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T 3.0 TRM Specifications Applicability

TLCO 3.0.1 TLCOs shall be met during the MODES or other specified conditions in the Applicability, except as provided in TLCO 3.0.2.

TLCO 3.0.2 Upon discovery of a failure to meet a TLCO, the Required Actions of the associated Conditions shall be met, except as provided in TLCO 3.0.5.

If the TLCO is met or is no longer applicable prior to expiration of the specified Completion Time(s), completion of the Required Action(s) is not required, unless otherwise stated.

TLCO 3.0.3 When a TLCO is not met and the associated ACTIONS are not met, an associated ACTION is not provided, or if directed by the associated ACTIONS, action shall be initiated to:

- a. Restore compliance with the TLCO or associated ACTIONS, and
- b. Enter the circumstances into the Corrective Action Program.

-----NOTE-----
TLCO 3.0.3.b shall be completed if TLCO 3.0.3 is entered.

Exceptions to this Specification are stated in the individual Specifications.

T 3.0 TRM Specifications Applicability (continued)

- TLCO 3.0.4 When a TLCO is not met, entry into a MODE or other specified condition in the Applicability shall only be made:
- a. When the associated ACTIONS to be entered permit continued operation in the MODE or other specified condition in the Applicability for an unlimited period of time; or
 - b. After performance of a risk assessment addressing inoperable systems and components, consideration of the results, determination of the acceptability of entering the MODE or other specified condition in the Applicability, and establishment of risk management actions, if appropriate; exceptions to this Specification are stated in the individual Specifications; or
 - c. When an allowance is stated in the individual value, parameter, or other Specification.

This Specification shall not prevent changes in MODES or other specified conditions in the Applicability that are required to comply with ACTIONS or that are part of a shutdown of the unit.

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- TLCO 3.0.5 Equipment removed from service or declared inoperable to comply with ACTIONS may be returned to service under administrative control solely to perform testing required to demonstrate its OPERABILITY or the OPERABILITY of other equipment. This is an exception to TLCO 3.0.2 for the system returned to service under administrative control to perform the testing required to demonstrate OPERABILITY.
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T 3.0 TRM Specifications Applicability (continued)

TSR 3.0.1 TSRs shall be met during the MODES or other specified conditions in the Applicability for individual TLCOs, unless otherwise stated in the TSR. Failure to meet a Surveillance, whether such failure is experienced during the performance of the Surveillance or between performances of the Surveillance, shall be failure to meet the TLCO. Failure to perform a Surveillance within the specified Frequency shall be failure to meet the TLCO except as provided in TSR 3.0.3. Surveillances do not have to be performed on inoperable equipment or variables outside specified limits.

TSR 3.0.2 The specified Frequency for each TSR is met if the Surveillance is performed within 1.25 times the interval specified in the Frequency, as measured from the previous performance or as measured from the time a specified condition of the Frequency is met.

For Frequencies specified as "once," the above interval extension does not apply.

If a Completion Time requires periodic performance on a "once per . . ." basis, the above Frequency extension applies to each performance after the initial performance.

Exceptions to this Specification are stated in the individual Specifications.

TSR 3.0.3 If it is discovered that a Surveillance was not performed within its specified Frequency, then compliance with the requirement to declare the TLCO not met may be delayed, from the time of discovery, up to 24 hours or up to the limit of the specified Frequency, whichever is greater. This delay period is permitted to allow performance of the Surveillance. A risk evaluation shall be performed for any Surveillance delayed greater than 24 hours and the risk impact shall be managed.

If the Surveillance is not performed within the delay period, the TLCO must immediately be declared not met, and the applicable Condition(s) must be entered.

When the Surveillance is performed within the delay period and the Surveillance is not met, the TLCO must immediately be declared not met, and the applicable Condition(s) must be entered.

T 3.0 TRM Specifications Applicability (continued)

TSR 3.0.4 Entry into a MODE or other specified condition in the Applicability of a TLCO shall only be made when the TLCO's Surveillances have been met within their specified Frequency, except as provided by TSR 3.0.3. When a TLCO is not met due to Surveillances not having been met, entry into a MODE or other specified condition in the Applicability shall only be made in accordance with TLCO 3.0.4. This provision shall not prevent entry into MODES or other specified conditions in the Applicability that are required to comply with Actions or that are part of a shutdown of the unit.

T 3.1 REACTIVITY CONTROL SYSTEMS

T 3.1.1 Control Rod Scram Times

-----NOTE-----

This limit supplements Technical Specifications Table 3.1.4-1, see footnote (b).

TLCO 3.1.1 Time for 90% insertion when control rod scram testing conducted at zero reactor pressure.

APPLICABILITY: Control Rod Scram Insertion Time Test at Zero Pressure

NOTCH POSITION	SCRAM TIMES (seconds) (a)(b)(c) WHEN REACTOR STEAM DOME PRESSURE IS ZERO
06	2.15

(a) Maximum scram time from fully withdrawn position, based on de-energization of scram pilot valve solenoids at time zero.

(b) For intermediate reactor steam dome pressures, the scram time criteria are determined by linear interpolation for notch position 06 using this Table and Technical Specifications Table 3.1.4-1.

(c) For reactor steam dome pressure < 800 psig, only notch position 06 scram time limit applies.

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TSR 3.1.1.1 Per Technical Specifications 3.1.4	See SR 3.1.4.3

[DELETED] |
T 3.2.1

T 3.2 [DELETED] |

T 3.2.1 [DELETED] |

[DELETED] |
T 3.2.2

T 3.2 [DELETED]

T 3.2.2 [DELETED]

T 3.3 INSTRUMENTATION

T 3.3.1 Control Rod Block Instrumentation

TLCO 3.3.1 The control rod block instrumentation for each Function in Table T3.3.1-1 shall be OPERABLE.

APPLICABILITY: According to Table T3.3.1-1.

