U.S. NUCLEAR REGULATORY COMMISSION					
MATERIALS LICENSE					
Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and the applicable parts of Title 10, Code of Federal Regulations, Chapter I, Parts 19, 20, 30, 31, 32, 33, 34, 35, 36, 39, 40, 51, 70, and 71, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.					
Licensee					
1. Umetco Minerals Corporation	3. License Number SUA-648 Amendment No. 64				
2. P.O. Box 1029					
	4. Expiration Date Until terminated				
Grand Junction, Colorado 81502	5. Docket No. 40-0299				
	Reference No.				
<ul> <li>Byproduct Source, and/or Special Nuclear Material Natural Uranium</li> <li>Chemical and/or Physical Form</li> <li>Chemical and/or Physical Form</li> <li>Maximum amount that Licensee May Possess at Any One Time Under This License Unlimited</li> </ul>					
<ol> <li>Authorized place of use: The licensee's uranium milling and heap leach facilities located in Natrona County, Wyoming.</li> </ol>					
10. The licensee shall:					
A. Issue a Radiation Work Permit (RWP) for non-routine work which may, by the determination of the Radiation Safety Officer (RSO), result in significant exposure to radioactive materials. The RWP shall at a minimum describe the scope of work to be performed, any precautions necessary to reduce exposure, and the necessary supplemental monitoring and sampling.					
B. Provide by a current organizational chart and details of the authority and responsibility of each level of management, noting any changes. This submittal will be included in the ground water monitoring review, due each September 30 <sup>th</sup> .					
C. DELETED by Amendment No. 60.					
<ul> <li>D. Conduct training for site personnel, contractors, and visitors in accordance with the requirements of 10 CFR 19.12 "Instruction to Workers" on the following frequencies.</li> </ul>					
<ol> <li>Site personnel shall receive radiation and training on an annual basis.</li> </ol>	safety training initially and radiation/safety refresher				
<ol> <li>Visitors are required to register at the office and are not permitted inside the facility restricted area without visitor training unless escorted by trained personnel.</li> </ol>					
<ol> <li>Contractors having work assignments insid training prior to performing their duties.</li> </ol>	de the restricted area are given radiation and safety				

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		access to the site restricted area through the under the line of the during scheduled work hours.	use of physical barriers and use of site	
	[Applicable A	mendments: 22, 40, 48, 50, 51, 53]		
11.	DELETED by	v Amendment No. 22.		
12.	DELETED by	Amendment No. 22.		
13.	provided that	is hereby exempted from the requirements of all entrances to the site are conspicuously pos s, "Any area within this site may contain radioa	sted in accordance with Section 20.1902(e) and	
	[Applicable A	mendment: 35]		
14.	The RSO sha Rev. 1, dated	all meet the minimum qualifications specified in May 2002.	Section 2.4.1 of Regulatory Guide 8.31,	
	[Applicable A	mendment: 53]	A L	
15.		edures shall be established for non-operational nt calibrations. An up-to-date copy of each wri	activities to include environmental monitoring tten procedure shall be kept in the area to which	
	before impler protection pri	mentation, and whenever a change in procedur	be reviewed and approved in writing by the RSO re is proposed, to ensure that proper radiation O shall perform a documented review of existing	
	[Applicable A	mendments: 22, 40]	S S	
16.		shall conduct an annual ALARA audit. A copy e site and shall be available for NRC review.	of the annual ALARA audit report shall be	
	that summariz	ne licensee shall review the environmental mor zes environmental monitoring conducted at the mbers of the public. A copy of the annual envi ne site for NRC review.	e site and include the dose assessment for	
	[Applicable A	mendments: 22, 35, 40]		
17.	DELETED by	Amendment No. 40.		
18.	DELETED by	Amendment No. 22.		
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19.	DELETED by	Amendment No. 35.	
20.		equipment utilized for radiation surveys shall lated at least quarterly or prior to use if utilized	be performed annually. Air sampling equipment less frequently than on a quarterly basis.
	[Applicable Ar	mendment: 40]	
21.	DELETED by	Amendment No. 40.	
22.	Decontaminat	uipment or packages from the restricted area tion of Facilities and Equipment Prior to Relea Byproduct Materials," dated April 1993.	
	[Applicable Ar	mendments: 22, 40]	
23.	. Mill tailings other than samples for research shall not be transferred from the site without specific prior approval of the NRC in the form of a license amendment. The licensee shall maintain a permanent record of all transfers made under the provisions of this condition.		
24.	DELETED by	Amendment No. 22.	All -
25.	. The licensee is hereby authorized to possess byproduct material in the form of uranium waste tailings generated by the licensee's former uranium recovery operations previously authorized under license SUA-648.		
	[Applicable Ar	mendment: 43]	
26.	DELETED by	Amendment No. 22.	
27.	The results of sampling, analyses, surveys and monitoring, the results of calibration of equipment, reports on audits and inspections, and all meetings and training courses required by this license and any subsequent reviews, investigations, and corrective actions, shall be documented. Unless otherwise specified in NRC regulations, all such documentation shall be maintained for a period of at least 5 years.		
28.	the tailings, he release of rad	eap leach or evaporation pond areas of any fa	and facsimile transmission upon discovery in illure of structures or earthworks that results in a ns which, if not corrected, could lead to such a of 10 CFR Part 20.
	[Applicable Ar	mendments: 22, 31]	
29.	DELETED by	Amendment No. 22.	

