

February 16, 1983

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING APPEAL BOARD

In the Matter of)	
)	
METROPOLITAN EDISON COMPANY)	Docket No. 50-289
)	(Restart)
(Three Mile Island Nuclear)	
Station, Unit No. 1))	

LICENSEE'S TESTIMONY OF
FRANCIS F. MANGANARO
IN RESPONSE TO ALAB-708 ISSUE NO. 3
(HOT LEG VENT INSTALLATION STATUS)

SUMMARY

This testimony responds to the Appeal Board's question regarding the status of installation of the hot leg high point vents at TMI-1. All basic preparatory work for the vent installation has been concluded and the majority of the required materials for completing this modification have been received on site. The remaining work items, consisting mainly of electrical and piping installation, are now underway. The earliest date for completion of this modification is currently estimated to be May 21, 1983.

1 internal wiring in the PC Panel in the Control Room was
2 completed in 1982 as part of the pressurizer vent modification.
3 Sandblasting and painting of related electrical conduit
4 commenced the third week in January. Most of the Job Orders to
5 perform the work were issued by mid-February. Orders for
6 construction of scaffolding and painting of raw material have
7 been released and that work is ongoing. All material required
8 to perform the rest of the work has been identified and most of
9 the material is on hand at the present time.

10 The total remaining work scope has been divided into three
11 major activities:

- 12 A. Electrical installation outside
Reactor Building;
- 13 B. Electrical installation inside Reactor
14 Building; and
- 15 C. Piping installation inside Reactor
Building.

16 All three activities were started in mid-February. The present
17 schedule indicates an earliest system operable date of May 21,
18 1983, and the critical path is through the electrical installa-
19 tion inside the Reactor Building.

20 Manpower application has been maximized with due regard to
21 efficiency and productivity. All activities which can be
22 worked in parallel with one another have been scheduled in that
23 manner. The schedule is based upon a six-day, ten-hour-per-day
24 work week. Manpower required to accomplish the work will vary.
25 It was approximately eighteen (18) men per day at the beginning
26 and is expected to peak to approximately thirty (30) during the
March-April period and taper down to approximately eight (8) as

1 the work nears completion. Support manpower during the first
2 and last months of the job, mostly involved in the installation
3 and removal of scaffolding, will average approximately fifteen
4 (15) men per day.

5 The present schedule necessarily is adjusted as engi-
6 neering is completed, materials receipt is finalized and as
7 work progresses. It is not expected that the final schedule,
8 however, will result in any significant change in the presently
9 projected May 21, 1983 system operable date.

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FRANCIS F. MANGANARO

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Education: Bachelor of Science, Electrical Engineering, U.S.
Naval Academy, 1947.

Post-Masters Degree, Naval Architecture and Marine
Engineering, Massachusetts Institute of Technology,
1956.

Post-graduate course work in management, University
of Minnesota (1956) and Harvard University (1972).

Experience: Vice President and Director of Maintenance and Con-
struction, GPU Nuclear Corporation, July 1980 to
present. Responsible for the performance of
maintenance and construction activities at all GPU
system nuclear power plants, including the
development and coordination of uniform policies
and procedures for all routine power plant
maintenance.

U.S. Navy, 1947 to 1980. Naval service included
a variety of shipboard assignments and 16 years
in various engineering, design and repair faci-
lities assignments associated with construction,
maintenance, overhaul and refueling of nuclear
ships. Mr. Manganaro's most recent assignments
include: Vice-Commander, Naval Sea Systems
Command, 1978-1980 (retired at the rank of Rear
Admiral); Chairman and Contracting Officer, Navy
Claims Settlement Board, Navy Materials Command,
1976-1978; Commander, Puget Sound Naval Shipyard,
1972-1976; and Production Officer, Portsmouth
Naval Shipyard, 1968-1972.