NRC FORM 374 -	U.S. NUCLEAR REGU	JLATORY COMMISSION	PAGE	1OF	12	PAGES
.,	MATERIA	LS LICENSE				
Pursuant to the Ator Federal Regulations, by the licensee, a licen naterial designated persons authorized to specified in Section Nuclear Regulatory	nic Energy Act of 1954, as amended, the Energy Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, ense is hereby issued authorizing the licensee to re- below; to use such material for the purpose(s) and preceive it in accordance with the regulations of th 183 of the Atomic Energy Act of 1954, as amen Commission now or hereafter in effect and to any	Reorganization Act of 19 and 70, and in reliance on ceive, acquire, possess, and d at the place(s) designate e applicable Part(s). This l ded, and is subject to all conditions specified below	74 (Public Law 9 statements and re d transfer byprodu d below; to deliv icense shall be de applicable rules, w.	93-438), and epresentatior lict, source, a er or transfe emed to con regulations,	Title 10 as hereto and speci er such n tain the o and ord	), Code o fore mad al nuclea naterial to condition lers of th
	Licensee					
1.	Quivira Mining Company	3. License Number	SUA-1473,	Amend N	o. 42	• .
2.	6305 Waterford Blvd., Suite 325 Oklahoma City, Oklahoma 73118 [Applicable Amendments: 12]	4. Expiration Date Applie 5. Docket or Reference No.	Until termina cable amenda	ated s: 29]		
5. Byproduct, Sour Special Nuclear	ce, and/or 7. Chemical an Material Form	d/or Physical	8. Maximu May Po	um Amount ossess at An This Licens	that Lice y One T e	ensee Time
	Uranium	Unlimited	and and a second se			
9.	Authorized Place of Use: The Licens located in McKinley, County, New Me	ee's Ambrosia Lake xico.	facility			
10.	This license authorizes uranium recoverepresentations, and conditions contautions and conditions contautions and anuary 13, 1991, and January 14, 1991, and January 14, 1991, and January 14, 1991, an	very in accordance v ined in submittals d 998, with the except e performed without ndment: Anywhere denote a requireme cribed in Section 6.2 uent license conditio	vith statemen ated August 3 ion that proce t specific auth the word "will nt of the Augus ns shall requi	ts, 30, 1990, essing of norization " is used st 30, 199 ire approv	from in the 90, val by	
	[Applicable Amendments: 4, 10, 11,	21, 28, 40]				
11.	The licensee shall designate a Radiat for the establishment and maintenance including personnel and environmenta minimum qualifications as specified in	ion Safety Officer (F e of a facility radiati al monitoring progra Section 2.4.1 of Re	RSO) who will on protection ms. The RSC egulatory Guid	l be respo program ) shall po de 8.31.	onsible ssess	!
<b>12.</b>	The licensee is authorized to possess process tailings and other byproduct v processing operations. Mill tailings, of research or analysis, shall not be tran approval of the NRC in the form of a li	byproduct material vastes generated by ther than small sam sferred from the res icense amendment.	in the form of the licensee ples for purpo tricted area w	f uranium 's uraniur oses such vithout pri	n as or	
13.	The licensee is authorized to operate at Ambrosia Lake, New Mexico. Thes facility, Section 35-36, and individual i	mine water uranium e facilities include t on exchange units lo	recovery trea reatment plai ocated above	atment fa nts at the e or under	cilities main groun	ď

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NRC FORM 374A (7-94)	U.S. NUCLEAR REGULATORY COMMISSION	PAGE	CF	PAGE
		License NumbesUA-1473, Ar	nend No. 42	
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number	40-8905	
	radiological safety program in effect at the license	e's mill shall include th	ese water	
	treatment facilities. All U.S. DOT requirements sh	hall be followed in the tr	ansport of the	
	shall be provided by January 1, 1987, and shall b	e updated at least annu	ually thereafter.	
