

DISTRIBUTION:

Rio Algom Corporation  
04008084110S

SEP 3 1982

Docket File 40-8084

PDR	
NRC Region IV	AEOD
WMUR r/f	SHO
WMUR w/f	MAuerbach
WM r/f	ACabell
NMSS r/f	JRobertson
RTWoolsey	DWeiss
PJGarcia	
BPFisher	
HJPettengill	
RDSmith	
JJLinehan	
DEMartin	
REBrowning	
JBMartin	

- 1 -

WMUR:RTW  
Docket No. 40-8084  
04008084110S  
SUA-1119, Amendment No. 15

Rio Algom Corporation  
LaSal Route  
Moab, Utah 84532

Gentlemen:

Pursuant to Title 10, Code of Federal Regulations, Part 40, and in accordance with your June 3, 1982 submittal which modified both your original application dated March 13, 1981 and the commitments made between members of the Rio Algom Corporation (RAC) staff and members of the Uranium Recovery Licensing Branch (WMUR) staff during a meeting of April 13-14, 1982, at the RAC offices, Source Material License No. SUA-1119 is hereby amended by adding a new License Condition No. 49 to revise the groundwater monitoring program and implement a groundwater recovery program. The license condition is as follows:

- 49. Notwithstanding the groundwater monitoring program specified in License Condition No. 36, the licensee shall comply with the following:
  - (a) Existing Wells H55, H56, and H77 on the north side of the tailings ponds shall be used as recovery wells. In addition, new recovery Wells RW1 and RW2 shall be drilled 500 feet east and west respectively, of Well H77. The licensee shall verify that each of the above named wells are backsealed into the Brushy Basin Shale formation and opened in the Dakota Burro Canyon formation. All recovery wells shall be pumped at as high a rate as possible without dewatering them. The rates for pumping shall be determined using the results of pump tests. These recovery wells shall be operational by October 1, 1982, and new recovery well installation data, verification of open zones for all recovery wells, and determination of pumping rates for all recovery wells shall be submitted to the Uranium Recovery Licensing Branch by November 1, 1982.

DIST: 40-8084/mne/82/05/03/1

TICKET NO:

OFC :	8209140376	820903	:	:	:	:
-----	PDR	ADOCK	04008084	-----	-----	-----
	C		PDR			
NAME :	:	:	:	:	:	:
-----	-----	-----	-----	-----	-----	-----
DATE :	:	:	:	:	:	:

SEP 3 1982

- (b) The licensee shall drill a new monitor well, MW8, into the Brushy Basin Shale 1000 feet east of existing Well MW7 along the north permit boundary. This well shall be open in the Dakota Burro Canyon Formation. The need for and location of additional monitoring wells along the northern property boundary shall be determined as specified in Item (a) of the licensee's June 3, 1982 submittal. Well MW8, and additional wells if needed, shall be installed by October 1, 1982. Well completion data and justification for installing no additional monitoring wells on the northern property boundary shall be submitted to Uranium Recovery Licensing Branch by November 1, 1982.
- (c) The licensee shall drill two new monitoring wells on the south side of the tailings ponds which will be opened to the Brushy Basin Shale. These wells, to be identified as MW11 and MW12, shall be located at equal spacings between existing wells MW6 and DM80-2. The wells shall be cased in a manner and size suitable for later pumpback operations, if necessary. The wells shall be installed by October 1, 1982 and well completion data for MW11 and MW12 shall be submitted to Uranium Recovery Licensing Branch by November 1, 1982.
- (d) A well injection program shall be implemented as specified in Items (e) and (f) of the licensee's June 3, 1982 submittal. This program shall be implemented by October 1, 1982. Details of the injection process, including injection rate, injection pressure, grout composition, and completion data for Well GW1, shall be submitted for NRC review by November 1, 1982.
- (e) All wells specified in (a), (b), and (c) above shall be sampled monthly for a period of six months following installation of the new wells, and quarterly thereafter.

Additionally, the following monitoring wells shall be sampled on a quarterly basis: H48, H57, MW1, MW2, MW6, MW7, D3, D10, H71, H72, H73, H10, H38, H78, MW4, H49, DM80-1, DM80-2, DM80-3, DM80-4, and MW5 (control well).

- (f) Analysis of samples from the wells specified in (e) above shall be performed for the following parameters: U-nat, Ra-226, Th-230, Pb-210, Po-210, alkalinity, Cl, NO<sub>3</sub>, Se, SO<sub>4</sub>, pH, conductivity, and TDS.

DIST: 40-8084/mne/82/05/03/1

TICKET NO:

---

OFC :	:	:	:	:	:	:
NAME :	:	:	:	:	:	:
DATE :	:	:	:	:	:	:

---

OFFICIAL DOCKET COPY

SEP 3 1982

In addition, Wells MW 7, DM80-1, and all new monitor well(s) located along the northern perimeter boundary shall be monitored for water levels.

- (g) The licensee shall provide the NRC for review and approval in the form of a license amendment a proposed implementation program for a pumpback recovery well system on the south side of the tailings pond. The proposed program shall include contaminant levels at which the licensee would commence pumpback operations within a specified period of time. This proposed mitigative action program shall be submitted by November 1, 1982. The licensee shall provide a revised Table 1 incorporated in existing License Condition No. 36 to include all the wells specified in Items (a) through (d) above by November 1, 1982.
- (h) Data from the groundwater monitoring program specified in this condition shall be included in the submittals required by License Condition Nos. 36 and 37.

All other conditions of this license shall remain the same.

The effect of this amendment is to provide for the implementation of a seepage control system and the revision of the existing groundwater monitoring program.

This amendment was discussed during a telephone conversation between Bob Pattison of Rio Algom Corporation and Harry Pettengill, Roger Woolsey, and Pete Garcia of my staff on July 13, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

*Original signed by*

*H. J. Pettengill*  
R. Dale Smith, Chief *for*  
Uranium Recovery Licensing Branch  
Division of Waste Management

Case Closed: 04008084110S

DIST: 40-8084/mne/82/05/03/1

TICKET NO:

OFC	: WMUR <i>RTW</i>	: WMUR <i>PJG</i>	: WMUR <i>af</i>	: WMUR <i>HJ</i>	: WMUR <i>HJ</i>	:
NAME	: RTWoolsey:mb	: PJGarcia	: BPFisher	: HJPettengill	: RDSmith	:
DATE	: 9/1/82	: 9/1/82	: 9/1/82	: 9/1/82	: 9/1/82	:

OFFICIAL DOCKET COPY