U.S. NUCLEAR REGULATORY COMMISSION

PAGES

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, 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 UNC Mining and Milling Division of United Nuclear Corporation	3. License Number	SUA-1475, Amendment No. 30
² P.O. Box 3077 Gallup, New Mexico 87305-3077	Expiration Date Docket or Reference No.	Until NRC determines site Reclamation is adequate 40-8907
	#:	

6. Byproduct, Source, and/or Special Nuclear Material

Uranium byproducts

- 9.
- 10.
- A. Expiration Date

 4. Expiration Date

 5. Docket or Reference No.

 40-8907

 duct, Source, and/or Nuclear Material

 7. Chemical and/or Physical Reclamation is adequate

 40-8907

 Authorized place of use: The licensee's uranium milling facilities located in McKinley County, New Mexico.

 The licensee is hereby authorized to possess byproduct material in the form of uranium waste tailings and other byproduct wastes generated by the licensee's past milling operations. [Applicable Amendment: 17]

 Release of equipment or packages from the restricted area shall be in accordance with the attachment to this license entitled, "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material," dated August 1987.

 The mill site and buildings are released for unrestricted use, and the restricted areas will be limited to the tailings site, as described in UNC's letter dated November 10, 1993

 [Applicable Amendment: 21]

 The results of all effluent and environmental monitoring required by this license shall be reported in accordance with Title 10 of the Code of Federal Regulations Part 40, Section 65, with copies of the report sent to the NRC. Monitoring data shall be reported in the format shown in the attachment to this license entitled, "Sample Format for Reporting Monitoring Data." [Applicable Amendment: 21]

 Before engaging in any activity likely to cause an environmental impact not previously assessed 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 previously assessed or that is greater than that previously assessed, the license shall provide 11.

- 12.
- 13.

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] -			

a written evaluation of such activities, and obtain prior approval of the NRC in the form of a license amendment.

[Applicable Amendment: 21]

- 14. Prior to termination of this license, the licensee shall provide for transfer of title to byproduct material and land, including any interests therein (other than land owned by the United States or the State of New Mexico), which is used for the disposal of such byproduct material or is essential to ensure the long-term stability of such disposal site to the United States or the State of New Mexico at the State's option.
- 15. DELETED by Amendment No. 19.
- 16. DELETED by Amendment No. 29.
- 17. DELETED by Amendment No. 17.

The results of sampling, analyses, surveys and monitoring, the results of calibration of equipment, reports on audits and inspections, all meetings and training courses required by this license and any subsequent reviews, investigations, and corrective actions, shall be documented. Unless otherwise specified in the NRC regulations all such documentation shall be maintained for a period of at least 5 years.

- 19. The Radiation Safety Officer (RSO) shall possess the minimum qualifications as specified in Section 2.4.1 of Regulatory Guide 8.31, "Information Relevant to Ensuring that Occupational Radiation Exposures at Uranium Mills will be As Low As is Reasonably Achievable." [Applicable Amendment: 19]
- 20. Written procedures shall be established for the radiation safety and environmental monitoring programs, bioassay analyses, instrument calibrations, exposure determinations, ground-water sampling, etc. A current copy of each written procedure shall be maintained on-site. [Applicable Amendment: 17]
- The licensee shall be required to use a Radiation Work Permit (RWP) for all work or nonroutine maintenance jobs where the potential for significant exposure to radioactive material exists and for which no standard written procedure already exists. The RWP shall be issued by the RSO or his designate, qualified by way of specialized radiation protection training, and shall at least describe the following:

- A. The scope of the work to be performed.
- B. Any precautions necessary to reduce exposure to uranium and its daughters.

