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Docket File No. 40-8768

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NOV 03 1982

URFO:KBW
Docket No. 40-8768
SUA-1387
04008768151E

Kerr-McGee Nuclear Corporation
Kerr-McGee Center
Oklahoma City, OK 73125

Gentlemen:

We are responding to your letter of August 5, 1982 which pertained to your Quarterly Report - 1st Qtr. - 1982.

You requested clarification on the operational water survey requirements for the last item on Table 5.2.1.01(a) of the EIA. This table requires that one sample, analyzed for both Th-230 and Ra-226, be taken at each of the two locations. One of the required locations is near the Q-Sand ISL discharge prior to mixture with diluent water. The other required location is at the outfall of the final Bill Smith mine water discharge. The logical basis for sampling these two locations is to specifically determine what levels of radioactivity the Q-Sand Project is contributing to the total discharge system.

In another matter related to the quarterly report, our review indicates that Kerr-McGee needs to take the following actions regarding monitoring required by Table 5.2.1.01(a):

- 1) Submit sediment/soil grab samples for the 1st quarter 1982 as these analyses lag behind a quarter.
- 2) Submit Th-230 sample results at the outfall of the final Bill Smith mine treatment unit for the first quarter of 1982 as this data continues to lag behind a quarter.
- 3) Submit 2nd quarter 1982 data, as required by Table 5.2.1.01(a), for radon and direct gamma. This data should not lag behind a quarter in the future.
- 4) In the future collect one sample at the outfall of the final Bill Smith mine treatment unit and another sample from the Q-Sand

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discharge stream prior to mixture with diluent water for Ra-226 and Th-230 analysis.

- 5) Specifically identify in all future quarterly reports, what data required by Table 5.2.1.01(a) will lag behind, what the lag time will be, the reason for the lag time, and any subsequent change in the lag times with an explanation for the change.

If you have any questions on the above matter, please contact K. Westbrook of my staff at (301) 427-4542.

Original Signed by:
J. J. Linehan

John J. Linehan, Section Chief
Uranium Recovery Field Office

40-8768/kbw/82/09/23/0

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