ACTIONS

-----NOTE-----

Separate Condition entry is allowed for each channel.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more Functions with less than minimum channels OPERABLE.	A.1 Initiate Reactor Manual Control System rod withdrawal block.	1 hour

SURVEILLANCE REQUIREMENTS

-----NOTES-----

1. Refer to Table T3.3.1-1 to determine which TSRs apply for each Control Rod Block Function.
 2. When a channel is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and Required Actions may be delayed for up to 6 hours provided the associated Function maintains control rod block capability.
-

SURVEILLANCE		FREQUENCY
TSR 3.3.1.1	Perform CHANNEL CHECK.	24 hours
TSR 3.3.1.2	<p>-----NOTE----- Not required to be performed until 12 hours after THERMAL POWER \geq 25% RTP.</p> <p>Verify the absolute difference between the average power range monitor (APRM) channels and the calculated power is \leq 2% RTP plus any gain adjustment required by TS LCO 3.4.1, "Recirculation Loops Operating" while operating at \geq 25% RTP.</p>	7 days
TSR 3.3.1.3	Perform CHANNEL FUNCTIONAL TEST.	Within 7 days prior to rod withdrawal for the purpose of going critical

SURVEILLANCE REQUIREMENTS

TSR 3.3.1.4	<p>-----NOTES-----</p> <ol style="list-style-type: none"> 1. For Function 1, not required to be performed when entering the MODE 2 IRM range Applicability from a higher IRM range until 12 hours after entering the MODE 2 IRM range Applicability. 2. For Function 2, not required to be performed when entering MODE 2 from MODE 1 until 12 hours after entering MODE 2. <p>-----</p> <p>Perform CHANNEL FUNCTIONAL TEST.</p>	31 days
TSR 3.3.1.5	<p>-----NOTE-----</p> <ol style="list-style-type: none"> 1. For Function 3.b, not required to be performed when entering MODE 2 from MODE 1 until 12 hours after entering MODE 2. <p>-----</p> <p>Perform CHANNEL FUNCTIONAL TEST.</p>	92 days
TSR 3.3.1.6	Perform CHANNEL CALIBRATION.	184 days

SURVEILLANCE REQUIREMENTS

TSR 3.3.1.7	<p>-----NOTE-----</p> <ol style="list-style-type: none"> 1. For Function 3.b, not required to be performed when entering MODE 2 from MODE 1 until 12 hours after entering MODE 2. <p>-----</p> <p>Perform CHANNEL CALIBRATION.</p>	184 days
TSR 3.3.1.8	<p>-----NOTES-----</p> <ol style="list-style-type: none"> 1. For Function 1, not required to be performed when entering the MODE 2 IRM range Applicability from a higher IRM range until 12 hours after entering the MODE 2 IRM range Applicability. 2. For Function 2, not required to be performed when entering MODE 2 from MODE 1 until 12 hours after entering MODE 2. 3. Neutron detectors are excluded. <p>-----</p> <p>Perform CHANNEL CALIBRATION.</p>	24 months
TSR 3.3.1.9	Perform CHANNEL FUNCTIONAL TEST.	184 days

Table T3.3.1-1 (Page 1 of 3)
Control Rod Block Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS	ACCEPTANCE LIMITS
1. SRM				
a. Detector Not Full In	2 ^(a) , (b)	1 per circuit loop	TSR 3.3.1.3 TSR 3.3.1.8	NA
	5	(c)	TSR 3.3.1.3 TSR 3.3.1.8	NA
b. Upscale	2 ^(a)	1 per circuit loop	TSR 3.3.1.1 TSR 3.3.1.3 TSR 3.3.1.4 TSR 3.3.1.8	≤ 1 x 10 ⁵ cps
	5	(c)	TSR 3.3.1.3 TSR 3.3.1.4 TSR 3.3.1.8	≤ 1 x 10 ⁵ cps
c. Inoperative	2 ^(a)	1 per circuit loop	TSR 3.3.1.3 TSR 3.3.1.4	NA
	5	(c)	TSR 3.3.1.3 TSR 3.3.1.4	NA
d. Downscale	2 ^(a)	1 per circuit loop	TSR 3.3.1.1 TSR 3.3.1.3 TSR 3.3.1.4 TSR 3.3.1.8	≥ 3 cps
	5	(c)	TSR 3.3.1.3 TSR 3.3.1.4 TSR 3.3.1.8	≥ 3 cps

(continued)

(a) With IRMs on Range 2 or below.

(b) With SRM count rate < 100 cps.

(c) As required by Technical Specifications LCO 3.3.1.2.

Table T3.3.1-1 (Page 2 of 3)
Control Rod Block Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS	ACCEPTANCE LIMITS
2. IRM				
a. Detector Not Full In	2	6	TSR 3.3.1.1 TSR 3.3.1.3 TSR 3.3.1.8	NA
b. Upscale	2	6	TSR 3.3.1.1 TSR 3.3.1.3 TSR 3.3.1.4 TSR 3.3.1.8	≤ 108/125 of Full Scale
c. Inoperative	2	6	TSR 3.3.1.3 TSR 3.3.1.4	NA
d. Downscale	2 ^(d)	6	TSR 3.3.1.1 TSR 3.3.1.3 TSR 3.3.1.4 TSR 3.3.1.8	≥ 2.5/125 of Full Scale
3. APRM				
a. Upscale (Flow Biased)	1	4	TSR 3.3.1.1 TSR 3.3.1.2 TSR 3.3.1.5 TSR 3.3.1.7 ^(e)	≤ (0.75W + 51.0% - 0.75 ΔW) ^{(f)(g)}
b. Upscale (Startup)	2	4	TSR 3.3.1.1 TSR 3.3.1.4 TSR 3.3.1.7	≤ 11.5%
c. Inoperative	1, 2	4	TSR 3.3.1.1 TSR 3.3.1.5	NA
d. Downscale	1	4	TSR 3.3.1.1 TSR 3.3.1.5 TSR 3.3.1.7	≥ 3%
e. Upscale (Fixed)	1	4	TSR 3.3.1.1 TSR 3.3.1.2 TSR 3.3.1.5 TSR 3.3.1.7	≤ 109.5%

(continued)

(d) With IRMs on Range 2 or above.

(e) Calibration of the recirculation loop flow transmitters is only required once every 24 months.

(f) W is the two-loop recirculation flow rate in percent of rated. Trip level setting is in percent of rated power (2419 = 100% RTP).

(g) ΔW is the difference between two-loop and single-loop effective drive flow and is used for single recirculation loop operation. ΔW = 0 for two loop recirculation loop operation.

Table T3.3.1-1 (Page 3 of 3)
Control Rod Block Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	SURVEILLANCE REQUIREMENTS	ACCEPTANCE LIMITS
4. Flow Bias Comparator	1, 2	2	TSR 3.3.1.4 TSR 3.3.1.8	≤ 10% Difference In Recirculation Flows
5. Flow Bias Upscale	1, 2	2	TSR 3.3.1.4 TSR 3.3.1.6 ^(e)	≤ 110% Recirculation Flow
6. Scram Discharge Volume Water Level High	1, 2, 5	2	TSR 3.3.1.9 TSR 3.3.1.8	≤ 46 inches

(e) Calibration of the recirculation loop flow transmitters is only required once every 24 months.

T 3.3 INSTRUMENTATION

T 3.3.2 ECCS and RCIC Instrumentation

TLCO 3.3.2 The ECCS and RCIC instrumentation for each Function in Table T3.3.2-1 shall be OPERABLE.

APPLICABILITY: According to Table T3.3.2-1.

