

March 4, 1985  
NRC/TMI-85-016

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

Bernard J. Snyder, Program Director  
TMI Program Office

FROM: William D. Travers, Deputy Program Director  
TMI Program Office

SUBJECT: NRC TMI PROGRAM OFFICE WEEKLY STATUS REPORT FOR  
February 29, 1985 - March 3, 1985

REACTOR BUILDING ACTIVITIES:

Video tapes of the lower reactor internals and the debris bed located on the lower reactor vessel head are being studied to determine whether this new information supports previous assessments of core damage and whether existing defueling concepts are adequate. The video inspection of the lower reactor vessel completed on February 22, 1985, revealed a large mass of debris (estimated 10-20 tons) on the lower reactor head. Based on the quantity and appearance of the debris, it appears that during the 1979 accident, material in the lower core region, including structural steel members below the core, melted and collected on the bottom of the reactor vessel. The ramifications of this information on previous core damage assessments are being evaluated. Existing defueling concepts will be modified to accommodate removal of the pieces of resolidified metal which are too large to vacuum. Vacuum defueling of the lower head had been previously anticipated.

The impact that the new data will have on the overall defueling schedule is uncertain. There appears to be sufficient lead time at the present stage of defueling planning to accommodate a modification in the technique for defueling the lower head without impacting the defueling completion date. The more extensive damage, however, may require modifications to defueling tools which are presently in final stages of design. Additional inspections and sampling are being contemplated to ascertain the condition of the lower core and to modify the defueling procedures accordingly.

Daily reactor building entries will continue during the first week in March. The most man-hour intensive tasks include refurbishment of the polar crane auxiliary hoist and the disassembly of the main defueling bridge.

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AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES:

Decontamination efforts have been continued in miscellaneous cubicles. Operation of the cesium elution system has continued. Refurbishment of the "A" fuel pool has continued. Piping and electrical installations for the Defueling Water Cleanup System have continued in the fuel handling building.

FUTURE MEETING:

On March 13, 1985 William Travers, Deputy Program Director, THH Program Office, will speak to the Myerstown, Pennsylvania Rotary Club. Dr. Travers will discuss the HRC's role in the cleanup at Three Mile Island, Unit 2.

/s/

William D. Travers  
Deputy Program Director  
THH Program Office

Attachments:

1. Liquid Effluent and Environmental Data
2. Shipments: Radioactive Material/Radioactive Waste
3. Plant Status

OFFICE	TMIPD	TMIPD	TMIPD	TMIPD			
SURNAME	DCollins:ms	CCowgill	PG	WTF			
DATE	3/4/85	3/1/85	3/4/85	3/4/85			

INTERNAL DISTRIBUTION

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CENTRAL FILE

NRC PDR

LOCAL PDR

TMI-2 Project

Section File

OFFICE ▶

SURNAME ▶

DATE ▶



## ATTACHMENT 1

### LIQUID EFFLUENT AND ENVIRONMENTAL DATA

#### Environmental Protection Agency

Based on EPA's sampling results, liquid effluents being released from the TMI site are within regulatory limits and in accordance with NRC requirements and the City of Lancaster Agreement.

Lancaster Water Sample: Composite sample taken over seven days

Period Covered: February 10, 1985 - February 16, 1985

Results: Gamma Scan Negative for reactor related radioactivity

TMI Water Samples: Seven daily composited samples

Period Covered: February 9, 1985 - February 16, 1985

Results: Gamma Scan Negative for reactor related radioactivity

#### NRC Environmental Data

The NRC operated continuous outdoor air sampler at the TMI site did not detect any reactor related radioactivity.

<u>Sample</u>	<u>Period</u>
HP-459	February 20, - February 27, 1985

<u>Volume</u>	<u>Results</u>
341.6 m <sup>3</sup>	LLD = 1.0 E-13 uCi/cc    I-131 LLD = 1.0 E-13 uCi/cc    Cs-137

## ATTACHMENT 2

### SHIPMENTS: RADIOACTIVE MATERIALS/RADIOACTIVE WASTE

- On February 1, 1985, a combined shipment of waste in 120 drums was sent to Hanford, WA.
- On February 6, 1985, a laundry shipment consisting of 74 drums and 5 boxes was sent to Royersford, PA.
- On February 7, 1985, a package containing Unit 1 liquid samples was sent to San Jose, CA.
- Also on February 7, 1985, a Unit 1 package containing pipe sections and a valve were sent to Lynchburg, VA.
- On February 19, 1985, a Unit 2 shipment of contaminated miscellaneous scrap metal from the reactor building was sent to Oak Ridge, TN.
- On February 20, 1985, a laundry shipment consisting of 80 drums and 2 boxes was sent to Royersford, PA.
- On February 22, 1985, a Unit 1 shipment, consisting of 8 drums of steam generator repair equipment was sent to Seneca, SC.
- On February 26, 1985, a package containing Unit 1 liquid samples was sent to Westwood, NJ.
- Also on February 26, 1985, a package containing Unit 1 liquid samples was sent to Lynchburg, VA. .
- On February 27, 1985, a shipment consisting of 109 drums and 4 boxes of contaminated laundry was sent to Royersford, PA.

### ATTACHMENT 3

#### PLANT STATUS

Reactor Vessel Configuration: Reactor vessel open with modified internals indexing fixture installed

Core Cooling Mode: Heat transfer from the reactor coolant system (RCS) to reactor building ambient

Available Core Cooling/Makeup Sources:

- Standby pressure control (SPC) system
- Reactor coolant bleed tank (RCBT) water transfer system
- Mini decay heat removal (MDHR) system
- Decay heat removal (DH) system

Reactor Coolant System:

Average Cold Leg Temperature: 59°F

Reactor Core:

- Average Incore Thermocouples:\* 81°F
- Maximum Incore Thermocouple:\* 91°F

Reactor Building:

- Temperature: 57°F
- Pressure: -0.15 psig

Airborne Radionuclide Concentrations:

- Tritium: 5.6 E-8 uCi/cc
- Particulates: 9.3 E-11 uCi/cc predominately Cs-137

\*Uncertainties exist as to the exact location and accuracy of these readings.