

Docket 040-07580
License SMB-911



February 2, 2011

United States Nuclear Regulatory Commission
Regional Administrator
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011

RE: License SMB-911, Docket #40-7580 – Report of concentrations of radioactive material exceeding a license reporting requirement

Dear Regional Administrator:

Please find attached a report issued in accordance with the requirements of NRC Source Material License SMB-911.

Should you have any questions or comments regarding this matter, please contact Bob Compernelle or me at (918) 687-6303.

Sincerely,

A handwritten signature in black ink that reads 'James Burgess'. The signature is fluid and cursive, with a long horizontal line extending from the end of the name.

James Burgess
Operations Manager

Attachment

Copy to: James Shepherd – NRC Project Manager
Bob Evans – NRC Inspector
Mike Broderick – ODEQ
Bob Compernelle - FMRI, Inc.
File (NRC – 060810)

FMRI, Inc.

Muskogee, Oklahoma
U.S.NRC Materials License SMB-911

Report of concentrations of radioactive material exceeding a license reporting requirement

(i) Estimate of each individual's dose;

No individual received any dose as a result of exceeding the groundwater monitoring requirement described in NRC Materials License SMB-911 at Section 3.5.6 "Groundwater Monitoring", item 3.

(ii) The concentrations of radioactive material involved;

The concentrations of radioactive material in Monitoring Well 74 were:

Radionuclide	10 CFR 20 Appendix B Table 2 Effluent Concentration $\mu\text{Ci/ml}$	FMRI, Inc. MW-74 Sample Concentration $\mu\text{Ci/ml}$	Sample Date	Date Reported
U-238	3.00E-07	43.75E-07	9/30/10	2/2/11
U-234	3.00E-07	39.7E-07	9/30/11	2/2/11

(iii) The cause of the concentrations;

FMRI, Inc. collects samples of groundwater from monitoring locations on site. The monitoring is performed in accordance with NPDES Permit OK0001643 and NRC Materials License SMB-911, Section 3.5.6. The source material license includes concentration limits for these samples above which specific actions are required by the licensee.

Construction activities began on June 8, 2005 for Phase I decommissioning activities to remove WIP from Ponds 2 and 3. FMRI performs radiological sampling of its groundwater wells and interceptor trench. Trending analysis is reviewed by the Radiation Safety Committee. The trending on this well has increased since September 2005. Currently, this is the only monitoring well that has been showing an upward trend from Phase I activities.

(iv) Corrective steps taken or planned;

Notification was made to Mr. Bob Evans (NRC Region IV, Inspector) and Mr. James Sheperd (NRC Headquarters, Project Manager) of the condition.

A Condition Report (CR) was issued for this incident on 12/03/10 when gross alpha and gross beta results were received. The CR addresses the elevated gross alpha/beta results and requests isotopic uranium and isotopic thorium analysis to be performed. The CR also states that if the isotopic result is 10x the limit specified in 10 CFR Part 20 Appendix B, Table II. A report to the Administrator, NRC Region IV, and the ODEQ will be submitted within 30 days.

Monitoring Well 74 is directly up-gradient of the Site interceptor trench, and to the northeast of Pond 2. All of the groundwater at the Site including the groundwater in the vicinity of this well is collected in the site interceptor trench and is pumped to the facility wastewater treatment plan for treatment. The treated wastewater then discharges through the facility NPDES permitted outfall 001.