ACTIONS

-----NOTE-----
Separate Condition entry is allowed for each Function.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more channels inoperable.	A.1 Enter the Condition referenced in Table T3.3.2-1 for the channel.	Immediately
B. As required by Required Action A.1 and referenced in Table T3.3.2-1.	B.1 Repair and return to OPERABLE status.	24 hours

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>C. Required Action and associated Completion Time of Condition B not met.</p> <p><u>OR</u></p> <p>As required by Required Action A.1 and referenced in Table T3.3.2-1.</p> <p><u>OR</u></p> <p>One or more channels inoperable in both trip systems.</p>	<p>C.1 Declare system or component inoperable.</p>	<p>Immediately</p>
<p>D. As required by Required Action A.1 and referenced in Table T3.3.2-1.</p>	<p>D.1 Vent discharge line high point vent.</p>	<p>Immediately</p> <p><u>AND</u></p> <p>7 days thereafter</p>

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
E. As required by Required Action A.1 and referenced in Table T3.3.2-1.	E.1 Initiate repair to return to OPERABLE status.	Immediately
	<u>AND</u> E.2 Initiate compensatory measures for the inoperable function.	Immediately

SURVEILLANCE REQUIREMENTS

-----NOTES-----

1. Refer to Table T3.3.2-1 to determine which TSRs apply for each ECCS Function.
 2. When a channel is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and Required Actions may be delayed for up to 6 hours provided the associated Function or the redundant Function maintains ECCS initiation capability.
-

SURVEILLANCE	FREQUENCY
TSR 3.3.2.1 Deleted	Deleted
TSR 3.3.2.2 Perform CHANNEL FUNCTIONAL TEST.	92 days
TSR 3.3.2.3 Perform CHANNEL CALIBRATION.	24 months

SURVEILLANCE REQUIREMENTS

TSR 3.3.2.4	Perform CHANNEL CALIBRATION.	24 months
TSR 3.3.2.5	Perform LOGIC SYSTEM FUNCTIONAL TEST.	24 months
TSR 3.3.2.6	Perform CHANNEL FUNCTIONAL TEST.	24 months
TSR 3.3.2.7	Perform CHANNEL CALIBRATION.	18 months

Table T3.3.2-1 (Page 1 of 3)
ECCS and RCIC Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	CONDITIONS REFERENCED FROM REQUIRED ACTION A.1	SURVEILLANCE REQUIREMENTS	ACCEPTANCE LIMITS
1. Core Spray System					
a. Logic Power Monitor	1, 2, 3 4 ^(a) , 5 ^(a)	1 per subsystem	E	TSR 3.3.2.5	NA
b. Discharge Line Low Pressure	1, 2, 3 4 ^(a) , 5 ^(a)	1 ^(d)	D	TSR 3.3.2.2 TSR 3.3.2.3	≥ 10 psig
2. RHR System (LPCI mode)					
a. Logic Bus Monitor	1, 2, 3 4 ^(a) , 5 ^(a)	1 per subsystem	E	TSR 3.3.2.5	NA
b. Loop A Discharge Line Low Pressure	1, 2, 3 4 ^(a) , 5 ^(a)	1 ^(d)	D	TSR 3.3.2.2 TSR 3.3.2.3	≥ 15 psig
c. Loop B Discharge Line Low Pressure	1, 2, 3 4 ^(a) , 5 ^(a)	1 ^(d)	D	TSR 3.3.2.2 TSR 3.3.2.3	≥ 5 psig
d. Outboard Injection Valve Time Delay Relays	1, 2, 3 4 ^(a) , 5 ^(a)	1	B	TSR 3.3.2.2 TSR 3.3.2.7	4.25 ≤ T ≤ 5.75 min
e. RHR Heat Exchanger Bypass Time Delay Relays	1, 2, 3 4 ^(a) , 5 ^(a)	1	C	TSR 3.3.2.2 TSR 3.3.2.4	1.8 ≤ T ≤ 2.2 min
f. RHR Crosstie Valve Position	1, 2, 3 4 ^(a) , 5 ^(a)	1 ^{(d)(e)}	E	TSR 3.3.2.6	Crosstie Valve Closed

(continued)

- (a) When associated subsystem(s) are required to be OPERABLE.
- (b) In only one trip system
- (c) When reactor steam dome pressure > 150 psig.
- (d) Not considered in a trip system.
- (e) Main Control Room RHR Crosstie Valve Position Instrumentation/indication is required to be OPERABLE, or the valve must be closed and deenergized under administrative control.

Table T3.3.2-1 (Page 2 of 3)
ECCS and RCIC Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	CONDITIONS REFERENCED FROM REQUIRED ACTION A.1	SURVEILLANCE REQUIREMENTS	ACCEPTANCE LIMITS
3. [DELETED]					
4. HPCI System					
a. Logic Power Monitor	1, 2 ^(c) , 3 ^(c)	1 per subsystem	E	TSR 3.3.2.5	NA
b. Turbine High Exhaust Pressure	1, 2 ^(c) , 3 ^(c)	1 ^(b)	B	TSR 3.3.2.2 TSR 3.3.2.3 TSR 3.3.2.5	≤ 150 psig
c. Pump Low Suction Pressure	1, 2 ^(c) , 3 ^(c)	1 ^(b)	B	TSR 3.3.2.2 TSR 3.3.2.3 TSR 3.3.2.5	≤ 15" Hg Vacuum
d. Gland Seal Condenser Low Hotwell Level	1, 2 ^(c) , 3 ^(c)	1 ^(d)	B	TSR 3.3.2.2	≥ 18"
e. Gland Seal Condenser High Hotwell Level	1, 2 ^(c) , 3 ^(c)	1 ^(d)	B	TSR 3.3.2.2	≤ 46"
f. Turbine Conditional Supervisory Alarm Actuation Timer	1, 2 ^(c) , 3 ^(c)	1 ^(d)	E	TSR 3.3.2.2 TSR 3.3.2.4	13.5 ≤ T ≤ 16.5 sec
g. Discharge Line Low Pressure	1, 2 ^(c) , 3 ^(c)	1 ^(d)	D	TSR 3.3.2.2 TSR 3.3.2.3	≥ 10 psig

(continued)

- (a) When associated subsystem(s) are required to be OPERABLE.
- (b) In only one trip system
- (c) When reactor steam dome pressure > 150 psig.
- (d) Not considered in a trip system.

