



August 7, 2015

Attn: Control Documents
Office of Nuclear Safety and Safeguards
U.S. Nuclear Regulatory Commission
11545 Rockville Pike
Rockville, MD 20852

License SUA-1548, Docket No. 40-8964
Revised Surety Estimate Update for Gas Hills ISR Project

CAMECO RESOURCES

Project Development
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Dear Sirs:

Pursuant to License Condition 9.5, Power Resources, Inc. d/b/a Cameco Resources (Cameco) is herein providing a copy of the revised proposed 2015-16 reclamation surety bond estimate for the Gas Hills ISR Project.

Based on email communications between Cameco and Land Quality Division of Wyoming Department of Environmental Quality (WDEQ-LQD) it was determined that the equipment for moving dirt specified in Guideline 12, Appendix C utilizes a Caterpillar 637E. This particular piece of equipment is typically used in coal mining reclamation and is larger than necessary for reclamation of uranium operations. Guideline 12a defines equipment more suitable for small Noncoal mining operations. Therefore, Cameco adjusted the ripping costs based on Guideline 12a, resulting in an overall net decrease of the current bond of \$140,784 for a total amount of \$2,834,243.

This revised surety estimate has been submitted to the LQD and the Bureau of Land Management (BLM) in correspondence dated August 7, 2015. If you have any questions or concerns regarding this estimate please feel free to contact Jeanie Wolford at 307-333-7644 or by email at Jeanie_wolford@cameco.com.

Sincerely,
Cameco Resources

A handwritten signature in black ink, appearing to read "Larry McGonagle".

Larry McGonagle
SHEQ Manager, Division

Enclosures:
Appendix B: 2015-16 GH Reclamation Surety Bond Estimate

NUCLEAR. The Clean Air Energy.

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Appendix B

2015-16 RECLAMATION SURETY BOND ESTIMATE

WDEQ Permit No. 687 Annual Report / NRC SUA-1548

Gas Hills ISR Project - Cameco Resources

Bond Calculation Changes

I BLDGS

Increase Building Demolition (App. K)	\$0.14
Increase Concrete Floor Demolition (App. K)	\$0.35
Increase Concrete Footing Demolition	\$1.31
Increase Concrete Disposal On-Site (App. K)	\$0.38
Net Increase	\$57,263

II Well Abandonment

Decrease Drill Hole Abandonment	-\$11,550.00
Increase Operator/Laborer Costs*	\$0.55
Net Decrease	-\$11,446.00

III Miscellaneous Reclamation

Decrease Ripping Costs (GL 12a)(Cat D6)	-\$990.64
Decrease ripping costs (one-way, 1000', 0%)(GL12a)	-\$0.32
Decrease Seeding costs (GL 12a)	-\$217.67
Decrease Culvert Removal Costs (App. J)	-\$1.61
Decrease Surface water station removal (App. N)	-\$38.46
Decrease Air Mon. Station Removal (App. O)	-\$25.17
Net Decrease	-\$168,237.17

2014 Surety Calculation	\$2,975,027.00
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2015 Proposed Surety Calculation	\$2,834,243
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Net decrease + contingency	-\$140,784
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Appendix B

2015-16 RECLAMATION SURETY BOND ESTIMATE

WDEQ Permit No. 687 Annual Report / NRC SUA-1548
Gas Hills ISR Project - Cameco Resources

Total Restoration and Reclamation Cost Estimate

I.	Building Demolition and Disposal Cost		\$1,892,942
II.	Well & Drill Hole Abandonment		\$320,977
III.	Miscellaneous Surface Reclamation Cost		\$250,640
	Subtotal Restoration and Reclamation Cost Estimate		\$2,464,559
	Contractor Profit & Overhead (10%)¹	See Master Costs	
	Contingency (15%)²	15%	\$369,684
		TOTAL³	\$2,834,243

¹, Per WDEQ/LQD Guideline No. 12, Section 12(b)

², Per WDEQ/LQD Guideline No. 12, Section 12(a) and (c-h), Section 13 and NRC License Condition 9.5 (SUA-1548)

³, Costs reflect both WDEQ & NRC requirements. No salvage value assumed.