14.	Written standard operating procedures (SOPs) sh	all be established for a	Il operational	
	process activities involving radioactive materials to These procedures shall specify radiation safety p	hat are handled, proces ractices to be followed	ssed or stored.	
	copy of each written procedure shall be kept in th	e mill area to which it a	pplies for	
	employee reference. All SOPs shall be reviewed	annually to update pro	cedures and	
	applied.		ipies die beilig	
4 8		~~ ×		
15.	I ne licensee shall be required to use a Radiation where the potential for significant exposure to rad	vvork Permit (RWP) fo	r all work and for which	
	no SOPs exist All RWRs shall be approved by th	ne Radiation Safety Off	icer (RSO), or	
	his designee qualified by way of specialized radia	ition protection training.	The RWP	
		and the second second		
	A. The scope of the work to be performed			
	B Any precautions necessary to reduce expose		ariale	
	D. Any precadions necessary to reduce exposit		511015.	
	C. Supplemental monitoring required prior to du	uring, and after the con	pletion of the	
	WOIK.			
16.	The licensee shall establish written procedures fo	r all surveillance activiti	es including in-	
	plant and environmental monitoring bioassay ana instrument calibration. These procedures shall be	lysis and radiation mon	itoring ad by the RSO	
	annually to ensure that proper and current radiation	on protection principles	are being	
	applied.	× ,		
17.	Occupational exposure calculations shall be performed	prmed in accordance wi	th 10 CFR	
	19.13.b and 10 CFR 20, Subpart C and documen	ted in accordance with	10 CFR	
	20.2106. Routine airborne ore dust and yellowca	ke samples shall be an e performed in accorda	alyzed in a	
	condition. RWP ore dust and yellowcake samples	s shall be analyzed and	the results	
	reviewed by the RSO or his designee within two (2 collection.	2) working days after sa	ample	
	[Applicable Amendment: 40]			
18.	DELETED by Amendment No. 4.		· .	
19.	The results of all effluent and environmental moni	toring required by this I	icense shall be	
	reported semiannually and in accordance with 10 the report sent to the NRC.	CFR 40, Section 40.65	, with copies of	

Monitoring data shall be reported in the format shown in the attachment to SUA-1473 Printed on recycled paper

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION	DAOF	3 12	DAOE C
(7-94)		PAGE	OF	PAGES
	· · ·	SUA-1473, A	mend No. 42	
	MATEDIALCIICENSE	Desket of Defen	40 9005	
	SUPPI EMENTARY SHEET	Docket of Reference Number	40-8905	
	SOFFLEMENTART SHEET			_
	entitled, "Sample Format for Reporting Monitoring 25]	Data." [Applicable Ar	mendments:	
20.	The results of sample analyses, monitoring surve audits and inspections, meetings, and training se	ys, equipment calibrati ssions required by app	on, reports of	
	regulations or this license and any subsequent re	views, investigations, a	and corrective	
	actions shall be documented. Unless otherwise s	pecified in this license	or in NRC	
	regulations, all documentation shall be maintained	d for a period of five (5	) years.	
21.	The licensee shall operate the tailings retention s "Tailings Stabilization Report" submitted October	ystems in accordance 1, 1986, as approved l	with the by the NRC and	
	in compliance with 10 CFR 40; Appendix A. Any system that would significantly deviate from the a	changes in the tailings bove shāຟຼື reguire the	retention licensee to	
	provide a written evaluation of the changes and o	btain approval from the	e NRC in the	
	form of an amendment to the license.	0		
	Fa St			
	In addition, the licensee shall implement a tailings	dam inspection progr	am as specified	
	In Section A3 of the submittand of ambantment and		puons inal	
	annual technical evaluations of embankment peri	ormance need not be	performed, and	
	cally inspections of the tailings embankments nee	a only be performed of	nregularly	
	scheduled work days.			