MATERIALS LICENSE SUPPLEMENTARY SHEET C. The supplemental radiological monitoring and sampling necessary prior to, during, and following completion of the work. DELETED by Amendment No. 29. Mill tailings, other than small samples for purposes such as research or analysis, 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. DELETED by Amendment No. 19.	NRC FO	RM 374A	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 3 OF 7 PAGES
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40, 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 tallings or waste disposal areas, ground-water restoration as warranted, and the long-term surveillance fee. Annual updates to the surety amount, required by 10 CFR 40, Appendix A, Criteria 9 and 10, shall be submitted to the NRC by March 31 of each year. Along with each proposed revision of the surety amount or annual update, the licensee shall submit supporting documentation, showing a breakdown of costs and the basis for the cost estimates with adjustments for inflation, maintenance of a minimum 15 percent contingency fee, changes in engineering plans, activities performed, and any other conditions affecting estimated costs for site closure. The basis for the cost estimate is the NRC-approved reclamation/decommissioning plan as identified in License Condition Nos. 30 and 34, or NRC-approved revisions to the plan. The attachment to this license entitled, "Recommended Outline for Site Specific Reclamation and Stabilization Cost Estimates," outlines the minimum considerations used by the NRC in the review of site closure cost estimates. Reclamation/ decommissioning plans and annual updates should follow this outline. The licensee's currently approved surety, a performance bond issued by the, American Home Assurance Company of New York, in favor of the NRC, shall be continuously maintained in an amount of no less than \$1,468,787 for the purpose of complying with 10 CFR 40, Appendix A, Criteria 9 and 10, until a replacement is authorized by the NRC. The licensee shall maintain a standby trust for the benefit of the NRC. The current established trust is with the Federal Insurance Company. The licensee shall also continuously maintain an irrevocable standby letter of credit in favor of the United States Environmental Protection Agency, in an amount no less than \$2,000,000, for the purpose of complying with 10 CFR 40, Appe	24.	DELET	ΓED by Amendment No. 19.	
United States Environmental Protection Agency, in an amount no less than \$2,000,000, for the purpose of complying with 10 CFR 40, Appendix A, Criterion 9. The issuing institution shall be an entity which has the authority to issue such instruments and whose operations are regulated and examined by a Federal or State agency. The licensee shall inform the NRC of changes to this letter of credit within 30 days of any such change. The amount of this letter of credit shall not be reduced without prior NRC approval.	25.	Annual submitted amount of cost 15 per conditional approximates and are a submitted approximates and a submitted approximates a submitted approximates and a submitted approximates a submitted a submitted approximates a submitted approximates a submitted a submitted approxim	pendix A, Criteria 9 and 10, adequate to cover the for decommissioning and decontamination of the redisposal areas, ground-water restoration as warrant lupdates to the surety amount, required by 10 CF ted to the NRC by March 31 of each year. Along water annual update, the licensee shall submit supples and the basis for the cost estimates with adjusting cent contingency fee, changes in engineering plan ons affecting estimated costs for site closure. The red reclamation/decommissioning plan as identified approved revisions to the plan. The attachment to be Specific Reclamation and Stabilization Cost Estimated updates should follow this outline. The rensee's currently approved surety, a performance ance Company of New York, in favor of the NRC, seess than \$1,468,787 for the purpose of complying till a replacement is authorized by the NRC. The life	estimated costs, if accomplished by a third nill and mill site, reclamation of any tailings or nted, and the long-term surveillance fee. R 40, Appendix A, Criteria 9 and 10, shall be with each proposed revision of the surety orting documentation showing a breakdown nents for inflation, maintenance of a minimum is, activities performed, and any other a basis for the cost estimate is the NRC-d in License Condition Nos. 30 and 34, or this license entitled, "Recommended Outline nates," outlines the minimum considerations ares. Reclamation/ decommissioning plans about the bond issued by the, American Home shall be continuously maintained in an amount with 10 CFR 40, Appendix A, Criteria 9 and censee shall maintain a standby trust for the
[Applicable Amendments: 13, 18, 22, 26, 27, 28, 30]		United purpose entity vexamination of creating to the contract of the contract	States Environmental Protection Agency, in an arms of complying with 10 CFR 40, Appendix A, Crite which has the authority to issue such instruments and by a Federal or State agency. The licensee slatt within 30 days of any such change. The amount	mount no less than \$2,000,000, for the erion 9. The issuing institution shall be an and whose operations are regulated and hall inform the NRC of changes to this letter
		[Applic	cable Amendments: 13, 18, 22, 26, 27, 28, 30]	