2015-16 RECLAMATION SURETY BOND ESTIMATE
WDEQ Permit No. 687 Annual Report / NRC SUA-1548
Gas Hills ISR Project - Cameco Resources

Part I. Building Demolition and Disposal

Building & Other Miscellaneous Demolition and Disposal	Carol Shop	Tire Shop	Change House	Air Comp Building	Water Treat Building	BaCl Building
I. Demolition Costs						
A. Building (Tanks)						
Volume of Building (ft ³)	1,977,851	54,560	18,600	6,240	6,600	6,600
<u>Demolition Cost</u>	\$0.330	\$0.330	\$0.330	\$0.330	\$0.330	\$0.330
Subtotal Building Demolition Costs	\$652,691	\$18,005	\$6,138	\$2,059	\$2,178	\$2,178
B. Concrete Floor						
Area of Concrete Floor (ft ²)	56,985	2,480	1,860	520	600	864
<u>Demolition Cost</u>	\$6.38	\$6.38	\$6.38	\$6.38	\$6.38	\$6.38
Subtotal Concrete Floor Demolition Costs	\$363,564	\$15,822	\$11,867	\$3,318	\$3,828	\$5,512
C. Concrete Footing						
Length of Concrete Footing (ft)	1,221	204	184	48	60	48
<u>Demolition Cost</u>	\$23.54	\$23.54	\$23.54	\$23.54	\$23.54	\$23.54
Subtotal Concrete Footing Demolition Costs	\$28,742	\$4,802	\$4,331	\$1,130	\$1,412	\$1,130
Subtotal Demolition Costs per Building	\$1,044,997	\$38,629	\$22,336	\$6,507	\$7,418	\$8,820
Total Demolition Costs	\$1,128,707					
II. Disposal Costs						
A. Building						
Volume of Building (cy)	48,838	2,021	689	231	244	244
Off-Site County Landfill						
Percentage (%)	100	100	100	100	100	100
Total Volume for Disposal - Incl. 33% Factor (cy)	16,117	667	227	76	81	81
<u>Disposal Cost, Landfill (cy)</u>	\$42.17	\$42.17	\$42.17	\$42.17	\$42.17	\$42.17
Subtotal County Facility Off-Site Disposal Costs	\$679,585	\$28,119	\$9,586	\$3,216	\$3,401	\$3,401
B. Concrete Floor						
Area of Concrete Floor (ft ²)	56,985	2,480	1,860	520	600	864
Average Thickness of Concrete Floor (ft)	0.75	0.75	0.75	0.75	0.75	0.75
Volume of Concrete Floor (ft ³)	42,739	1,860	1,395	390	450	648
Volume of Concrete Floor (cy)	1,583	69	52	14	17	24
1. On-Site Concrete Disposal						
Percentage (%)	100	100	100	100	100	100
Volume for Disposal (cy)	1,583	69	52	14	17	24
<u>Concrete Disposal On Site (cy)</u>	\$9.94	\$9.94	\$9.94	\$9.94	\$9.94	\$9.94
Subtotal County Facility Off-Site Disposal Costs	\$15,741	\$685	\$514	\$144	\$166	\$239
Subtotal Concrete Floor Disposal Costs	\$15,741	\$685	\$514	\$144	\$166	\$239
C. Concrete Footing						
Length of Concrete Footing (ft)	1,221	204	184	48	60	48
Average Depth of Concrete Footing (ft)	4	4	4	4	4	4
Average Width of Concrete Footing (ft)	0.75	0.75	0.75	0.75	0.75	0.75
Volume of Concrete Footing (ft ³)	3663	612	552	144	180	144
Volume of Concrete Footing (cy)	136	23	20	5	7	5
<u>Concrete Disposal On Site (cy)</u>	\$9.94	\$9.94	\$9.94	\$9.94	\$9.94	\$9.94
Subtotal Concrete Footing Disposal Costs	\$1,349	\$225	\$203	\$53	\$66	\$53
Subtotal Disposal Costs per Building	\$712,416	\$29,714	\$10,817	\$3,557	\$3,799	\$3,932
Total Disposal Costs	\$764,235					

TOTAL BUILDING & OTHER MISCELLANEOUS DEMOLITION AND DISPOSAL COSTS

\$1,892,942

2015-16 RECLAMATION SURETY BOND ESTIMATE**WDEQ Permit No. 687 Annual Report / NRC SUA-1548****Gas Hills ISR Project - Cameco Resources****Part II - Well and Drill Hole Abandonment**

