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Docket File 40-8684

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URFO:CCJ

Docket No. 40-8684

SUA-1337, Amendment No. 4

04008684650S

Malapai Resources Company

ATTN: Myron Beck, Vice President and
Manager of Development

505 North 2nd Street, Suite 420

Phoenix, Arizona 85004

Gentlemen:

The staff of the Uranium Recovery Field Office has reviewed your submittal dated May 30, 1986, in which you submitted the Quality Assurance Program, Health Physics Manual and Emergency Response Plan for the Christensen Ranch R&D In Situ Leach Facility. Accordingly, we have approved the plans as written and incorporated them in Source Material License SUA-1337. The approval of these submittals indicates successful compliance with the requirements of License Condition Nos. 36 and 47.

Therefore, pursuant to Title 10, Code of Federal Regulations, Part 40, Source Material License SUA-1337 is hereby amended by deleting License Condition No. 47 and by revising License Condition Nos. 10, 31, 35 and 36 to read as follows:

10. Authorized Use: For uranium recovery from pregnant lixiviant in accordance with statements, representations and conditions contained in the licensee's July 11, 1983 Environmental Report, enclosed with License Application Form NRC-2, Sections D-1, D-6, D-7, D-9, D-10, C, D, E and 5, and in supplements dated December 12, 1983, March 16, June 11, August 3, October 1, December 14, and December 20, 1984, January 3, 1985, which are superceded by supplements dated December 30, 1985, January 15, March 25, May 19, and May 30, 1986.

Wherever the word "will" is used in the licensee's submittals, it shall denote a requirement. Notwithstanding the above, the

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following conditions shall override any conflicting statements contained in the licensee's submittals.

31. Standard written operating procedures shall be established for all operational activities involving radioactive materials that are handled, processed, stored, or transported. Written procedures shall also be established for nonoperational activities to include in-plant and environmental monitoring, sampling, analysis, and instrument calibration.

All written procedures for both operational and nonoperational activities shall be reviewed and approved in writing by the RSO before being implemented and whenever a change in a procedure is proposed to ensure that proper radiation protection principles are applied. The RSO shall continually review all existing facility procedures and update them as necessary. For work where the potential for exposure to radioactive material exists and for which no standard written procedure exists, a radiation work permit (RWP) shall be required. The RWPs shall be as described in the licensee's submittal to the USNRC dated May 30, 1986.

The RSO shall indicate by signature the review of each RWP prior to initiation of the work, and the work shall be performed in accordance with the conditions of the RWP. When the RSO is not available, a supervisory member of the facility staff who has received specialized radiation protection training may review and sign RWPs.

35. The licensee shall perform an ALARA audit of the radiation safety program once each calendar quarter during the operational and restoration phases and once each calendar year during the reclamation phase. The audit shall be performed as specified in the licensee's submittal dated May 30, 1986. The licensee shall submit a report detailing the results of each audit to the USNRC, Uranium Recovery Field Office, within thirty (30) days after the end of each reporting period. In order to properly evaluate the ALARA Objective, the licensee shall review, as a minimum, the following records as part of each audit:

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- A. Bioassay results including any actions taken when the results exceeded action levels in Table 1 of Regulatory Guide 8.22.
- B. Exposure records of external and internal time-weighted calculations (TWE).
- C. Safety meeting minutes, attendance records and training program records.
- D. Daily inspection log entries and summary reports of the monthly reviews.
- E. In-plant radiological survey and monitoring data as well as environmental radiological effluent and monitoring data.
- F. Surveys required by radiation work permits.
- G. Any overexposures reported to USNRC during the reporting period.
- H. Reviews of operating and monitoring procedures completed during the period.

Each audit report shall be specific in addressing any noticeable trends in personnel exposures for identifiable categories of workers and types of activities, any trends in radiological effluent data, and the performance of exposure and effluent control equipment and whether it is being properly used, maintained and inspected. Any recommendations to further reduce personnel exposure or environmental releases of uranium or radon shall be included in the report.

- 36. The licensee shall conduct the quality assurance/quality control program and follow the health physics procedures and emergency procedures contained in their submittal dated May 30, 1986.
- 47. Deleted by Amendment No. 4.

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All other conditions of this license shall remain the same. The license is revised to incorporate the license conditions revised above.

The effect of this amendment is to approve the Quality Assurance Program, Health Physics Manual and Emergency Procedures submitted on May 30, 1986, and to incorporate them in Source Material License SUA-1337.

The issuance of this amendment was discussed with Ms. Donna Wichers, the Malapai Resources Company Environmental Consultant, and Ms. Candice Jierree of the USNRC via telecon on June 20, 1986.

FOR THE NUCLEAR REGULATORY COMMISSION

/S/

R. Dale Smith, Director
Uranium Recovery Field Office
Region IV

Enclosure: Source Material License SUA-1337

Case Closed: 040086846505

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