- C. The supplemental radiological monitoring and sampling necessary prior to, during, and following completion of the work.
- 22. DELETED by Amendment No. 29.
- 23. Mill tailings, other than small samples for purposes such as research or analysis, 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.
- DELETED by Amendment No. 19. 24.

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(1-04)			License Number SUA-1475, Amendment No. 30
		MATERIALS LICENSE	Docket or Reference Number
		SUPPLEMENTARY SHEET	40-8907
26.	DELE	TED by Amendment No. 17.	
27.	DELE	TED by Amendment No. 2.	
28.	DELE	TED by Amendment No. 29.	
29.	The lic	censee shall comply with the following regarding the	e bioassay program:
	A.	The lower limit of detection to be utilized for the auuranium or less.	nalysis of urine samples shall be 5 μg/l
	B.	In-vivo counting shall be performed in accordance dated January 1987.	with Section 3 of Regulatory Guide 8.22
	C.	Anytime an action level of 15 µg/l uranium for uring measurement is reached or exceeded, the license which have been performed in accordance with R January 1987. This documentation shall be submareport required by 10 CFR 40.65.	ee shall document the corrective actions evision 1 of Regulatory Guide 8.22, dated
	D.	Anytime an action level of 35 µg/l for two consecus specimen for urinalysis or 16 nCi uranium for an inthe licensee shall document the corrective actions with Revision 1 of Regulatory Guide 8.22. This do within 30 days of exceeding the action level.	ntive specimens or 130 µg/l uranium for one 1-vivo measurement is reached or exceeded, which have been performed in accordance ocumentation shall be submitted to the NRC,
	[Applio	cable Amendments: 2, 21]	
30.	The lic	ensee shall implement a compliance monitoring pr	ogram containing the following:
	Α.	Sample wells GW-1-4; EPA Wells 1-28 and EPA-21, 22, 24 and 26); and Wells 411, 420, 501-B, 50604, 614, 619, 632, TWQ-90, TWQ-106D, TWQ-2a quarterly frequency for chloride, nitrate, sulfate sodium, bicarbonate, potassium, field-pH, TDS ar frequency for arsenic, beryllium, cadmium, chlorotradium-226 and 228, selenium, thorium-230, uran 126 shall be monitored for water level quarterly.	D2-B, 504-B, 509-D, 515A, 516A, 517, 518, 29A, TWQ-141, TWQ-142 and TWQ-143, on ammonia, manganese, calcium, magnesium, and water level, and on a semiannual form, lead, lead-210, nickel, combined
		Notwithstanding the above, the licensee is only rewritten authorization by the land owner to enter the groundwater from those specified wells. The licentation such authorization. If authorization is not opromptly.	equired to sample EPA wells after receipt of at area for the purpose of sampling assee shall make every reasonable effort to obtained, the licensee shall inform the NRC,

- 26. DELETED by Amendment No. 17.
- 27. DELETED by Amendment No. 2.
- 28. DELETED by Amendment No. 29.
- 29. The licensee shall comply with the following regarding the bioassay program:
 - Α. The lower limit of detection to be utilized for the analysis of urine samples shall be 5 µg/l uranium or less.
 - In-vivo counting shall be performed in accordance with Section 3 of Regulatory Guide 8.22 B. dated January 1987
 - C. Anytime an action level of 15 µg/l uranium for urinalysis or 9 nCi of natural uranium for in-vivo measurement is reached or exceeded, the licensee shall document the corrective actions which have been performed in accordance with Revision 1 of Regulatory Guide 8.22, dated January 1987. This documentation shall be submitted to the NRC, as part of the semiannual report required by 10 CFR 40.65.
 - D. Anytime an action level of 35 µg/l for two consecutive specimens or 130 µg/l uranium for one specimen for urinalysis or 16 nCi uranium for an in-vivo measurement is reached or exceeded, the licensee shall document the corrective actions which have been performed in accordance with Revision 1 of Regulatory Guide 8.22. This documentation shall be submitted to the NRC, within 30 days of exceeding the action level.

