,011,992</b>								

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Building Demolition and Disposal			Changehouse and Lab Bldg.	Maintenance Building	Main Office	Office Trailers	Process/Fire Water Bldg.	Potable Water Bldg.	Potable Water Tank Slab	Central Plant Tank Slabs
<b>I. Decontamination Costs</b>										
<b>A. Wall Decontamination</b>										
	Area to be Decontaminated (ft <sup>2</sup> )		0	0	0	0	0	0	0	0
	Application Rate (Gallons/ft <sup>2</sup> )		1	1	1	1	1	1	1	1
	HCl Acid Wash, including labor (\$/Gallon)		\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Wall Decontamination Costs		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>B. Concrete Floor Decontamination</b>										
	Area to be Decontaminated (ft <sup>2</sup> )		0	0	0	0	0	0	0	0
	Application Rate (Gallons/ft <sup>2</sup> )		4	4	4	4	4	4	4	4
	HCl Acid Wash, including labor (\$/Gallon)		\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Concrete Floor Decontamination Costs		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>C. Deep Well Injection Costs</b>										
	Total Kgals for Injection		0	0	0	0	0	0	0	0
	Deep Well Injection Unit Cost (\$/Kgals)		\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60	\$4.60
	Subtotal Deep Well Injection Costs		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Decontamination Costs per Building		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Total Decontamination Costs</b>									
<b>II. Demolition Costs</b>										
<b>A. Building</b>										
	Assumptions:									
	Dryer bldg. demolition unit cost of \$0.73/ft <sup>2</sup> for additional radiation safety equipment									
	Volume of Building (ft <sup>3</sup> )		73000	27000	72000	20000	16500	6300	0	0
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )		\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171
	Unit Cost in \$/ft <sup>3</sup> (July 1998 dollars w/o escalator)		\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15
	Subtotal Building Demolition Costs		\$10,845	\$4,011	\$10,697	\$2,971	\$2,451	\$936	\$0	\$0
<b>B. Concrete Floor</b>										
	Area of Concrete Floor (ft <sup>2</sup> )		5400	2100	6000	0	800	180	1256	7854
	Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>2</sup> )		\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17	\$3.17
	Unit Cost in \$/ft <sup>2</sup> (July 1998 dollars w/o escalator)		\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75	\$2.75
	Subtotal Concrete Floor Demolition Costs		\$14,872	\$5,784	\$16,525	\$0	\$2,203	\$496	\$3,459	\$21,631
<b>C. Concrete Footing</b>										
	Length of Concrete Footing (ft)		300	200	340	0	120	54	0	0
	Demolition Unit Cost per WDEQ Guide. No.12,App.K (\$/lin. ft)		\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45	\$11.45
	Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)		\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95
	Subtotal Concrete Footing Demolition Costs		\$2,984	\$1,990	\$3,382	\$0	\$1,194	\$537	\$0	\$0
	Subtotal Demolition Costs per Building		\$28,701	\$11,785	\$30,604	\$2,971	\$5,848	\$1,969	\$3,459	\$21,631
	<b>Total Demolition Costs</b>									
<b>III. Disposal Costs</b>										
<b>A. Building</b>										
	Volume of Building (cy)		2704	1000	2667	741	611	233	0	0
	<b>1. On-Site</b>									
	Assumptions:									
	On-site disposal cost of \$0.54/cy									
	Percentage (%)		100	100	100	100	100	100	0	0
	Volume for Disposal (cubic yards)		2704	1000	2667	741	611	233	0	0
	Disposal Unit Cost (\$/cy)		\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54	\$0.54

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

			Changehouse and Lab Bldg.	Maintenance Building	Main Office	Office Trailers	Process/Fire Water Bldg.	Potable Water Bldg.	Potable Water Tank Slab	Central Plant Tank Slabs
<b>Building Demolition and Disposal</b>										
	Subtotal On-Site Disposal Costs		\$1,460	\$540	\$1,440	\$400	\$330	\$126	\$0	\$0
	<b>2. NRC-Licensed Facility</b>									
	Percentage (%)		0	0	0	0	0	0	0	0
	Volume for Disposal (ft <sup>3</sup> )		0	0	0	0	0	0	0	0
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		0	0	0	0	0	0	0	0
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal NRC-Licensed Facility Disposal Costs		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Building Disposal Costs		\$1,460	\$540	\$1,440	\$400	\$330	\$126	\$0	\$0
	<b>B. Concrete Floor</b>									
	Area of Concrete Floor (ft <sup>2</sup> )		5400	2100	6000	0	800	180	1256	7854
	Average Thickness of Concrete Floor (ft)		0.5	0.5	0.5	0	0.5	0.5	1	1
	Volume of Concrete Floor (ft <sup>3</sup> )		2700	1050	3000	0	400	90	1256	7854
	Volume of Concrete Floor (cy)		100	39	111	0	15	3	47	291
	<b>1. On-Site</b>									
	Percentage (%)		100	100	100	0	100	100	100	100
	Volume for Disposal (cy)		100	39	111	0	15	3	47	291
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07
	Subtotal On-Site Disposal Costs		\$407	\$158	\$453	\$0	\$60	\$14	\$190	\$1,185
	<b>2. NRC-Licensed Facility</b>									
	Assumptions:									
	Additional \$2.00/ft <sup>3</sup> for segregation of concrete									
	Percentage (%)		0	0	0	0	0	0	0	0
	Volume for Disposal (ft <sup>3</sup> )		0	0	0	0	0	0	0	0
	Segregation and Loading Unit Cost (\$/ft <sup>3</sup> )		\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal NRC-Licensed Facility Disposal Costs		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal Concrete Floor Disposal Costs		\$407	\$158	\$453	\$0	\$60	\$14	\$190	\$1,185
	<b>C. Concrete Footing</b>									
	Length of Concrete Footing (ft)		300	200	340	0	120	54	0	0
	Average Depth of Concrete Footing (ft)		4	4	4	0	4	4	4	4
	Average Width of Concrete Footing (ft)		1	1	1	0	1	1	1	1
	Volume of Concrete Footing (ft <sup>3</sup> )		1200	800	1360	0	480	216	0	0
	Volume of Concrete Footing (cy)		44	30	50	0	18	8	0	0
	Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69	\$4.69
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07	\$4.07
	Subtotal Concrete Footing Disposal Costs		\$181	\$121	\$205	\$0	\$72	\$33	\$0	\$0
	Subtotal Disposal Costs per Building		\$2,048	\$819	\$2,098	\$400	\$462	\$173	\$190	\$1,185
	<b>Total Disposal Costs</b>									
	<b>III. Health and Safety Costs</b>									
	Radiation Safety Equipment		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Total Health and Safety Costs</b>									
	<b>SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS</b>		\$30,749	\$12,604	\$32,702	\$3,371	\$6,310	\$2,142	\$3,649	\$22,816
	<b>TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS</b>									

