



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

September 8, 1980
NRC/TMI-80-130

MEMORANDUM FOR: H. R. Denton, Director,
Office of Nuclear Reactor Regulation
B. J. Snyder, Program Director,
TMI Program Office

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

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Enclosed is the status report for the week of August 30 - September 6, 1980.

John T. Collins
John T. Collins
Deputy Program Director
TMI Program Office

Enclosure: As stated

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NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT

Week of August 30 - September 6, 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 suspected leaks in the seal injection system).

Major Parameters (As of 0500, September 5, 1980) (approximate values)

Average Incore Thermocouples: 135°F

Maximum Incore Thermocouple: 180°F

RCS Loop Temperatures:

	A	B
Hot Leg	131°F	134°F
Cold Leg (1)	88°F	96°F
(2)	84°F	96°F

RCS Pressure: 92 psig (DVM)
89 psig (Heise)

Pressurizer Temperature: 87°F

Reactor Building: Temperature: 82°F
Water level: Elevation 290.4 ft. (7.9 ft. from floor)
via penetration 401 manometer
Pressure: -0.3 psig (Heise)
Concentration: 3.2×10^{-4} uCi/cc (Kr-85)

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. EPA Environmental Data. Results from EPA monitoring of the environment around the TMI site were as follows:

- The EPA measured Kr-85 concentrations (pCi/m³) at several environmental monitoring stations and reported the following results:

<u>Location</u>	<u>August 22-29, 1980</u> (pCi/m ³)
Bainbridge	22
Goldsboro	27
Observation Center	22
Middletown	23
Hill Island	26

All of the above levels of krypton-85 are considered to be background levels.

- EPA environmental stations registered background levels for air particulate and water samples. Gamma scan results for all sampling locations were negative. Gamma rate recorder measurements are all attributed to naturally occurring radioactivity.

4. NRC Environmental Data. The following are the NRC air sample analytical results for the onsite continuous air sampler:

<u>Sample</u>	<u>Period</u>	<u>I-131</u> (uCi/cc)	<u>Cs-137</u> (uCi/cc)
HP-231	August 27 - September 2, 1980	<6.8 E-14	<6.8 E-14

5. Licensee Radioactive Material and Radwaste Shipments. The following shipments were made:

- On Tuesday, September 2, 1980, a Unit 2 reactor coolant sample was shipped to Babcock and Wilcox (B&W), Lynchburg, Virginia.
- On Tuesday, September 2, 1980, an EPICOR I dewatered resin liner was shipped to Nuclear Engineering Company (NECO), Richland, Washington.
- On Wednesday, September 3, 1980, an EPICOR I dewatered resin liner was shipped to NECO, Richland, Washington.
- On Thursday, September 4, 1980, a box containing Unit 2 air sample filter papers was sent to Teledyne Isotopes, Westwood, New Jersey.
- On Friday, September 5, 1980, a shipment of Unit 2 non-compacted waste was shipped to NECO, Richland, Washington.
- On Friday, September 5, 1980, a Unit 2 shipment of fifty-four (54) drums of laundry was sent to Tri-State Industrial Laundries, Utica, New York.

Major Activities

1. EPICOR II System

The major work items are essentially complete. However, the system still remains in an outage condition. Startup of the system is low priority due to the lack of intermediate level waste water.

2. Long Term Spent Resin Storage Facility

Fifty of the sixty spent resin storage cells in the "A" long-term waste storage module hold spent resin liners. The four additional storage cells have become available due to the shipment of Unit 1 liners offsite and the stacking of 4' x 4' liners. Since the commencement of stacking, the licensee has stacked six 4' x 4' liners, two per storage cell. Also, the construction of "B" long term waste storage module has been completed, creating sixty more additional storage cells.

The licensee started shipping Unit 1 liners offsite from the temporary interim storage facility. At present, twenty-one of the twenty-eight cells hold liners.

3. Reactor Building Status

Purging of the reactor building was not accomplished this week due to the relatively low curie content. The next entry is scheduled for the week of September 21-27, 1980.

4. Mini Decay Heat (MDH) System

Preoperational testing of the MDH system continued this week. System operational readiness date was not finalized.

5. Status of Ground Water Monitoring Program

The ground water monitoring program around the Unit 2 reactor building is continuing. Water samples from the 15 wells are taken weekly. Tritium activity in the water from the various wells has remained essentially constant. No other radioisotopes have been identified. The most current analysis results are from samples taken on July 7, 1980.

In addition to the weekly water samples, soil samples collected during the drilling of wells are being analyzed. The analysis of a soil sample obtained 22 feet below the surface during the drilling of observation well (OW) 12 has revealed a tritium activity of 10,100 pCi/L. This is the highest tritium activity detected from any water or soil sample to date. OW 12 was drilled adjacent to the pumps and valves which transfer borated water storage tank (BWST) water. The surface soil in this area has been removed several times following contamination from periodic water leaks.

OW 12 was abandoned following pipe failure during construction. OW 17 was drilled in the immediate area as a replacement. The highest detected tritium activity in a water sample, 4180 pCi/L, was obtained from a sample taken from OW 17. The high tritium activity in the soil and water in the vicinity of the BWST supports the theory that the source of the tritium is leakage from BWST associated equipment rather than leakage from the reactor building.