	Water Wells	Misc Wells
I. Well Abandonment		
A. Sealing Costs		
Total # of Wells per Wellfield	2	54
Well Average Depth (ft)	1600	451
<u>Well Abandonment (Sealing) Costs (\$/ft)</u>	\$3.30	\$3.30
Subtotal Sealing Costs per Wellfield	\$10,560	\$80,368
B. Casing Removal and Disposal Costs		
Total # of Wells per Wellfield	2	54
Total # of Wells for Casing Removal and Disposal	2	54
<u>Remove and Dispose Casing (\$/well)</u>	\$33	\$33
Subtotal Casing Removal and Disposal Costs per Wellfield	\$99	\$1,881
Subtotal Well Abandonment Costs per Wellfield	\$10,659	\$82,249
C. Incidental Costs		
1 <u>Remove Pump, Wiring, and Drop Pipe</u>	\$0.44	\$0.44
Subtotal Removal of Pump, Wiring, and Drop Pipe	\$1,056.00	\$0.00
2 <u>Monitoring Well Concrete Pedestal Disposal</u>	\$110	\$110
Subtotal Monitoring Well Concrete Pedestal Disposal	\$0	\$5,940
Subtotal Incidental Costs	\$1,056.00	\$5,940.00
Subtotal Well Abandonment Costs	\$22,275	\$168,557
Total Well Abandonment Costs	\$190,832	
II. Waste Disposal Well Abandonment		
A. Well Sealing	DDW #1	DDW #2
Total Depth of Well (feet)	3794	5389
<u>Sealing cost per foot (in UIC permit)</u>	\$13.62	\$13.62
Subtotal Plugging Costs per Well (in UIC permit)	\$51,674	\$73,398
B. Pump Dismantling and Decontamination		
Number of Persons	2	2
Number of Pumps	2	2
Pumps/Day	0.5	0.5
Number of Days	4	4
<u>\$ Day/Person</u>	\$297.68	\$297.68
Subtotal Dismantling and Decon Costs per Well	\$2,381.47	\$2,381.47

2015-16 RECLAMATION SURETY BOND ESTIMATE**WDEQ Permit No. 687 Annual Report / NRC SUA-1548****Gas Hills ISR Project - Cameco Resources****Part II - Well and Drill Hole Abandonment**

	Water Wells	Misc Wells
C. Tubing String Disposal (C&D Landfill)		
Length of Tubing String (ft)	3400	5100
Diameter of Tubing String (inches)	2.875	2.875
Volume of Tubing String (ft ³)	79	119
<u>Transportation and Disposal Unit Cost (\$/ft³)</u>	\$1.56	\$1.56
Subtotal Tubing String Disposal Costs per Well	\$123.64	\$185.47
	\$54,179.39	\$75,965.11
Total Waste Disposal Well Abandonment Costs	\$130,145	
Total Well Abandonment	\$320,977	

2015-16 RECLAMATION SURETY BOND ESTIMATE
WDEQ Permit No. 687 Annual Report / NRC SUA-1548
Gas Hills ISR Project - Cameco Resources

Part III. Miscellaneous Surface Reclamation

I. Carol Shop/Office Area

Assumptions	
Surface grade	0%
Surface Area (acres)	21.00
A. Ripping Overburden with Cat 140 Blade	
Overburden Surface Area (acres)	21.00
<u>Ripping Cost (per acre)</u>	\$291.57
Subtotal Ripping Overburden Costs	\$6,123
B. Topsoil Application	
Area of surface disturbance (ft ²)	21.00
Average thickness of topsoil (ft)	0.5
Average haul distance (ft)	500
Surface grade (%)	0%
Volume of Topsoil (cy)	16940
<u>Moving Materials (0% Grade)</u>	\$1.10
Subtotal Topsoil Application Costs	\$18,578
C. Discing/Seeding	
Surface Area (acres)	21.00
<u>Discing/Seeding Unit Cost (\$/acre)</u>	\$330
Subtotal Discing/Seeding Costs	\$6,930
Total Carol Shop/Office Area Reclamation	\$31,631

II. Carol Shop Road

Assumptions	
Surface grade	0%
Length of Road (ft)	26400
Width of Road (ft)	50
Area of road (acres)	30.30
Culverts (per 20' Section)	40
A. Ripping Overburden with Dozer	
Overburden Surface Area (acres)	30.30
<u>Ripping Cost (per acre)</u>	\$291.57
Subtotal Ripping Overburden Costs	\$8,835

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Gas Hills ISR Project - Cameco Resources

Part III. Miscellaneous Surface Reclamation

B.	Gravel Road Base Removal	
	Average haul distance (ft)	1000
	Gravel Road Base Width (ft)	50
	Gravel Road Base Area (acres)	1320000
	Average Road Base Depth (ft)	0.5
	Volume of Road Base (cy)	24444
	<u>Moving Materials (0% Grade)</u>	\$1.10
	Subtotal Gravel Road Base Removal Costs	\$26,808
C.	Topsoil Application	
	Average haul distance (ft)	1000
	Topsoil Surface Area (ft ²)	1320000
	Depth of Topsoil (ft)	0.5
	Volume of Topsoil (cy)	24444
	<u>Moving Materials (0% Grade)</u>	\$1.10
	Subtotal Topsoil Application Costs	\$26,808
D.	Discing/Seeding	
	Surface Area (acres)	30.3
	<u>Discing/Seeding Unit Cost (\$/acre)</u>	\$330
	Subtotal Discing/Seeding Costs	\$10,000
E.	Culvert Removal	
	Culverts (per 20' Section)	40
	<u>Culvert Removal Unit Cost</u>	\$151
	Fill Removal/Drainage Reestablishment	\$500
	Subtotal Culvert Removal	\$26,057.04
	Total Carol Shop Road Reclamation	\$98,508.60