Table T3.3.2-1 (Page 3 of 3)
ECCS and RCIC Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS PER TRIP SYSTEM	CONDITIONS REFERENCED FROM REQUIRED ACTION A.1	SURVEILLANCE REQUIREMENTS	ACCEPTANCE LIMITS
5. ADS System					
a. Logic Power Monitor	1, 2 ^(c) , 3 ^(c)	1 per subsystem	E	TSR 3.3.2.5	NA
b. Inhibit Switch Function	1, 2 ^(c) , 3 ^(c)	1 per subsystem	E	TSR 3.3.2.2	NA
6. RCIC Systems					
a. Logic Power System	1, 2 ^(c) , 3 ^(c)	1	E	TSR 3.3.2.5	NA
b. High Turbine Exhaust Pressure	1, 2 ^(c) , 3 ^(c)	1 ^(b)	B	TSR 3.3.2.2 TSR 3.3.2.3	≤ 50 psig
c. Low Pump Suction Pressure	1, 2 ^(c) , 3 ^(c)	1 ^(b)	B	TSR 3.3.2.2 TSR 3.3.2.3	≤ 15" Hg Vacuum
d. Low Pump Discharge Flow	1, 2 ^(c) , 3 ^(c)	1 ^(b)	B	TSR 3.3.2.2 TSR 3.3.2.3	≥ 40 gpm and ≤ 95 gpm
e. Discharge Line Low Pressure	1, 2 ^(c) , 3 ^(c)	1 ^(d)	D	TSR 3.3.2.2 TSR 3.3.2.3	≥ 10 psig
f. Turbine Conditional Supervisory Alarm Timer	1, 2 ^(c) , 3 ^(c)	1 ^(d)	E	TSR 3.3.2.2 TSR 3.3.2.4	13.5 ≤ T ≤ 16.5 sec

- (a) When associated subsystem(s) are required to be OPERABLE.
- (b) In only one trip system
- (c) When reactor steam dome pressure > 150 psig.
- (d) Not considered in a trip system.

T 3.3 INSTRUMENTATION

T 3.3.3 Non-Type A, Non-Category 1 Post Accident Monitoring (PAM) Instrumentation

TLCO 3.3.3 The PAM instrumentation for each Function in Table T3.3.3-1 shall be OPERABLE.

APPLICABILITY: According to Table T3.3.3-1.

ACTIONS

-----NOTE-----
Separate Condition entry is allowed for each Function.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. For Functions 1, 2, 3, 4, 11, and 12 one required channel inoperable.	A.1 -----NOTE----- Not applicable to Function 11 safety valve indication. ----- Restore channel to OPERABLE status.	30 days
	<u>AND</u> A.2 -----NOTE----- Only applicable to Function 11 safety valve indication. ----- Enter TLCO 3.0.3.	

SURVEILLANCE REQUIREMENTS

-----NOTES-----

1. Refer to Table T3.3.3-1 to determine which TSRs apply for each Function.
 2. When a channel is placed in an inoperable status solely for performance of required Surveillances, entry into associated Conditions and Required Actions may be delayed for up to 6 hours provided the associated Function or the redundant Function maintains monitoring capability.
-

SURVEILLANCE	FREQUENCY
TSR 3.3.3.1 Perform CHANNEL CHECK.	12 hours
TSR 3.3.3.2 -----NOTE----- Not required to be performed until 12 hours after THERMAL POWER \geq 25% RTP. ----- Verify the absolute difference between the average power range monitor (APRM) channels and the calculated power is \leq 2% RTP plus any gain adjustment required by LCO 3.4.1 "Recirculation Loops Operating" while operating at \geq 25% RTP.	7 days
TSR 3.3.3.3 Perform CHANNEL CHECK.	31 days
TSR 3.3.3.4 Perform CHANNEL FUNCTIONAL TEST.	31 days
TSR 3.3.3.5 Perform CHANNEL CALIBRATION.	184 days

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TSR 3.3.3.6	<p>-----NOTES-----</p> <ol style="list-style-type: none"> 1. For Function 7b, not required to be performed when entering MODE 2 from MODE 1 until 12 hours after entering MODE 2. 2. Neutron detectors are excluded. <p>-----</p> <p>Perform CHANNEL CALIBRATION.</p>	24 months
TSR 3.3.3.7	Perform CHANNEL FUNCTIONAL TEST.	24 months
TSR 3.3.3.8	<p>-----NOTES-----</p> <ol style="list-style-type: none"> 1. For Function 7a, not required to be performed until 12 hours after IRMs on Range 2 or below. 2. Neutron detectors are excluded. <p>-----</p> <p>Perform CHANNEL CALIBRATION</p>	18 months
TSR 3.3.3.9	Perform CHANNEL CALIBRATION	92 days

Table T3.3.3-1
PAM Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	MINIMUM NUMBER OF OPERABLE INSTRUMENTS CHANNELS	SURVEILLANCE REQUIREMENTS
1. Drywell Temperature	1, 2	2	TSR 3.3.3.1 TSR 3.3.3.6
2. Suppression Chamber/ Torus Air Temperature	1, 2	2	TSR 3.3.3.1 TSR 3.3.3.5
3. Suppression Chamber/ Torus Water Level (Range: -4' to +6')	1, 2	2	TSR 3.3.3.1 TSR 3.3.3.8
4. Suppression Chamber/ Torus Water Level (Range: -10" to +10")	1, 2	2	TSR 3.3.3.1 TSR 3.3.3.8
5. Suppression Chamber/ Torus Pressure	1, 2	1	TSR 3.3.3.1 TSR 3.3.3.8
6. Control Rod Position	1, 2	1 per control rod	TSR 3.3.3.1
7. Neutron Monitoring			
a. SRM	2	1	TSR 3.3.3.1 TSR 3.3.3.8
b. IRM	2	1	TSR 3.3.3.1 TSR 3.3.3.6
c. APRM	1	1	TSR 3.3.3.1 TSR 3.3.3.2
8. Elevated Release Point (ERP) Monitor (High Range Noble Gas)	1, 2, 3	1	TSR 3.3.3.4 TSR 3.3.3.8
9. Turbine Building Ventilation Exhaust Monitor (High Range Noble Gas)	1, 2, 3	1	TSR 3.3.3.4 TSR 3.3.3.8
10. Radwaste/Augmented Radwaste Exhaust Monitor (High Range Noble Gas)	1, 2, 3	1	TSR 3.3.3.4 TSR 3.3.3.8
11. Safety and Safety Relief Valve Position Indication	1, 2	1 per valve	TSR 3.3.3.3 TSR 3.3.3.7
12. Primary Containment H ₂ & O ₂ Analyzer	1, 2	2	TSR 3.3.3.3 TSR 3.3.3.9

T 3.3 INSTRUMENTATION

T 3.3.4 [DELETED]

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T 3.3 INSTRUMENTATION

T 3.3.5 Feedwater Flow Instrumentation

TLCO 3.3.5 Both Leading Edge Flow Meter CheckPlus instrumentation systems shall be OPERABLE.