	[Applicable Amondmente: 4724296 401			
	[Applicable Amendments: 4, 21, 20, 40]	Star Clarker Com		
22	The licensee shall maintain an NPG approved fin	ancial surety arranger	ont consistent	
~~.	with 10 CER 40 Appendix A Criteria-9 and 10 a	ancial surety analysen lequate to cover the e	stimated costs	
	if accomplished by a third party for decommission	ning and decontaminat	tion of the mill	
	and mill site, reclamation of any tailings or waste		l water	
	restoration as warrapted and the long term surve	illance fee	Water	
	restoration as wand ined, and the long-term surve	marice ree.		
	Annual undates to the suretwamount required by	10 CER 40 Annendix		
	and 10 shall be submitted to the NRC by June 3	of each year Along	with each	
	proposed revision or annual update the licensee	shall submit supporting	0	
	documentation showing a breakdown of the costs	and the basis for the	ost estimates	
	with adjustments for inflation maintenance of a m	inimum 15 percent co	ntingency fee	
	changes in engineering plans activities performe	d, and any other condi	tions affecting	÷
	estimated costs for site closure. The basis for the	cost estimate is the N	IRC approved	
	reclamation/decommissioning plan as supplemen	ted by the NRC assum	ptions	
	identified in License Condition No. 37. or NRC ap	proved revisions to the	, plan. The	
	attachment to this license. entitled "Recommende	d Outline for Site Spec	cific	
	Reclamation and Stabilization Cost Estimates" ou	tlines the minimum co	nsiderations	
	used by the NRC in the review of site closure esti	mates.		
	Reclamation/decommissioning plans and annual	updates should follow	this outline.	
	The licensee's currently approved surety a paren	t Company Guarantee	issued by Rio	
	Algorn Limited shall be continuously maintained i	n an amount no loss th	han	
	\$11 127 000 for the purpose of complying with 10	CFR 40 Annendiv A	Criteria 9 and	
	10 until a replacement is authorized by the NPC	The use of a narent of	company	
	autorial a replacement is autorized by the NRC.	ha comorate narent h	v the NRC as	
	guarditee necessitates a complete evaluation of	and corporate parent b	J 110 1110 43	

Printed on recycled paper

<ul> <li>MATERIALS LICENSE SUPPLEMENTARY SHEET</li> <li>Part of the annual surety update. In addition to the cost information required above, annual submittal must include updated documentation of the (1) letter from the chief financial officer of the parent company. (2) auditor's special report confirmation of chifinancial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial officer's letter, (3) schedule reconciling amounts in chief financial of such byproduct material and land, including any interests therein (other than land owned be the United States or the State of New Mexico, at the State's option.</li> <li>The licensee shall have a contingency plan for responding to inexpected releases of liguids or tailings from the mill facility, tailings impoundments, and line evaporation ponds and for the accidental release of uranium concentrates during shipment and transport.</li> <li>Release of equipment or packages from the restricted areas for unrestricted release for Decontamination for Facilities and Equipment Profite Release for Unrestricted Us or Termination of Licensees for Byproduct or Source Materials, "dated "September, 1984.</li> <li>Before engaging in an activity not previously authorized by the license, the l</li></ul>	PAG
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Amendments: 4, 7]	е
28 The licensee is hereby exempted from the posting requirements of 10 CFR 20 19020	•
for areas within the mill provided that all entrances to the mill are conspicuously post	
in accordance with 10 CFR 20.1902(e) and with the words, "Any area within this mill	
may contain radioactive material."	