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Building Demolition and Disposal				Exxon R&D RO Bldg.	Exxon R&D Process Bldg.	D, E-Wellfield Booster Stat.	Morton No. 1-20 Bldg.
<b>I. Decontamination Costs</b>							
<b>A. Wall Decontamination</b>							
	Area to be Decontaminated (ft <sup>2</sup> )			0	0	0	0
	Application Rate (Gallons/ft <sup>2</sup> )			1	1	1	1
	HCl Acid Wash, including labor (\$/Gallon)			\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Wall Decontamination Costs			\$0	\$0	\$0	\$0
<b>B. Concrete Floor Decontamination</b>							
	Area to be Decontaminated (ft <sup>2</sup> )			1260	1260	0	0
	Application Rate (Gallons/ft <sup>2</sup> )			4	4	4	4
	HCl Acid Wash, including labor (\$/Gallon)			\$0.50	\$0.50	\$0.50	\$0.50
	Subtotal Concrete Floor Decontamination Costs			\$2,520	\$2,520	\$0	\$0
<b>C. Deep Well Injection Costs</b>							
	Total Kgals for Injection			5.04	5.04	0	0
	Deep Well Injection Unit Cost (\$/Kgals)			\$4.60	\$4.60	\$4.60	\$4.60
	Subtotal Deep Well Injection Costs			\$23	\$23	\$0	\$0
	Subtotal Decontamination Costs per Building			\$2,543	\$2,543	\$0	\$0
	<b>Total Decontamination Costs</b>						
<b>II. Demolition Costs</b>							
<b>A. Building</b>							
	Assumptions:						
	Dryer bldg. demolition unit cost of \$0.73/ft <sup>3</sup> for additional radiation safety equipment						
	Volume of Building (ft <sup>3</sup> )			15120	15120	8640	14400
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft <sup>3</sup> )			\$0.171	\$0.171	\$0.171	\$0.171
	Unit Cost in \$/ft <sup>3</sup> (July 1998 dollars w/o escalator)			\$0.15	\$0.15	\$0.15	\$0.15
	Subtotal Building Demolition Costs			\$2,246	\$2,246	\$1,284	\$2,139
<b>B. Concrete Floor</b>							
	Area of Concrete Floor (ft <sup>2</sup> )			1260	1260	0	600
	Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft <sup>2</sup> )			\$3.17	\$3.17	\$3.17	\$3.17
	Unit Cost in \$/ft <sup>2</sup> (July 1998 dollars w/o escalator)			\$2.75	\$2.75	\$2.75	\$2.75
	Subtotal Concrete Floor Demolition Costs			\$3,470	\$3,470	\$0	\$1,652
<b>C. Concrete Footing</b>							
	Length of Concrete Footing (ft)			144	144	0	100
	Demolition Unit Cost per WDEQ Guide. No.12, App.K (\$/lin. ft)			\$11.45	\$11.45	\$11.45	\$11.45
	Unit Cost in \$/lin. ft (July 1998 dollars w/o escalator)			\$9.95	\$9.95	\$9.95	\$9.95
	Subtotal Concrete Footing Demolition Costs			\$1,432	\$1,432	\$0	\$995
	Subtotal Demolition Costs per Building			\$7,148	\$7,148	\$1,284	\$4,786
	<b>Total Demolition Costs</b>						
<b>III. Disposal Costs</b>							
<b>A. Building</b>							
	Volume of Building (cy)			560	560	320	533
<b>I. On-Site</b>							
	Assumptions:						
	On-site disposal cost of \$0.54/cy						
	Percentage (%)			100	100	100	100
	Volume for Disposal (cubic yards)			560	560	320	533
	Disposal Unit Cost (\$/cy)			\$0.54	\$0.54	\$0.54	\$0.54

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

		Exxon R&D RO Bldg.	Exxon R&D Process Bldg.	D, E-Wellfield Booster Stat.	Morton No. 1-20 Bldg.
<b>Building Demolition and Disposal</b>					
	Subtotal On-Site Disposal Costs	\$302	\$302	\$173	\$288
2.	NRC-Licensed Facility				
	Percentage (%)	0	0	0	0
	Volume for Disposal (ft <sup>3</sup> )	0	0	0	0
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )	0	0	0	0
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$0	\$0	\$0
	Subtotal Building Disposal Costs	\$302	\$302	\$173	\$288
B.	Concrete Floor				
	Area of Concrete Floor (ft <sup>2</sup> )	1260	1260	0	600
	Average Thickness of Concrete Floor (ft)	0.5	0.5	0	0.5
	Volume of Concrete Floor (ft <sup>3</sup> )	630	630	0	300
	Volume of Concrete Floor (cy)	23	23	0	11
1.	On-Site				
	Percentage (%)	100	100	0	100
	Volume for Disposal (cy)	23	23	0	11
	Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)	\$4.69	\$4.69	\$4.69	\$4.69
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$4.07	\$4.07	\$4.07	\$4.07
	Subtotal On-Site Disposal Costs	\$95	\$95	\$0	\$45
2.	NRC-Licensed Facility				
	Assumptions:				
	Additional \$2.00/ft <sup>3</sup> for segregation of concrete				
	Percentage (%)	0	0	0	0
	Volume for Disposal (ft <sup>3</sup> )	0	0	0	0
	Segregation and Loading Unit Cost (\$/ft <sup>3</sup> )	\$2.00	\$2.00	\$2.00	\$2.00
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal NRC-Licensed Facility Disposal Costs	\$0	\$0	\$0	\$0
	Subtotal Concrete Floor Disposal Costs	\$95	\$95	\$0	\$45
C.	Concrete Footing				
	Length of Concrete Footing (ft)	144	144	0	100
	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 <sup>3</sup> )	576	576	0	400
	Volume of Concrete Footing (cy)	21	21	0	15
	Disposal Unit Cost per WDEQ Guideline No.12, App.K (\$/cy)	\$4.69	\$4.69	\$4.69	\$4.69
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$4.07	\$4.07	\$4.07	\$4.07
	Subtotal Concrete Footing Disposal Costs	\$87	\$87	\$0	\$60
	Subtotal Disposal Costs per Building	\$484	\$484	\$173	\$393
	<b>Total Disposal Costs</b>				
III.	Health and Safety Costs				
	Radiation Safety Equipment	\$0	\$0	\$0	\$0
	<b>Total Health and Safety Costs</b>				
<b>SUBTOTAL BUILDING DEMOLITION AND DISPOSAL COSTS</b>		<b>\$10,175</b>	<b>\$10,175</b>	<b>\$1,457</b>	<b>\$5,179</b>
<b>TOTAL BUILDING DEMOLITION AND DISPOSAL COSTS</b>					

