



UNITED STATES
 NUCLEAR REGULATORY COMMISSION

REGION IV
 URANIUM RECOVERY FIELD OFFICE
 BOX 25325
 DENVER, COLORADO 80225

JUL 27 1990

URFO:DCW
 Docket No. 40-8768
 04008768840E

MEMORANDUM FOR: Docket File No. 40-8/68
 FROM: Dana C. Ward, Project Manager
 SUBJECT: ALARA REPORT FOR THE SMITH RANCH O-SAND ISL PROJECT

By letter dated July 13, 1990, Rio Algom Mining Corp. submitted a report documenting the annual ALARA audit for the Smith Ranch O-Sand ISL Project. The ALARA audit and submittal of the report are required by License Condition No. 35 of Source Material License SUA-1387.

The ALARA audit was conducted by an audit committee which included the site General Manager, Administrative Supervisor and Radiation Safety Officer. The staff review of the ALARA audit report indicated the following major points:

1. All urinalysis results were below the lower limit of detection of 5 µg/l uranium.
2. The quarterly exposure to external radiation never exceeded 30 mRem for any worker.
3. Airborne exposure for personnel did not exceed a monthly average of 1 maximum permissible concentration (MPC) hours. The quarterly exposure limit is 520 MPC-hours.
4. The highest annual average exposure to radon daughters was less than 0.2 working level months.
5. Surface alpha contamination surveys were conducted throughout controlled and uncontrolled areas of the mill. Two locations in the control area exceeded the criteria during the year. These locations were cleaned and resurveyed.

* PM:URFO/db
 DCWard

7/27/90

* PM:URFO
 JPGrimm

/ /90

DD:URFO
 EFHawkins

7/27/90

D:URFO:RIV
 REHall

7/27/90

* Previously concurred.

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 PDR ADOCK 04008768
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The ALARA audit was conducted by an audit committee which included the site General Manager, Administrative Supervisor and Radiation Safety Officer. The staff review of the ALARA audit report indicated the following major points:

1. All urinalysis results were below the lower limit of detection of 5 $\mu\text{g/l}$ uranium.
2. The quarterly exposure to external radiation never exceeded 80 mRem for any worker.
3. Airborne exposure for personnel did not exceed a monthly average of 1 maximum permissible concentration (MPC) hours. The quarterly exposure limit is 520 MPC-hours.
4. The highest annual average exposure to radon daughters was less than 0.2 working level months.
5. Surface alpha contamination surveys were conducted throughout controlled and uncontrolled areas of the mill. Two locations in the control area exceeded the criteria during the year. These locations were cleaned and resurveyed.

PM:URFO/db
DCWard
7/26/90

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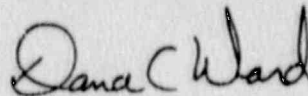
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JUL 27 1990

6. Thirty-one special work permits (SWP) were issued during the reporting year. Radiation surveys were conducted for each SWP.
7. Routine radiation safety inspections, radiation training activities and annual review of operating procedures were performed in accordance with license requirements.

The staff concludes that the licensee has performed an acceptable ALARA audit. No areas of concern were noted during the staff review. Therefore, no further action is necessary at this time.



Dana C. Ward
Project Manager

Case Closed: 04008768840E

bcc:
PDR/DCS
URFO r/f
ABBeach, RIV
LLO Branch, LLWM
DWard
JGrimm
JHaes, RCPD, WY
WDEQ (2)
8768/840E/DCW/90/07/25/M