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION	PAGE	OF IZ	PAGE
(1-54)		License NumbesUA-1473, A	mend No. 42	
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number	40-8905	
29.	The licensee shall submit a detailed mill decommit (6) months prior to the planned start of decommis	issioning plan to the N sioning activities.	RC at least six	
30.	Damaged yellowcake drums may be returned for described in the licensee's submittal dated Janua 1989 and November 16, 1995. All such disposal drums shall be disposed within 150 feet of the da 14, 34]	disposal in Tailings Pory ry 2, and March 5, 198 shall be documented. m crest. [Applicable A	ond No. 2 as 37, October 6, In addition, no Amendments: 2,	
31.	The licensee is authorized to process alternate fe fluoride sludges) from Sequoyah Euels Corporatio accordance with the submittals dated March 31, 15, 1990, with the exception that the yellowcake p form or dried in accordance with Condition No. 38 Amendments: 3, 5, 7, 28]	ed materials (raffinate on's Gore, Oklahoma, July 15, and August 6, product shall be maint of this license. [Appl	and calcium facility in 1987, and May ained in slurry icable	
32.	The licensee is authorized to dispose of and bury resulting from past milling operations into the disp submittals dated July 20, 1995. The licensee ma	contaminated waste posal areas in accorda y also dispose of and	materials nce with the bury within	
	these areas byproduct materials as authorized by addition, the licensee shall adhere to the following maintain detailed disposal records indicating quar material disposed in the disposal areas and prior	y license conditions 3 g requirements. The l ntitles and locations of to the disposal of any	), 36, and 41. In icensee shall f all waste wastes, the	
	licensee shall establish a detailed procedure to de placement and covering of wastes in the specified the disposal areas, including drawings, calculation included in the disposal areas, will be submitted to placement of the final cover. [Applicable Amendments: 6, 33, 37]	escribe the handling, p d disposal areas. The hs, analyses, and a lis o the NRC for approva	breparation, final design of t of materials al prior to	
33.	The licensee is hereby authorized to inject chemic accordance with their July 14, 1987 submittal The be observed: calcium = $35 \text{ mg/1}$ , sodium = $253 \text{ m}$ carbonate/bicarbonate = $303 \text{ mg/1}$ , pH = $10.0 \text{ stat}$ limits be exceeded, based upon monthly sampling suspend injection of chemically fortified waters, no sample for the above parameters on a weekly free days, submit a plan to remediate the situation. [A	cally fortified mine wat fe following upper con ng/1, sulfate = 450 mg ndard units. Should a g, the licensee shall in otify the NRC, in writin quency, and within an pplicable Amendment	ers in trol limits shall /1, iny of these mediately ig within 5 days additional 25 is: 8]	
34.	The licensee shall implement a groundwater comp the following:	pliance monitoring pro	gram containing	
	A. Sample Dakota Sandstone wells 17-01, 30-0 antimony, arsenic, beryllium, cadmium, cyani selenium, combined radium-226 and -228, na gross alpha, chloride, sulfate, nitrate, pH, and	2, 30-48, 32-45, and 3 ide, lead, molybdenun atural uranium, thoriur d electrical conductivit	36-06 for n, nickel, n-230, lead-210, y.	
	Sample Tres Hermanos A wells 31-01 and 33	3-01 for cyanide, moly	bdenum, nickel,	

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		License Number UA-1473, Ar	nend No. 42	
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number	40-8905	
	alpha, chloride, sulfate, nitrate, pH, and elec	trical conductivity.		
	Sample Tres Hermanos B wells VH19-2, 31- cyanide, molybdenum, nickel, selenium, con uranium, thorium-230, lead-210, gross alpha electrical conductivity.	66, 31-67, 36-01 and 3 nbined radium-226 and n, chloride, sulfate, nitra	6-02 for -228, natural te, pH, and	
	Sample alluvium wells 5-03, 32-59, 31-61, a selenium, combined radium-226 and -228, th gross alpha, chloride sulfate, nitrate, pH-ang	nd MW-24, for molybde norium-230, natural ura d electrical conductivity.	num, nickel, nium, lead-210,	
	B. Comply with the following groundwater protection point of compliance well 30-02, 30-48, 32-45 recognized at well 17-01: antimony = 0.05 n 0.01 mg/1; cadmium = 0.01 mg/1; cyanide =	ction standards at Dak 5, and 36-06, with back ng/1; arsenic = 0.1 mg/ 0.04 mg/1; lead = 0.14	ota Sandstone ground being 1, beryllium = mg/1;	
	molybdenum = 0.06 mg/1; nickel = 0.03 mg/ = 56 pCi/1; combined radium-226 and -228 = mg/1; thorium-230 = 2.3 pCi/1; lead-210 - 1.	1, selenium = 0:04 mg/ = 5.0 pCl/1 natural uran 9 pCl/1	1 <u>;</u> gross alpha ium - 0.02	
	Comply with the following groundwater prote point of compliance well 31-01, with backgro cyanide = 0.01 mg/1; molybdenum - 0.03 mg 0.03 mg/1; gross alpha = 18.0 pCi/1; combin natural uranium - 0.01 mg/1; thorium-230 = 4	ection standards at Tres bund being recognized a g/1; nickel = 0.05 mg/1; ied radium-226 and -22 4.3 pCi/1; lead-210 = 4.	Hermanos A at well 33-01: selenium - 8 = 5.0 pCi/1; 14 pCi/1.	
