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October 13, 1997

SUBJECT: Issuance of Revision 4 to the Technical Requirements Manual (TRM)

TO: Distribution

Attached is Revision 4 to the TRM. These changes are the result of an engineering evaluation of the fire protection surveillance procedures that was performed to extend the frequencies of the surveillance's based on past performance data and other pertinent factors. Revision 4 of the TRM is considered effective on October 15, 1997.

Please update your copy of the TRM according to the list below.

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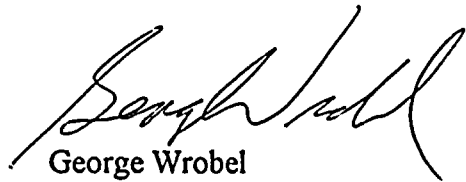
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Any questions should be directed to Tom Harding (x8013).

A handwritten signature in black ink, appearing to read "George Wrobel", written in a cursive style.

George Wrobel
Manager, Nuclear Safety & Licensing



GINNA STATION

TRM
Revision 3

TECHNICAL REQUIREMENTS MANUAL (TRM)


Responsible Manager

7/1/97
Effective Date

Controlled Copy No. 1247

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(TRM)

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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TSR 3.3.4.1 Perform a continuity check of nonsupervised circuits between local alarm panels and the control room.	31 days
TSR 3.3.4.2 Perform a continuity check of supervised circuits associated with detector alarms that are accessible during MODES 1, 2, 3, and 4.	182 days
<p>TSR 3.3.4.3 -----NOTE----- Not required to be performed unless MODE 5 or 6 is entered for > 24 hours. -----</p> <p>Perform a continuity check of supervised circuits associated with detector alarms that are not accessible during MODES 1, 2, 3, and 4.</p>	Prior to entering MODE 4 from MODE 5 if not performed within previous 6 months
TSR 3.3.4.4 Perform a TADOT of fire detection instrumentation accessible during MODES 1, 2, 3, and 4.	182 days

(continued)

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
<p>TSR 3.3.4.5 -----NOTES-----</p> <ol style="list-style-type: none">1. Verification of RTD detectors shall include detector continuity and temperature indication in the control room.2. Not required to be performed unless MODE 5 or 6 is entered for > 24 hours. <p>-----</p> <p>Perform a TADOT of fire detection instrumentation not accessible during MODES 1, 2, 3, and 4.</p>	<p>Prior to entering MODE 4 from MODE 5 if not performed within previous 6 months</p>

Table TR 3.3.4-1 (page 1 of 2)
Fire Detection Instrumentation

LOCATION	FIRE ZONE	REQUIRED HEAT DETECTORS	REQUIRED SMOKE DETECTORS
1. Containment			
a. Post Accident Charcoal Filter A	Z09, Z10	3 ^{(a)(b)(c)}	N/A
b. Post Accident Charcoal Filter B	Z11, Z12	3 ^{(a)(b)(c)}	N/A
c. Auxiliary Filter Charcoal Bank A	Z06	1 ^{(b)(c)}	N/A
d. Auxiliary Filter Charcoal Bank B	Z07	1 ^{(b)(c)}	N/A
e. Cable Trays - Basement Elevation	Z08	1 ^{(b)(d)}	N/A
f. Cable Trays - Intermediate Elevation	Z15	2 ^{(a)(b)(d)}	N/A
g. Cable Trays - Operating Floor	Z16	1 ^{(b)(d)}	N/A
h. Reactor Coolant Pump (RCP) A - Intermediate Floor	Z13	1 ^{(b)(d)}	N/A
i. RCP B - Intermediate Floor	Z14	1 ^{(b)(d)}	N/A
j. Area Detection - Operating Floor	Z16	N/A	7 ^{(a)(b)}
2. Control Building			
a. Control Room - Area and Cabinet	Z19	1	17 ^(a)
b. Control Room/Turbine Building Wall	S29	4 ^(a)	N/A
c. Air Handling Room	S06	N/A	3 ^(a)
d. Relay Room	Z18, S08	3 ^(a)	16 ^(a)
e. Computer (MUX) Room Ceiling	S07	N/A	3 ^(a)
f. Battery Rooms A and B	pyrotronics area 2 zone 4	N/A	3 ^(a)
3. Diesel Generators (DGs)			
a. DG Room A	S12	2	N/A
b. DG Vault A	Z20	N/A	1
c. DG Room B	S13	2	N/A
d. DG Vault B	Z21	N/A	1

