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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

JUL 02 1980

MEMORANDUM FOR: Docket File No. 40-8200, SUA-1199
LICENSEE: The Cleveland-Cliffs Iron Company (CCIC)
FACILITY: North Rolling Pin Site, Campbell County, Wyoming
SUBJECT: REVIEW OF SITE FINAL RESTORATION PLAN (DATED MAY 29, 1980)

1.0 Background

After the R&D in-situ operations had been completed at the North Rolling Pin Site in May 1975, efforts were made by both Wyoming Minerals Corp. and CCIC to restore the affected aquifer water quality to acceptable levels. However, a summary report dated January 1979 indicated that sampling conducted by CCIC in October and November 1978 showed elevated uranium, radium, and ammonia. A meeting was held on May 9, 1980, between members of the WMUR staff and CCIC representatives; and several agreements were reached which culminated in the licensee's submittal on May 29, 1980, of a detailed, three-phase, site final restoration plan. This restoration plan is the subject of this review; and the following discussion responds to specific statements made in the May 29, 1980 submittal.

2.0 Discussion

Phase I -- Evaluation of the Current Condition of the Wells at the Site -

CCIC has proposed a thorough program of water level measurement and water sampling for at least five wells; one well updip from the mined area, one well downdip from the mined area, the center production well and two other wells in the pattern. Analyses shall include uranium, radium-226, NH_4 , TDS, NO_3 , pH, gross alpha and beta. The NRC staff has concluded that Phase I of the proposed program is complete and acceptable and should be initiated as soon as feasible to determine the current status of the water quality of the affected aquifer.

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Phase II -- If Required, the Necessary Well Cleanup and Restoration Program -

CCIC has proposed that based on the results of the analyses of the site sampling as described under Phase I, the extent of specific well restoration work will then be determined. Due to the limited nature of water quality baseline data at the test site prior to the mining activities, CCIC has proposed a reasonable plan to restore the water quality to the Class I (Domestic) specifications of the Wyoming Department of Environmental Quality's "Quality Standards for Groundwater of Wyoming," draft regulations. The NRC staff agrees with this approach as it will assure that the water quality is restored to meet drinking water standards.

Phase III -- Resampling to Verify Restoration -

CCIC has proposed that upon completion of the Phase II restoration work, the site will be allowed to stabilize (about 2 to 4 weeks) and resampling of the five wells shall be performed to verify restoration of the water quality to acceptable levels. Following acceptable restoration, all well casings shall be cut off, all wells shall be filled with cement, and the site surface shall be revegetated in accordance with WYDEQ specifications. The NRC staff agrees with this verification and restoration plan since it effectively outlines the final site restoration and reclamation activities which upon satisfactory completion will permit the termination of Source Material License No. 1199.

3.0 Action

The estimated time schedule for completing final restoration of the North Rolling Pin Site appears to be reasonable; therefore, it is concluded that the proposed three-phase program should be initiated as soon as feasible and a completion date no later than May 31, 1982 be specified.

Gregory G. Eadie

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Approved by:

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