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- 30. The licensee shall implement a compliance monitoring program containing the following:
 - Sample wells GW-1-4; EPA Wells 1-28 and EPA-22A (excepting EPA Wells 6, 10, 16, 19, 20, Α. 21, 22, 24 and 26); and Wells 411, 420, 501-B, 502-B, 504-B, 509-D, 515A, 516A, 517, 518, 604, 614, 619, 632, TWQ-90, TWQ-106D, TWQ-29A, TWQ-141, TWQ-142 and TWQ-143, on a quarterly frequency for chloride, nitrate, sulfate ammonia, manganese, calcium, magnesium, sodium, bicarbonate, potassium, field-pH, TDS and water level, and on a semiannual frequency for arsenic, beryllium, cadmium, chloroform, lead, lead-210, nickel, combined radium-226 and 228, selenium, thorium-230, uranium, gross alpha and vanadium. Well TWQ-126 shall be monitored for water level quarterly.

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Comply with the following groundwater protection standards at point of compliance Wells GW-1. GW-2. 632, EPA-23, EPA-28, 509-D and EPA-22A in the alluvium; 614, 604, EPA-4, EPA-7

gross alpha = 15.0 pCi/l, lead = 0.05 mg/l, lead-210 = 1.0 pCi/l, nickel = 0.05 mg/l, radium-226

MATERIALS LICENSE SUPPLEMENTARY SHEET

B. Comply with the following groundwater protection standards at point of compliance Wells C. 1, GW-2, 632, EPA-29, EPA-29, 509-D and EPA-22A in the alluvium; 614, 604, EPA-4, EP and 516-A in Zone 1; and 517, 518, EPA-3, 501-B and EPA-18 in Zone 3: arsenic = 0.05 mg/l, beryllium = 0.05 mg/l, caldruin = 0.01 mg/l, chloroform = 0.001 mg/l, gross slpha = 16.0 pCi/l, lead = 0.05 mg/l, lead-210 = 1.0 pCi/l, incles = 0.05 mg/l, and 228 = 5.0 pCi/l, selenium = 0.01 mg/l, lead-205 = 0.0 pCi/l, uranium = 0.3 mg/l and vanadium = 0.1 mg/l.

C. Implement a corrective action program in Zone 1 in accordance with the June 14, 1990, an July 1, 1991, amendment requests with the addition of EPA-7 as a seepage collection well mplement a corrective action program in Zone 1 in accordance with Yamendment 1. Reclamation Plan, License No. SUA-1475's submitted by letter dated July 26, 1988, with the exception that wells 608, 702, 720, 712, 713, 714 and 715 mg/l be utilized as swater left when the alluvium in accordance with Yamendment 12, Reclamation Plan (License No. SUA-1475's submitted by letter dated March 29, 1989, with the extention program the alluvium in accordance with Yamendment 12, Reclamation Plan (License No. SUA-1475's submitted by letter dated March 29, 1989, with the decimation Plan (License No. SUA-1475's submitted by letter dated March 29, 1989, with the decimation Plan (License No. SUA-1475's submitted by letter dated March 29, 1989, with the decimation Plan (License No. SUA-1475's submitted by letter dated March 29, 1989, with the decimation Plan (License No. SUA-1475's submitted by letter dated March 29, 1989, with the decimation Plan (License No. SUA-1475's submitted by letter dated March 29, 1989, submitted by March 200 march 200 march 200 march 200 march 200 march 200 Implement a corrective action program in Zone 1 in accordance with the June 14, 1990, and July 1, 1991, amendment requests, with the addition of EPA-7 as a seepage collection well. Reclamation Plan, License No. SUA-1475" submitted by letter dated July 26, 1988, with the monitor wells rather than seepage collection wells. Implement a corrective action program in the alluvium in accordance with "Amendment 2, Reclamation Plan, License No. SUA-1475" submitted by letter dated March 29, 1989, with the objective of returning the concentrations of arsenic, beryllium, cadmium, chloroform, gross alpha lead, lead-210, nickel, radium-226 and Subsection (B). No corrective action program component, meeting the abandonment criteria stated in the March 29, 1989, submittal, shall be decommissioned without obtaining prior NRC approval. Additionally, a fourth seepage collection well shall be installed and operated in the

