50-341

DETROIT EDISON - FERMI 2
AUTOMATED RECORD MANAGEMENT
DISTRIBUTION CONTROL LIST
06/22/00

To: 00935

US NRC
DOCUMENT CNTRL DESK

WASHINGTON, DC 20555

Media: 8 1/2 X 11

DTC	Doc. Serial Number	Page	Rev	Number Copies	Cnt Lvl	Issue Date	Sec	Status
TMTRM	TRM VOL I	39		11	IR	06/20/00		AFC

Please destroy or mark all revised, superseded, or cancelled documents as such. CONTROLLED stamps must be voided by lining through and initialing.

Detroit Edison EF2, C/O Info Mgmt 140 NOC, 6400 North Dixie Highway, Newport MI 48166. (734) 586-4338 OR (734) 586-4061 for questions or concerns.

Ref: e52186

ACCI

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – *VOL I*
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	**Remove**	**Insert**
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

	FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3.	Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4.	Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5.	Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6.	Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7.	Drywell Pressure - High	≤ 1.68 psig	NA
8.	Scram Discharge Volume Water Level - High		
	a. Level Transmitter	≤ 592 ft. 6 inches	NA
	b. Float Switch	≤ 594 ft. 8 inches	NA
9.	Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10.	Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	Remove	Insert
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

FERMI 2 - TECHNICAL REQUIREMENTS MANUAL VOL I

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

	FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3.	Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4.	Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5.	Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6.	Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7.	Drywell Pressure - High	≤ 1.68 psig	NA
8.	Scram Discharge Volume Water Level - High		
	a. Level Transmitter	≤ 592 ft. 6 inches	NA
	b. Float Switch	≤ 594 ft. 8 inches	NA
9.	Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10.	Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	Remove	Insert
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

	FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3.	Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4.	Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5.	Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6.	Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7.	Drywell Pressure - High	≤ 1.68 psig	NA
8.	Scram Discharge Volume Water Level - High		
	a. Level Transmitter	≤ 592 ft. 6 inches	NA
	b. Float Switch	≤ 594 ft. 8 inches	NA
9.	Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10.	Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	Remove	Insert
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3. Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5. Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6. Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7. Drywell Pressure - High	≤ 1.68 psig	NA
8. Scram Discharge Volume Water Level - High		
a. Level Transmitter	≤ 592 ft. 6 inches	NA
b. Float Switch	≤ 594 ft. 8 inches	NA
9. Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10. Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	Remove	Insert
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit
Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3. Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5. Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6. Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7. Drywell Pressure - High	≤ 1.68 psig	NA
8. Scram Discharge Volume Water Level - High		
a. Level Transmitter	≤ 592 ft. 6 inches	NA
b. Float Switch	≤ 594 ft. 8 inches	NA
9. Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10. Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	Remove	Insert
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

	FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3.	Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4.	Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5.	Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6.	Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7.	Drywell Pressure - High	≤ 1.68 psig	NA
8.	Scram Discharge Volume Water Level - High		
	a. Level Transmitter	≤ 592 ft. 6 inches	NA
	b. Float Switch	≤ 594 ft. 8 inches	NA
9.	Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10.	Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	Remove	Insert
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

	FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3.	Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4.	Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5.	Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6.	Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7.	Drywell Pressure - High	≤ 1.68 psig	NA
8.	Scram Discharge Volume Water Level - High		
	a. Level Transmitter	≤ 592 ft. 6 inches	NA
	b. Float Switch	≤ 594 ft. 8 inches	NA
9.	Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10.	Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	Remove	Insert
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

	FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3.	Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4.	Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5.	Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6.	Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7.	Drywell Pressure - High	≤ 1.68 psig	NA
8.	Scram Discharge Volume Water Level - High		
	a. Level Transmitter	≤ 592 ft. 6 inches	NA
	b. Float Switch	≤ 594 ft. 8 inches	NA
9.	Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10.	Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	Remove	Insert
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

FERMI 2 - TECHNICAL REQUIREMENTS MANUAL VOL I

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

	FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3.	Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4.	Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5.	Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6.	Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7.	Drywell Pressure - High	≤ 1.68 psig	NA
8.	Scram Discharge Volume Water Level - High		
	a. Level Transmitter	≤ 592 ft. 6 inches	NA
	b. Float Switch	≤ 594 ft. 8 inches	NA
9.	Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10.	Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	Remove	Insert
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

	FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3.	Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4.	Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5.	Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6.	Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7.	Drywell Pressure - High	≤ 1.68 psig	NA
8.	Scram Discharge Volume Water Level - High		
	a. Level Transmitter	≤ 592 ft. 6 inches	NA
	b. Float Switch	≤ 594 ft. 8 inches	NA
9.	Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10.	Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602

LICENSING DOCUMENT TRANSMITTAL
FERMI 2 TECHNICAL REQUIREMENTS MANUAL – VOL I
Revision 39 dated 06/20/00

Immediately, upon receipt of the item(s) below, please insert and/or remove the documents indicated. Please destroy the removed documents. Please be sure that Revision 38 dated 6/08/00 has been inserted prior to inserting these pages.