	Comply with the following groundwater prote point of compliance wells 31-66, 31-67, 36-0 recognized at well VH19-2: cyanide = 0,01 r = 0.06 mg/1; selenium = 0.04 mg/1; gross al 226 and -228 = 7.4 pCi/1; natural uranium = lead-210 = 0.9 pCi/1	ction standards at Tres 1, and 36-02, with back ng/1; molybdenum = 0. pha = 21.0 pCi/1; comb 0.02 mg/1; thorium-230	Hermanos B ground being 08 mg/1; nickel ined radium- ) =2.2 pCi/1;	
	Comply with the following groundwater prote compliance wells 32-59, 31-61, and MW-24, well 5-03: molybdenum = 0.06 mg/1; nickel gross alpha - 57 pCi/1; combined radium-226 3.1 pCi/1; natural uranium = 0.06 mg/1; lead	<pre>with background being = 0.06 mg/1; selenium = 6 and -228 = 5.0 pCi/1; -210 = 4.9 pCi/1.</pre>	ium point of recognized at = 0.05 mg/1; thorium-230 =	
	C. Implement a corrective action program as de submittal with the objective of returning the c constituents to the concentration limits speci shall, at a minimum, consist of mine dewater the interceptor trench.	scribed in the Septemb oncentrations of hazard fied in Subsection (B). ing and maintenance a	er 25, 1989, dous The program nd operation of	
 	<ol> <li>Submit, by August 1 of each year, a review of effect on the aquifers.</li> </ol>	of the corrective action <b>p</b>	program and its	
	E. The licensee is authorized pursuant to the le	tter dated November 2 <sup>2</sup>	l,	

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(1-0-1)		License Number UA-1473, A	mend No. 42	
	MATERIALS LICENSE	Docket or Reference Number	40-8905	
	SUPPLEMENTARY SHEET			
	formation for background well VH19-2. The construction records of the monitor well to N This well will be used as a replacement for V	licensee will submit fir RC upon completion. /H19-2.	al .	
	[Applicable Amendments: 9, 11, 13, 15, 25, 35, 4	10]		
35.	The licensee shall submit to the NRC, copies of a Mexico Environmental Improvement Division. [Application]	Ill correspondence with oplicable Amendments	n the New : 11]	
36.	The licensee is authorized to dispose of byproduc Mining Corp. Smith Ranch in situ leach facility in February 19, 1990, and September 26, 1991, with additions:	ct material waste from accordance with the s h the following modific	the Rio algom ubmittals dated, ations or	
	A. The written procedures, included in the Febr reviewed and revised in accordance with Lic	uary 19, 1990, submit ense Condition No. 14	tal shall be	
	B. Prior to disposal of drums containing sludge written confirmation from Rio Algom Mining verified to be full or the verification shall be personnel.	material, the licensee Company that the drun performed by Ambrosia	shall obtain ns have been a Lake	
	<ul> <li>C. Drums containing wastes other than sludges disposed directly into excavated trenches</li> <li>D. All disposal activities shall be documented</li> </ul>	shall be opened and Applicable Amendme	the wastes nts: 16, 23]	
37.	The licensee shall reclaim the disposal area as st January 7, 1994, submittals as supplemented by recognized as conservative, these conditions wer acceptability of the reclamation plan as submitted of acceptable design alternatives. Justification fo submitted for NRC review and approval prior to in	ated in the September the following condition re assumed when eval l, and are identified pe r any design alternativ nplementation.	24, 1990, and is. Though uating the nding submittal res must be	
	A. The radon barrier shall be constructed as sp 28, 1990, submittal, as amended by the Feb November 4, 1994, submittals. Prior to place cover, the procedure defined in the licensee' establishing the integrity of the in-place mate	ecified in the licensee' ruary 7, August 2, Sep ement of any material s October 4, 1990, sul erial must be performed	s September otember 2, and onto the interim omittal for d.	
