

JUL 23 1990

URFO:GRK
Docket No. 40-8907
SUA-1475, Amendment No. 7
04008907420E

United Nuclear Corporation
1700 Louisiana Blvd. NE, Suite 230
Albuquerque, New Mexico 87110

Gentlemen:

Our office is in receipt of your amendment application submitted by cover letter dated June 14, 1990. It is our understanding that you wish to modify the seepage recovery system in Zone 1, install two additional background wells, construct a more efficient evaporation system, and add well TWQ-126 to your monitoring program.

The staff review of your proposed modifications to the Zone 1 seepage collection system indicates that you have selected alternate pumping wells that have the lowest pH water and the largest casing diameter. These are ideal siting criteria. The wells that you have selected to utilize for seepage recovery in Zone 1: 615, 616, and 617, appear to be located in the major flow path. As has been discussed with you, well EPA-7 is located in the central leading portion of the plume. Due to this, it should be incorporated in your modified corrective action program and be pumped to demonstrate that hazardous constituent concentrations have been reduced to levels that are as low as reasonably achievable. In consideration of your amendment request and our subsequent discussions, your license will be modified to incorporate the four wells discussed above as a Zone I corrective action program.

The two additional wells that you have proposed to drill to investigate background levels do not require a license amendment to construct and sample. However, should you at some future point choose to modify your background values, a license amendment would be required to propose alternate background concentrations.

GRK
PM:URFO
GKonwinski
07/23/90

NOTED RJG
PM:URFO
PGarcia
07/23/90

n/r DD:URFO
EHawkins
07/ /90

MA
D:URFO:RIV
REHall
07/23/90

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You are encouraged to construct the modified enhanced evaporation system. Your license will be amended to delete references to the existing system and incorporate your proposal as a portion of your license. Similarly, well TWQ-126 will be added to your list of monitor wells.

Based upon a review of your June 14, 1990, amendment request and pursuant to Title 10, Code of Federal Regulations, Part 40, Source Material License SUA-1475 is hereby amended by revising License Condition Nos. 30 and 32 to read as follows:

30. The licensee shall implement a compliance monitoring program containing the following:

- A. Sample wells GW-1-4; EPA Wells 1-28 and EPA-22A (excepting EPA Wells 6, 10, 16, 19, 20, 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-126, 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, cyanide, lead, lead-210, naphthalene, nickel, combined radium-226 and 228, selenium, thorium-230, uranium, gross alpha and vanadium.

Notwithstanding the above, the licensee is only required to sample EPA wells after receipt of written authorization by the land owner to enter that area for the purpose of sampling ground water from those specified wells. The licensee shall make every reasonable effort to obtain such authorization. If authorization is not obtained, the licensee shall inform the NRC, Uranium Recovery Field Office, promptly.

- B. Comply with the following ground-water 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 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, cadmium = 0.01 mg/l, chloroform = 0.001 mg/l, cyanide = 0.005 mg/l, gross alpha = 15.0 pCi/l, lead = 0.05 mg/l, lead-210 = 1.0 pCi/l, naphthalene = 0.001 mg/l, nickel = 0.05 mg/l, radium-226 and 228 = 5.0 pCi/l, selenium = 0.01 mg/l, thorium-230 = 5.0 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, amendment request, with the addition of EPA-7 as a seepage collection well, implement a corrective action program in Zone 3 in accordance with "Amendment 1, Reclamation Plan, License No. SUA-1475" submitted by letter dated July 26, 1988, as well as implement a corrective action

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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, cyanide, gross alpha, lead, lead-210, naphthalene, nickel, radium-226 and 228, selenium, thorium-230, uranium and vanadium to the concentration limits specified in 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.

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.

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.

All other conditions of this license shall remain the same. The effect of this amendment is to modify your corrective action program, add an additional monitoring well, and authorize construction and operation of the proposed enhanced evaporation system.

The issuance of this amendment was discussed via telephone conversation between Mr. Velasquez of UNC and Mr. Konwinski of my staff on July 20, 1990.

Sincerely,

Original Signed By:

R. E. HALL

Ramon E. Hall
Director

Enclosure:
Source Material License SUA-1475

Case Closed: 04008907420E

cc:
Docket File No. 40-8907
LFMB
PDR/DCS
URFO r/f
ABBeach, RIV
LLO Branch, LLWM
OB:IMNS:NMSS
GKonwinski
PGarcia
RCPD, NM
EID, NM