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Wellfield Buildings and Equipment Removal and Disposal			Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-G	Mine Unit-H	Mine Unit-I	Mine Unit-J	Mine Unit-K	Mine Unit-L
<b>I. Wellfield Piping</b>														
Assumptions:														
	Number of Header Houses per Wellfield		5	18	20	4	15	43	10	3	6	7	2	
	Length of Piping per Header House (ft)		15000	15000	15000	15000	15000	15000	15000	15000	15000	12500	15000	
	Total Length of Piping (ft)		75000	270000	300000	60000	225000	645000	150000	45000	90000	87500	30000	
<b>A. Removal and Loading</b>														
	Wellfield Piping Removal Unit Cost (\$/ft of pipe)		\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31	\$0.31
	Subtotal Wellfield Piping Removal and Loading Costs		\$23,250	\$83,700	\$93,000	\$18,600	\$69,750	\$199,950	\$46,500	\$13,950	\$27,900	\$27,125	\$9,300	
<b>B. Transport and Disposal Costs (NRC-Licensed Facility)</b>														
	Average Diameter of Piping (inches)		2	2	2	2	2	2	2	2	2	2	2	2
	Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	Chipped Volume per Wellfield (ft <sup>3</sup> )		375	1350	1500	300	1125	3225	750	225	450	437.5	150	
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		413	1485	1650	330	1238	3548	825	248	495	481	165	
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal Wellfield Piping Transport and Disposal Costs		\$2,321	\$8,346	\$9,273	\$1,855	\$6,958	\$19,940	\$4,637	\$1,394	\$2,782	\$2,703	\$927	
	Wellfield Piping Costs per Wellfield		\$25,571	\$92,046	\$102,273	\$20,455	\$76,708	\$219,890	\$51,137	\$15,344	\$30,682	\$29,828	\$10,227	
<b>C. Capital Costs</b>														
	PVC Pipe Shredder		\$40,000											
	Total Wellfield Piping Costs		\$714,161											
<b>II. Well Pumps and Tubing</b>														
Assumptions:														
Pump and tubing removal costs included under ground water restoration labor costs														
60% of production/injection wells contain pumps and/or tubing														
<b>A. Pump and Tubing Transportation and Disposal</b>														
	Number of Production Wells		27	141	192	45	143	465	155	30	125	122	40	
	Number of Injection Wells		50	319	343	91	307	903	327	67	236	234	80	
<b>1. Pump Volume</b>														
	Number of Production Wells with Pumps		16	85	115	27	86	279	93	18	75	73	24	
	Average Pump Volume (ft <sup>3</sup> )		1	1	1	1	1	1	1	1	1	1	1	
	Pump Volume per Wellfield (ft <sup>3</sup> )		16	85	115	27	86	279	93	18	75	73	24	
<b>2. Tubing Volume</b>														
Assumptions:														
Average tubing length/wellfield based on average well depth minus 25 ft														
	Number of Production Wells with Tubing		16	85	115	27	86	279	93	18	75	73	24	
	Number of Injection Wells with Tubing		30	191	206	55	184	542	196	40	142	140	48	
	Average Tubing Length per Well (ft)		475	425	525	575	525	625	475	575	625	515	515	
	Tubing Length per Wellfield (ft)		21850	117300	168525	47150	141750	513125	137275	33350	135625	109695	37080	
	Diameter of Production Well Fiberglass Tubing (inches)		2	2	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	1.25	1.25	
	Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
	Chipped Volume per Wellfield (ft <sup>3</sup> )		109	587	843	236	709	2566	686	167	678	548	185	
	Volume of Pump and Tubing (ft <sup>3</sup> )		125	672	958	263	795	2845	779	185	753	621	209	
	Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		138	739	1054	289	875	3130	857	204	828	683	230	
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
	Subtotal Pump and Tubing Transport and Disposal Costs		\$776	\$4,153	\$5,923	\$1,624	\$4,918	\$17,591	\$4,816	\$1,146	\$4,653	\$3,838	\$1,293	
	Pump and Tubing Costs per Wellfield		\$776	\$4,153	\$5,923	\$1,624	\$4,918	\$17,591	\$4,816	\$1,146	\$4,653	\$3,838	\$1,293	
	Total Pump and Tubing Costs		\$50,731											
<b>III. Buried Trunkline</b>														
Assumptions:														
			A/B-Wellfields			D/E-Wellfields								



POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Wellfield Buildings and Equipment Removal and Disposal		Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-II	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
A/B-Wellfields use the same trunkline												
D/E-Wellfields use the same trunkline												
Length of Trunkline Trench (ft)		6500		5900	12000		11700	13200	5500	10750	2500	0
A. Removal and Loading												
Main Pipeline Removal Unit Cost (\$/ft of trench)		\$0.85		\$0.85	\$0.85		\$0.85	\$0.85	\$0.85	\$0.85	\$0.85	\$0.85
Subtotal Trunkline Removal and Loading Costs		\$5,525		\$5,015	\$10,200		\$9,945	\$11,220	\$4,675	\$9,138	\$2,125	\$0
B. Transport and Disposal Costs (NRC-Licensed Facility)												
1. 3" HDPE Trunkline												
Piping Length (ft)		6500		5900	12000		11700	13200	5500	10750	2500	0
Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.022		0.022	0.022		0.022	0.022	0.022	0.022	0.022	0.022
Chipped Volume (ft <sup>3</sup> )		143		129.8	264		257.4	290.4	121	236.5	0	0
2. 6" HDPE Trunkline												
Piping Length (ft)		0		0	0		0	0	11000	3000	0	0
Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.078		0.078	0.078		0.078	0.078	0.078	0.078	0.078	0.078
Chipped Volume (ft <sup>3</sup> )		0		0	0		0	0	858	234	0	0
3. 10" HDPE Trunkline												
Piping Length (ft)		13000		0	0		0	0	0	750	2000	0
Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.277		0.277	0.277		0.277	0.277	0.277	0.277	0.277	0.277
Chipped Volume (ft <sup>3</sup> )		3601		0	0		0	0	0	207.75	554	0
4. 12" HDPE Trunkline												
Piping Length (ft)		0		11800	24000		0	0	0	0	2000	0
Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.293		0.293	0.293		0.293	0.293	0.293	0.293	0.293	0.293
Chipped Volume (ft <sup>3</sup> )		0		3457.4	7032		0	0	0	0	586	0
5. 14" HDPE Trunkline												
Piping Length (ft)		0		0	0		23400	26400	0	8500	0	0
Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.359		0.359	0.359		0.359	0.359	0.359	0.359	0.359	0.359
Chipped Volume (ft <sup>3</sup> )		0		0	0		8400.6	9477.6	0	3051.5	0	0
6. 18" HDPE Trunkline												
Piping Length (ft)		0	0	0	0	0	0	0	0	0	0	0
Chipped Volume Reduction (ft <sup>3</sup> /ft)		0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Chipped Volume (ft <sup>3</sup> )		0	0	0	0	0	0	0	0	0	0	0
Total Trunkline Chipped Volume (ft <sup>3</sup> )		3744	0	3587.2	7296		8658	9768	979	3729.75	1140	0
Volume for Disposal Assuming 10% Void Space (ft <sup>3</sup> )		4118		3946	8026		9524	10745	1077	4103	1254	0
Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )		\$5.62		\$5.62	\$5.62		\$5.62	\$5.62	\$5.62	\$5.62	\$5.62	\$5.62
Subtotal Trunkline Transport and Disposal Costs		\$23,143		\$22,177	\$45,106		\$53,525	\$60,387	\$6,053	\$23,059	\$7,047	\$0
Trunkline Decommissioning Costs per Wellfield		\$28,668		\$27,192	\$55,306		\$63,470	\$71,607	\$10,728	\$32,197	\$9,172	\$0
Total Trunkline Decommissioning Costs		\$298,340										
IV. Well Houses												
Total Quantity		90	490	554	136	450	1383	482	97	361	213	72
Average Well House Volume (ft <sup>3</sup> )		12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
A. Removal												
Total Volume (ft <sup>3</sup> )		1125	6125	6925	1700	5625	17287.5	6025	1212.5	4512.5	2662.5	900
Demolition Unit Cost per WDEQ Guideline No.12, App.K (\$/ft <sup>3</sup> )		\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171
Unit Cost in \$/ft <sup>3</sup> (July 1998 dollars w/o escalator)		\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15
Subtotal Well House Demolition Costs		\$167	\$910	\$1,029	\$253	\$836	\$2,568	\$895	\$180	\$670	\$396	\$134
B. Survey and Decontamination												
Assumptions:												
Cost per Well House		\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5	\$5
Subtotal Survey and Decontamination Costs		\$450	\$2,450	\$2,770	\$680	\$2,250	\$6,915	\$2,410	\$485	\$1,805	\$1,065	\$360
C. Disposal												

