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April 7, 1980
NRC/TMI-80-061

MEMORANDUM FOR: H. R. Denton, Director,
Office of Nuclear Reactor Regulation

B. J. Snyder, Program Manager,
TMI Program Office

FROM: J. T. Collins, Deputy Program Manager,
TMI Program Office

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Enclosed is the status report for the week of March 29 - April 4, 1980.

Original signed by
John T. Collins

John T. Collins
Deputy Program Manager
TMI Program Office

Enclosure: As stated

cc: EDO
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OFFICE ▶	TMI	TMI	TMI	TMI	TMI:DPM	
SURNAME ▶	RConte/lmp	M. Shanbaky	A. Fasano	M. Greenberg	J. Collins	
DATE ▶	4/7/80	4/7/80	4/7/80	4/7/80	4/7/80	

NRC Form 318 (2-76) NRCM 0240

NRC TMI WEEKLY STATUS REPORT

Week of: March 29 - April 4, 1980

Plant Status

Core Cooling Mode: Cyclic Natural Circulation in the "A" Reactor Coolant System (RCS) Loop via the "A" Once Through Steam Generator (OTSG), Steaming to the Main Condenser, and RCS Loop-A and B Cyclic Natural Circulation to Reactor Building ambient.

Available Core Cooling Modes: OTSG "B" to the Main Condenser; Long Term Cooling "B" (OTSG-B); Decay Heat Removal.

RCS Pressure Control Mode: Standby Pressure Control (SPC) System.

Backup Pressure Control Mode: Makeup system in conjunction with letdown flow (Emergency use only due to RCP seal injection isolated due to suspected leaks in system).

Major Parameters (As of 0400, April 4, 1980) (approximate values)
Average Incore Thermocouples: 146°F
Maximum Incore Thermocouple: 184°F

RCS Loop Temperatures:

		A	B
Hot Leg		144°F	150°F
Cold Leg	(1)	106°F	106°F
	(2)	110°F	120°F

(A and B Loop recovering from "burp")

RCS Pressure: 293 psig (Heise)

Pressurizer Temperature: 341°F (Saturation Pressure 105 psig)

Reactor Building: Temperature: 81°F
Pressure: -.8 psig (Heise)
Water level: Elevation 290.5 ft. (8.0 ft. from floor) via Decay Heat System
Elevation 289.9 ft. via Penetration 401 Manometer

Environmental & Effluent Information

1. Liquid effluents from TMI-1 released to the Susquehanna River, after processing, were within the limits specified in Technical Specifications.

2. No liquid effluents were discharged from TMI-2.

3. Results from EPA monitoring of the environment around the TMI site were:

   -- EPA environmental stations registered background levels for air and water samples.

-- Instantaneous direct radiation readings showed no levels above background.

-- Gaseous air samples (KR-85) results showed for the periods:*

March 20-26 @ Met-Ed Observation Center - 25 $\pm$ 2.1 pCi/m^3

March 21-24 @ Goldsboro, Pennsylvania 22 $\pm$ 1.8 pCi/m^3

*Both results are well within the average values reported for the past six months.

-- Total Kr-85 released during January 1 - March 31, 1980 was 223 Curies (March total release was 63 Curies).

4. Radwaste shipments off site were as follows:

-- On Wednesday, April 2, 1980, a Type A Dewatered Resin liner (EPICOR I) was sent to Richland, Washington burial ground. The shipment was examined and surveyed by onsite NRC staff; and,

-- On Monday, March 31, 1980, a reactor water and pressurized gas sample was sent to B&W Facility, Lynchburg, Virigina, for chemical and radiochemical analyses.

Major Activities (Past and Present)

1. The decontamination effort in the seal injection room continued. Airborne particulate concentrations in the auxiliary building ranged from 10^{-12} to 10^{-9} uCi/cc. Periodic air monitor alarms also resulted as expected.