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30.	DEL	ETED by .	Amendment No. 60.	
31.	1. Before engaging in any activity not previously evaluated by the NRC, the licensee shall prepare and record an environmental evaluation of such activity. When the evaluation indicates that such activity may result in a significant adverse environmental impact that was not assessed or that is greater than assessed, the licensee shall provide a written evaluation of such activities and obtain prior approval from the NRC in the form of a license amendment.			
32.	publi (5) m	ic potable niles (8 km		ntial structures and uses) in the area within five ary and submit a report of this survey to the NRC.
	[App	licable An	nendment: 32]	
33.	arche to the subm	eological a eir disturb nitted to th		
	In addition, all work in the immediate vicinity of any buried cultural deposits unearthed during the disturbance shall cease until approval to proceed has been granted by the NRC.			
	[App	licable An	nendment: 40]	
34.	DEL	ETED by .	Amendment No. 59.	
35.	. The Alternate Concentration Limits (ACL) for ground water contained in Umetco's application dated May 11 and May 18, 2001, as revised by submittals of July 30, 2001, December 3, 2001, and March 4 and October 2, 2002, and June 17, 2005, have been approved for this site. The licensee shall implement a ground water compliance monitoring program that includes the following.			
	:	in the Jan Section 4 Septembe	nuary 5, 2004, submittal. The validation of AC of Appendix M. The licensee shall submit thi	
	i	and MW2	vith the following ACL in the western flow regir 21A: arsenic = 1.8 mg/L, beryllium = 1.64 mg/ 1 radium-226 and 228 = 250 pCi/L, selenium =	/L, lead-210 = 35.4 pCi/L, nickel = 13.0 mg/L,

uranium-natural = 11.9 mg/L.

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	C.	= 1.36 m	vith the following ACL in the southwestern flow g/L, beryllium = 1.70 mg/L, lead-210 = 189 pC = 353 pCi/L, selenium = 0.53 mg/L, thorium-23	
	D.	mg/l, unle dissolved uranium :	see shall use, at a minimum, the following low ess otherwise noted: arsenic = 0.01, beryllium I solids = 10, sulfate = 1.0, chloride = 1.0, iron = 0.0015, combined radium-226 and 228 = 1.0 , and gross alpha = 5.0 pCi/L.	= 0.1, pH = 0.1 (standard units), natural
	E.	a measur	for gross alpha for both flow regimes is based red number. The ACL for gross alpha is consi ides (Th-230, Ra-226 + Ra-228, Pb-210) are a	
	[App	olicable An	nendments: 6, 8, 11, 15, 21, 31, 32, 34, 40, 4	1, 43, 48, 50, 53, 56]
36.	DELETED by Amendment No. 53.			
37.	DELETED by Amendment No. 22.			
38.	DELETED by Amendment No. 40.			
39.	<ol> <li>The results of all effluent and environmental monitoring required by this license shall be sent annually to the NRC.</li> </ol>			
	[Applicable Amendment: 43]			
40.	DEL	DELETED by Amendment No. 35.		
41.	DEL	DELETED by Amendment No. 22.		
42.	DEL	DELETED by Amendment No. 35.		
43.	DELETED by Amendment No. 40.			
44.	DEL	ETED by	Amendment No. 1.	
45.	DEL	ETED by	Amendment No. 40.	
46.	DEL	ETED by	Amendment No. 1.	
47.	DEL	ETED by	Amendment No. 1.	
48.	DEL	ETED by	Amendment No. 35.	