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Wellfield Buildings and Equipment Removal and Disposal		Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-I1	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
Total Volume (cy)		42	227	256	63	208	640	223	45	167	99	33
Volume for Disposal Assuming 10% Void Space (cy)		46	250	282	69	229	704	245	49	184	108	37
Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98
Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20
Subtotal On-Site Disposal Costs		\$239	\$1,299	\$1,465	\$358	\$1,190	\$3,658	\$1,273	\$255	\$956	\$561	\$192
Well House Removal and Disposal Costs per Wellfield		\$856	\$4,659	\$5,264	\$1,291	\$4,276	\$13,141	\$4,578	\$920	\$3,431	\$2,022	\$686
<b>Total Well House Removal and Disposal Costs</b>		<b>\$41,124</b>										
<b>VI. Header Houses</b>												
Total Quantity		5	18	20	4	15	43	10	3	6	9	2
Average Header House Volume (ft <sup>3</sup> )		1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
<b>A. Removal</b>												
Total Volume (ft <sup>3</sup> )		8000	28800	32000	6400	24000	68800	16000	4800	9600	14400	3200
Demolition Unit Cost per WDEQ Guideline No.12,App.K (\$/ft <sup>3</sup> )		\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171	\$0.171
Unit Cost in \$/ft <sup>3</sup> (July 1998 dollars w/o escalator)		\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15	\$0.15
Subtotal Building Demolition Costs		\$1,189	\$4,279	\$4,754	\$951	\$3,566	\$10,221	\$2,377	\$713	\$1,426	\$2,139	\$475
<b>B. Survey and Decontamination</b>												
Assumptions:												
Cost per Header House		\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200
Subtotal Survey and Decontamination Costs		\$1,000	\$3,600	\$4,000	\$800	\$3,000	\$8,600	\$2,000	\$600	\$1,200	\$1,800	\$400
<b>C. Disposal</b>												
Total Volume (cy)		296	1067	1185	237	889	2548	593	178	356	533	119
Volume for Disposal Assuming 10% Void Space (cy)		326	1173	1304	261	978	2803	652	196	391	587	130
Disposal Unit Cost per WDEQ Guideline No.12,App.K (\$/cy)		\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98	\$5.98
Unit Cost in \$/cy (July 1998 dollars w/o escalator)		\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20	\$5.20
Subtotal On-Site Disposal Costs		\$1,694	\$6,094	\$6,775	\$1,356	\$5,081	\$14,563	\$3,387	\$1,018	\$2,031	\$3,050	\$675
Header House Removal and Disposal Costs per Wellfield		\$3,883	\$13,973	\$15,529	\$3,107	\$11,647	\$33,384	\$7,764	\$2,331	\$4,657	\$6,989	\$1,550
<b>Total Header House Removal and Disposal Costs</b>		<b>\$104,814</b>										
<b>TOTAL REMOVAL AND DISPOSAL COSTS PER WELLFIELD</b>		<b>\$59,754</b>	<b>\$114,831</b>	<b>\$156,181</b>	<b>\$81,783</b>	<b>\$97,549</b>	<b>\$347,476</b>	<b>\$139,902</b>	<b>\$30,469</b>	<b>\$75,620</b>	<b>\$51,849</b>	<b>\$13,756</b>
<b>TOTAL WELLFIELD BUILDINGS AND EQUIPMENT REMOVAL AND DISPOSAL COSTS</b>		<b>\$1,209,170</b>										

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Well Abandonment		Mine Unit-A	Mine Unit-B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
<b>I.</b>	<b>Well Abandonment (Wellfields)</b>											
	# of Production Wells	0	141	192	45	143	465	155	30	125	120	40
	# of Injection Wells	0	319	343	91	307	903	327	67	236	240	80
	# of Monitoring Wells	0	67	78	38	86	134	81	20	39	41	10
	# of Restoration Wells	0	30	19	0	0	15	0	0	0	0	0
	Total Number of Wells	0	557	632	174	536	1517	563	117	400	401	130
	Average Diameter of Casing (inches)	5	5	5	5	5	5	5	5	5	5	4.5
	Average Depth (ft)	500	450	550	600	550	650	500	600	650	540	500
	Well Abandonment Unit Cost (\$/well)	\$280	\$277	\$284	\$287	\$284	\$290	\$280	\$287	\$290	\$284	\$284
	Subtotal Abandonment Cost per Wellfield	\$0	\$154,233	\$179,235	\$49,929	\$152,010	\$440,385	\$157,781	\$33,573	\$116,120	\$113,724	\$36,868
	<b>Total Wellfield Abandonment Costs</b>		<b>\$1,433,858</b>									
<b>II.</b>	<b>Waste Disposal Well Abandonment</b>	<b>Morton No.1-20</b>	<b>Vollman No.33-27</b>	<b>(Construction not anticipated)</b>								
<b>A.</b>	<b>Well Plugging</b>											
	Drill Rig Operation (\$/hr)	150	0									
	Number of Hours	31	0									
	Drill Rig Operating Costs	\$4,650	\$0									
	Cementing Costs	\$7,500	\$0									
	Equipment Transport Costs	\$1,000	\$0									
	Well Cap Welding Costs	\$1,000	\$0									
	Brine Makeup and Injection Costs	\$1,500	\$0									
	Subtotal Well Plugging Costs per Well	\$15,650	\$0									
<b>B.</b>	<b>Pump Dismantling and Decontamination</b>											
	Number of Persons	2	0									
	Number of Pumps	2	0									
	Pumps/Day	0.5	0									
	Number of Days	4	0									
	\$/Day/Person	\$112	\$0									
	Subtotal Dismantling and Decon Costs per Well	\$896	\$0									
<b>C.</b>	<b>Tubing String Disposal (NRC-Licensed Facility)</b>											
	Length of Tubing String (ft)	9000	0									
	Diameter of Tubing String (inches)	2.875	0									
	Volume of Tubing String (ft <sup>3</sup> )	406	0									
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )	\$5.62	\$0.00									
	Subtotal Tubing String Disposal Costs per Well	\$2,279	\$0									
	Subtotal Waste Disposal Well Abandonment Costs per Well	\$18,825	\$0									
	<b>Total Waste Disposal Well Abandonment Costs</b>		<b>\$18,825</b>									
	<b>TOTAL WELL ABANDONMENT COSTS</b>		<b>\$1,452,683</b>									