APPLICABILITY: MODE 1 and THERMAL POWER > 2177 MWt

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more systems inoperable.	A.1 Verify no reduction in power to ≤ 2177 MWt occurs during the 72 hour COMPLETION TIME of REQUIRED ACTION A.2.	Immediately
	<u>AND</u>	
	A.2 Restore required instruments to OPERABLE status.	72 hours
B. Required Action and associated Completion Time of CONDITION A not met.	B.1 Initiate an orderly power reduction to ≤ 2381 MWt.	Immediately
	<u>OR</u>	
	B.2 Verify power is no greater than 2381 MWt.	Immediately

SURVEILLANCE REQUIREMENTS

-----NOTE-----
Not required to be performed until 12 hours after THERMAL POWER > 2177 MWt.

SURVEILLANCE	FREQUENCY
TSR 3.3.5.1 Perform CHANNEL CHECK.	12 hours

T 3.4 REACTOR COOLANT SYSTEM (RCS)

T 3.4.1 RCS Chemistry

TLCO 3.4.1 The chemistry of the Reactor Coolant System (RCS) shall be maintained within the limits of Table T3.4.1-1.

APPLICABILITY: According to Table T3.4.1-1.

ACTIONS

-----NOTE-----
TLCO 3.0.4 is not applicable.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. RCS chemistry not within the limits of Table T3.4.1-1, Condition 2.	A.1 Restore RCS chemistry to within limits.	48 hours from the time the limit(s) were exceeded
B. RCS chemistry not within the limits of Table T3.4.1-1, Condition 1.	B.1 Restore RCS chemistry to within limits.	72 hours from the time the limit(s) were exceeded
	<u>AND</u> B.2 -----NOTE----- Only applicable to chloride concentration and conductivity limits. ----- Restore RCS chemistry to within limits.	
		336 hours cumulative in past 365 days

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>C. RCS chemistry not within the limits of Table 3.4.1-1, Condition 4.</p>	<p>C.1 Restore chloride concentration to within limits.</p> <p><u>AND</u></p> <p>C.2 Restore conductivity to within limits.</p> <p><u>AND</u></p> <p>C.3 Restore pH to within limits.</p>	<p>24 hours from the time the limit(s) were exceeded</p> <p>72 hours from the time the limit(s) were exceeded</p> <p>72 hours from the time the limit(s) were exceeded</p>
<p>D. RCS chemistry not within the limits of Table 3.4.1-1, Condition 3.</p>	<p>D.1 Discontinue Classic NobleChem Application activities - except as necessary for required actions D.2, D.3, and D.4.</p> <p><u>AND</u></p> <p>D.2 Restore chloride concentration to within limits.</p> <p><u>AND</u></p> <p>D.3 Restore conductivity to within limits.</p> <p><u>AND</u></p> <p>D.4 Restore pH to within limits.</p>	<p>Immediately</p> <p>24 hours from the time the limit(s) were exceeded</p> <p>24 hours from the time the limit(s) were exceeded</p> <p>24 hours from the time the limit(s) were exceeded</p>
<p>E. Required Action and associated Completion Time of Condition B not met.</p>	<p>E.1 Be in MODE 2.</p>	<p>8 hours</p>

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>I. -----NOTE----- Required Action I.1 shall be completed if this Condition is entered -----</p> <p>Required Action and associated Completion Time for Condition C not met.</p>	<p>I.1 Perform engineering evaluation to determine structural integrity of RCS is acceptable for continued operation.</p>	<p>Prior to entering MODE 2 or 3</p>

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>TSR 3.4.1.1 Verify conductivity is within limits of Table T3.4.1-1. If conductivity is $\geq 1.0 \mu\text{mho/cm}$ at 25°C verify pH is within limits of Table T3.4.1-1.</p>	<p>4 hours when the continuous conductivity monitor is inoperable in MODES 1, 2, and 3</p>

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TSR 3.4.1.2	Analyze reactor coolant sample for conductivity and chloride concentration.	<p>80 hours when conductivity is $\leq 0.7 \mu\text{mho/cm}$ at 25°C in MODES 1, 2, and 3</p> <p><u>AND</u></p> <p>24 hours when conductivity is > 0.7 but $\leq 2.0 \mu\text{mho/cm}$ at 25°C in MODES 1, 2, and 3</p> <p><u>AND</u></p> <p>8 hours when conductivity is > 2.0 but $\leq 3.5 \mu\text{mho/cm}$ at 25°C in MODES 1, 2, and 3</p>
TSR 3.4.1.3	Analyze reactor coolant sample for conductivity, chloride concentration and pH.	4 hours when conductivity is $> 3.5 \mu\text{mho/cm}$ at 25°C in MODES 1, 2, and 3
TSR 3.4.1.4	Analyze reactor coolant sample for conductivity and chloride concentration. If conductivity is $\geq 1.0 \mu\text{mho/cm}$ at 25°C analyze for pH.	80 hours when in MODES 4 and 5

Table T3.4.1-1
RCS Chemistry Limits

SPECIFIED CONDITIONS	CHLORIDE CONCENTRATION LIMIT	CONDUCTIVITY LIMIT (AT 25°C)	pH LIMIT***
1. > 10% Rated Power	≤ 0.2 ppm	≤ 1.0 μmho/cm	5.6 ≤ pH ≤ 8.6
2. * ≤ 10% Rated Power	≤ 0.1 ppm	≤ 2.0 μmho/cm	5.6 ≤ pH ≤ 8.6
<u>AND</u>			
> 212°F			
3. ** During Classic NobleChem Application	≤ 0.1 ppm if ≥ 212°F ≤ 0.5 ppm if < 212°F	≤ 20 μmho/cm	4.3 ≤ pH ≤ 9.9
4. * All other times	≤ 0.5 ppm	≤ 10.0 μmho/cm	5.3 ≤ pH ≤ 8.6

* Except during Classic NobleChem Application. On-line NobleChem Application uses Condition 1 limits.

** Classic NobleChem Application includes up to 48 hours of noble metal injection, followed by up to 24 hours for restoration to acceptable chemistry limits for either Condition 2 or 4. RCS temperature may drop below 212°F during the restoration period.

*** When conductivity is <1.0 μmho the pH can not be out of limits and pH analysis is not necessary.

[DELETED] |
T 3.6.1

T 3.6 [DELETED]

T 3.6.1 [DELETED]

T 3.7 PLANT SYSTEMS

T 3.7.1 River Level

TLCO 3.7.1 The River Level shall be < 895 ft. MSL and upstream system dams intact.

APPLICABILITY: At all times.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. River Level is \geq 895 ft. MSL or notification of upstream dam failure.	A.1 Implement CNS Site Flood Procedure.	Immediately
B. River Level is \geq 901 ft. 8 in. MSL.	B.1 Be in MODE 3.	12 hours
	<u>AND</u> B.2 Be in MODE 4, with the reactor vessel vented to atmosphere.	36 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TSR 3.7.1.1 Visually observe and log river water level at the intake structure.	12 hours

T 3.7 PLANT SYSTEMS

T 3.7.2 Structural Integrity

TLCO 3.7.2 The structural integrity of the ASME Code Class 1, 2, and 3 components shall be maintained in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50.55a(g), except where approved relief has been granted.