III. AML Road Reclamation

	Assumptions	
	Surface grade	0%
	Length of Road (ft)	22704
	Width of Road (ft)	66
	Area of road (acres)	34.40
	Culverts (per 20' Section)	20
A.	Ripping Overburden with Dozer	
	Overburden Surface Area (acres)	34.40
	<u>Ripping Cost (per acre)</u>	\$291.57
	Subtotal Ripping Overburden Costs	\$10,030

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Part III. Miscellaneous Surface Reclamation

B.	Gravel Road Base Removal	
	Average haul distance (ft)	1000
	Gravel Road Base Width (ft)	66
	Gravel Road Base Area (acres)	1498464
	Average Road Base Depth (ft)	0.5
	Volume of Road Base (cy)	27749
	<u>Moving Materials (0% Grade)</u>	\$1.10
	Subtotal Gravel Road Base Removal Costs	\$30,433
C.	Topsoil Application	
	Average haul distance (ft)	1000
	Topsoil Surface Area (ft ²)	1498464
	Depth of Topsoil (ft)	0.5
	Volume of Topsoil (cy)	27749
	<u>Moving Materials (0% Grade)</u>	\$1.10
	Subtotal Topsoil Application Costs	\$30,433
D.	Discing/Seeding	
	Surface Area (acres)	34.4
	<u>Discing/Seeding Unit Cost (\$/acre)</u>	\$330
	Subtotal Discing/Seeding Costs	\$11,352
E.	Culvert Removal	
	Culverts (per 20' Section)	20
	<u>Culvert Removal Unit Cost</u>	\$102
	Fill Removal/Drainage Reestablishment	\$500
	Subtotal Culvert Removal	\$12,048.20
	Total AML Road Reclamation	\$94,295.76

IV. Waste Disposal Injection Well Pads and Access Road

	Assumptions	
	Surface grade	0%
	Surface Area (acres)	3.00
	Length of Road (ft)	1000
	Width of Road (ft)	20
	Area of road (acres)	0.46
	Quantity	2
A.	Ripping Overburden with Dozer	
	Overburden Surface Area (acres)	3.00
	<u>Ripping Cost (per acre)</u>	\$291.57
	Subtotal Ripping Overburden Costs	\$1,749

2015-16 RECLAMATION SURETY BOND ESTIMATE
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Gas Hills ISR Project - Cameco Resources

Part III. Miscellaneous Surface Reclamation

B. Topsoil Application		
Area of surface disturbance (ft ²)		3.00
Average thickness of topsoil (ft)		0.5
Average haul distance (ft)		500
Surface grade (%)		0%
Volume of Topsoil (cy)		2420
<u>Moving Materials (0% Grade)</u>		\$1.10
Subtotal Topsoil Application Costs		\$5,308
C. Discing/Seeding		
Surface Area (acres)		3.00
<u>Discing/Seeding Unit Cost (\$/acre)</u>		\$330
Subtotal Discing/Seeding Costs		\$1,980
Total Waste Disposal Injection Well Pads and Access Road		\$9,037.40
V. Water Supply Wells and Access Road		
Assumptions		
Surface grade		0%
Surface Area (acres)		1
Length of Road (ft)		2500
Width of Road (ft)		20
Area of road (acres)		1.15
Quantity		2
A. Ripping Overburden with Dozer		
Overburden Surface Area (acres)		1.00
<u>Ripping Cost (per acre)</u>		\$291.57
Subtotal Ripping Overburden Costs		\$583
B. Topsoil Application		
Area of surface disturbance (ft ²)		1.00
Average thickness of topsoil (ft)		0.5
Average haul distance (ft)		500
Surface grade (%)		0%
Volume of Topsoil (cy)		807
<u>Moving Materials (0% Grade)</u>		\$1.10
Subtotal Topsoil Application Costs		\$1,770

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Part III. Miscellaneous Surface Reclamation

C.	Discing/Seeding	
	Surface Area (acres)	1.00
	<u>Discing/Seeding Unit Cost (\$/acre)</u>	\$330.00
	Subtotal Discing/Seeding Costs	\$660
	Total Water Supply Wells and Access Road	\$3,013
VI.	Removal of Monitoring Stations	
A.	Surface Water Monitoring Stations	3
	<u>Removal Unit Cost</u>	\$2,900.92
	Subtotal Surface Water Monitoring Stations	\$8,703
B.	Air Quality Monitoring Stations	5
	<u>Removal Unit Cost</u>	\$1,090.36
	Subtotal Air Quality Monitoring Stations	\$5,452
	Total Removal of Monitoring Stations	\$14,155
	Total Miscellaneous Surface Reclamation	\$250,640.35