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Wellfield and Satellite Surface Reclamation		Mine Unit-A/B	Mine Unit-C	Mine Unit-D	Mine Unit-E	Mine Unit-F	Mine Unit-H	Mine Unit-D Ext.	Mine Unit-I	Mine Unit-J	Mine Unit-JA
<b>I.</b>	<b>Wellfield Pattern Area Reclamation</b>										
	Pattern Area (acres)	20	31	6.5	23	77	26	5	21	28	0
	Disking/Seeding Unit Cost (\$/acre)	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200
	Subtotal Pattern Area Reclamation Costs per Wellfield	\$4,000	\$6,200	\$1,300	\$4,600	\$15,400	\$5,200	\$1,000	\$4,200	\$5,600	\$0
	<b>Total Wellfield Pattern Area Reclamation Costs</b>	<b>\$47,500</b>									
<b>II.</b>	<b>Wellfield Road Reclamation</b>										
	<b>A. Road Construction Before January 1, 1997</b>										
	Length of Wellfield Roads (1000 ft)	12.2	11.3	2.4	13.3	15	0	0	0	0	0
	Wellfield Road Reclamation Unit Cost (\$/1000 ft)	\$586	\$586	\$586	\$586	\$586	\$586	\$586	\$586	\$586	\$586
	Subtotal Pre-1997 Wellfield Road Reclamation Costs	\$7,149	\$6,622	\$1,406	\$7,794	\$8,790	\$0	\$0	\$0	\$0	\$0
	<b>B. Road Construction After January 1, 1997</b>										
	Length of Wellfield Roads (1000 ft)	0.6	0	0	0	3	15.7	5	5	5	1
	Wellfield Road Reclamation Unit Cost (\$/1000 ft)	\$305	\$305	\$305	\$305	\$305	\$305	\$305	\$305	\$305	\$305
	Subtotal Post-1997 Wellfield Road Reclamation Costs	\$183	\$0	\$0	\$0	\$915	\$4,789	\$1,525	\$1,525	\$1,525	\$305
	Subtotal Road Reclamation Costs per Wellfield	\$7,332	\$6,622	\$1,406	\$7,794	\$9,705	\$4,789	\$1,525	\$1,525	\$1,525	\$305
	<b>Total Wellfield Road Reclamation Costs</b>	<b>\$42,528</b>									
	<b>SUBTOTAL SURFACE RECLAMATION COSTS PER WELLFIELD</b>	<b>\$11,332</b>	<b>\$12,822</b>	<b>\$2,706</b>	<b>\$12,394</b>	<b>\$25,105</b>	<b>\$9,989</b>	<b>\$2,525</b>	<b>\$5,725</b>	<b>\$7,125</b>	<b>\$305</b>
	<b>TOTAL WELLFIELD SURFACE RECLAMATION COSTS</b>	<b>\$90,028</b>									
<b>III.</b>	<b>Satellite Area Reclamation</b>										
	<b>Assumptions:</b>										
	Area of Disturbance (acres)	1	1	1							
	Average Depth of Stripped Topsoil (ft)	1	0.67	0.67							
	Surface Grade: Level Ground										
	Average Length of Topsoil Haul (ft)	1000	500	500							
	<b>A. Ripping Overburden with Dozer</b>										
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)	\$679.37	\$679.37	\$679.37							
	Unit Cost in \$/acre (July 1998 dollars w/o escalator)	\$590.24	\$590.24	\$590.24							
	Subtotal Ripping Costs	\$590	\$590	\$590							
	<b>B. Topsoil Application with Scraper</b>										
	Volume of Topsoil Removed (cy)	1613	1081	1081							
	Application Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)	\$0.71	\$0.60	\$0.60							
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.62	\$0.52	\$0.52							
	Subtotal Topsoil Application Costs	\$995	\$563	\$563							
	<b>C. Discing and Seeding</b>										
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200	\$200							
	Subtotal Discing/Seeding Costs	\$200	\$200	\$200							
	Subtotal Surface Reclamation Costs per Satellite	\$1,785	\$1,353	\$1,353							
	<b>Total Satellite Building Area Reclamation Costs</b>	<b>\$4,491</b>									
	<b>TOTAL WELLFIELD AND SATELLITE SURFACE RECLAMATION COSTS</b>	<b>\$94,519</b>									

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Miscellaneous Reclamation				
<b>I. CPF/Office Area Reclamation</b>				
Assumptions				
Concrete, asphalt, and building material used to backfill low areas				
No topsoil salvaged or applied (area is pre-law)				
CPF/Office area = 10 acres				
<b>A. Ripping and Hauling Asphalt</b>				
Assumptions				
Average haul distance (ft)				500
Surface grade (%)				0%
Average Thickness of Asphalt (ft)				0.5
Surface Area (acres)				3.4
Ripping Unit Cost per WDEQ Guideline No.12, App.I (\$/acre)				\$474.92
Volume of Asphalt (cy)				2743
Hauling Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)				\$0.60
Total Asphalt Ripping and Hauling Cost				\$3,260
<b>B. Borrow Cover</b>				
<b>1. Topsoil Removal/Replacement</b>				
Assumptions				
Surface area of borrow area (acres)				3
Six inches of topsoil removed and replaced at borrow area				
Volume of topsoil (cy)				2420
Topsoil Removal/Replacement Unit Cost (\$/cy)				\$1.00
Total Topsoil Removal/Replacement Cost				\$2,420
<b>2. Borrow Application</b>				
Assumptions				
Final borrow cover depth will range from 0 to 4 ft, average = 1 ft				
Average haul distance = 1000 ft				
Surface grade (%)				0%
Borrow Volume (cy)				16133
Borrow Cover Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)				\$0.70
Total Borrow Application Cost				\$11,293
Total Borrow Cover Cost				\$13,713
<b>C. Discing/Seeding</b>				
Assumptions				
Includes discing/seeding of borrow area (3 acres)				
Surface Area (acres)				13
Discing/Seeding Unit Cost (\$/acre)				\$200
Total Discing/Seeding Costs				\$2,600
Total CPF/Office Area Reclamation				\$19,573
<b>II. Access Road Reclamation</b>				
CPF/Office Area				
Sat No. 1				
Sat No. 3				
Connecting Road				
<b>A. Assumptions</b>				
CPF/Office Area Road is pre-law (no topsoil applied)				
Surface grade				5%
				0%
				0%
Length of road (miles)				2.5
				3
				1
				2
Average road width (ft)				25
				30
				30
				30
<b>B. Ripping and Hauling Asphalt</b>				
Assumptions				
Average haul distance (miles)				1.25
				0
				0
Average Thickness of Asphalt (ft)				0.5
				0
				0
Asphalt Surface Area (acres)				7.6
				0.0
				0.0
Ripping Unit Cost per WDEQ Guideline No.12, App.I (\$/acre)				\$474.92
				\$474.92
				\$474.92
Unit Cost in \$/acre (July 1998 dollars w/o escalator)				\$412.62
				\$412.62
				\$412.62
Volume of Asphalt (cy)				6111
				0
				0
Hauling Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)				\$1.91
				\$1.91
				\$1.91
Unit Cost in \$/cy (July 1998 dollars w/o escalator)				\$1.66
				\$1.66
				\$1.66
Subtotal Asphalt Ripping and Hauling Costs				\$13,267
				\$0
				\$0
				\$0
<b>B. Gravel Road Base Removal</b>				
Assumptions				
Average haul distance (ft)				0
				1000
				1000
Gravel Road Base Width (ft)				0
				14
				14
Gravel Road Base Area (acres)				0.0
				5.1
				1.7
Average Road Base Depth (ft)				0
				0.5
				0.5
Volume of Road Base (cy)				0
				4107
				1369
				2738
Removal Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)				\$0.00
				\$0.71
				\$0.71
				\$0.71

