NRC FO	NRC FORM 374 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 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			
<ol> <li>UNC Mining and Milling Division of United Nuclear Corporation</li> </ol>			3. License Number SUA-1475 Amendment No. 35
2. P.O. Box 3077 Gallup, New Mexico 87305-3077		JUCLEAR	<ul> <li>4. Expiration Date: Until NRC determines site Reclamation Is Adequate</li> </ul>
	0		5. Docket No. 40-8907
	- Lij		Reference No.
<ul> <li>Byproduct Source, and/or Special Nuclear Material</li> <li>7. Chemical and/or Physical Form</li> <li>8. Maximum amount that Licensee May Possess at Any One Time Under This License</li> </ul>			May Possess at Any One Time Under This License
Uı	anium byproducts	Any	Unlimited
9.	9. Authorized place of use: The licensee's uranium milling facilities located in McKinley County, New Mexico.		
10. 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]			
11.	11. Release of equipment or packages from the restricted area shall be in accordance with guidance 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 198		
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]		]	
12.	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 guidance entitled, "Sample Format for Reporting Monitoring Data."		
[Applicable Amendment: 21]			
13.			environmental impact not previously assessed by the nvironmental evaluation of such activity. When the

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evaluation indicates that such activity may result in a sig	inificant adverse environmental impact that		
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	was not previously assessed or that is greater than that written evaluation of such activities, and obtain prior appramendment.	
	[Applicable Amendment: 21]	
14.	Prior to termination of this license, the licensee shall pro and land, including any interests therein (other than land New Mexico), which is used for the disposal of such byp long-term stability of such disposal site to the United Sta option.	d owned by the United States or the State of product material or is essential to ensure the
15.	DELETED by Amendment No. 19.	77
16.	DELETED by Amendment No. 29.	And I
17.	DELETED by Amendment No. 17.	i i i i i i i i i i i i i i i i i i i
18.	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 m 2.4.1 of Regulatory Guide 8.31, "Information Relevant to Exposures at Uranium Mills will be As Low As is Reason	o Ensuring that Occupational Radiation hably Achievable."
	[Applicable Amendment: 19]	
20.	Written procedures shall be established for the radiation bioassay analyses, instrument calibrations, exposure de current copy of each written procedure shall be maintain	eterminations, ground-water sampling, etc. A
21.	The licensee shall be required to use a Radiation Work maintenance jobs where the potential for significant exp which no standard written procedure already exists. The designate, qualified by way of specialized radiation prote following:	osure to radioactive material exists and for e RWP shall be issued by the RSO or his
	A. The scope of the work to be performed.	
	B. Any precautions necessary to reduce exposure to	uranium and its daughters.

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	C. The supplemental radiological monitoring and sam completion of the work.	pling necessary prior to, during, and following	
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.		
24.	DELETED by Amendment No. 19.		
25.	The licensee shall maintain an NRC-approved financial surety arrangement, consistent with 10 CFR 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 tailings 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 Federal Insurance Company of New Jersey, in favor of the NRC, shall be continuously maintained in an amount of no less than \$2,693,991 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 standby trust is administered by the Bank of New York.		
	"The licensee shall also continuously maintain financial assurance in favor of the United States Environmental Protection Agency, in an amount no less than \$2,000,000. Such financial assurance my be provided by one or more of the methods set forth at 10 CFR 40 and 40 CFR 264, Subpart H, including use of a Financial Test and Parent Company Guarantee. The licensee shall inform the NRC of any changes to financial assurance within 30 days of such change. The amount of this financial assurance shall not be reduced without prior NRC approval."		

[Applicable Amendments: 13, 18, 22, 26, 27, 28, 30, 33, 34, 35]

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	I		
26. DELETED by Amendment No. 17.			
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arsenic = 0.05 mg/l, beryllium = 0.05 mg/l, cadmiur alpha = 15.0 pCi/l, lead = 0.05 mg/l, lead-210 = 1.0 5.0 pCi/l, selenium = 0.01 mg/l, thorium-230 = 5.0 = 0.1 mg/l.	0 pCi/l, nickel = 0.05 mg/l, radium-226 and 228 = pCi/l, uranium = 0.3 mg/l and vanadium
C. Implement a corrective action program in Zone 1 in 1, 1991, amendment requests, with the addition of the groundwater standards in License Condition 30 Implement a corrective action program in Zone 3 to Condition 30.B. Groundwater pumping in Zone 3 to concentration trends for future remedial action for the NRC. A Post-Pumping Evaluation Report mus 2001. This report must use tables, graphs, and iso trends. If necessary, as determined by the NRC, submitted to the NRC by June 1, 2002. If NRC stal licensee must submit either a modified active corre concentration limits (ACLs) or an alternative to the Appendix A in accordance with 84.c of the Atomic	EPA-7 as a seepage collection well to achieve 0.B. o achieve the groundwater standards in License will cease temporarily to determine groundwater a period of 12 to 18 months, as determined by t be submitted to the NRC by December 1, o-contour maps to illustrate groundwater quality a Post-Pumping Evaluation Report must be andards are still exceeded on June 1, 2002, the ective action plan, an application for alternate specific requirements of 10 CFR Part 40,
Implement a corrective action program in the South 2, Reclamation Plan, License No. SUA-1475" subr the groundwater standards in License Condition 30 cease temporarily to determine groundwater conce period of 12 to 18 months, as determined by the N be submitted to the NRC by December 1, 2001. T contour maps to illustrate groundwater quality tren Post-Pumping Evaluation Report must be submitted standards are still exceeded on June 1, 2002, the corrective action plan, an application for alternate of the specific requirements of 10 CFR Part 40, Appe Energy Act (AEA) by August 1, 2002.	nitted by letter dated March 29, 1989, to achieve D.B. Groundwater pumping in the alluvium will entration trends for future remedial action for a IRC. A Post-Pumping Evaluation Report must his report must use tables, graphs, and iso- ds. If necessary, as determined by the NRC, a ed to the NRC by June 1, 2002. If NRC licensee must submit either a modified active concentration limits (ACLs) or an alternative to
No corrective action program component, meeting March 29, 1989, submittal, shall be decommission Additional wells must be installed in Zone 3 and th groundwater contamination. Once these wells hav accordance with the groundwater monitoring progr	ed without obtaining prior NRC approval. e Southwest Alluvium to determine the extent of /e been installed, they will be sampled in
The licensee shall, on a semiannual frequency, su submit a corrective action program review, by Decorprogress towards attaining ground-water protection	ember 31 of each year, that describes the

