



December 31, 2003

Certified Mail – Return Receipt Requested

U.S. Nuclear Regulatory Commission
ATTN: Mr. James Shepherd, Project Manager
Decommissioning Branch
Division of Waste Management
11545 Rockville Pike
Two White Flint North
Rockville, Maryland

Subject: License SMB-911; Docket No. 40-7580
Current Groundwater Remediation Activities

Reference: License SMB-911, License Condition 40

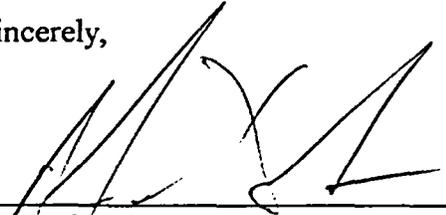
Dear Mr. Shepherd:

Pursuant to the requirements of License SMB-911, Condition 40, FMRI submits the enclosed information, describing current activities to remediate radioactive contamination in groundwater. The information is submitted as a revision to the Decommissioning Plan. Copies of the revised text and appropriate pages of the Table of Contents are included.

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President FMRI, Inc.
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If you have any questions, please call me or Keyton Payne at (918) 687-6303.

Sincerely,



A. Fred Dohmann
President, FMRI

AFD/lra

Attachments: Decommissioning Plan Table of Contents (Rev. 12/31/03)
Decommissioning Plan – Chapter 8 (Rev. 12/31/03)

Copy to: Tom Fredrick
Gary Tessitore
Jon Jackson
Keyton Payne
File (NRC-12-31-03-O)

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Figures

Figure 8-1 – Excavation Plan (Dwg 6473423)

Figure 8-2 – Conceptual Site Restoration Plan (Dwg 6473424)

Figure 8-3 – Fansteel Muskogee, Oklahoma Decommissioning Plan

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8.3.2.9 Unique Safety or Remediation Issues

There are no safety or removal/remediation issues uniquely associated with remediation of soils at this site.

8.4 Surface and Groundwater

8.4.1 Summary of Remediation Tasks

Remediation of groundwater is not included in this DP. However, management of surface water and groundwater will be necessary during remediation activities. The existing groundwater treatment program will remain in place at the Fansteel site during most of the decommissioning activities. Surface water will be managed so that contact with affected material is avoided.

8.4.1.1 Current Groundwater Remediation Activities

The current groundwater remediation strategy consists of a collection trench around the downgradient perimeter of the site. This trench intercepts and collects groundwater and routes it to a treatment facility. Treatment consists of a neutralization/flocculation by lime addition, i.e. the facility wastewater treatment system. This treatment may be preceded or superseded by an evaporation process that reduces the collection groundwater to a high solids slurry. Groundwater remediation activities will continue until it is determined that the groundwater meets relevant or applicable regulatory standards.

8.4.2 Remediation Techniques

The existing WWTP will be used to process surface water accumulated in ponds and groundwater encountered in excavations until Pond Nos. 6, 7, 8, and 9 are no longer available. The existing plant will then be modified to use sand-drying bed units to filter the water from the solids and remove free liquid from the solids prior to off-site disposal of the recovered solids. The water will be monitored and discharged to the Arkansas River after treatment. If necessary, an activated carbon filtration system may be used as a final wastewater-polishing step prior to its discharge to the Arkansas River. Alternatively, after Pond Nos. 6, 7, 8, and 9 are no longer available, accumulated water may be pumped to an evaporator treatment system to obviate the need for liquid discharges.

8.5 Schedules

Upon approval of this DP by the NRC, Fansteel will undertake preparation of designs and specifications. Subsequently, a construction contractor will be selected. Fansteel may choose to develop performance specifications and require the contractor to develop design details. Alternatively, Fansteel may opt to

develop detailed designs/specifications. In either case, preconstruction activities are expected to take approximately 12 months.

Construction activities will not be conducted during the months of December through February. Therefore, remediation is anticipated to begin in March following completion of the design/contractor selection tasks and extend over a period of approximately 3 years. Contingent upon NRC approval of this DP, the

tentative schedule for decommissioning activities is outlined in Figure 8-3. Conceptual equipment requirements and labor allocations are included in Chapter 15.0.

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