Location	Remove	Insert
In Front of TRM Manual	Title Page Rev 38 06/08/00	Title Page Rev 39 06/20/00
Immediately following Title Page	List of Effective Pages LEP-1 through LEP- 4 06/08/00	List of Effective Pages LEP-1 through LEP- 4 06/20/00
3.3 Instrumentaion	Remove page TRM 3.3-2 Rev 34 4/00	Insert page TRM 3.3-2 Rev 39 06/00
	Remove page TRM 3.3-21 Rev 31 10/99	Insert page TRM 3.3-21 Rev 39 06/00
3.8 Electrical Power Systems	Remove page TRM 3.8-11 Rev 31 10/99	Insert page TRM 3.8-11 Rev 39 06/00

END

Fermi 2

Technical Requirements Manual

Volume I

Detroit Edison

ARMS - INFORMATION			
DTC: TMTRM	File: 1754	DSN: TRM VOL I	Rev: 39
Date: 06/20/00		Recipient 935	

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM i	Revision 31	TRM 3.3-32	Revision 31
TRM ii	Revision 31	TRM 3.3-33	Revision 31
TRM iii	Revision 31	TRM 3.3-34	Revision 31
TRM iv	Revision 34	TRM 3.3-35	Revision 31
TRM v	Revision 31	TRM 3.3-36	Revision 31
TRM vi	Revision 31	TRM 3.3-37	Revision 31
TRM 1.0-a	Revision 31	TRM 3.3-38	Revision 31
TRM 1.0-1	Revision 31	TRM 3.3-39	Revision 31
TRM 2.0-1	Revision 31	TRM 3.3-40	Revision 31
TRM 3.0-a	Revision 31	TRM 3.3-41	Revision 31
TRM 3.0-1	Revision 31	TRM 3.3-42	Revision 31
TRM 3.0-2	Revision 31	TRM 3.3-43	Revision 31
TRM 3.0-3	Revision 31	TRM 3.3-44	Revision 31
TRM 3.0-4	Revision 31	TRM 3.3-45	Revision 31
TRM 3.1-a	Revision 31	TRM 3.3-46	Revision 31
TRM 3.1-1	Revision 31	TRM 3.3-47	Revision 31
TRM 3.2-1	Revision 31	TRM 3.3-48	Revision 31
TRM 3.3-a	Revision 31	TRM 3.3-49	Revision 31
TRM 3.3-b	Revision 31	TRM 3.4-a	Revision 31
TRM 3.3-c	Revision 31	TRM 3.4-1	Revision 36
TRM 3.3-d	Revision 31	TRM 3.4-1a	Revision 34
TRM 3.3-1	Revision 34	TRM 3.4-1b	Revision 34
TRM 3.3-2	Revision 39	TRM 3.4-2	Revision 31
TRM 3.3-3	Revision 31	TRM 3.4-3	Revision 31
TRM 3.3-4	Revision 31	TRM 3.4-4	Revision 31
TRM 3.3-5	Revision 31	TRM 3.4-5	Revision 31
TRM 3.3-6	Revision 31	TRM 3.4-6	Revision 31
TRM 3.3-7	Revision 31	TRM 3.4-7	Revision 31
TRM 3.3-8	Revision 31	TRM 3.4-8	Revision 31
TRM 3.3-9	Revision 31	TRM 3.4-9	Revision 31
TRM 3.3-10	Revision 31	TRM 3.4-10	Revision 31
TRM 3.3-11	Revision 31	TRM 3.5-1	Revision 31
TRM 3.3-12	Revision 31	TRM 3.6-a	Revision 31
TRM 3.3-13	Revision 31	TRM 3.6-1	Revision 31
TRM 3.3-14	Revision 31	TRM 3.6-2	Revision 31
TRM 3.3-15	Revision 31	TRM 3.6-3	Revision 31
TRM 3.3-16	Revision 31	TRM 3.6-4	Revision 31
TRM 3.3-17	Revision 31	TRM 3.6-5	Revision 31
TRM 3.3-18	Revision 31	TRM 3.6-6	Revision 33
TRM 3.3-19	Revision 31	TRM 3.6-7	Revision 31
TRM 3.3-20	Revision 31	TRM 3.6-8	Revision 31
TRM 3.3-21	Revision 39	TRM 3.6-9	Revision 31
TRM 3.3-22	Revision 31	TRM 3.6-10	Revision 31
TRM 3.3-23	Revision 31	TRM 3.6-11	Revision 31
TRM 3.3-24	Revision 31	TRM 3.6-12	Revision 31
