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IMMEDIATE  
PRELIMINARY NOTIFICATION

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May 1, 1979

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

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 May 1, 1979.

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

Subject: NUCLEAR INCIDENT AT THREE MILE ISLAND

Plant Status

The average coolant temperature is being maintained at 175 degrees F by natural circulation. Steam is being admitted to the main condenser through the turbine bypass valves from the A Steam Generator. The highest incore temperature reading is 326 degrees F.

Environmental Status

One Aerial Measuring System (AMS) Survey was made on April 30, 1979. No radioactivity above natural background was detected.

Iodine concentration at Unit 2 ventilation stack for the 24 hour period ending at 12:08 a.m., April 30 was  $1.5 \times 10^{-8}$  microcuries per cubic centimeter (Analyzed by NRC Mobile Laboratory).

Offsite Measurements

Radiation Levels

Offsite radiation levels identified by NRC survey teams continue to be consistent with natural background levels (0.02 mR/hr maximum). These results were obtained from routine daily 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 continue to be consistent with natural background levels.

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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	4/30	4	Less than MDA*
daily air	4/29-30	1	Less than MDA
cow's milk	4/28	1	Less than MDA
discharge water	4/30	1	Less than MDA
vegetation	4/30	3	Less than MDA
goat's milk	4/30	1	3.19 x 10 <sup>-8</sup> uCi/ml

EPA Environmental Samples (Analyzed at Remote Laboratory)

<u>Sample Type</u>	<u>Date Collected</u>	<u>Number</u>	<u>Results</u>
Air Iodine	4/23	25	Two samples had detectable I-131 (Highest at 1.0 picocuries per cubic meter) - (Less than MDA on all others)
	4/24	7	
Milk	4/23, 24, 25	18	Less than MDA for I-131
Noble gases	4/26, 27, 28	6	Xe-133 level from 10 to 958 picocuries per cubic meter. The highest was collected on 4/26-4/28 5.3 mi @ 145°. Kr-85 was within the range of normal Kr-85 background.)
Water	4/22-4/27	3	Less than MDA.
Air Iodines	4/28	31	Less than MDA. 2 were less than MDA, two showed I-131 at 0.38 and 0.48 picocuries per cubic meter.
	4/29	4	

No other agency data received.

The Commonwealth of Pennsylvania has been informed of these results.

\*MDA - minimum detectable activity.

Correction

PNO-79-67AK, 4/30/79, reported 34 discharge water samples collected on 4/29/79. It should have read 4.

IMPORTANT NOTE - FUTURE PN'S

This is the last daily update of information on the Three Mile Island incident. Henceforth, updates will be issued each Monday. Significant information, however, will be reported immediately in a Preliminary Notification.

Contact: RCPaulus, IE x27246 DThompson, IE x28487

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