	B. DELETED by Amendment No. 19.			
	C. The relocated contaminated material shall be inches and compacted to at least 90 percent after a stable work base has been established	e placed in lifts not to e of the maximum stand d.	exceed 12 dard dry density	
	D. In place density and moisture laboratory com guality testing shall be performed in	paction, soil classifica	tion, and rock	
	accordance with the licensee's September 2	3, 1990, submittal. If t	est procedures	

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(7-94)		-		Theorem etc.	Mosierr	License Nun	nb. 1473	Amen	 d No. 42		PAGES	
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		MATERIAI SUPPLEME	JS LICEN: JTARY SHE	SE ET		Docket or Re	ference Number	40	)-8905			
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<u> </u>						L				<u> </u>		_
		other than t	the sand (	cone test or over	י drv mc	isture ar	e used in th	e con	struction	1		
		quality conf	trol, proce	dures that will be	e used t	o establi	sh correlatic	on bet	ween the	Э		
		tests must l	be submit	ted for NRC revie	ew and	approval	prior to imp	lemer	ntation.			
	F	A detailed (	cover desi	ion for Ponds 11	-21 mus	et he sub	mitted for N	RC re	view and	ч		
	<b>L</b>	approval. /	All contam	inated materials	in Ponc	1 3 that a	are not cove	red by	y the	4		
		reclaimed F	ond 1 ou	tslope shall be re	elocated	I to Pond	I 2 unless ar	n eros	sion			
		protection p	olan is sub	mitted for NRC	review a	ind appro	oval.					
	F.	The settlen	nent surve	v data shall be a	submitte	d for NR	C review ar	id app	proval pri	ior		
	• •	to placeme	nt of the r	adon barrier on	the inter	im/cover	•					
	~	-	-+		- 4 6 4 6							
	G.	Ine tresh w	vater oam	mill reservoir mu	ist de di	reachea	during final	reciai	nation			
		GOUTINGS.	Concession of the second	• •			Ö				:	
	H.	Settlement	,monumer	nts shall consist	of a ster	el bar we	Ided to a 1-	foot s	quare ste	eel		
		plate, or eq	uivalent	placed at least 3	feet be	low the s	urface. 🔬					
	I.	The fill ass	ociated wi	th the Pond 1 sr	billway s	hall be c	onstructed	o the	same			
		specificatio	ns and qu	ality control pro	gram as	the rado	on barrier m	ațerial	I.			
		K - colk co			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		the batacle	s Slicor	saa sha	11		
	J.	submit the	urce other results of	durability tests a	stake un	dany is s ed in the	Final Staff	Flicen Techr	see snai ical	ut L		
		Position on	Design	f Erosion Protec	tion, Au	güst 199	0, for NRC	review	v and			
		approval pr	ior to plac	ement of any of	the mat	erial.						
	r		) hall he ni:	aced in a manne	that n	ovents s	Corection	of the	matorial	1		
	n.	The materia	al placed :	shall be reasona	blv well	araded :	and shall be	within	n the	•		1
		following gr	adations	pecifications	100	3-478	10.		• -			
3		<b>–</b>	- 1 0"	e. La		1 Alexandre						
		<u>n</u>	<sub>50</sub> = 1.0			\$	$D_{50} = 3.2$					
				AN X	- Jac	V						
			Per	cent Passing		<b>.</b> .	Perc	cent P	assing			
		Sieve Size	<u>(by</u>	<u>( weight)</u>	Sieve	Size	(by weight	.)				