TRM 3.3-25	Revision 31	TRM 3.6-13	Revision 31
TRM 3.3-26	Revision 31	TRM 3.6-14	Revision 31
TRM 3.3-27	Revision 31	TRM 3.6-15	Revision 31
TRM 3.3-28	Revision 31	TRM 3.6-16	Revision 31
TRM 3.3-29	Revision 31	TRM 3.6-17	Revision 31
TRM 3.3-30	Revision 31	TRM 3.6-18	Revision 31
TRM 3.3-31	Revision 31	TRM 3.6-19	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision	Page	Revision
TRM 3.6-20	Revision 31	TRM 3.8-14	Revision 31
TRM 3.6-21	Revision 31	TRM 3.8-15	Revision 31
TRM 3.6-22	Revision 31	TRM 3.8-16	Revision 31
TRM 3.6-23	Revision 31	TRM 3.8-17	Revision 31
TRM 3.6-24	Revision 31	TRM 3.8-18	Revision 33
TRM 3.6-25	Revision 31	TRM 3.9-a	Revision 31
TRM 3.6-26	Revision 31	TRM 3.9-1	Revision 31
TRM 3.6-27	Revision 31	TRM 3.9-2	Revision 31
TRM 3.6-28	Revision 31	TRM 3.9-3	Revision 31
TRM 3.6-29	Revision 31	TRM 3.9-4	Revision 31
TRM 3.6-30	Revision 31	TRM 3.9-5	Revision 31
TRM 3.6-31	Revision 31	TRM 3.10-1	Revision 31
TRM 3.6-32	Revision 31	TRM 3.11-a	Revision 31
TRM 3.6-33	Revision 31	TRM 3.11-1	Revision 31
TRM 3.6-34	Revision 31	TRM 3.12-a	Revision 31
TRM 3.6-35	Revision 31	TRM 3.12-1	Revision 31
TRM 3.7-a	Revision 31	TRM 3.12-2	Revision 31
TRM 3.7-b	Revision 31	TRM 3.12-3	Revision 31
TRM 3.7-1	Revision 31	TRM 3.12-4	Revision 31
TRM 3.7-2	Revision 31	TRM 3.12-5	Revision 38
TRM 3.7-3	Revision 31	TRM 3.12-6	Revision 31
TRM 3.7-4	Revision 31	TRM 3.12-7	Revision 31
TRM 3.7-5	Revision 31	TRM 3.12-8	Revision 31
TRM 3.7-6	Revision 31	TRM 3.12-9	Revision 31
TRM 3.7-7	Revision 31	TRM 3.12-10	Revision 31
TRM 3.7-8	Revision 31	TRM 3.12-11	Revision 31
TRM 3.7-9	Revision 31	TRM 3.12-12	Revision 31
TRM 3.7-10	Revision 31	TRM 3.12-13	Revision 31
TRM 3.7-11	Revision 31	TRM 3.12-14	Revision 31
TRM 3.7-12	Revision 31	TRM 3.12-15	Revision 31
TRM 3.7-13	Revision 31	TRM 3.12-16	Revision 31
TRM 3.7-14	Revision 31	TRM 3.12-17	Revision 31
TRM 3.7-15	Revision 31	TRM 3.12-18	Revision 31
TRM 3.7-16	Revision 31	TRM 3.12-19	Revision 31
TRM 3.7-17	Revision 31	TRM 3.12-20	Revision 31
TRM 3.7-18	Revision 31	TRM 3.12-21	Revision 31
TRM 3.7-19	Revision 31	TRM 3.12-22	Revision 31
TRM 3.7-20	Revision 31	TRM 3.12-23	Revision 31
TRM 3.8-a	Revision 31	TRM 3.12-24	Revision 31
TRM 3.8-1	Revision 31	TRM 3.12-25	Revision 31
TRM 3.8-2	Revision 31	TRM 3.12-26	Revision 31
TRM 3.8-3	Revision 31	TRM 3.12-27	Revision 31
TRM 3.8-4	Revision 31	TRM 3.12-28	Revision 31
TRM 3.8-5	Revision 31	TRM 3.12-29	Revision 31
TRM 3.8-6	Revision 31	TRM 3.12-30	Revision 31
TRM 3.8-7	Revision 31	TRM 4.0-1	Revision 31
TRM 3.8-8	Revision 31	TRM 5.0-a	Revision 31
TRM 3.8-9	Revision 31	TRM 5.0-1	Revision 31
TRM 3.8-10	Revision 31	TRM 5.0-2	Revision 31
TRM 3.8-11	Revision 39	TRM 5.0-3	Revision 31
TRM 3.8-12	Revision 31	TRM 5.0-4	Revision 31
TRM 3.8-13	Revision 31	TRM 5.0-5	Revision 31