APPLICABILITY: At all times

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Structural integrity of Class 1, 2, or 3 component not met.	A.1 Declare component inoperable	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TSR 3.7.2.1 Inservice inspection shall be performed in accordance with the requirements for ASME Class 1, 2, and 3 components contained in Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50, Section 50.55a(g), except where relief has been granted by the Commission pursuant to 10 CFR 50, Section 50.55a.	In accordance with the inservice inspection program.

(continued)

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE		FREQUENCY
TSR 3.7.2.2	The inservice inspection program for piping identified in NRC Generic Letter 88-01 shall be performed in accordance with BWRVIP-75 and the NRC Safety Evaluation (TAC No. MA5012).	In accordance with BWRVIP-75 and the NRC Safety Evaluation.

T 3.7 [DELETED]

T 3.7.3 [DELETED]

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T 3.8 ELECTRICAL POWER SYSTEMS

T 3.8.1 Battery Room Ventilation

TLCO 3.8.1 The Station Service Battery Room Ventilation system with two ventilation fans shall be OPERABLE.

APPLICABILITY: When either 125v or either 250v Station Service battery is required to be OPERABLE.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One Battery Room Ventilation fan inoperable.	A.1 Restore the Battery Room Ventilation fan to OPERABLE status.	7 days
B. Battery Room Ventilation system inoperable for reasons other than Condition A.	B.1 Initiate action to establish battery room ventilation.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TSR 3.8.1.1 Check OPERABILITY of Battery Room Ventilation fans by rotation of the fans.	7 days

T 3.9 REFUELING OPERATIONS

T 3.9.1 Time Limitation

TLCO 3.9.1 The reactor shall be shutdown for ≥ 24 hours.

APPLICABILITY: Whenever handling irradiated fuel in or above the reactor.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Reactor shutdown for < 24 hours.	A.1 Suspend handling of irradiated fuel in and above the reactor.	Immediately

T 3.9 REFUELING OPERATIONS

T 3.9.2 Spent Fuel Cask Handling

TLCO 3.9.2 The fuel cask handling equipment used shall be OPERABLE in the restricted mode.

APPLICABILITY: During fuel cask movement.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>A. Controlled area Programmable Logic Controller inoperable.</p> <p><u>AND</u></p> <p>Fuel cask movement above the 931' level of the Reactor Building.</p>	<p>A.1 Station an operator on the refueling floor to assure the crane is operated within the restricted zone painted on the floor.</p> <p><u>AND</u></p> <p>A.2 Restore the Programmable Logic Controller to OPERABLE status.</p>	<p>Immediately</p> <p>48 hours</p>
<p>B. Required Action and associated Completion Time of Condition A not met.</p> <p><u>OR</u></p> <p>Fuel cask handling equipment inoperable for reasons other than Condition A.</p> <p><u>OR</u></p> <p>An emergency condition develops.</p>	<p>B.1 Move cask to the closest acceptable stable location.</p>	<p>Immediately</p>

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TSR 3.9.2.1	<p>Inspect redundant crane including rope, hooks, slings, shackles and other operating mechanisms. Replace rope, if any of the following conditions exist;</p> <ul style="list-style-type: none"> a. Twelve (12) randomly distributed broken wires in one lay or four (4) broken wires in one strand of one rope lay. b. Wear of one-third the original diameter of outside individual wire. c. Kinking, crushing, or any other damage resulting in distortion of the rope. d. Evidence of any type of heat damage. e. Reductions from nominal diameter of more than 1/16" for a rope diameter from 7/8" to 1 1/4" inclusive. 	Prior to dry fuel storage campaign
TSR 3.9.2.2	<p>Perform the following tests;</p> <ul style="list-style-type: none"> a. controlled area Programmable Logic Controller test. b. "two-block" limit switches test. c. "Hoist Micro Speed" controls test. 	Prior to operations in the restricted mode.
TSR 3.9.2.3	Lift empty transfer cask free of all support by a maximum of 1 ft and hold for 5 min.	Prior to fuel cask handling operations

T 3.11 FIRE PROTECTION SYSTEMS

T 3.11.1 Fire Detection Instrumentation

TLCO 3.11.1 The Fire Detection Instrumentation shown in Table T3.11.1-1 shall be OPERABLE.

APPLICABILITY: At all times.

ACTIONS

-----NOTE-----
Separate Condition entry is allowed for each fire detection instrument.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more required fire detection instrument(s) inoperable.	A.1 -----NOTE----- Only applicable to Table T3.11.1-1, Group 1, 2, and 3 -----	1 hour
	Establish an hourly fire watch patrol for the zone(s) with the inoperable instrument(s). <u>OR</u>	
	A.2 -----NOTE----- Only applicable to Table T3.11.1-1, Group 4 -----	1 hour
	<u>AND</u> A.3 Restore the fire detection instrumentation to OPERABLE status.	14 days

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TSR 3.11.1.1	Perform CHANNEL FUNCTIONAL TEST for each detector in Table T3.11.1-1.	Annually
TSR 3.11.1.2	<p>-----NOTE----- Not required to be met for FP-SD-1001 or FP-SD-9-32_33. -----</p> <p>Demonstrate OPERABLE the NFPA Standard 72.D Class A or B supervised circuits associated with the detector alarms of each of the required fire detection instruments.</p>	Annually

TABLE T3.11.1-1
FIRE DETECTION INSTRUMENTS

GROUP	LOCATION	INSTRUMENT ID NO.
1.	Cable Spreading Room Cable Expansion Room	FP-SD-16-1 FP-SD-16-2 FP-SD-16-3 FP-SD-16-4 FP-SD-16-5 FP-SD-16-6 FP-SD-1001 FP-SD-16-7 FP-SD-16-8
2.	Diesel Generator Rooms	FP-TD-10-1 FP-TD-10-2 FP-TD-10-3 FP-TD-10-4 FP-TD-10-5 FP-TD-10-6 FP-TD-10-7 FP-TD-10-8 FP-TD-10-9 FP-TD-10-10 FP-TD-10-11 FP-TD-10-12 FP-TD-10-13 FP-TD-10-14 FP-TD-10-15 FP-TD-10-16 FP-TD-10-17 FP-TD-10-18 FP-TD-10-19 FP-TD-10-20 FP-TD-10-21 FP-TD-10-22 FP-TD-10-23 FP-TD-10-24 FP-TD-10-25 FP-TD-10-26 FP-TD-10-27

