

Docket File 40-8829
 LFMB/DCS/PDR
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 Swasiler
 NDEC
 URFO r/f
 HBorchert, RCPD, NE
 PFrench, NDEC
 THoffman, NWRD

40-8829/SLW/85/05/03/1

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URFO:SLW
 Docket No. 40-8829
 SUA-1441, Amendment No. 1
 04008829131E
 04008829141E

Wyoming Fuel Company
 12055 W. Second Place
 P.O. Box 15596
 Lakewood, Colorado 80215

Gentlemen:

Pursuant to Title 10 to Code of Federal Regulations, Part 40 and in accordance with your submittal dated April 2, 1985, Source Material License No. SUA-1441 is hereby amended to modify License Conditions No. 10, 30, 36 and 41, and to add License Condition No. 44, to read as follows:

10. Authorized Use: For in-situ uranium mining and uranium recovery from pregnant lixiviant in accordance with statements, descriptions, and representations contained in Sections 2.1, 3.1, 3.2, 3.3, 5.1-5.6, 5.7, and 6.0 of the licensee's February 11, 1983 Report, enclosed with License Application Form NRC-2, and in supplements dated July 12, 1983; August 1983; October 1983; October 27, 1983, April 16, 1984, April 2, 1985, May 28, 1985, and June 18, 1985. Wherever the word "will" is used in the licensee's submittals, it shall denote a requirement. Notwithstanding the above, the following conditions shall override any conflicting statements contained in the licensee's application and supplements.
30. A quarterly report shall be submitted to the USNRC, Uranium Recovery Field Office, that summarizes the status of the R&D in situ test program, with supporting analytical data and evaluations regarding important environmental aspects of the operations such as water quality and water level data, lixiviant migration control, waste generation volumes, volumes and representative chemical analyses of injected lixiviant and

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pregnant solution produced. The quarterly report shall also contain the production data for the R&D facility. The quarterly report shall also contain the results of the operator's site inspections and remedial actions taken to correct the problems noted in these inspections. For the first two quarters, the operational data sheets, including such data as flow rates, chemical balance and injection pressures shall be included as an attachment to the quarterly report. The remaining quarterly reports will summarize the operational data, with the operational data sheets maintained on site. The Nebraska DEC Mining Monitoring Report (Figure 3.3.05) can be utilized as part of the quarterly report for the operational data. The quarterly report shall include all data on environmental monitoring as well as ground-water data. All water quality and water level data shall be presented in tabular and graphical form, with a written summary explaining what the data show.

36. The licensee shall perform monthly surveys for natural uranium in the restricted area with the exception that they shall be increased to weekly for any area meeting the requirements of an "airborne radioactivity area" as described in 10 CFR 20.203(d), and an investigation of the cause of any high levels shall be made. Records shall be maintained of these investigations and results shall be furnished to the USNRC, Uranium Recovery Field Office, in the quarterly reports described under License Condition (30).

The licensee shall perform monthly surveys for radon or radon progeny in the restricted area inhabited by workers with the exception that radon or radon progeny surveys shall be increased to weekly if the radon or radon progeny concentrations are found to exceed 8 pCi/l or 0.08 WL (Working Levels), respectively. Such weekly sampling shall be maintained until four (4) consecutive weekly samples exhibit less than 8 pCi/l or 0.08 WL. The licensee shall continue to monitor the pre-operational sampling locations to determine radon concentrations at and near the site boundary on a monthly basis. The locations for surveys of airborne natural uranium and radon or radon progeny shall be as specified on Figure 5.0 in the licensee's submittal dated May 24, 1985.

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The calculation of internal exposure to radon, radon progeny, or natural uranium shall be based on a Time Weighted Exposure (TWE) calculation incorporating a consideration of both occupancy times and average airborne working levels or activity concentrations. If occupancy times are established as an average for each category of worker, the licensee shall also, by means of a semiannual time study, determine the basis upon which average occupancy periods are established.

If any worker reaches or exceeds 25 percent of the maximum permissible exposure limits as specified in 10 CFR Part 20 based upon a calculated TWE for the week or the calendar quarter, dependent on the solubility of the material, the Health Physics Technician (HPT) shall initiate an investigation of the employee's work record and exposure history to identify the source of the exposure.

Necessary corrective measures shall be taken to ensure reduction of future exposures to as low as is reasonably achievable. Records shall be maintained of these investigations and results furnished to the USNRC, Uranium Recovery Field Office, in the quarterly reports described in License Condition (30).

41. The licensee shall maintain a quality assurance program for all sampling and analyses performed as part of the in-plant radiation safety, ground-water and environmental monitoring programs that includes all of the recommended elements of a quality assurance program specified in USNRC Regulatory Guide 4.15, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Stream and the Environment." In addition, prior to commencing operations and within ninety (90) days of issuance of the NDEC license, the licensee shall submit to the USNRC, Uranium Recovery Field Office, for approval in the form of a license amendment, complete specifications for this quality assurance program.
44. Prior to adding additional wells to enlarge wellfield No. 1 (wells in addition to the original 5-spot, 66-foot well spacings and the two observation wells), the licensee shall submit the proposed location, leaching pattern and restoration plan for these additional wells to the USNRC, Uranium Recovery Field Office, for review and approval.

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All other license conditions shall remain the same.

The effect of this amendment is to incorporate minor design changes into the license; alter the submittal date in License Conditions 36 and 41 to 60 and 90 days, respectively, after issuance of the NDEC permit; and to require additional information prior to the enlargement of Wellfield No. 1. The above modifications to Source Material License SUA-1441 have been discussed and approved by Mr. Stephen Collings of your staff. Source Material License SUA-1441 has been re-issued in its entirety and is enclosed.

FOR THE NUCLEAR REGULATORY COMMISSION

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R. Dale Smith, Director
Uranium Recovery Field Office
Region IV

Enclosure: SUA-1441

Cases Closed: 04008829131E
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