		3 inch	100		6 in	ch	100					
		2 inch	70-100		5 ine	ch	78-100					
		1 inch	25-55		4 inc	ch	35-100					
		¾ inch	15-40		3 inc	ch ch	12-45 0-20					
		72 INCH	U- 23 -		2 111	20	U- 20					
				<u>D<sub>50</sub> = 7</u>	<u>′.7"</u>							
· ·					<b>D</b> - 444	• D	× _					
			Siev	a Siza	Perce /hy y	nt Passir	ig -					
- ·			0101	<u>e 0126</u>		/eigity						
			13	inch	1(	00						
1			. 12	inch	80-	100						

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		400	
	10 Inch 49-	100 · · · ·	
	6 inch 7-	32	
	4 inch 0-	13	
		f d task shall be placed upday	
	riprap on the disposal area having a $D_{50}$ of 2	inches or larger.	
	The bedding material shall be reasonably we	Il graded to prevent migration	n of the
	base material into the riprap. The quality of the equivalent to that of the riprap.	he bedding material shall be	
	my but here is a		
	M. A riprap filled toe trench shall be placed on the existing steep slopes transition onto the flatte	ne West'side of Pond 2 where er surface of Pond 2.	e the
	The licensee shall submit a proposed design	of the trench for NRC review	and
	approval prior to construction.		
	N. The spillway riprap shall be extended 45 feet erosion.	onto the top of Pond 1 to pre	event
	O. Riprap with a $D_{50}$ of 1 inch shall be placed in	all areas of the South Diversi	ion Ditch
	which are not excavated in rock		
	P. As an alternative to the erosion protection de and 2, which was approved in Amendment.	sign of the top surfaces of Po o-18, the licensee may use a	onds 1 a 3-inch
	layer of riprap having a minimum median sto	ne diameter (D <sub>50</sub> ) of 1-inch.	
	[Applicable Amendments: 18, 19, 29, 31]		
38.	The licensee is authorized to perform yellowcake	drying in accordance with the	•
	October 22 submittal, the licensee shall comply w	ith the following:	
	A. Air sampling used to determine the exposure uranium shall include breathing zone samplin	of yellowcake operators to a ig at the yellowcake barrelling	irborne g station.
	B. Water flow rates for the wet scrubber servicir checked and recorded hourly during operatio established which assure optimum performance optimum performance.	ng the yellowcake dryer shall n and a range of flow rates nce of the scrubber.	be
	C. Detailed inspection, cleaning, and needed pr performed and documented at least annually control equipment.	eventive maintenance shall b on all yellowcake area emiss	e .ion
	<ul> <li>D. Written procedures shall be reviewed and ap Condition No. 14. [Applicable Amendments:</li> </ul>	proved in accordance with Lie 20]	cense
30	The licensee shall conduct an annual survey of la	nd use (grazing, residences y	water

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40.	supply wells, etc.) in the area within two miles of survey annually to the NRC. This report shall ind that described in the licensee's previous annual r occupancy of the Berryhill Ranch. The report sha [Applicable Amendments: 21] The licensee shall complete site reclamation in an reclamation plan and groundwater corrective plan	the mill and submit a report of this licate any differences in land use from eport, and shall specifically address all be submitted by July 1 of each year. ccordance with an approved n, as authorized by License Condition
	<ul> <li>Nos. 37 and 34, respectively, in accordance with</li> <li>A. To ensure timely compliance with target com Memorandum of Understanding with the Em 55432, October 25, 1991), the licensee shal radon emissions as expeditiously as practica feasibility, in accordance with the following s</li> <li>(1) Windblown tailings retrieval and pl 1999. Areas inaccessible due to a be addressed during final mill deco Amendments: 38, 42]</li> <li>(2) Placement of the interim cover to or dispersal and erosion - For impoundment No. 1 - D For impoundment No. 2 ex byproduct material disposa</li> <li>(3) Placement of a final radon barrier or radon emissions to an average flux background - For impoundment No. 2, ex byproduct material disposa</li> </ul>	the following schedules. hpletion dates established in the vironmental Protection Agency (56 FR I complete reclamation to control able, considering technological schedule: acement on the pile - December 31, activities authorized by this license will bommissioning. [Applicable decrease the potential for tailings decrease the potential for approved I - December 31, 1993 cluding portions used for approved I - December 31, 1997. cluding portions used for approved becember 31, 1997. cluding portions used for approved L - December 31, 1997. cluding portions used for approved I - December 31, 1997. cluding portions used for approved L - Decembe
