Internal Letter

Date: June 7, 1978

TO: (Name, Organization, Internal Address)
    R. J. Tuttle
    779, 071-NB13

FROM: (Name, Organization, Internal Address, Phone)
    S. M. Bradbury
    779, 071-T034
    6541

Subject: Sump Overflow in the 5,000-Gal Holdup Tank Enclosure at the RMDF

At 1625 on May 22, 1978, water was seen running out of the 5,000-gal holdup tank enclosure. The sump pump had shorted out and quit. Approximately 40 to 50 gal of water contaminated with MFP had run thru a break in the asphalt dike for about 40 yards west and south from the enclosure from 2 ft to 10 ft wide. The wet area was covered with Pell-A-Cell, and the area was marked with a white paint outline.

A HV air sample was taken downwind at the edge of the contaminated area, results were $3.21 \times 10^{-10} \mu\text{Ci/cc}$, immediate count.

The Pell-A-Cell absorbent was picked up with shovels and put into 55-gal drums and then the contaminated area was vacuumed. It was then decided to foam the area and vacuum, this was finished by 2030.

On May 23, 1978, 50 smears were taken of the foamed and vacuumed area, 5 smears showed contaminations from 108 d/m to 356 d/m/100 cm². The 5 contaminated smears were all within a area of 15 ft from the holdup tank enclosure fence. The contaminated area was again foamed and vacuumed. Fifteen smears were taken of this area and the results were all <100 d/m/100 cm².

An outside contractor heavy-duty trailer was setting in the contaminated area and eight tires on the trailer were contaminated from 59 d/m to 601 d/m/100 cm². The tires were cleaned to <50 d/m/100 cm² and the trailer removed from the area.

A survey of the contaminated area using a PUG with a shielded Eberline HP-210 probe was made. Direct reading of 20,000 c/m to 45,000 c/m were observed. Background reading in this area was approximately 4,000 c/m.

On May 30, 1978, the contaminated area was foamed with Ammoniated Turco Meteor All Purpose Water Emulsion Cleaner, the area was then scrubbed with a stiff bristle brush and vacuumed. Readings with a PUG and HP-210 probe showed no significant change. On June 1, 1978, the contaminated area was covered with Midwest's Z-40 Floor and Road Seal Emulsion to fix any possible loose contamination.
The asphalt dike around the 5,000-gal holdup tank enclosure was broken during the heavy rains in January and February to let the rainwater drain out. A work order to fix the dike was placed with Industrial Engineering around February 15, 1978, as of this date the dike has not been repaired.

A sample of the contaminated water was sent to John Moore for analysis.

Approximately 100 manhours were used to clean the contaminated area.

S. M. Bradbury
Health and Safety Representative
Radiation and Nuclear Safety

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    J. Harris T034
    R. McCurnin T020
    J. Moore NB13
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