

IMMEDIATE
PRELIMINARY NOTIFICATION

April 22, 1979

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE -- PNO-79-67AC

This preliminary notification constitutes summary information of an event of safety or public interest significance. The information presented is a summary of information as of 7:00 a.m. on April 22, 1979.

Facility: Three Mile Island Unit 2
Middletown, Pennsylvania (DN 50-320)

Subject: NUCLEAR INCIDENT AT THREE MILE ISLAND

Plant Status

The average primary coolant temperature is still being maintained at 175 degrees F by admitting steam directly to the main condenser through the main turbine. The highest incore thermocouple reading is 274 degrees F.

Now that Train A of the Auxiliary Building Ventilation System is in service, preparations are being made to change the filters in Train B. Work is also in progress to change the charcoal filters of Train A of the Fuel Handling Building Ventilation System. Train A was selected for replacement instead of Train B as reported in PNO-79-67AB.

Environmental Status

Onsite Measurements

Two Aerial Measuring System (AMS) surveys were conducted during the period 3:00 p.m. - 10:00 p.m. on April 21, 1979. No airborne radioactivity was detected.

Iodine concentrations at Unit 2 ventilation stack. (Analyzed by NRC Mobile Laboratory).

<u>Date/Time</u>	<u>Activity (uCi/cc)</u>
4/21 (0404) - 4/21 (0819)	5.2×10^{-8}
4/21 (0819) - 4/21 (1201)	8.0×10^{-8}
4/21 (1204) - 4/21 (1625)	8.8×10^{-8}
4/21 (1648) - 4/21 (2017)	4.9×10^{-8}
4/21 (2018) - 4/22 (0103)	1.1×10^{-7}
4/22 (0103) - 4/22 (0441)	1.1×10^{-7}

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IMMEDIATE PRELIMINARY NOTIFICATION

Off Site Measurements

Radiation Levels

Offsite radiation levels identified by NRC survey teams continue to be consistent with normal background levels (0.02 mR/hr maximum). These results were obtained from routine surveys performed downwind on the east and west sides of the Susquehanna River at distances up to five miles north and south of the site.

Dose rates (47 locations) as measured by NRC thermoluminescent dosimeters (TLDs) for the past 24-hour period are near expected natural background levels.

NRC Environmental Samples (Samples taken offsite within 3 miles of site - analyzed in mobile laboratory)

<u>Sample Type</u>	<u>Date of Sample</u>	<u>Number of Samples</u>	<u>Results</u>
air	4/21-22	9	Less than MDA*
daily air	4/21-22	1	Less than MDA
grass	4/20-21	2	Highest 2.4×10^{-4} microcurie per square meter
milk	4/19-20	5	Less than MDA

* MDA = minimum detectable activity

EPA Environmental Samples (Analyzed at Remote Laboratory)

<u>Sample Type</u>	<u>Date of Sample</u>	<u>Number of Samples</u>	<u>Results</u>
air	4/18	27	Less than MDA
air	4/18	4	Highest 2.9×10^{-12} microcuries per cubic centimeter (2.9 pico-curies/cubic meter)
milk	4/18	3	Less than MDA

All EPA samples were taken at distances greater than 3 miles from the site.

The Commonwealth of Pennsylvania has been informed of these results.

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