(continued)

GROUP	LOCATION	INSTRUMENT ID NO.
2. (continued)	Diesel Generator Rooms	FP-TD-10-28 FP-TD-10-29 FP-TD-10-30 FP-TD-10-31 FP-TD-10-32 FP-TD-10-33 FP-TD-10-34 FP-TD-10-35 FP-TD-10-36 CO2-SD-DG-1A CO2-SD-DG-1B CO2-SD-DG-1C CO2-SD-DG-1D CO2-SD-DG-2A CO2-SD-DG-2B CO2-SD-DG-2C CO2-SD-DG-2D
3.	Service Water Pumps	FP-SD-32-1 FP-SD-32-2 FP-SD-32-3 FP-SD-32-4 FP-SD-1003A FP-SD-1003B FP-SD-H1 FP-SD-H2 FP-SD-H3 FP-SD-H4 FP-SD-H5 FP-SD-H6 FP-TD-H11 FP-TD-H12 FP-TD-H13 FP-TD-H14 FP-TD-H15 FP-TD-H16
4.	Auxiliary Relay Room	FP-SD-9-32_33

LEGEND

FP = Fire Protection
TD = Thermal Detector
SD = Smoke Detector

CO₂ = Carbon Dioxide
DG = Diesel Generator
1st Digit Instr. ID No. = Zone
2nd Digit Instr. ID No. = Instr. No.

T 3.11 FIRE PROTECTION SYSTEMS

T 3.11.2 Fire Suppression Water System

TLCO 3.11.2 The Fire Suppression Water System shall be OPERABLE with:

- a. Two OPERABLE fire pumps with their discharge aligned to the fire suppression header.
- b. An OPERABLE flow path capable of taking suction from either of two 500,000 gallon water storage tanks and transferring the water through distribution piping with OPERABLE sectionalizing control or isolation valves to the yard hydrant valves and the front valve ahead of the water flow alarm device on each sprinkler, hose standpipe or spray system riser.

APPLICABILITY: At all times.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One required fire pump inoperable.	A.1 Restore fire pump to OPERABLE status.	7 days

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. The Fire Suppression Water System inoperable for reasons other than Condition A.	B.1 Establish a backup fire suppression water system.	24 hours
	<u>AND</u> B.2 Restore Fire Suppression Water System to OPERABLE status.	7 days

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TSR 3.11.2.1	Verify the electrolyte level of each battery for the diesel engine driven fire pump is above the plates.	7 days
TSR 3.11.2.2	Verify the overall battery voltage for the diesel engine driven fire pump is ≥ 24 volts.	7 days
TSR 3.11.2.3	<p style="text-align: center;">-----NOTE-----</p> <p>Testing of the fire pumps shall be staggered such that only one pump is being tested at a time.</p> <p>-----</p> <p>Start each fire pump from ambient conditions and operate it for:</p> <p>a. ≥ 30 minutes for a diesel engine driven fire pump.</p> <p>b. ≥ 10 minutes for an electrical motor driven fire pump.</p>	<p>Quarterly</p> <p>Quarterly</p>
TSR 3.11.2.4	Verify each Fire Suppression Water System manual, power operated, and automatic valve in the flow path that is not locked, sealed, or otherwise secured in position, is in the correct position.	Quarterly
TSR 3.11.2.5	Verify the diesel engine driven fire pump fuel storage tank contains ≥ 250 gallons of fuel.	Quarterly

(continued) |

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE		FREQUENCY
TSR 3.11.2.6	Verify a sample of fuel from the diesel engine driven fire pump fuel storage tank, obtained in accordance with ASTM-D4057, is within the acceptable limits in ASTM-D975 for viscosity, water content, and sediment.	92 days
TSR 3.11.2.7	Verify the specific gravity of each battery for the diesel engine driven fire pump is appropriate for continued service of the battery.	6 months
TSR 3.11.2.8	Cycle each testable valve in the Fire Suppression Water System flow path through at least one complete cycle of full travel.	12 months
TSR 3.11.2.9	<p>Verify the battery racks for the diesel engine driven fire pump show no visual indication of physical damage or abnormal deterioration, and:</p> <ul style="list-style-type: none"> a. Verify the batteries and cell plates show no visual indication of physical damage or abnormal deterioration; or b. Replace the batteries. 	18 months
TSR 3.11.2.10	Verify the battery-to-battery and terminal connections for the diesel engine driven fire pump batteries are clean, tight, free of corrosion and coated with anti-corrosion material.	18 months

(continued) |

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE		FREQUENCY
TSR 3.11.2.11	Inspect the diesel of the diesel engine driven fire pump in accordance with procedures prepared in conjunction with the manufacturer's recommendations for the class of service.	24 months
TSR 3.11.2.12	Verify the diesel of the diesel engine driven fire pump starts from ambient conditions on the auto-start signal and operates for ≥ 15 minutes while loaded with the fire pump.	24 months
TSR 3.11.2.13	Perform a system functional test which includes actual or simulated automatic actuation of the Fire Suppression Water System throughout its operating sequence, and: <ul style="list-style-type: none"> a. Verifying that each fire pump develops ≥ 2000 gpm at a pressure ≥ 110 psig, b. Verifying that each fire pump starts sequentially to maintain the fire suppression water system pressure ≥ 65 psig. 	24 months
TSR 3.11.2.14	Perform an underground and exposed piping flow test of the Fire Suppression Water System to determine the internal condition of piping.	60 months

T 3.11 FIRE PROTECTION SYSTEMS

T 3.11.3 Sprinkler Systems

TLCO 3.11.3 The Fire Protection Automatic Sprinkler Systems protecting the Cable Spreading Room (918 ft. elev. of Control Building), and the Cable Expansion Room (918 ft. elev. of Controlled Corridor) shall be OPERABLE.

APPLICABILITY: At all times.

ACTIONS

-----NOTE-----
Separate Condition entry is allowed for each Sprinkler System.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Required Sprinkler System inoperable.	A.1 Establish a continuous fire watch with backup fire suppression equipment for the unprotected area.	1 hour
	<p><u>AND</u></p> <p>A.2 Restore Sprinkler System to OPERABLE status.</p>	14 days

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TSR 3.11.3.1	Cycle each testable valve in the Sprinkler Systems flow paths through at least one complete cycle of full travel.	12 months
TSR 3.11.3.2	Perform a system functional test which includes actual or simulated automatic actuation of the Sprinkler Systems, and verifying that each automatic valve in the flow paths actuates to its correct position on a test signal.	18 months
TSR 3.11.3.3	Inspect the Sprinkler Systems spray headers to verify their integrity.	18 months

T 3.11 FIRE PROTECTION SYSTEMS

T 3.11.4 High Pressure Carbon Dioxide Extinguishing System

TLCO 3.11.4 The High Pressure Carbon Dioxide Extinguishing System protecting the Diesel Generator Rooms shall be OPERABLE.

