

40-8380/KLK/82/04/06/1

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WMUR:KLK  
Docket No. 40-8380

MEMORANDUM FOR: Ross A. Scarano, Chief  
Uranium Recovery Licensing Branch  
Division of Waste Management

→ Docket file 40-8380

FROM: Kenneth L. Kalman, Project Manager  
Operating Facility Section I  
Uranium Recovery Licensing Branch

SUBJECT: MINUTES OF MEETING WITH ROCKY MOUNTAIN ENERGY  
COMPANY (RMEC) ON NINE MILE RESTORATION PLAN

Place and Date: Silver Spring, Maryland, Willste Bldg., 4th floor  
Conference Room; March 1, 1982

Purpose: To discuss restoration plans for the Nine Mile ISL  
facility, identify NRC staff concerns and determine  
what additional information should be obtained.

Participants: NRC: John J. Linehan RMEC: Michael Neumann  
Fred Ross  
Ken Kalman

Background:

This meeting was requested by RMEC's Michael Neumann to discuss the latest restoration plan at the Nine Mile ISL facility including a request for no further restoration of Patterns 1 and 2. On January 4, 1982, RMEC submitted a groundwater restoration plan for NRC approval. Subsequent to the preparation and submittal of this plan several events occurred which resulted in a revised plan which was submitted to the NRC on February 3,

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1982. As described in RMEC's February 3, 1982 submittal water quality analyses for select wells at Pattern 1 and Pattern 4 confirmed the area and nature of contamination to be less severe than anticipated. About this same time, results of a contaminant assessment study of the acid leach patterns (1, 2, and 3) led RMEC to conclude the potential for radionuclide contaminant movement would be insignificant even if there was no further restoration of the patterns.

Discussion:

Introductions were made, and prior to discussion of the revised restoration plan J. Linehan brought up two points for clarification: 1) Regarding RMEC's January 19, 1982 submittal to the NRC consisting of alpha contamination survey results, NPDES permit and a copy of a surety instrument, it had been previously determined that RME would be charged \$40.00 for NRC review. However, upon reevaluation of this action, the NRC determined that there should be no charge. 2) RMEC has not been providing required submittals in a timely manner.

M. Neumann noted these points and agreed to improve the latter situation.

During discussion of the revised restoration plans J. Linehan pointed out the need for RMEC to explain their present position against further restoration of Patterns 1 and 2 and to provide technical information to support that position.

In particular F. Ross explained that it would be necessary for RMEC to provide restoration verification sampling data, post restoration sampling data and final stabilization sampling data for Patterns 1-4 to adequately evaluate the total restoration effort at the Nine Mile Lake R&D. Six months of post-restoration sampling would be required for Pattern 4.

Upon further discussion and in response to License Condition No. 21 and No. 22 it was agreed that RMEC will submit restoration verification sampling data, post restoration sampling data and final stabilization sampling data for Patterns 1 through 4.

Restoration Verification Sampling data will include:

Pattern 4: Full suite of data (DEQ Guideline 8) for wells P-62, I-58, I-59, I-60, I-61, M-54, M-55, M-56, M-57 and M-9.

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- Pattern 3: Full suite of data (DEQ Guideline 8) P-50, P-53, I-44, I-45A, I-46, I-48, I-49, M-40, M-42 and M-43.
- Pattern 2: Full suite of data (DEQ Guideline 8) P-15, I-16A, I-17, I-18, I-19, M-20, M-21, M-22 and M-23.
- Pattern 1: Full suite of data (DEQ Guideline 8) P-1A, I-2, I-3, I-5A, I-6, M-7, M-8A, M-9, and M-54.

Post-Restoration Sampling

- Pattern 4: Post-restoration sampling has already been completed. RMEC will submit monthly stabilization data to demonstrate restoration stability for the parameters listed on page 10 and 11 of the February 3, 1982 submittal.
- Pattern 3: To consist of monthly sampling of wells P-50, P-53, I-46, M-40, M-41, M-42 and M-43 for parameters listed on page 10 and 11 of the February 3, 1982 submittal.
- Patterns 1 and 2: To consist of monthly sampling of wells P-1A, I-2, M-7, M-8A, M-9, M-54 (Pattern 1) and P-15, I-17, M-20, M-21, M-22, M-23 (Pattern 2) for the parameters listed on page 10 and 11 of the February 3, 1982 submittal. Sampling will continue until the NRC has concurred with the adequacy of restoration.

Final Stabilization Sampling

- Patterns 3 and 4: Full suite of samples (DEQ Guideline 8) for same wells cited under post-restoration sampling plus the monitor wells listed in restoration verification sampling.
- Patterns 1 and 2: Stabilization monitoring will be as described under post-restoration sampling.

It was also agreed that RMEC will submit final baseline data for Patterns 2, 3, and 4 and a regional evaluation of the ore zone aquifer that will be used by the NRC to technically review RMEC's request to discontinue restoration of the acid patterns.

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It was then agreed that restoration verification, post-restoration and final stability sampling as described above constitute an adequate monitoring plan. These agreements were summarized and signed by the principal parties involved at the meeting.

**Original Signed By:**

Kenneth L. Kalman, Project Manager  
Operating Facility Section I  
Uranium Recovery Licensing Branch  
Division of Waste Management

**Original Signed By:**

APPROVED BY:

Frederick W. Ross for  
John J. Linehan, Section Leader  
Operating Facility Section I  
Uranium Recovery Licensing Branch  
Division of Waste Management

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