

IMMEDIATE
PRELIMINARY NOTIFICATION

QCB

April 24, 1979

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

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 24, 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 271 degrees F.

The charcoal filters in Train A of the Fuel Handling Building Ventilation System have been replaced. This train was placed in service at 6:30 a.m. April 24, 1979. Twenty-eight of 90 charcoal filters in Train B of the Auxiliary Building Ventilation System have been replaced.

Environmental Status

One Aerial Measuring System (AMS) Survey was made between 10:15 p.m. and 11:15 p.m. on April 23, 1979. No radioactivity above natural background was detected.

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

<u>Date/Time</u>	<u>Activity (uCi/cc)</u>
4/23 (0007) - 4/23 (0406) ⁺	6.7 x 10 ⁻⁸
4/23 (0407) - 4/23 (0758)	5.9 x 10 ⁻⁸
4/23 (0801) - 4/23 (1201)	3.6 x 10 ⁻⁸ ⁺⁺
4/23 (1223) - 4/23 (1614)	1.4 x 10 ⁻⁷ ⁺⁺
4/23 (1617) - 4/23 (2010)	6.3 x 10 ⁻⁸
4/23 (2014) - 4/23 (2156)	5.7 x 10 ⁻⁸
4/23 (2159) - 4/24 (0001)	5.9 x 10 ⁻⁸
4/24 (0004) - 4/24 (0404)	4.9 x 10 ⁻⁸

+ This entry was incorrectly reported in PNO-79-67AD.

++ These are licensee contractor values.

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Offsite Measurements

Radiation Levels

Offsite radiation levels indentified 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 side 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 continue to be consistent with normal 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	4/23-24	10	Less than MDA
milk	4/21	4	Less than MDA
daily air	4/22-23	1	Less than MDA

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	4/19	26	Less than MDA
air	4/19	5	Range from 2.1 to 6.9 x 10 ⁻¹³ microcuries per cubic centimeter (0.21 to 0.69 picocuries per cubic meter)
air	4/20	5	Range from 9 to 168 picocuries per cubic meter of Xe-133. 14 to 22 picocuries per cubic meter Kr-85.** These are approximately background levels.
milk	4/18	6	Less than MDA
milk	4/19	9	Less than MDA

All EPA samples were taken at distances greater than 2 miles from the site.

*MDA = minimum detectable activity.

**Maximum Permissible Concentration for Xe-133 and Kr-85 is 300,000 picocuries per cubic meter.

The Commonwealth of Pennsylvania has been informed of these results.

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