LIST OF EFFECTIVE PAGES

Page	Revision
TRM 5.0-6	Revision 31
TRM 5.0-7	Revision 31
TRM 5.0-8	Revision 31
TRM 5.0-9	Revision 31
TRM B1.0-1	Revision 31
TRM B2.0-1	Revision 31
TRM B3.0-1	Revision 31
TRM B3.0-2	Revision 31
TRM B3.0-3	Revision 31
TRM B3.0-4	Revision 31
TRM B3.0-5	Revision 31
TRM B3.0-6	Revision 31
TRM B3.0-7	Revision 31
TRM B3.1-1	Revision 31
TRM B3.2-1	Revision 31
TRM B3.3.1-1	Revision 31
TRM B3.3.1-2	Revision 31
TRM B3.3.2-1	Revision 31
TRM B3.3.2-2	Revision 31
TRM B3.3.3-1	Revision 31
TRM B3.3.4-1	Revision 31
TRM B3.3.4-2	Revision 31
TRM B3.3.5-1	Revision 31
TRM B3.3.5-2	Revision 31
TRM B3.3.6-1	Revision 31
TRM B3.3.6-2	Revision 31
TRM B3.3.6-3	Revision 31
TRM B3.3.6-4	Revision 31
TRM B3.3.6-5	Revision 31
TRM B3.3.7-1	Revision 31
TRM B3.3.7-2	Revision 31
TRM B3.3.8-1	Revision 31
TRM B3.3.9-1	Revision 31
TRM B3.3.10-1	Revision 31
TRM B3.3.11-1	Revision 31
TRM B3.3.12-1	Revision 31
TRM B3.3.13-1	Revision 31
TRM B3.3.14-1	Revision 31
TRM B3.4.1-1	Revision 31
TRM B3.4.1-2	Revision 34
TRM B3.4.1-3	Revision 34
TRM B3.4.1-4	Revision 34
TRM B3.4.1-5	Revision 34
TRM B3.4.2-1	Revision 31
TRM B3.4.3-1	Revision 31
TRM B3.4.4-1	Revision 31
TRM B3.4.5-1	Revision 31
TRM B3.4.6-1	Revision 31
TRM B3.4.7-1	Revision 31
TRM B3.5-1	Revision 31
TRM B3.6.1-1	Revision 31
TRM B3.6.2-1	Revision 31
TRM B3.6.3-1	Revision 31
TRM B3.6.4-1	Revision 31
TRM B3.6.5-1	Revision 31
TRM B3.6.6-1	Revision 31
TRM B3.6.7-1	Revision 31
TRM B3.6.8-1	Revision 31
TRM B3.7.1-1	Revision 31
TRM B3.7.2-1	Revision 31
TRM B3.7.3-1	Revision 31
TRM B3.7.4-1	Revision 31
TRM B3.7.4-2	Revision 31
TRM B3.7.5-1	Revision 31
TRM B3.7.6-1	Revision 31
TRM B3.7.7-1	Revision 31
TRM B3.7.8-1	Revision 31
TRM B3.7.9-1	Revision 31
TRM B3.7.9-2	Revision 31
TRM B3.8.1-1	Revision 31
TRM B3.8.2-1	Revision 31
TRM B3.8.3-1	Revision 31
TRM B3.8.4-1	Revision 31
TRM B3.8.5-1	Revision 31
TRM B3.8.6-1	Revision 33
TRM B3.9.1-1	Revision 31
TRM B3.9.2-1	Revision 31
TRM B3.9.3-1	Revision 31
TRM B3.9.4-1	Revision 31
TRM B3.10-1	Revision 31
TRM B3.11.1-1	Revision 31
TRM B3.12.1-1	Revision 31
TRM B3.12.2-1	Revision 31
TRM B3.12.3-1	Revision 31
TRM B3.12.4-1	Revision 31
TRM B3.12.5-1	Revision 31
TRM B3.12.6-1	Revision 31
TRM B3.12.7-1	Revision 31
TRM B3.12.8-1	Revision 31

