

ENCLOSURE

Metropolitan Edison Company
Three Mile Island Nuclear Station Unit 1 (TMI-1)
Docket No. 50-289
Operating License No. DPR-50
Nonroutine 7-Day Environmental Report 75-01

Report of an Anomalous Measured Level of Radioactivity in the Environment

Description of Measured Level

Monthly composites of weekly grab samples of river water collected at approximately 0.5 miles (Station 9A2) and 1.5 miles (Station 9B1) downstream from the TMI-1 discharge showed tritium concentrations as follows:

9A2 - $1.45 \pm 0.01 \times 10^{-5}$ $\mu\text{Ci/ml}$

9B1 - $6.44 \pm 0.11 \times 10^{-6}$ $\mu\text{Ci/ml}$

These values are greater than ten times the control station value of 2.5×10^{-7} $\mu\text{Ci/cc}$ which was determined by Met-Ed's consultants during the TMI-1 pre-operation period. Analysis of the sample by gamma spectroscopy indicated all other isotopes were less than minimum detectable levels.

Discharges are made from the TMI-1 Liquid Waste Evaporator Condensate Tanks based on operating conditions. Processing of liquid radioactive waste water by liquid waste evaporators was unusually heavy during April due to backup from previous months when the evaporators exhibited reduced availability.

Analysis of Measured Levels

It has been determined that neither the health nor safety of the public was threatened by the activity levels represented by these sample results in that:

- a. The level of tritium activity was less than $1/200$ th of the Maximum Permissible Concentration given in 10CFR20 for unrestricted areas.
- b. The level of tritium activity at the nearest downstream source of public water use was at a normal background level ($3.70 \pm 0.75 \times 10^{-7}$ $\mu\text{Ci/ml}$).
- c. No Technical Specification limits were exceeded.
- d. The discharge of effluents from the Liquid Waste Evaporator Condensate tank is a normal process associated with unit operations, and is described in the Final Safety Analysis Report.

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