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Miscellaneous Reclamation							
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)			\$0.00	\$0.62	\$0.62	\$0.62
	Subtotal Gravel Road Base Removal Costs			\$0	\$2,533	\$844	\$1,689
C.	Ripping Overburden with Dozer						
	Overburden Surface Area (acres)			0.0	10.9	3.6	7.3
	Ripping Unit Cost per WDEQ Guideline No.12, App.11 (\$/acre)			\$663.93	\$663.93	\$663.93	\$663.93
	Unit Cost in \$/acre (July 1998 dollars w/o escalator)			\$576.83	\$576.83	\$576.83	\$576.83
	Subtotal Ripping Overburden Costs			\$0	\$6,293	\$2,098	\$4,195
D.	Topsoil Application						
	Assumptions						
	Average haul distance (ft)			0	5000	1500	1500
	Topsoil Surface Area (ft <sup>2</sup> )			0	475200	158400	316800
	Depth of Topsoil (ft)			0	0.5	0.5	0.5
	Volume of Topsoil (cy)			0	8800	2933	5867
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)			\$0.00	\$1.50	\$0.82	\$0.82
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)			\$0.00	\$1.30	\$0.71	\$0.71
	Subtotal Topsoil Application Costs			\$0	\$11,468	\$2,090	\$4,180
E.	Discing/Seeding						
	Assumptions						
	Surface Area (acres)			7.6	10.9	3.6	7.3
	Discing/Seeding Unit Cost (\$/acre)			\$200	\$200	\$200	\$200
	Subtotal Discing/Seeding Costs			\$1,515	\$2,182	\$727	\$1,455
	Subtotal Reclamation Costs per Access Road			\$14,782	\$22,476	\$5,759	\$11,519
	<b>Total Access Road Reclamation Costs</b>			<b>\$54,536</b>			
				SAT2 to SAT1	SAT3 to SAT2	H-WF Rest.	
III. Wastewater Pipeline Reclamation				WW Pipeline	PSR	Bypass	
A.	Pipeline Removal and Loading						
	Length of HDPE Pipe Trench (ft)			24000	22000	2200	
	Main Pipeline Removal Unit Cost (\$/ft of trench)			\$0.85	\$0.85	\$0.85	
	Subtotal Pipeline Removal Costs			\$20,400	\$18,700	\$1,870	
B.	Pipeline Transportation and Disposal (NRC-Licensed Facility)						
	Pipe Diameter (inches)			3	4	3	
	Chipped Volume Reduction (ft <sup>3</sup> /ft)			0.022	0.032	0.022	
	Subtotal Volume of Shredded PVC Pipe (ft <sup>3</sup> )			528	704	48.4	
	Transportation and Disposal Unit Cost (\$/ft <sup>3</sup> )			\$5.62	\$5.62	\$5.62	
	Subtotal Pipeline Disposal Costs			\$2,967	\$3,956	\$272	
C.	Discing/Seeding						
	Assumptions:						
	Width of Pipeline Trench (ft)			10	10	8	
	Area of Pipeline Trench (acres)			5.5	5.1	0.4	
	Discing/Seeding Unit Cost (\$/acre)			\$200	\$200	\$200	
	Subtotal Discing/Seeding Costs			\$1,102	\$1,010	\$81	
	Subtotal Reclamation Costs per Pipeline			\$24,469	\$23,666	\$2,223	
	<b>Total Wastewater Pipeline Reclamation Costs</b>			<b>\$50,358</b>			
IV. Radium Settling Basin Reclamation				E. Radium Pond	W. Radium Pond		
A.	Soil Sampling and Monitoring						
	Number of Soil Samples			10	10		
	\$/Sample			\$60	\$60		
	Subtotal Soil Sampling and Monitoring Costs			\$600	\$600		
C.	Grade and Contour						
	Volume of Embankment Material (CY)			6,400	6,400		
	Average Grade (%)			0	0		
	Distance (ft)			50	50		
	Material Moving Unit Cost per WDEQ Guideline No.12, App.E (\$/cy)			\$0.092	\$0.092		
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)			\$0.08	\$0.08		
	Subtotal Grade and Contour Costs			\$512	\$512		
C.	Topsoil Application						
	Assumptions:						
	Area of surface disturbance (ft <sup>2</sup> )			37500	37500		
	Average thickness of topsoil (ft)			1	1		
	Average haul distance (ft)			2000	2000		
	Surface grade (%)			0%	0%		
	Volume of Topsoil (cy)			1,389	1,389		
	Topsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)			\$0.92	\$0.92		
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)			\$0.80	\$0.80		

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

<b>Miscellaneous Reclamation</b>			
	Subtotal Topsoil Application Costs	\$1,110	\$1,110
D.	Discing/Seeding		
	Assumptions:		
	Area of surface disturbance (acres)	1	1
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200
	Subtotal Discing/Seeding Costs	\$200	\$200
	Subtotal Reclamation Costs per Radium Pond	\$2,422	\$2,422
	<b>Total Radium Settling Basin Reclamation Costs</b>	<b>\$4,843</b>	
V.	<b>Purge Storage Reservoir Reclamation</b>	<b>PSR-1</b>	<b>PSR-2</b>
A.	Soil Sampling and Analysis Costs	\$3,000	\$3,000
B.	Leachate Collection System Removal Costs	\$5,000	\$0
C.	Topsoil/Subsoil Application		
	Assumptions:		
	Average haul distance (ft)	1000	150
	Surface grade (%)	0%	0%
	Volume of Topsoil/Subsoil (cy)	83000	74000
	Topsoil/Subsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)	\$0.71	\$0.71
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.62	\$0.62
	Topsoil/Subsoil Unit Cost per WDEQ Guideline No.12, App.E (\$/cy)	\$0.194	\$0.194
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.17	\$0.17
	Subtotal Topsoil/Subsoil Application Costs per Reservoir	\$65,189	\$58,120
D.	Discing/Seeding		
	Surface Area (acres)	6	32
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200
	Subtotal Discing/Seeding Costs	\$1,200	\$6,400
	Subtotal Reclamation Costs per Reservoir	\$74,389	\$67,520
	<b>Total Purge Storage Reservoir Reclamation Costs</b>	<b>\$141,909</b>	
VI.	<b>Irrigation Area Reclamation</b>	<b>Irrigator No. 1A</b>	<b>Irrigator No. 2</b>
A.	Irrigation Equipment Removal Costs	\$2,000	\$2,000
B.	Plowing		
	Assumptions:		
	Plowing Unit Cost (\$/acre)	\$30	\$30
	Irrigation Area (acres)	55	116
	Number of Cultivations	2	2
	Subtotal Plowing Costs	\$3,300	\$6,960
C.	Discing/Seeding		
	Discing/Seeding Unit Cost (\$/acre)	\$200	\$200
	Subtotal Discing/Seeding Costs	\$11,000	\$23,200
	Subtotal Reclamation Costs per Irrigation Area	\$16,300	\$32,160
	<b>Total Irrigation Area Reclamation Costs</b>	<b>\$48,460</b>	
VII.	<b>Drilling Fluid Storage Cell Reclamation</b>		
	Assumptions:		
	Each cell is 100 ft (width) by 100 ft (length) by 10 ft (depth)		
	Volume of each cell, discounting side slopes (cy)	3704	
	Surface area disturbance associated with each cell (acres)	1	
	Average haul distance (ft)	500	
	Surface grade (%)	0	
A.	Topsoil/Subsoil Application		
	Topsoil/Subsoil Unit Cost per WDEQ Guideline No.12, App.C (\$/cy)	\$0.60	
	Unit Cost in \$/cy (July 1998 dollars w/o escalator)	\$0.52	
	Topsoil/Subsoil Application Costs per Storage Cell	\$1,931	
B.	Discing/Seeding		
	Discing/Seeding Unit Cost (\$/acre)	\$200	
	Subtotal Discing/Seeding Costs	\$200	
	Subtotal Reclamation Costs per Storage Cell	\$2,131	
	Total Number of Storage Cells	5	
	<b>Total Drilling Fluid Storage Cell Reclamation Costs</b>	<b>\$10,655</b>	
VIII.	<b>Revegetation of Exxon Reclaimed Lands</b>		
	Assumptions:		
	Reseeding potential areas of erosion (\$/acre)	\$200	
	Surface Area (acres)	217	
	<b>Total Exxon Reclaimed Lands Revegetation Costs</b>	<b>\$43,400</b>	
IX.	<b>Potential Mitigation Plan For Irrigator No.1A (Requested by WDEQ-LQD)</b>		