LIST OF EFFECTIVE PAGES

CORE OPERATING LIMITS REPORT
COLR 8, Revision 0

Page	Revision
Notation Page	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0

TABLE TR3.3.1.1-1 (Page 2 of 2)
Reactor Protection System Instrumentation

	FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
3.	Reactor Vessel Steam Dome Pressure - High	≤ 1093 psig	≤ 0.55[c]
4.	Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[d]	≤ 1.05[c]
5.	Main Steam Isolation Valve - Closure	≤ 8% closed	≤ 0.06
6.	Main Steam Line Radiation - High	≤ 3.0 x full power background[f]	NA
7.	Drywell Pressure - High	≤ 1.68 psig	NA
8.	Scram Discharge Volume Water Level - High		
	a. Level Transmitter	≤ 592 ft. 6 inches	NA
	b. Float Switch	≤ 594 ft. 8 inches	NA
9.	Turbine Stop Valve-Closure	≤ 5% closed	≤ 0.06
10.	Turbine Control Valve Fast Closure	Initiation of fast closure	≤ 0.08[e]

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damping components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(d) As referenced to instrument zero Top of Active Fuel (TAF).

(e) Measured from de-energization of K37 relay, which inputs the turbine control valve closure signal, to the RPS.

(f) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate including interruptions in hydrogen flow.

TR 3.3 INSTRUMENTATION

TR 3.3.6.1 Primary Containment Isolation Instrumentation

The primary containment isolation instrumentation trip setpoints are listed in Table TR3.3.6.1-1.

TABLE TR3.3.6.1-1 (Page 1 of 3)
Primary Containment Isolation Instrumentation

FUNCTION	TRIP SETPOINT	RESPONSE TIME (seconds)
1. Main Steam Line Isolation		
a. Reactor Vessel Water Level - Low Low Low, Level 1	≥ 31.8 inches[f]	≤ 1.0[b][c]
b. Main Steam Line Pressure - Low	≥ 756 psig	NA
c. Main Steam Line Flow - High	≤ 115.4 psid	≤ 0.5[b][c]
d. Condenser Pressure - High	≤ 6.85 psia	NA
e. Main Steam Tunnel Temperature - High	≤ 200°F	NA
f. Main Steam Line Radiation - High	≤ 3.0 x full power background[e]	NA
g. Turbine Building Area Temperature - High	≤ 200°F	NA
h. Manual Initiation	NA	NA
2. Primary Containment Isolation		
a. Reactor Vessel Water Level - Low, Level 3	≥ 173.4 inches[f]	NA
b. Reactor Vessel Water Level - Low Low, Level 2	≥ 110.8 inches[f]	NA
c. Drywell Pressure - High	≤ 1.68 psig	NA
d. Manual Initiation	NA	NA

(continued)

(b) Isolation system instrumentation response time for MSIVs Only. No diesel generator delays assumed for MSIVs.

(c) The sensor response time need not be measured and may be assumed to be the design sensor response time. Prior to return to service of a new transmitter or following refurbishment of a transmitter (e.g., sensor cell or variable damper components), a hydraulic response time test will be performed to determine an initial sensor-specific response time value.

(e) A new "full power background" level is established for hydrogen water chemistry based on 100% power operation with the established hydrogen injection rate. Actual background radiation levels may be less depending on actual power level or hydrogen injection rate.

Setpoint adjustment is not necessary for variations in power or hydrogen injection rate, including interruptions in hydrogen flow.

(f) As referenced to instrument zero Top of Active Fuel (TAF).

TABLE TR3.8.4-1 (Page 6 of 6)
Motor-Operated Valves Thermal Overload Protection

SYSTEM AFFECTED	VALVE NUMBER
14. Containment Atmosphere Control System	T4803-F601
	T4803-F602
	T4804-F601A
	T4804-F601B
	T4804-F602A
	T4804-F602B
	T4804-F603A
	T4804-F603B
	T4804-F604A
	T4804-F604B
	T4804-F605A
	T4804-F605B
	T4804-F606A
	T4804-F606B
15. Primary Containment Pneumatic Supply System	T4901-F601
	T4901-F602