RETURN TO URFO SS-467

DISTRIBUTION
Docket File No. 40-8786
PDR
URFO r/f
URFO w/f
NRC Region IV
KBWestbrook
JJLinehan
HJPettengill
RDSmith
BFisher
JTCollins
MAuerbach
GBennington
ACabell
DWeiss
AEOD
SHO
BGarland
WAckerman

JAN 03 1983

URFO:KBW
Docket File No. 40-8786
04008786150E
SUA-1400, Amendment No. 6

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 Condition No. 17 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 H_2S or SO_2 as indicated in the licensee's original application report of March, 1981. The licensee shall notify the USNRC, Uranium Recovery Field Office 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 analyses 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 the data indicates restoration is complete.

    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 achieved.

DESIGNATED ORIGINAL

40-8786/kbw/82/11/17/0

Certified By B Fisher

20702

OFC	URFO	URFO	URFO	URFO		
NAME	KBWestbrook	JJLinehan	BFisher	RDSmith		
DATE	12/30/82	12/31/82	12/30/82	1/3/83		

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, fluoride, and radium-226. The results of the verification samples shall be sent to NRC for evaluation within thirty (30) days.

Post restoration monitoring shall continue for a minimum of six (6) months after verification sample data has shown restoration to be 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 (for at least six months) 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.

All other conditions of this license shall remain the same.

The effect of this amendment is to delete from License Condition No. 17 a requirement that URI receive written approval from NRC prior to starting or discontinuing post-restoration groundwater stability monitoring. Regarding your request to delete alkalinity and calcium as monitoring parameters, we do not feel there is any basis for assuming that the measured high levels of alkalinity and calcium are due only to "maturing wells" and not from lixiviant excursion.

Also, H_2S has been corrected from the previous amendment typo which read H_2S_2.

FOR THE NUCLEAR REGULATORY COMMISSION

Original Signed By:

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

40-8786/kbw/82/11/17/0

FC	URFO	URFO	URFO	URFO			
AME	KBWestbrook:ag	JJLinehan	BFisher	RDSmith			
ATE							