



October 24, 2006

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DNMS

United States Nuclear Regulatory Commission
Regional Administrator Bruce Mallett
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 limit. 10 CFR20.2203(a)(3)(ii)

Dear Mr. Mallett:

Please find attached a report issued in accordance with the requirements of 10 CFR20.2203(a)(3)(ii) and with respect to NRC Source Material License SMB-911.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'E. Jonathan Jackson', is written over a horizontal line.

E. Jonathan Jackson
President/CEO

Attachment

Copy to: James Shepherd – NRC Project Manager
Beth Alferink – NRC Inspector
Mike Broderick – ODEQ
Keyton Payne - FMRI, Inc.
File (NRC – 102406)

FMRI, Inc.

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

**Report of concentrations of radioactive material exceeding a license limit
10CFR20.2203(a)(3)(ii)**

(i) Estimate of each individual's dose;

No individual received any dose as a result of exceeding the groundwater monitoring limit 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	9.04E-06	06/28/06	10/09/06
U-234	3.00E-07	0	06/28/06	10/09/06
U-235	3.00E-07	8.62E-06	06/28/06	10/09/06

(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 once a quarter.

Trending analysis is reviewed by the Radiation Safety Committee once a quarter. The trending on this well has been increasing 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 Ms. Beth Alferink (NRC Region IV, Inspector) and Mr. James Sheperd (NRC Headquarters, Project Manager) of the condition.

A CR was issued by the PRSO for this incident on 9/12/06 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 then it will submit a report to the Administrator, NRC Region IV, and the ODEQ within 30 days.

E. Jonathan Jackson, President, FMRI, Inc.
#Ten Tantalum Place, Muskogee, OK 74403
Phone (918) 687-6303 / Fax (918) 687-6112

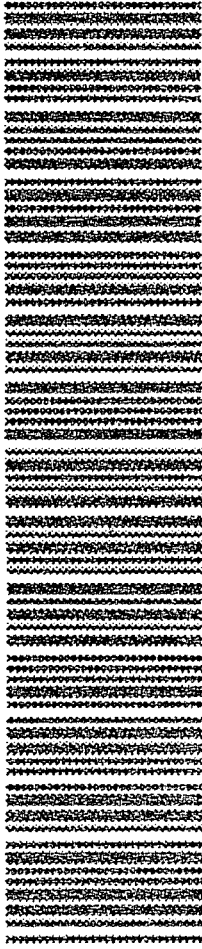
Enhanced groundwater monitoring has been established to track and trend the monitoring wells around Pond 3. Samples are to be taken twice a month for two months and then go to a monthly review for three months. If no other wells are trending up then the facility will resume quarterly sampling according to facility requirements.

Monitoring Well 74 is directly upstream of the facility interceptor trench, and to the north east of Pond 2. This well discharges into the interceptor trench and is pumped to the facility wastewater treatment plant through Sump 1. The treated wastewater then discharges through the facility NPDES permitted outfall 001. No other monitoring wells in the enhanced monitoring program have been observed as being elevated.

Waybill #: 18426599052

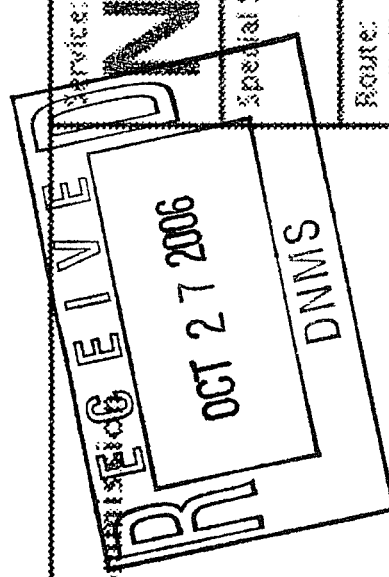
Origin: UGN

Date Printed: 10/24/2006



(2)US76811

Webship AM 02:00 (01/2004)



To:
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive
Suite 400
Arlington, TX 76011
UNITED STATES

Attention To: Bruce Mallett
Phone #: 817-860-8225

Special Services:

Route:

SBFI 2H

From:

FANSTEEL
570 LAKE COOK RD STE 200
DEERFIELD, IL 60015
UNITED STATES

Sent By: J. Jackson, FMRI
Phone #: 647-669-4800

Description:
Weight (lbs.): 1
Pieces: 1 of 1
Bill Shipment To: Sender
Ship Ref: 3514 FMRI

Dim: 0 X 0 X 0