The licensee shall on a semiannual frequency, submit a ground-water monitoring report as well as submit a corrective action program review, by December 31 of each year, that describes the progress towards attaining ground-water protection standards. In the 1994 corrective action program review,

The licensee shall conduct an annual survey of land use (grazing, residence, wells, etc.) in the area within two miles of the mill and submit a report of this survey annually to the NRC. This report shall indicate any differences in land use from that described in the licensee's previous annual report. The report shall be submitted by March 31 of each year. Notwithstanding the above, if access to private

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(, , ,			License Number			
		MATERIALCIICENCE	SUA-1475, Ame		30	
		MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference N	40-8907		
		·	<u> </u>			
32.	with t	censee is authorized to construct and operate an ene system described in the submittal dated June 14 tration system shall be designed as described in the tional schedule similar to that of the central cell.	4, 1990. The so	outhern cell	enhanced	
	[Appli	cable Amendments: 2, 7, 15]				
33.	DELE	TED by Amendment No. 17.				
34.		pproved tailings reclamation plan is that submitted ed by licensee submittals dated March 5, April 10	89 AN AN	_	30, 1991, a	nd
	[Appli	cable Amendments: 10, 17, 24, 25]				
35.	groun	censee shall complete site reclamation in accordar dwater corrective action plan, as authorized by lice ordance with the following schedules.				
	A.	To ensure timely compliance with target complete Understanding with the Environmental Protection the licensee shall complete reclamation to contropracticable, considering technological feasibility,	Agency (56 FR I radon emission	₹ 55 <mark>43</mark> 2, Oct ns as exped	ober 25, 19 itiously as	91),
	ig.	(1) Windblown tailings retrieval and placement	on the pile - con	nplete.		
		(2) Placement of the interim cover to decrease to complete.	the potential for	tailings disp	ersal and e	rosior
		(3) Placement of final radon barrier designed ar average flux of no more than 20 pCi/m²/s ab				
	B.	Reclamation, to ensure required longevity of the shall be completed as expeditiously as is reasonatellowing target dates for completion.				
		(1) Placement of erosion protection as part of re Appendix A of 10 CFR Part 40 - December 3		omply with C	riterion 6 of	:
		(2) Projected completion of groundwater correct specified in the groundwater corrective action		•		tives
		[Applicable Amendment: 23]				
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	MATERIALS LICENSE	Docket or Reference Number 40-8907	
	SUPPLEMENTARY SHEET		
C.	Any license amendment request to revise the co- demonstrate that compliance was not technologi litigation which compels delay to reclamation, or licensee).	cally feasible (including inclement weather,	
D .	Any license amendment request to change the ta added risk to the public health and safety and the economic costs involved and other factors justify inclement weather, regulatory delays, litigation, a licensee.	e environment, with due consideration to the ing the request such as delays caused by	e e
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	FOR	THE NUCLEAR REGULATORY	
	CON	MISSION	
		Minus tt En	
Date: Man	17, 1000 Thor	nas H. Essig, Chief 🦭	
	NAME OF THE PARTY	ium Recovery and	
		w- Level Waste Branch ion of Waste Management	
		e of Nuclear Material Safety	
		Safeguards	
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