



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
799 ROOSEVELT ROAD  
GLEN ELLYN, ILLINOIS 60131

NOV 30 1990

Docket No. 50-331

Iowa Electric Light and Power  
Company

ATTN: Mr. Lee Liu  
Chairman of the Board  
and Chief Executive  
Officer

IE Towers  
P. O. Box 351  
Cedar Rapids, IA 52406

Gentlemen:

This confirms our plans as discussed between Mr. B. Lacey of your staff, and Mr. R. C. Knop of this office to have a meeting at 10:30 a.m. (CST), on Wednesday, December 12, 1990, at the Duane Arnold Energy Center in Palo, Iowa. The meeting will be a management meeting to discuss engineering priorities and other topics of mutual interest.

We will gladly discuss any questions you may have regarding this meeting.

Sincerely,

Hubert J. Miller, Director  
Division of Reactor Projects

cc:  
R. Hannen, Plant  
Superintendent - Nuclear  
R. Salmon, Technical Services  
Superintendent  
DCD/DCB (RIDS)  
OC/LFDCB  
Resident Inspector, RIII  
John A. Eure, Iowa Department  
of Public Health

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PDR ADOCK 05000331  
PDC

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV  
URANIUM RECOVERY FIELD OFFICE  
BOX 26325  
DENVER, COLORADO 80225

NOV 21 1990

URFO: CDMC  
Docket No. 40-8681  
04008681430R

MEMORANDUM FOR: Docket File No. 40-8681  
FROM: Cynthia D. Miller-Corbett  
Project Manager  
SUBJECT: REVIEW OF FIRST AND SECOND QUARTERS 1990, SEMIANNUAL  
EFFLUENT MONITORING REPORT FOR UMETCO MINERALS CORP.,  
WHITE MESA

Umetco Minerals Corporation (Umetco) submitted the semiannual effluent monitoring report for the White Mesa Uranium Mill by letter dated August 30, 1990. This report is submitted in compliance with Source Material License SUA-1358, License Condition No. 24.

Quarterly samples have been collected from ten monitoring wells. Five of these wells, including MW-5, MW-11, MW-12, MW-14, and MW-15, are used to establish background and set ground-water protection standards. The maximum permissible concentration (MPC) for each analyzed element is the greatest concentration of the element reported for the background monitoring wells. All wells are sampled and analyzed for six ground-water constituents on a quarterly basis, and a total of 12 constituents on a semiannual basis.

A review of the radionuclide analytical data reveals comparable concentration values for the 1990 second quarter and the previous two quarters. The highest background values for the radionuclides is as follows:

- U-nat: 3.3E-8 uCi/ml at well MW-14
- Ra-226: 4.0E-10 uCi/ml at well MW-12
- Th-230: none detected in background
- Pb-210: 1.1E-9 uCi/ml at well MW-5.

Radionuclide values for the other monitoring wells, MW-1 through MW-4, are commonly less than or equal to 1 percent of the MPC; an exception to this pattern occurs for the MW-3 sample for which the Ra-226 value is 1.5 times the greatest background concentration reported.

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PM:URFO CMC GDM-Corbett/db 11/20/90	PM:URFO DCWard 11/20/90	DD:URFO EFHawkins 11/20/90	D:URFO:RIV REHall 11/20/90
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Other constituent concentrations reported are for total dissolved solids, chloride, sulfate, radium, arsenic, and selenium. In general, the 1990 values for concentrations are comparable to or less than those reported in the semiannual effluent monitoring submittal for the second half of 1989. However, the 1990 data show arsenic concentrations have increased at several wells, most noticeably at MW-3. At MW-3, the concentration of sulfate increased by 800 mg/l between 1989 and 1990, and all referenced elements occur at above background concentrations.

In conclusion, the semiannual effluent monitoring report for the first half of 1990, indicates that only the sample for monitoring well MW-3 has shown a noticeable increase in the concentration of ground-water constituents has occurred. This apparent trend will be evaluated during review of the third and fourth quarter 1990 semiannual effluent monitoring report. No license action concerning results of the 1990 submittal is required at this time.

*Cynthia D. Miller-Corbett*  
Cynthia D. Miller-Corbett  
Project Manager

Case Closed: 04008681430R

bcc:

Docket File No. 40-8681  
PDR/DCS  
URFO r/f  
ABBeach, RIV  
LLO Branch, LLWM  
CDMCorbett  
DWard  
LAnderson, RCPD, UT  
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