(continued)

- (a) There is one additional detector at each zone which is not required to be OPERABLE per this TR.
- (b) This instrument is not required to be OPERABLE during performance of integrated leak rate tests.
- (c) Resistance temperature detectors (RTDs) only.
- (d) Line type detectors.

Table TR 3.3.4-1 (page 2 of 2)
Fire Detection Instrumentation

LOCATION	FIRE ZONE	REQUIRED HEAT DETECTORS	REQUIRED SMOKE DETECTORS
4. Intermediate Building			
a. Motor Driven Auxiliary (AFW) Pump Area	Z22	N/A	9 ^(a)
b. Turbine Driven AFW Pump and Oil Reservoir	S14	1	N/A
c. Cable Trays - Basement North	S15	N/A	14 ^(a)
d. Purge Filter A - Elevation 315'4"	Z23	N/A	1
e. Purge Filter B - Elevation 315'4"	Z24	N/A	1
5. Screen House			
a. Area Detection - Service Water Pump and Bus Area	Z26	N/A	11 ^(a)
b. Cable Trays - Basement	S17	N/A	4 ^(a)
6. Standby AFW Building			
	Z25	N/A	8 ^(a)
7. Cable Tunnel			
	Z05, S05	10 ^(a)	8 ^(a)
8. Auxiliary Building			
a. General Area - Pyrotronics Area 1 Zones 1, 2, 3	-	N/A	8 ^(a)
b. Area Basement - East	Z01	N/A	5 ^(a)
c. Area Basement - West and Residual Heat Removal Pit	Z02	N/A	9 ^(a)
d. Basement Cable Trays - Safety Injection Pumps	S01	N/A	5 ^(a)
e. Penetration Area Cable Trays - Mezzanine	Z03	N/A	2 ^(a)
f. Cable Trays - Electrical Cabinet, Mezzanine Center	S03	N/A	4 ^(a)
g. Cable Trays - Mezzanine East	S04	N/A	4 ^(a)
h. Area - Operating Floor	Z04	N/A	13 ^(a)
i. Charcoal Filter 1G	S02	11 ^(a)	N/A

(a) There is one additional detector at each zone which is not required to be OPERABLE per this TR.

Table TR 3.3.4-2 (page 1 of 2)
Containment Temperature Monitors

INSTRUMENT EIN	SYSTEM	LOCATION	READ POINT RANGE
1. TE-490A/B	RVLIS	Sump	PPCS 0-360°F ⁽¹⁾
2. TE-491A/B	RVLIS	Basement	PPCS 0-360°F ⁽¹⁾
3. TE-492A/B	RVLIS	Intermediate	PPCS 0-360°F ⁽¹⁾
4. TE-6035	Air Temp	Intermediate	PPCS 0-360°F ⁽¹⁾
5. TE-6036	Air Temp	Intermediate	PPCS 0-360°F ⁽¹⁾
6. TE-6037	Air Temp	Intermediate	PPCS 0-360°F ⁽¹⁾
7. TE-6038	Air Temp	Intermediate	PPCS 0-360°F ⁽¹⁾
8. TE-6045	Air Temp	Operating	PPCS 0-360°F ⁽¹⁾
9. TE-6031	Air Temp	Basement	PPCS 0-360°F ⁽¹⁾
10. TC-2139	VENTILA	CNMT Recirc A	MCB 0-250°F ⁽¹⁾⁽²⁾
11. TC-2141	VENTILA	CNMT Recirc B	MCB 0-250°F ⁽¹⁾⁽²⁾
12. TC-2143	VENTILA	CNMT Recirc C	MCB 0-250°F ⁽¹⁾⁽²⁾
13. TC-2145	VENTILA	CNMT Recirc D	MCB 0-250°F ⁽¹⁾⁽²⁾
14. TC-2150	CR Shroud	Fan Suction	MCB 0-250°F ⁽²⁾⁽³⁾
15. TC-2151	CR Shroud	Fan Suction	MCB 0-250°F ⁽²⁾⁽³⁾
16. TC-2152	CR Shroud	Fan Suction	MCB 0-250°F ⁽²⁾⁽³⁾

