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WMUR:KBW
 Docket No. 40-8786
 SUA-1400, Amendment No. 5

Uranium Resources Inc.
 735 Promenade Bank Tower
 Richardson, Texas 75080

Gentlemen:

Pursuant to Title 10, Code of Federal Regulations, Part 40, Source Material License No. SUA-1400 is hereby amended by modification of License Conditions Nos. 17, 13 and 20 to read as follows:

17. Restoration shall be accomplished through reverse osmosis or any method that doesn't involve the addition of chemicals to the injection stream except for H₂S₂ or SO₂ as indicated in the licensee's original application report of March, 1981. The licensee shall notify the USNRC, Uranium Recovery Licensing Branch within thirty (30) days of any subsequent changes in the restoration methods specified in the licensee's May 10, 1982 submittal.

Restoration of the production aquifer and any other groundwaters that may be affected by mining operations shall be initiated within sixty (60) days after solution mining operations have been terminated.

The objective of restoration shall be to return the groundwater quality, on a groundwater quality indicator by indicator basis, to baseline conditions for each well.

Water level readings shall be taken, recorded, and submitted during all groundwater quality analysis specified in the subsequent paragraphs.

During restoration, a sample shall be taken weekly from well P-1 and analyzed for conductivity, chloride and uranium until restoration is verified.

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The 10 wells (6 perimeter ore zone monitor wells and 3 shallow and 1 deep monitor well) shown on Figure C-5-2 of the licensee's March 31, 1981 Technical Report shall be used for groundwater quality monitoring during restoration. These wells shall be sampled monthly for conductivity, chloride, sodium, calcium and alkalinity until restoration is verified.

When URI's sampling results for well P-1 show that restoration is achieved, a verification sample (including 5 injection-production wells and also any monitor well(s) ever having been declared on excursion during operation or restoration) shall be analyzed for the full suite of water quality indicators listed in Table 5.1.01 of the EIA.

In addition, all 10 monitor wells shall be analyzed for the following: conductivity, chloride, sodium, calcium, alkalinity, gross alpha, gross beta, nitrate, nitrite, lead-210, flouride, and radium-226. The results of the verification samples shall be sent to NRC for evaluation within thirty (30) days. Restoration shall be considered complete only upon written notification by the USNRC, Uranium Recovery Licensing Branch.

Post restoration monitoring shall continue for a minimum of six (6) months after NRC determines that restoration is complete. Well P-1 shall be analyzed monthly for the full suite of water quality indicators listed in Table 5.1.01 of the EIA. When sampling results from P-1 indicate stability is achieved, a verification sample (including 5 injection and production wells and 10 monitor wells) shall be analyzed for the full suite of water quality indicators listed in Table 5.1.01 of the EIA. The results of the final post restoration verification samples shall be sent to NRC for evaluation within thirty (30) days. Post restoration monitoring shall be discontinued only upon written notification by the USNRC, Uranium Recovery Licensing Branch.

- 13. The 10 wells (6 perimeter ore zone monitor wells and 3 shallow and 1 deep monitor well) shown on Figure C-5-2 of the licensee's March 31, 1981 Technical Report shall be used for groundwater quality monitoring during solution mining operations prior to initiation of restoration. These wells shall be sampled for chloride and conductivity every two (2)

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weeks and once every month for alkalinity, calcium, vanadium, sodium and uranium. Prior to termination of lixiviant addition or at six (6) months after operations begin whichever comes first, a set of samples from all of the monitor wells shall be analyzed for the full suite of water quality indicators listed in Table 5.1.01 of the EIA.

- 20. Net flow rates for the well field shall be recorded whenever monitor well water levels are measured; barometric pressure at the site or vicinity and its effect on water levels shall also be recorded. Hydrologic monitoring shall continue as described in this condition during groundwater quality restoration until restoration verification.

Flow rates on each injection and production well and injection pressures shall be checked at least once per day. This check, noting any significant variations, shall be recorded on a daily log.

An evaluation of the net flow balance along with water level data in graphical and tabular form shall be submitted in a separate section of each quarterly report, as discussed in License Condition No. 23 below, until restoration has been verified.

All other conditions of this license shall remain the same.

The effects of this amendment are to: a) approve a restoration plan, b) remove the reference to groundwater restoration in License Condition 13, and c) require flow rate monitoring, as specified in License Condition No. 20 to continue during restoration.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed by:
J. J. Linehan *for*

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

Case closed: 04008786050E

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