

IMMEDIATE  
PRELIMINARY NOTIFICATION

April 23, 1979

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

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 23, 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 272 degrees F.

The charcoal filters in Train A of the Fuel Handling Building have been replaced. This train is scheduled to be placed in service this date. This action is expected to further reduce the concentration of Iodine being released from the ventilation stack. The previous action of changing the charcoal filters in Train A of the Auxiliary Building Ventilation System was successful and reduced Iodine discharges by approximately 40 percent. Preparations are still being made to change the charcoal filters in Train B of the Auxiliary Building Ventilation System.

A pressurized primary coolant sample was taken at 11:30 a.m. on April 22, 1979 and sent to B&W Lynchburg, Va. for analysis.

Environmental Status

Onsite Measurements

No Aerial Measuring System (AMS) survey was conducted on April 22, 1979.

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

<u>Date/Time</u>	<u>Activity (uCi/cc)</u>
4/22 (0447) - 4/22 (0804)	$8.8 \times 10^{-8}$
4/22 (0807) - 4/22 (1229)	$9.3 \times 10^{-8}$
4/22 (1230) - 4/22 (1621)	$9.6 \times 10^{-8}$
4/22 (1624) - 4/22 (2024)	$1.3 \times 10^{-7}$
4/22 (2036) - 4/22 (2130)	$1.3 \times 10^{-7}$
4/22 (2130) - 4/23 (0004)	$9.6 \times 10^{-8}$
4/23 (0007) - 4/23 (0440)	$5.9 \times 10^{-8}$

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Offsite 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 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 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 Sample</u>	<u>Results</u>
air	4/22-23	7	Less than MDA*
daily air	4/21-22	1	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 Sample</u>	<u>Results</u>
air	4/21	21	Less than MDA
air	4/21	10	Highest $8.6 \times 10^{-13}$ microcuries per cubic centimeter (.86 picocuries per cubic meter)
air	4/21	2	118 picocuries per cubic meter of Xe-133 in one sample. 20 and 24 picocuries per cubic meter Kr-85.** These are approximately background levels.
Soil	4/21	31	Nothing above natural background
Vegetation	4/21	31	Nothing above natural background

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

\*\* 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.

Contact: RCPaulus, IE x27246 DThompson, IE x28487

Distribution: Transmitted H St 12:00

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IE (TMI) Site 12:41 (Provide copy to STATE)

White House Situation Room ~~2:20~~

FDA 1:30 (Provide copies to the Administrator and the Operations Center)

EPA 2:10

DOE/EOC 2:15

PEMA 2:39

BRP (State of PA) ~~2:30~~

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HEW (Pickup)

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