(continued)

- (1) Designated as first back-up instruments
- (2) Located on RK-28B
- (3) Designated as second back-up instruments

Table TR 3.3.4-2 (page 2 of 2)
Containment Temperature Monitors

INSTRUMENT EIN	SYSTEM	LOCATION	READ POINT RANGE
17. TI-436	PRZR SV A	Outlet	MCB 0-400°F ⁽³⁾
18. TI-437	PRZR SV B	Outlet	MCB 0-400°F ⁽³⁾
19. TI-438	PRZR PORV.	Outlet	MCB 0-400°F ⁽³⁾
20. TCV-DEW-1	Dew Point	Basement	PPCS 0-300°F ⁽¹⁾
21. TCV-DEW-2	Dew Point	Intermediate	PPCS 0-300°F ⁽¹⁾
22. TCV-DEW-3	Dew Point	Operating	PPCS 0-300°F ⁽¹⁾
23. TCV-DEW-4	Dew Point	Intermediate	PPCS 0-300°F ⁽¹⁾
24. TCV-DEW-5	Dew Point	Intermediate	PPCS 0-300°F ⁽¹⁾
25. TCV-DEW-6	Dew Point	Intermediate	PPCS 0-300°F ⁽¹⁾

(1) Designated as first back-up instruments

(2) Located on RK-28B

(3) Designated as second back-up instruments

3.3 INSTRUMENTATION

3.3.5 Low Temperature Overpressure Protection (LTOP) Arming Logic

TR 3.3.5 The LTOP Arming Logic Functions in Table TR 3.3.5-1 shall be OPERABLE.

APPLICABILITY: When associated pressurizer power operated relief valves (PORVs) are required to be OPERABLE by LCO 3.4.12, "LTOP System."

ACTIONS

CONDITION	REQUIRED ACTIONS	COMPLETION TIME
<p>A. -----NOTE----- Only applicable to Function 1. -----</p> <p>One channel inoperable.</p>	<p>A.1 Initiate action to restore inoperable channel.</p>	<p>Immediately</p>
<p>B. -----NOTE----- Only applicable to Function 1. -----</p> <p>Two channels inoperable.</p>	<p>B.1 Place one channel in trip.</p> <p><u>OR</u></p> <p>B.2 Declare associated PORVs inoperable.</p>	<p>Immediately</p> <p>Immediately</p>
<p>C. One or more train(s) inoperable.</p> <p><u>OR</u></p> <p>Three channels inoperable.</p>	<p>C.1 Declare associated PORV(s) inoperable.</p>	<p>Immediately</p>

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TSR 3.3.5.1 Perform SR 3.4.12.6.	In accordance with SR 3.4.12.6
TSR 3.3.5.2 Perform SR 3.4.12.8.	In accordance with SR 3.4.12.8
TSR 3.3.5.3 Perform ACTUATION LOGIC TEST.	24 months

Table TR 3.3.5-1 (page 1 of 1)
LTOP Arming Logic

FUNCTION	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS	TRIP SETPOINT
1. High RCS Pressure (PT-450, PT-451, and PT-452)	3	TSR 3.3.5.1 TSR 3.3.5.2	See PTLR
2. Automatic Actuation Logic and Actuation Relays	2 trains	TSR 3.3.5.3	NA

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TSR 3.7.1.1 Operate each fire pump on recirculation flow for ≥ 15 minutes.	31 days
TSR 3.7.1.2 Verify each fire suppression valve in the pump train or header flow path that is not locked, sealed, or otherwise secured in position is in the correct position.	31 days
TSR 3.7.1.3 Verify level of diesel driven fire pump fuel oil tank is within limit.	31 days
TSR 3.7.1.4 Inspect and test diesel driven fire pump starting batteries.	31 days
TSR 3.7.1.5 Verify diesel driven fire pump fuel oil stored in the day tank is within ASTM D975 recommended limits for Number 2 diesel fuel oil for viscosity, water, and sediment.	92 days
TSR 3.7.1.6 Cycle air operated valve 9227 through one complete cycle.	10 months

