

**Detroit  
Edison**

Wayne H. Jens  
Vice President  
Nuclear Operations

Fermi-2  
6400 North Dixie Highway  
Newport, Michigan 48166  
(313) 586-4150

March 16, 1985  
EF2-70449

PRIORITY ROUTING	
First	Second
✓ 9/32285	
✓ DRP	
✓ DRS	
✓ DRSS	
✓ DRNA	
	FILE 102

Mr. James G. Keppler  
Regional Administrator  
Region III  
U. S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

- Reference: (1) Fermi 2  
NRC Docket No. 50-341
- (2) Detroit Edison to NRC Letter, "Post-Fuel Load Preoperational Testing", NE-84-1792, January 11, 1985
- (3) Detroit Edison to NRC Letter, "Post-Fuel Load Testing", EF2-70394, February 18, 1985

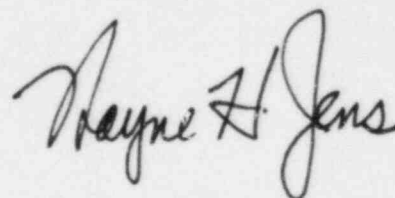
Subject: Post-Fuel Load Testing

Reference 2 provided a list of the post-fuel load preoperational tests and Reference 3 provided a list of test exceptions to the completed preoperational tests.

Attachment A provides an updated list of outstanding exceptions (Test Exception Disposition Reports) to the completed preoperational tests and the milestone dates for the closure of these items. This current list combined with Reference 2 is a complete list of post-fuel load deferrals of the preoperational tests listed in Chapter 14 of the FSAR. The applicable Reference 2 table is included as Attachment B.

If you have questions regarding this list, please contact Mr. Lewis P. Bregni at (313) 586-5083.

Sincerely,



cc: Mr. P. M. Byron  
Mr. S. G. DuPont  
Mr. R. C. Knop  
Mr. M. D. Lynch  
Mr. L. Reyes  
USNRC Document Control Desk  
Washington, D. C. 20555

8503280416 850316  
PDR ADOCK 05000341  
A PDR

MAR 21 1985

IEO/11

# ATTACHMENT A

## PREOPERATIONAL TEST EXCEPTIONS\* (FSAR Chapter 14 Systems)

TEST NO.	DISCUSSION	COMPLETION
B2100.001 Nuclear Boiler System TEDR #25, 27	Retest Auto Depressurization Logic status indicating lights.	Operational Condition 2 (prior to exceeding 150 psi)
E1100.001 Residual Heat Removal System TEDR #28	Complete motor operated valve dynamic testing requiring flow to reactor vessel.	Operational Condition 2
T4700.001 Drywell Cooling System TEDR #6	Retest temperature recorder and thermo-couple computer inputs.	Operational Condition 2
T48.00.001 Primary Containment Atmosphere Control and Nitrogen Supply System TEDR's 13, 15	Retest Primary Containment Isolation Valves following solenoid replacement. Complete motor operated valve testing.	Operational Condition 2
T9200.001 Secondary Containment Leak Rate Test - TEDR #5	Retest various door interlocks.	Operational Condition 2
DEMO.PFI.733 PVDET: Core Spray System - Exception B	Complete Core Spray System vibration testing requiring flow to reactor vessel.	Operational Condition 2
C91.00.001 Process Computer Interface System - TEDR #197	Complete testing of computer inputs from Traversing Incore Probe System	5% power
T4100.001 Reactor Building Heating, Ventilation, and Air Conditioning System TEDR No.'s 16, 17	Complete system air balancing. Complete testing of Contaminated Equipment Storage Room Filter	5% power
U4100.001 Turbine Building HVAC System TEDR #11	Complete final system air balancing	5% power
N2100.001 Reactor Feedwater System TEDR #21	Retest hydraulic operated gate valves	Test Condition 1
N2000.001 Condensate System - TEDR's 17, 22	Retest valve F404 and complete motor operated valve dynamic testing.	Warranty Run

\* Test Exception Disposition Report (TEDR)

PREOPERATIONAL TEST EXCEPTIONS\*  
(FSAR Chapter 14 Systems)