Further, as a result of these evolutions and visual surveillance of the seal injection room, a leak (fine mist) was noticed to persist even with the seal injection line isolated. Therefore, on March 29, 1980, the operating makeup pump (No.-1B) was secured and there was no further indication of the persistant spray. It was suspected that the seal injection isolation valve had a certain amount of seat leakage passing shut-off head makeup pump pressure.

The decontamination effort is a critical path for existing plans to depressurize the RCS to 100 psig to support operation of the Mini Decay Heat System.

This area continues to be followed by the NRC staff.

2. EPICOR II system modifications are complete. Testing and training is in progress and will continue through April 5, 1980. It is expected that system start-up and water processing from a reactor coolant bleed tank (B) will be on April 7, 1980.

3. Over the past few months eight ground water monitoring wells were drilled in various locations around the Unit 2 reactor building to detect leakage from the reactor building sump. Initial samples from the wells have been analyzed. Samples from seven wells indicate tritium activity in

the 1.6×10^{-7} to 9.9×10^{-7} uCi/ml range. Tritium activity in well No. 2 was initially 1.53×10^{-6} uCi/ml. After the initial well water content was pumped out, a second sample was taken and indicated a tritium activity of 2.50×10^{-6} uCi/ml. Well No. 2 is located approximately 50 feet from the borated water storage tank and 200 feet from the reactor building.

Water samples from several wells were brown in color. The source of the color was not determined.

Licensee and NRC representatives are outlining a program to determine the source of the tritium activity and the reason for the water discoloration. Natural background tritium activity in the area as recorded by the EPA is 2.00×10^{-7} uCi/ml.

Future Evolutions

A Unit 2 emergency drill is scheduled for April 10, 1980. This is the rescheduled drill from March 20, 1980. NRC TMI Program Office will monitor this drill with participation of a Region I inspector.

Public Affairs

1. On Monday, March 31, 1980, John Collins attended a meeting of the Middletown Borough Council and discussed the proposed venting of krypton from the TMI-2 reactor building. Approximately 75 residents of Middletown attended the meeting.

2. On April 2, 1980, a press release announced the NRC staff issuance, for public comment, of a second Addendum to its draft report "Environmental Assessment for Decontamination of Three Mile Island Unit 2 Reactor Building Atmosphere" (Addendum 2 to NUREG-0662).

   The Addendum considers a variation in the previously recommended method for decontaminating the reactor building atmosphere by purging--venting--radioactive krypton-85 to the atmosphere. It recommends that more rapid purging than previously considered be used to remove the radioactive gas which are favorable to dispersion of the gas in the atmosphere.

   This variation would involve the use of both the hydrogen control subsystem and the reactor building purge system would be used to remove the atmosphere through a filler system and discharge it to the environment through the 160-foot plant vent stack. Using this method, the total time needed to purge the containment building could be reduced to approximately five days compared to about 60 days if the hydrogen purge subsystem were used alone.

3. On Thursday, April 3, 1980, John Collins and Tom Elsasser met with Secretary Clifford Jones and Thomas Gerusky to discuss meetings with elected local officials to brief them on activities at TMI.

Future Meetings

1. On Thursday, April 10, 1980, John Collins will meet with the Dauphin County Commission to discuss venting of the reactor building and other activities at TMI.

2. On Thursday, April 10, 1980, John Collins will address the PA School Counselor's Association on the role of the NRC. The meeting will be held in the Founders Hall, Hershey School, Hershey, PA.

3. On Thursday, April 10, 1980, John Collins will appear on WITF-TV to discuss clean-up activities at TMI.

4. On Friday, April 11, 1980, Harold Denton, Bernard Synder, and John Collins together with Secretary Clifford Jones, PA-DER, will meet with the Capital Forward Group to discuss the venting of the TMI-2 reactor building.

General

On Sunday, April 6, 1980, the NRC Middletown Office was vandelized. The plate glass door was broken during the early morning hours. No apparent entry was made. PNO-TMI-80-21 was issued.