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

<b>Miscellaneous Reclamation</b>							
	Assumptions:						
	Harvesting grass for 2 years will further reduce Se levels in vegetation.						
	Harvest grass for 2 years @ \$2000/year.					\$4,000	
	Analyze Se in grass for 2 years @\$165/sample X 4 samples X 2 yrs.					\$1,320	
	Analyze Se in soil for 2 years @\$174/sample X 28 samples X 2 yrs.					\$9,744	
	Add 1 ft. of Se free water to 58 acre irrigation area @ cost of \$6000.					\$6,000	
	If desired, plow, disk and reseed area with alfalfa @ cost of \$4400.					\$4,400	
	<b>Total Potential Mitigation Plan Costs- Call</b>					<b>\$30,000</b>	
<b>X.</b>	<b>Potential Mitigation Plan For Irrigator No.2 (Requested by WDEQ-LQD)</b>						
	Assumptions:						
	Harvesting grass for 2 years will further reduce Se levels in vegetation.						
	Harvest grass for 2 years @ \$4000/year.					\$8,000	
	Analyze Se in grass for 2 years @\$165/sample X 4 samples X 2 yrs.					\$1,320	
	Analyze Se in soil for 2 years @\$174/sample X 32 samples X 2 yrs.					\$11,136	
	Add 1 ft. of Se free water to 116 acre irrigation area @ cost of \$12000.					\$12,000	
	If desired, plow, disk and reseed area with alfalfa @ cost of \$8800.					\$8,800	
	<b>Total Potential Mitigation Plan Costs- Call</b>					<b>\$42,000</b>	
<b>XI.</b>	<b>Potential Mitigation Plan for Shallow Well Casing Leak Investigation</b>						
	Assumptions:						
	Investigation and potential mitigation plan as of June 2002.						
	Assume cost of \$250,000.						
	<b>Total Preliminary Cost</b>					<b>\$250,000</b>	
<b>TOTAL MISCELLANEOUS RECLAMATION COSTS</b>						<b>\$695,734</b>	



POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

<b>RADIUM TREATMENT</b>		
<b>Assumptions:</b>		
1.	Based on actual 1998 operating costs from Satellite No. 2	
<b>Radium Treatment Costs per 1000 Gallons</b>		
	Chemical	= \$ 0.177
	Filtration	= \$ 0.021
	Electricity	= \$ 0.019
	By Product Disposal of Sludge	= \$ 0.097
<b>TOTAL RADIUM TREATMENT COSTS PER 1000 GALLONS</b>		<b>= \$ 0.31</b>

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

<b>GROUNDWATER SWEEP (GWS)</b>										
<b>Assumptions:</b>										
1.	All pumps are 5 hp pumping at 5.0 gpm									
2.	Cost of electricity = \$0.03/kwh									
3.	All water pumped is treated for radium removal at actual cost of \$0.31/1000 gallons									
4.	All water pumped is disposed at irrigation facility with a 20 hp pump									
5.	Repair and maintenance costs estimated at \$0.03/1000 gallons									
6.	Process sampling and analysis costs estimated at \$0.03/1000 gallons									
7.	Labor costs are not included									
<b>Wellfield Pumping Costs per 1000 Gallons</b>										
	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	$\frac{\$0.03}{\text{kwh}}$	= \$ 0.373
<b>Radium Treatment Costs per 1000 Gallons</b>										
									= \$ 0.31	
<b>Pumping to Irrigator Costs per 1000 Gallons</b>										
	1000 gal	X	$\frac{20 \text{ hp}}{400 \text{ gpm}}$	X	$\frac{1 \text{ hr}}{60 \text{ min}}$	X	$\frac{0.746 \text{ kwh}}{\text{hp}}$	X	$\frac{\$0.03}{\text{kwh}}$	= \$ 0.019
<b>Repair and Maintenance Costs per 1000 Gallons</b>										
									= \$ 0.03	
<b>Process Sampling and Analysis Costs per 1000 Gallons</b>										
									= \$ 0.03	
<b>TOTAL GWS COSTS PER 1000 GALLONS</b>										
									<b>= \$ 0.77</b>	

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

REVERSE OSMOSIS (RO)									
<b>Assumptions:</b>									
1.	Based on actual 1998 operating costs at Satellite No. 1. Verified by Hydranautics RO System Design Software, Version 6.0 (1995)								
2.	Cost of electricity = \$0.03/kwh								
3.	80% permeate/20% reject split								
4.	Membrane life of 4 years with a cost of \$695 per membrane element								
5.	Includes cost of pumping from wellfield to RO Unit								
6.	The 20% reject is treated for radium removal prior to irrigation at actual cost of \$0.31/1000 gallons								
7.	The 20% reject is disposed at irrigation facility with a 20 hp pump at actual cost of \$0.019/1000 gallons								
8.	The permeate is returned to the wellfield with a 20 hp pump at actual cost of \$0.019/1000 gallons								
9.	Process sampling and analysis costs estimated at \$0.03/1000 gallons								
10.	Labor costs are not included								
<b>Reverse Osmosis Costs per 1000 Gallons</b>									
	Electricity								= \$ 0.17
	Chemicals								= \$ 0.26
	Membrane Replacement								= \$ 0.15
	Repair and Maintenance								= \$ 0.26
	Pumping from Wellfield								= \$ 0.37
	Pumping to Wellfield								= \$ 0.019
	Radium Treatment								
		\$ 0.31	X	0.2					= \$ 0.0628
	Pumping to Irrigator								
		\$ 0.019	X	0.2					= \$ 0.004
	Process Sampling and Analysis								= \$ 0.03
<b>TOTAL RO COSTS PER 1000 GALLONS = \$ 1.33</b>									

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

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

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

<b>ELUTION PROCESSING</b>									
<b>Assumptions:</b>									
1.	Based on actual operating costs								
<b>TOTAL PROCESSING COSTS PER ELUTION = \$ 525</b>									

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

<b>DEEP WELL INJECTION</b>									
<b>Assumptions:</b>									
1. Pump 75 hp pumping at 45 gpm									
2. Cost of electricity = \$0.03/kwh									
3. Repair and maintenance costs based on average injection volume of 8,000,000 gallons per year									
4. Repair and maintenance costs estimated at \$1.25/1000 gallons									
5. Chemical costs based on average injection volume of 8,000,000 gallons per year									
6. Labor costs are not included									
<b>Waste Disposal Pumping Costs per 1000 Gallons</b>									
1000 gal	X	$\frac{75 \text{ hp}}{45 \text{ gpm}}$	X	$\frac{1 \text{ hr}}{60 \text{ min}}$	X	$\frac{0.746 \text{ kwh}}{\text{hp}}$	X	$\frac{\$ 0.03}{\text{kwh}}$	= \$ 0.62
<b>Repair and Maintenance Costs per 1000 Gallons</b>									= \$ 1.25
<b>Chemical Costs per 1000 Gallons</b>									= \$ 2.73
Scale Inhibitor		= \$ 1.20							
Corrosion Inhibitor		= \$ 1.16							
Oxygen Scavenger		= \$ 0.37							
<b>TOTAL DEEP WELL INJECTION COSTS PER 1000 GALLONS</b>									<b>= \$ 4.60</b>

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

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

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

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



POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

MAIN PIPELINE REMOVAL					
<b>Assumptions:</b>					
1.	Trenching with trackhoe at 1500 ft/day				
2.	Pipeline extraction and backfilling with trackhoe at 1500 ft/day				
3.	Trackhoe rental: \$1600/week				
4.	Fuel cost: \$9/operating hour				
5.	Trackhoe operation requires 1 worker at \$15/hour				
6.	Pipeline extraction requires 2 workers at \$15/hour (in addition to trackhoe operator)				
7.	Pipelines removed simultaneously				
8.	Includes removal of manholes				
9.	Operating schedule: 8 hrs/day, 5 days/week				
<b>Main Pipeline Removal Costs per ft of Trench</b>					
<b>Equipment</b>					
<b>Trackhoe</b>					
	\$1600	X	1 week	X	2 days = \$ 0.43
	week		5 days		1500 ft
<b>Fuel</b>					
	\$9	X	8 hrs	X	2 days = \$ 0.10
	hour		1 day		1500 ft
<b>Labor</b>					
<b>Trackhoe Operation</b>					
	\$15	X	8 man hrs	X	2 days = \$ 0.16
	man hr		1 day		1500 ft
<b>Pipeline Extraction</b>					
	\$15	X	16 man hrs	X	1 day = \$ 0.16
	man hr		1 day		1500 ft
<b>MAIN PIPELINE REMOVAL COST PER FT OF TRENCH = \$ 0.85</b>					