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49.	DELETED by Amendment No. 53.		
50.	DELETED by Amendment No. 35.		
51.	DELETED by Amendment No. 35.		
52.	DELETED by Amendment No. 31.		
53.	DELETED by Amendment No. 22.		
54.	DELETED by Amendment No. 60.		
	Appendix A, Criteria 9 and 10, adequate to cover the estimated costs, if accomplished by a third party, for decommissioning and decontamination of the mill and mill site, reclamation of any tailings or waste disposal areas, ground water restoration as warranted and the long-term surveillance fee. With submittal of a revised reclamation/decommissioning plan, the licensee shall submit, for NRC review and approval, a proposed revision to the financial surety arrangement if estimated costs in the new plan exceed the amount covered in the existing financial surety. The surety shall then be revised to include that amount with the annual surety update.  Annual updates to the surety amount, required by 10 CFR 40, Appendix A, Criteria 9 and 10, shall be submitted to the NRC at least 3 months prior to the anniversary date, which is designated as September 13 of each year. If the NRC has not approved a proposed revision to the surety coverage 30 days prior to the expiration date of the existing surety arrangement, the licensee shall extend the existing surety arrangement for one year. Along with each proposed revision or annual update, the licensee shall submit supporting documentation showing a breakdown of the costs and the basis for the cost estimates with adjustments for inflation, maintenance of a 15 percent contingency fee, changes in engineering plans, activities performed and any other conditions affecting estimated costs for site closure. The licensee shall also provide the NRC with all surety related correspondence submitted to the State of Wyoming, a copy of the State's surety review and the final approved surety arrangement. The licensee shall also ensure that the surety, where authorized to be held by the State, expressly identifies the NRC portion of the surety and covers the decommissioning and decontamination of the cost estimate is the NRC-approved reclamation/decommissioning plan or NRC-approved revisions to the plan.		
	Umetco Gas Hills' currently approved surety instrument, a s be continuously maintained in an amount no less than \$1,0 complying with 10 CFR 40, Appendix A, Criteria 9 and 10, u State and the NRC.	76,279 (NRC portion) for the purpose of	
	[Applicable Amendments: 1, 2, 13, 19, 20, 26, 27, 28, 33, 3	6, 39, 44, 46, 49, 52, 54, 55, 57, 61, 62, 63]	
56.	Prior to termination of this license, the licensee shall provide land, including any interests therein (other than land owned		

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	that is used for the disposal of such byproduct material or is such disposal site to the United States or the State of Wyon			
57.	DELETED by Amendment No. 60.			
58.	DELETED by Amendment No. 60.			
59.	DELETED by Amendment No. 60.			
60.	Notification to NRC under 10 CFR 20.2202, 10 CFR 40.60, as follows:	and specific license conditions should be made		
	Required written notice to NRC under this license should be Deputy Director, Decommissioning and Uranium Licensing Environmental Protection, Office of Federal and State Mate U.S. Nuclear Regulatory Commission, Washington, DC 209 11545 Rockville Pike, Rockville, Maryland 20852. Required NRC Operations Center at (301) 816-5100, unless otherwis	Directorate, Division of Waste Management and rials and Environmental Management Programs, 555, Mail Stop T8F5, or by express delivery to I telephone notification shall be made to the		
	[Amendment No. 60]			
61.	DELETED by Amendment No. 60.	Ö		
62.	DELETED by Amendment No. 50,			
63.	3. Licensee is authorized to perform repairs and enhancements to the erosion protection cover in accordance with statements and commitments made in letters dated December 21, 2010; May 10, 2011; June 8, 2011; July 13, 2011; and July 18, 2011. If any cultural materials are discovered during construction, work in the area shall halt immediately and the licensee shall contact the NRC, the Casper Field Office of the US Department of the Interior Bureau of Land Management, and the State of Wyoming State Historic Preservation Office and the materials shall be evaluated by an archaeologist or historian meeting the Secretary of the Interior's Professional Qualification Standards.			
	[Amendment No. 64]			
	FOR THE	NUCLEAR REGULATORY COMMISSION		
Da	Deco Lice Divis and Office	/RA/ I. McConnell, Deputy Director ommissioning and Uranium Recovery ensing Directorate ion of Waste Management Environmental Protection e of Federal and State Materials Environmental Management Programs		