[Applicable Amendments: 2, 4, 5, 7, 11, 19, 21, 32]

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			License Number SUA-1475
	MATERIALS LICENSE SUPPLEMENTARY SHEET       Docket or Reference Number 40-8907         31. 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 lands is required, the licensee is only required to conduct such survey after receipt of written authorization by the land owner allowing UNC access for the purpose of conducting said survey.         [Applicable Amendments: 2, 21]		
			Amendment No. 35
			urvey annually to the NRC. This report shall d in the licensee's previous annual report. The otwithstanding the above, if access to private act such survey after receipt of written
3	32.	The licensee is authorized to construct and operate an enhanced evaporation system in accordance with the system described in the submittal dated June 14, 1990. The southern cell enhanced evaporation system shall be designed as described in the June 29, 1992, submittal and have an operational schedule similar to that of the central cell.	
[Applicable Amendments: 2, 21]			
3	32.	The licensee is authorized to construct and operate an with the system described in the submittal dated June evaporation system shall be designed as described in operational schedule similar to that of the central cell.	14, 1990. The southern cell enhanced

[Applicable Amendments: 2, 7, 15]

- 33. DELETED by Amendment No. 17.
- 34. The approved tailings reclamation plan is that submitted by the licensee on August 30, 1991, and modified by licensee submittals dated March 5, April 10 and June 21, 1996.

[Applicable Amendments: 10, 17, 24, 25]

- 35. The licensee shall complete site reclamation in accordance with the approved reclamation plan and groundwater corrective action plan, as authorized by license Condition Nos. 34 and 30, respectively, in accordance with the following schedules.
  - A. To ensure timely compliance with target completion dates established in the Memorandum of Understanding with the Environmental Protection Agency (56 FR 55432, October 25, 1991), the licensee shall complete reclamation to control radon emissions as expeditiously as practicable, considering technological feasibility, in accordance with the following schedule:
    - (1) Windblown tailings retrieval and placement on the pile complete.
    - (2) Placement of the interim cover to decrease the potential for tailings dispersal and erosion complete.
    - (3) Placement of final radon barrier designed and constructed to limit radon emissions to an average flux of no more than 20 pCi/m<sup>2</sup>/s above background December 31, 1997.

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В.	Reclamation, to ensure required longevity of the cove completed as expeditiously as is reasonably achievab dates for completion.		
	<ul><li>(1) Placement of erosion protection as part of reclama 10 CFR Part 40 - December 31, 1997.</li></ul>	ation to comply with Criterion 6 of Appendix A of	
	(2) Projected completion of groundwater corrective ac the groundwater corrective action plan - December		
	[Applicable Amendment: 23]	AX	
C.	Any license amendment request to revise the complet demonstrate that compliance was not technologically which compels delay to reclamation, or other factors b	feasible (including inclement weather, litigation	
D.	Any license amendment request to change the target dates in Section B above must address added risk to the public health and safety and the environment, with due consideration to the economic costs involved and other factors justifying the request such as delays caused by inclement weather, regulatory delays, litigation, and other factors beyond the control of the licensee.		
	FOR THE NUC	CLEAR REGULATORY COMMISSION	
Date:	October 27, 2004		
Dute.	Division of Fu and Safegr	acilities Branch lel Cycle Safety Jards lear Material Safety	

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		License Number SUA-1475	
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[Ap	plicable Amendments: 2, 21]		
32.	2. The licensee is authorized to construct and operate an enhanced evaporation system in accordance with the system described in the submittal dated June 14, 1990. The southern cell enhanced evaporation system shall be designed as described in the June 29, 1992, submittal and have an operational schedule similar to that of the central cell.		
[Ap	plicable Amendments: 2, 21]	132 -	
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[Applicable Amendments: 2, 7, 15]			
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[Ap	[Applicable Amendments: 10, 17, 24, 25]		
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