(continued)

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
<p>TSR 3.7.1.7 -----NOTES-----</p> <ol style="list-style-type: none"> 1. Not required to be performed for hydrant isolation valves. 2. Only required to be performed for valves which are testable in MODES 1, 2, 3, and 4. <p>-----</p> <p>Cycle each valve in the pump or header flowpath through one complete cycle.</p>	<p>12 months</p>
<p>TSR 3.7.1.8 Verify each fire suppression pump starts automatically and sequentially on an actual or simulated actuation signal and produces ≥ 2000 gpm at 210 ft head.</p>	<p>18 months</p>
<p>TSR 3.7.1.9 Verify each automatic fire suppression valve in the pump train or header flow path actuates to its correct position on an actual or simulated actuation signal.</p>	<p>18 months</p>
<p>TSR 3.7.1.10 -----NOTE-----</p> <p>Only required to be performed for valves which are not testable in MODES 1, 2, 3, and 4.</p> <p>-----</p> <p>Cycle each valve in the pump or header flowpath through one complete cycle.</p>	<p>18 months</p>

(continued)

SURVEILLANCE REQUIREMENTS

-----NOTE-----
Not required for systems in Table TR 3.7.2-2.

SURVEILLANCE	FREQUENCY
TSR 3.7.2.1 Verify the manual loss of locking pressure operation of each spray system.	12 months
TSR 3.7.2.2 Verify water flow and system alarm of each sprinkler system using inspector test valves.	12 months
TSR 3.7.2.3 Perform a functional test of each spray system using an actual or simulated signal.	18 months
TSR 3.7.2.4 Verify each valve in the spray flowpath is capable of going to its correct position on an actual or simulated signal.	18 months
TSR 3.7.2.5 Verify integrity of each spray header by a visual external inspection.	18 months
TSR 3.7.2.6 Verify each spray nozzle is unblocked by a visual external inspection.	18 months
TSR 3.7.2.7 Perform an air flow test through each spray header and nozzle.	36 months

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. Required Action and associated Completion Time not met.	B.1 Prepare special report and submit to NRC outlining cause of halon system inoperability and plans for restoring to OPERABLE status.	30 days

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TSR 3.7.3.1 Verify pressure of each Halon storage tank is $\geq 90\%$ of full charge pressure at 70°F.	182 days
TSR 3.7.3.2 Verify weight of each Halon storage tank is $\geq 95\%$ of full charge weight at 70°F.	182 days
TSR 3.7.3.3 Verify each Halon system, including associated ventilation dampers, actuates on an actual or simulated actuation signal.	18 months
TSR 3.7.3.4 Perform a flow test with gas through each Halon system header and nozzles.	18 months
TSR 3.7.3.5 Verify each Halon system manual initiation system is OPERABLE.	18 months

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>TSR 3.7.4.1 -----NOTE----- Not applicable to hose stations inside containment. -----</p> <p>Perform visual inspection of each hose station and record fire water header system pressure.</p>	<p>31 days</p>
<p>TSR 3.7.4.2 -----NOTE----- Only applicable to hose stations inside containment during MODES 5 and 6 and with the reactor defueled. -----</p> <p>Perform visual inspection of each hose station and record fire water header system pressure.</p>	<p>Once within 31 days and every 31 days thereafter</p>
<p>TSR 3.7.4.3 Unroll each fire hose for inspection and re-racking, and replace gaskets in the couplings as required.</p>	<p>18 months</p>
<p>TSR 3.7.4.4 Partially open each hose station valve to verify no blockage.</p>	<p>18 months</p>
<p>TSR 3.7.4.5 Pressure test each fire hose to ≥ 50 psig above the maximum working pressure.</p>	<p>3 years</p>