TEST NO.	DISCUSSION	COMPLETION
P3320.001 Plant Process Sampling system (Reactor Building) TEDR's 4, 5, 7, 9	Retest various sample points following modifications; complete testing of sump samples.	Warranty Run
P3321.001 Plant Process Sampling System (Turbine Building) TEDR's 14, 17, 18	Retest various sample points when proper system water quality and sample flows are available; retest annunciator	Warranty Run
P4100.001 General Service Water System TEDR's 1, 4 thru 9	Retest valve controller and traveling screens. Complete various system performance tests when design loads and flowrates are available.	Warranty Run
R3600.001 Plant Normal and Emergency Lighting Systems TEDR 17, 28	Retest of normal A.C. lighting levels.	Warranty Run
U4100.001 Turbine Building HVAC System TEDR's 6	Retest temperature transmitter for Turbine Building steam heating control.	Warranty Run
H4000.001 Communication System Including Evacuation Alarm System-TEDR's 7, 8, 10 --> 12, 15--> 18, 23 --> 34	Retest various handsets, speakers, and desksets. Retest various speakers where output is low and no emergency strobe is visible.	First Refueling Outage
P11.000.001 Condensate Storage System - TEDR's #3, 7	Retest system interface with Fuel Pool Cooling System.	First Refueling Outage
T4100.001 Reactor Building Heating, Ventilation and Air Conditioning System TEDR No.'s 14, 16	Complete testing of Reactor Vessel Head Vent System.	First Refueling Outage

## POST FUEL LOAD

## PREOPERATIONAL TESTING

TEST NO.	DISCUSSION	COMPLETION
E1000.001 ECCS Suction Line Leak Detection (moisture- sensitive tape)	This detection system is only applicable to the ECCS suction from the torus and is not required for fuel load or the power ascension test program per the Fermi 2 Technical Specifications. Identified and unidentified leak detection functions are addressed by temperature and line-flow increases, sump-level changes, and other methods. This system provides refined leak detection information to assist operator response.	Warranty Run
G1120.001 G1125.001 G1135.001 Liquid and Solid Radwaste	During the interim, a temporary vendor radwaste system will be used. The vendor's Process Control Program and description details of the system were provided to the NRC by letters EF2-71992 (dated October 11, 1984) and EF2-72035 (dated December 18, 1984). The temporary system meets all process quality requirements and will support the plant needs until the permanent system is installed and tested. The portions of the system necessary to support the vendor radwaste system will be complete before Operational Condition 2.	Warranty Run (G1135.001), Operational Condition 2 (G1120.001, G1125.001)
B3100.001 Reactor Recircu- lation	The system logic and interlocks, lube oil subsystem and MG sets will have been tested before fuel load, although not required by Fermi 2 Technical Specifications. The flow and pump operation tests will be performed during startup testing due to the core-configuration limitation, i.e., core delta P. The preoperational test results will be reviewed and approved prior to Operational Condition 2.	Operational Condition 2

## POST FUEL LOAD

## PREOPERATIONAL TESTING

TEST NO.	DISCUSSION	COMPLETION
P3323.001 Post-Accident Sampling System (PASS)	The preoperational testing of PASS will be performed in conjunction with completion of related construction activities. The steps involved with PASS becoming operational have been discussed in detail with NRC Region III and documented in letter EF2-70036, dated October 31, 1984.	5% power
V4100.001 Rad-waste Building HVAC	The subject HVAC system is necessary to support significant radwaste processing operations. The preoperational testing should, therefore, be completed before exceeding 5% power which is the recognized onset of significant fission and activation product generation.	5% power
E1010.001 Primary Coolant Leak Detection	The Primary Coolant Leak Detection Systems are not required until criticality in Operational Condition 2. Until that time there will be open access to containment for visual detection of leakage plus any leakage will have minimal or no contamination.	Operational Condition 2*
T4804.001 Thermal Recombiners	The system is not required until Operational Condition 2. The postulated conditions to produce substantial hydrogen through a metal-water reaction and radiolytic decomposition can not exist beforehand.	Operational Condition 2*

\* When containment integrity is required



## POST FUEL LOAD

## PREOPERATIONAL TESTING

TEST NO.	DISCUSSION	COMPLETION
T5000.001 Primary Containment Monitoring	This system is not necessary unless the plant is operating or there is irradiated fuel.	Operational Condition 2 <sup>(1)</sup> , except for O <sub>2</sub> concentration which shall be operational six (6) months after initial criticality
C5116.001 Traversing In-core Probe (TIP)	The TIP system is used for recalibration of the LPRM detectors and for monitoring the APLHGR, LHGR, MCPR and MFLPD. It serves no function until the reactor is in the power range.	Complete before entering Test Condition 1 <sup>(2)</sup>
N6200.001 Off-gas	This system has no function unless the main condenser steam jet air ejectors are in operation.	Complete before entering Test Condition 1 <sup>(2)</sup>
T2303.001 Primary Containment Vacuum Breakers	The containment vacuum breakers are not required until containment integrity is required (i.e., Operational Condition 2).	Operational Condition 2 <sup>(1)</sup>
T4102.001 Control Center HVAC System <sup>(3)</sup>	Control Center HVAC will be operable as required by the Technical Specification - prior to criticality in Operational Condition 2.	Operational Condition 2

(1) When containment integrity is required.

(2) See FSAR Figure 14.1-2.

(3) Testing has been completed. Test results package is in review.