A map showing the location of each well annotated with the highest detected tritium activity in water is attached. Wells 1 and 15 were drilled at each end of the island to provide an indication of background activity. Tritium MPC for uncontrolled areas is 3×10^{-3} μ Ci/m³. This equates to 3×10^6 pCi/L.

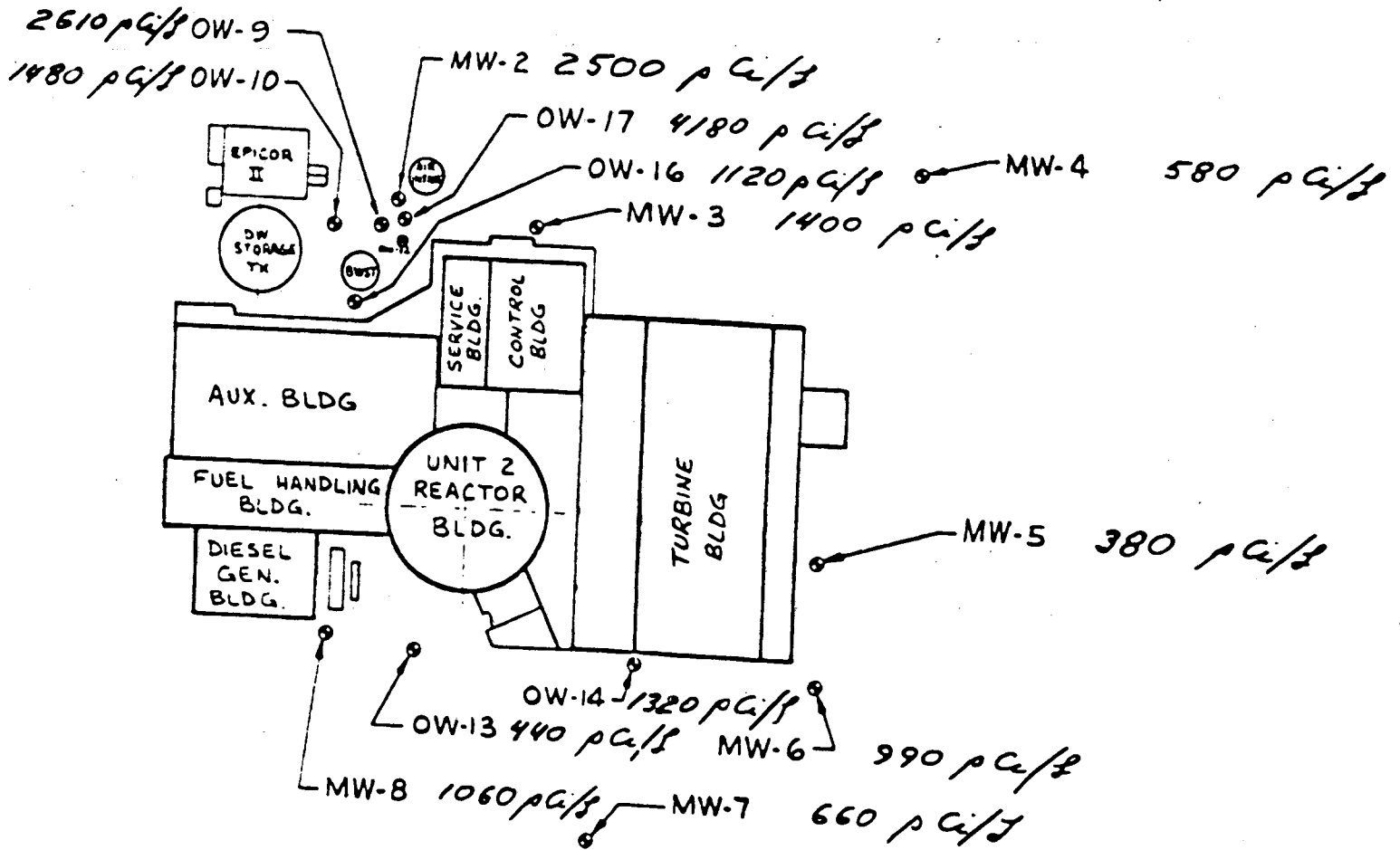
Meetings Held

1. On Wednesday, September 3, 1980, J. Collins and B. Snyder held a briefing with local elected officials, citizens, and the press on the contents of the draft Programmatic Environmental Impact Statement (PEIS). The meeting was hosted by the PA Department of Environmental Resources (DER) and held at the Forum Building in Harrisburg. Representatives of the Environmental Protection Agency (EPA) also participated in the meeting. Approximately 75 people attended the meeting.
2. On Friday, September 5, 1980, J. Collins, T. Elsasser and EPA representatives met with members of the Susquehanna River Basin Commission to discuss the contents in the PEIS.

Future Meetings

J. Collins will attend a meeting in Las Vegas, Nevada, on September 10-13, 1980, with representatives of EPA, Department of Energy (DOE), PA DER and Metropolitan Edison Company to discuss the results of purging krypton-85 from the TMI-2 reactor building.

WELL LOCATIONS



ATTACHMENT 1 TO ENCLOSURE 1

COMMENTS:

1. MW-1 LOCATED IN NORTH PARKING LOT @ COORDINATES N 301,460.04
E 2,286,538.94
990 pCi/l
2. OW-15 LOCATED ON SOUTH END OF ISLAND @ COORDINATES N 292,985.44
E 2,287,765.09
220 pCi/l