	<ul> <li>B. Reclamation, to ensure required longevity of protection, shall be completed as expeditious accordance with the following target dates for</li> <li>(1) Placement of erosion protection as Criterion 6 of Appendix A of 10 CF</li> </ul>	the covered tailings and groundwater sly as is reasonably achievable, in or completion: a part of reclamation to comply with R Part 40 -
	<ul> <li>For impoundment No. 2, ex byproduct material disposal</li> <li>(2) Projected completion of groundwat performance objectives specified ir</li> </ul>	cluding portions used for approved - December 31, 1999. ter corrective actions to meet n the groundwater corrective action

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1. <b>.</b>	•	License NumbSUA-1473, Am	iend No. 42	
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	plan - December 31, 2043.			
	C. Any license amendment request to revise th Section A must demonstrate that compliance including inclement weather, (litigation which other factors beyond the control of the licens	e completion dates spece e was not technologically n compels delay to reclar see).	cified in y feasible mation, or	
	D. Any license amendment request to change to must address added risk to the public health due consideration to the economic costs inv request such as delays caused by inclement and other factors beyond the control of the l	the target dates in Section and safety and the env olved and other factors tweather, regulatory del icensee.	on B above, ironment, with justifying the ays, litigation,	
41.	In accordance with the licensee's submittals date 1996, January 24, 1997, and February 13, 1997, authorized to dispose of 11e (2) byproduct mater chemical, and radiological characteristics to the 1 associated wastes already within the impoundment	d November 20, 1995, M the licensee is hereby ials that are similar in ph 1e.(2) byproduct materi ent subject to the followir	May 9, nysical, al and ng:	
	A. Prior to receipt of any material under this lice provide an analysis of the costs of reclamati amount of byproduct authorized by this cond necessary, provide a revision to the surety	ense condition, the licen on based on disposal of dition (5.3 million tons), a	see shall the maximum and if	
	B. The facility is authorized to dispose of up to (7,650 m <sup>3</sup> ) of 11e.(2) byproduct material per	10,000 cubic yards year from each generat	or.	
	C. Total annual receipt and disposal/of 11e (2) 100,000 cubic yards (76,500 m <sup>3</sup> ) from all gei	byproduct material shall nerators.	not exceed	
	D. The total 11e(2) byproduct material to be dis generators is limited to 5.3 million tons (3.8 r	posed of from all million yds³).		
	E. Average annual Ra-226 concentrations of di exceed 1100 pCi/g (41 Bq/g) from any gener	sposed material shall no rator	ot .	
	F. All contaminated equipment shall be disman minimize void spaces. Barrels shall be verifi not completely full shall be filled or emptied a	tled, crushed, perforated ed to be full prior to disp and crushed prior to fina	d or placed to oosal. Barrels i disposal.	•
	G. Byproduct material shall be free of standing	liquids.		
	<ul> <li>All disposal activities shall be documented. description of the byproduct material, the dis acceptance testing. The licensee shall main termination.</li> </ul>	The documentation shal posal locations, and the tain documentation until	l include a results of pre- license	
	I. The licensee shall submit a final reclamation	plan upon the end of re	ceipt	

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Dated: 🗧	2/26/99 N. King St	ablein, Acting Chief		
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