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January 9, 1978

MEMORANDUM FOR: D. B. Vassallo, A/D for Light Water Reactors, Division of Project Management, NRR

FROM: J. M. Sniezek, A/D for Field Coordination, Division of Reactor Operations Inspection, IE

SUBJECT: METROPOLITAN EDISON COMPANY, THREE MILE ISLAND, UNIT NO. 2 (DN 50-320) - OUTSTANDING ITEMS

Region I has provided us with updated information regarding the status of completion of construction and preoperational testing at the subject facility. The enclosed outstanding items list is current as of January 6, 1978. Due to the incomplete status of this facility regarding system turnovers and preoperational testing, a number of inspection requirements remain to be completed. Therefore, the outstanding items provided in the enclosure are expected to be only a partial listing of the items requiring resolution prior to issuance of an operating license.

Only one category of significance has been established at the present time. After further evaluation of each item, additional categories may be defined to require resolution of specified items prior to a more appropriate operational mode (initial criticality, heatup, etc.). Pending satisfactory resolution of the items listed and others that may be identified as a result of completing the inspection program, IE will make a finding that the facility has been completed in substantial agreement with docketed commitments and regulatory requirements.

The licensee's projected fuel load date is January 15, 1978. The Region estimates that this date will slip by at least two weeks.

J. M. Sniezek, A/D for Field Coordination
Division of Reactor Operations Inspection, IE

Enclosure:
Items to be Completed Prior to Fuel Loading

cc: H. D. Thornburg, IE
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DATE ▶			1/9/78	1/ /78

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Enclosure

Items to be Completed Prior to Fuel Loading

1. Resolution of 7,500 construction deficiencies in the follcwing categories:

   a. Installation/correction of 1100 hangers, each of which is expected to require at least four man hours.

   b. Correction of 1200 hangers, each of which is expected to require less than four man hours.

   c. Determination and implementation of corrective action for 1200 arc strikes.

   d. Determination of appropriate disposition for 1200 drawing changes/ engineering changes.

   e. Correction of 1500 electrical deficiencies (Brady markers, incorrect terminations).

   f. Resolution and correction of 300 civil engineering deficiencies (grouting, blockouts, etc.).

2. Completion of construction and/or construction testing for the following systems:

   a. Environmental Barrier System

   b. Earthquake Detection System

   c. Penetration Pressurization

   d. Weather Tower Monitoring

   e. 480V AC Electrical Equipment

3. Completion of the following preoperational tests:

   SP-2, Filter Efficiency Tests
   TP-120/5, 6, 7, 8, Spent Fuel Handling Equipment
   TP-150/2, Reactor Building SIT
   TP-150/3, Reactor Building Initial Leak Rate Test
   TP-160/1, Hydrogen Recombiner Test
   TP-160/4, Reactor Building H2 Control Functional Test
   TP-160/6, Reactor Building Purge Supply and Exhaust Functional Test
   TP-180/3, Fire Protection System Functional Test
   TP-200/11, Reactor Coolant Purge Test
   TP-200/12, Reactor Coolant Flow Coastdown Test
   TP-301/3A, NI Pre-Op Calibration (Source Range)
   TP-301/3B, NI Pre-Op Calibration (Intermediate Range)

TP-301/3C, NI Pre-Op Calibration (Power Range)
TP-301/3D, Determination and Setting of Detector Voltages
TP-301/2, NI Detector Cabling and Response Testing
TP-330/3A, Post Core Load CRDM Functional Test
TP-330/5, CRD Trip Test
TP-360/1A, RMS Test - Atmospheric Monitors
TP-360/1B, RMS Test - Liquid Monitors
TP-360/1C, RMS Test - Area Monitors
TP-600/5, Nuclear Chemical Addition and Sampling Operational Test
TP-600/21, Integrated Safety Features Actuation Test

4. Completion of turnover and acceptance by licensee of the following systems:

MTX 18, Circulating Water System
MTX 26, Condenser Air Extraction
MTX 28, Condensate Polisher Regeneration Sump
MTX 24, Condensate Polishing System
MTX 40, Core Flood System
MTX 41, Cranes and Hoists
MTX 53, Domestic Water System
MTX 78, Fuel Handling System
MTX 79, Incore Monitoring System
MTX 108, Nuclear Instrumentation
MTX 126, Radwaste Disposal
MTX 128, Radwaste Purge Seal Water
MTX 136, Reactor Building Hydrogen Control
MTX 141, Reactor Building Spray System
MTX 156, River Water Pump House Ventilation
MTX 193, Turbine - Generator
MTX 210, 4160V AC Electrical Equipment
MTX 211, 480V AC Electrical Equipment
MTX 221, Annunciator System
MTX 2, Auxiliary Building Ventilation
MTX 4, Air Intake Tunnel Sump
MTX 32, Control Building Area Ventilation
MTX 33, Control Building Ventilation
MTX 52, Diesel Generator Building Ventilation
MTX 57, Earthquake Detection System
MTX 58, Elevators
MTX 65, Feedwater Heater Vents, Reliefs
MTX 66, Feedwater Latching
MTX 75, Fire Protection System
MTX 77, Fuel Handling Building Ventilation
MTX 83, Heat Tracing
MTX 84, Hydrogen System - Nuclear Plant
MTX 94, Lab Gas System
MTX 101, Motor-Operated Doors

MTX 109, Nuclear Sampling System
MTX 117, Penetration Pressurization System
MTX 124, Radwaste Disposal (Gas)
MTX 127, Radwaste Disposal (Solid)
MTX 133, Reactor Building
MTX 134, Reactor Building Air Cooling
MTX 138, Reactor Building Purge Supply and Exhaust
MTX 139, Reactor Building Hydrogen Recombiner System
MTX 140, Reactor Building Leak Rate Test System
MTX 170, Service Building Ventilation
MTX 201, Weather Tower Monitoring
MTX 212, 208V AC Electrical Equipment
MTX 219, Communications
MTX 222, Ground System
BUILDINGS, Auxiliary Building, Reactor Building, Fuel Handling Building, and Control Building Area

5. Resolution of the 75 outstanding items contained in the following pages of computer printout which were identified during the performance of the inspection program.

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