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

<b>WELLFIELD PIPING REMOVAL</b>						
<b>Assumptions:</b>						
1.	Trenching with backhoe at 3000 ft/day					
2.	Pipeline extraction and backfilling with backhoe at 3000 ft/day					
3.	Backhoe rental: \$750/week					
4.	Fuel cost: \$9/operating hour					
5.	Backhoe operation requires 1 worker at \$15/hour					
6.	Pipeline extraction requires 2 workers at \$15/hour (in addition to trackhoe operator)					
7.	Operating schedule: 8 hrs/day, 5 days/week					
<b>Main Pipeline Removal Costs per ft of Pipe</b>						
<b>Equipment</b>						
<b>Backhoe</b>						
	\$750	X	1 week	X	2 days	=\$ 0.10
	week		5 days		3000 ft	
<b>Fuel</b>						
	\$9	X	8 hrs	X	2 days	=\$ 0.05
	hour		1 day		3000 ft	
<b>Labor</b>						
<b>Backhoe Operation</b>						
	\$15	X	8 man hrs	X	2 days	=\$ 0.08
	man hr		1 day		3000 ft	
<b>Pipeline Extraction</b>						
	\$15	X	16 man hrs	X	1 day	=\$ 0.08
	man hr		1 day		3000 ft	
<b>MAIN PIPELINE REMOVAL COST PER FT OF PIPE</b>						<b>=\$ 0.31</b>

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

WELLFIELD ROAD RECLAMATION									
<b>Assumptions (Roads constructed before January 1, 1997):</b>									
1. Gravel road base removed at cost of \$0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)									
2. Gravel road base: average depth = 0.25 ft, average width = 10 ft									
3. Roads scarified prior to topsoil application at cost of \$36.30/acre (WDEQ Guideline No. 12, Appendix P)									
4. Grading of scarified roads prior to topsoil application at cost of \$38.45/acre (WDEQ Guideline No. 12, Appendix G)									
5. Topsoil applied at cost of \$0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)									
6. Stripped topsoil: average depth = 0.67 ft, average width = 25 ft									
7. Discing/seeding cost of \$200/acre is based on actual contractor costs.									
<b>Gravel Road Base Removal Costs per 1000 ft of Road</b>									
1000 ft	X	0.25 ft	X	10 ft	X	1 cy 27 ft <sup>3</sup>	X	\$0.60 cy	= \$ 56
<b>Scarification Costs per 1000 ft of Road</b>									
1000 ft	X	25 ft	X	1 acre 4.356E+04 ft <sup>2</sup>	X		X	\$36.30 acre	= \$ 21
<b>Grading Costs per 1000 ft of Road</b>									
1000 ft	X	25 ft	X	1 acre 4.356E+04 ft <sup>2</sup>	X		X	\$38.45 acre	= \$ 22
<b>Topsoil Application Costs per 1000 ft of Road</b>									
1000 ft	X	0.67 ft	X	25 ft	X	1 cy 27 ft <sup>3</sup>	X	\$0.60 cy	= \$ 372
<b>Discing/Seeding Costs per 1000 ft of Road</b>									
1000 ft	X	25 ft	X	1 acre 4.356E+04 ft <sup>2</sup>	X		X	\$200 acre	= \$ 115
<b>TOTAL WELLFIELD ROAD RECLAMATION COSTS PER</b>									
<b>1000 FT OF ROAD ( BEFORE JANUARY 1, 1997)</b>									<b>= \$ 586</b>
<b>Assumptions (Roads constructed after January 1, 1997):</b>									
1. Gravel road base will not be removed									
2. Roads scarified prior to topsoil application at cost of \$36.30/acre (WDEQ Guideline No. 12, Appendix P)									
3. Grading of scarified roads prior to topsoil application at cost of \$38.45/acre (WDEQ Guideline No. 12, Appendix G)									
4. Topsoil applied at cost of \$0.60/cy/1000 ft (WDEQ Guideline No. 12, App. C, Level Ground, 500 ft haul)									
5. Stripped topsoil: average depth = 0.4 ft, average width = 20 ft									
6. Discing/seeding cost of \$200/acre is based on actual contractor costs.									
<b>Scarification Costs per 1000 ft of Road</b>									
1000 ft	X	20 ft	X	1 acre 4.356E+04 ft <sup>2</sup>	X		X	\$36.30 acre	= \$ 17
<b>Grading Costs per 1000 ft of Road</b>									
1000 ft	X	20 ft	X	1 acre 4.356E+04 ft <sup>2</sup>	X		X	\$38.45 acre	= \$ 18
<b>Topsoil Application Costs per 1000 ft of Road</b>									
1000 ft	X	0.40 ft	X	20 ft	X	1 cy 27 ft <sup>3</sup>	X	\$0.60 cy	= \$ 178
<b>Discing/Seeding Costs per 1000 ft of Road</b>									
1000 ft	X	20 ft	X	1 acre 4.356E+04 ft <sup>2</sup>	X		X	\$200 acre	= \$ 92
<b>TOTAL WELLFIELD ROAD RECLAMATION COSTS PER</b>									
<b>1000 FT OF ROAD ( AFTER JANUARY 1, 1997)</b>									<b>= \$ 305</b>

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

BYPRODUCT MATERIAL TRANSPORTATION AND DISPOSAL									
<b>Assumptions:</b>									
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 <sup>3</sup> dumpster or 30-yd <sup>3</sup> dump truck).									
4. Each shipment contains 30,000 lbs of material.									
		<b>Transportation Cost</b>			<b>Disposal Cost</b>			<b>Total</b>	
		\$ 66.67	/yd <sup>3</sup>	+	\$ 85.00	/yd <sup>3</sup>	=	\$ 151.67	/yd <sup>3</sup>
							=	\$ 5.62	/ft <sup>3</sup>

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

<b>DISKING/SEEDING</b>									
<b>Assumptions:</b>									
1. Based on actual contractor costs									
<b>TOTAL DISKING/SEEDING COSTS PER ACRE</b>								<b>= \$ 200</b>	

POWER RESOURCES INC HIGHLAND URANIUM PROJECT  
2006-2007 SURETY ESTIMATE REVISION

Abbreviations/Acronyms					
\$	Dollars				
\$/Kgal	Dollars per 1000 gallons				
avg	average				
ft	feet				
ft2	square feet				
ft3	cubic feet				
gal	gallon				
gpm	gallons per minute				
H&S	Health and Safety				
H2S	Hydrogen Sulfide				
H2SO4	Sulfuric Acid				
HCl	Hydrochloric Acid				
Hp	Horsepower				
Kgal	1000 gallons				
Kwh	Kilowatt-hours				
NaOH	Caustic Soda				
OD	Outside Diameter				
PPE	personal protective equipment				
PV	Pore Volume Estimate				
reqm't	requirement				
RO	Reverse Osmosis				
WDW	Waste Disposal Well				
yd3	cubic yards				
yr	year				