APPLICABILITY: At all times.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Required High Pressure Carbon Dioxide Extinguishing System inoperable.	A.1 Establish a continuous fire watch with backup fire suppression equipment for the unprotected area(s).	1 hour
	<u>AND</u> A.2 Restore High Pressure Carbon Dioxide Extinguishing System to OPERABLE status.	14 days

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TSR 3.11.4.1	Weigh the High Pressure Carbon Dioxide storage cylinders.	Annually
TSR 3.11.4.2	Verify the High Pressure Carbon Dioxide Extinguishing System valves, alarms, and associated ventilation motor interlocks and dampers actuate to a simulated automatic and manual actuation signal.	24 months

T 3.11 FIRE PROTECTION SYSTEMS

T 3.11.5 Halon 1301 Fire Suppression System

TLCO 3.11.5 The Halon 1301 Fire Suppression System protecting the Service Water Pump Room shall be OPERABLE.

APPLICABILITY: At all times.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Required Halon 1301 Fire Suppression System inoperable.	A.1 Establish a continuous fire watch with backup fire suppression equipment for the unprotected area.	1 hour
	<u>AND</u>	
	A.2 Restore Halon 1301 Fire Suppression System to OPERABLE status.	14 days

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TSR 3.11.5.1	Record the quantity of Halon and the pressure of each Halon storage tank for the Halon 1301 Fire Suppression System and verify that at least one storage tank is: a. Charged to at least 95% of the design quantity (650 lbs.), and b. 90% of full charge pressure.	Annually
TSR 3.11.5.2	Verify the Halon 1301 Fire Suppression System valves, alarms, and associated ventilation motor interlocks and dampers actuate to a simulated automatic and manual actuation signal.	18 months
TSR 3.11.5.3	Perform an inspection to assure the Halon 1301 Fire Suppression System nozzles are unobstructed.	18 months

T 3.11 FIRE PROTECTION SYSTEMS

T 3.11.6 Fire Hose Stations

TLCO 3.11.6 The Fire Hose Stations in Table T3.11.6-1 shall be OPERABLE.

APPLICABILITY: At all times.

ACTIONS

-----NOTE-----

Separate Condition entry is allowed for each Fire Hose Station.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Required Fire Hose Station inoperable.	A.1 Route an additional hose to the area protected by the inoperable Fire Hose Station from an OPERABLE Fire Hose Station of equivalent capacity.	1 hour

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TSR 3.11.6.1	Visually inspect the Fire Hose Stations to ensure all required equipment is at the station.	Quarterly
TSR 3.11.6.2	Remove, inspect, and re-rack the fire hose at each Fire Hose Station.	24 months
TSR 3.11.6.3	Replace all degraded gaskets in couplings for each Fire Hose Station.	24 months
TSR 3.11.6.4	Partially open each Fire Hose Station valve to verify valve OPERABILITY and no flow blockage.	48 months
TSR 3.11.6.5	Hydrostatically test the fire hose at each Fire Hose Station at a pressure at least 50 psig greater than the maximum pressure available at that hose station.	36 months

Table T3.11.6-1

FIRE HOSE STATIONS

<u>Location</u>	<u>Identification #</u>	<u>Hose Size</u>
1. <u>Reactor Building</u>		
859 & 881 Elevation	HV-31	1 1/2"
	HV-32	1 1/2"
	HV-33	1 1/2"
903 Elevation	HV-35	1 1/2"
	HV-36	1 1/2"
	HV-38	1 1/2"
	HV-34	1 1/2"
	HV-62	1 1/2"
931 Elevation	HV-37	1 1/2"
	HV-57	1 1/2"
	HV-59	1 1/2"
958 Elevation	HV-39	1 1/2"
	HV-40	1 1/2"
	HV-42	1 1/2"
976 Elevation	HV-41	1 1/2"
	HV-46	1 1/2"
	HV-56	1 1/2"
	HV-58	1 1/2"
	HV-63	1 1/2"
1001 Elevation	HV-43	1 1/2"
	HV-44	1 1/2"
	HV-45	1 1/2"
2. <u>Cable Spreading Room</u>	HV-18	1 1/2"
3. <u>Computer & Control Rooms</u>	HV-19	1 1/2"
4. <u>Switchgear Rooms & Station Battery Room</u>		
D.C. Switchgear Room and Station Battery Rooms	HV-17	1 1/2"

<u>Location</u>	<u>Identification #</u>	<u>Hose Size</u>
5. <u>Safety Related Pumps not in Reactor Building</u> RHR Service Water Booster Pumps	HV-16	1 1/2"

T 3.11 FIRE PROTECTION SYSTEMS

T 3.11.7 Fire Barrier and Fire Wall Penetration Fire Seals

TLCO 3.11.7 The Fire Barrier and Fire Wall Penetration Fire Seals integrity shall be maintained.

APPLICABILITY: At all times.

ACTIONS

-----NOTE-----
Separate Condition entry is allowed for each Fire Barrier and Fire Wall Penetration Fire Seal.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Integrity not maintained for a Rated Fire Barrier or Fire Wall Penetration Fire Seal.	<p>A.1 Establish a continuous fire watch on at least one side of the barrier / penetration.</p> <p style="text-align: center;"><u>OR</u></p> <p>A.2 Verify there is operable detection or suppression on both sides - No fire watch required.</p> <p style="text-align: center;"><u>OR</u></p> <p>A.3.1 Verify there is operable detection or suppression on least one side –</p> <p style="text-align: center;"><u>AND</u></p> <p>A.3.2 Establish a 1 hour fire watch patrol for the area of concern.</p> <p style="text-align: center;"><u>OR</u></p> <p>A.4 Install temporary fire seal per Station procedures.</p> <p style="text-align: center;"><u>OR</u></p> <p>A.5 Implement alternate compensatory measures.</p>	1 hour

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
TSR 3.11.7.1	Visually inspect each side of each Fire Barrier and Penetration Fire Seal (where possible).	24 months <u>AND</u> Prior to declaring a fire barrier penetration OPERABLE following repairs or maintenance

T 3.12 BEYOND DESIGN BASIS COMPONENTS

T 3.12.1 Diverse and Flexible Coping Strategies (FLEX) Equipment

TLCO 3.12.1 The FLEX Equipment specified in Table 3.12.1-1 shall be functional.

APPLICABILITY: At all times.

ACTIONS

-----NOTE-----

Separate Condition entry is allowed for each FLEX component.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more FLEX components specified in Table 3.12.1-1 not functional in one FLEX Storage Building.	A.1 Restore the FLEX component to functional status.	45 days
B. Action A.1 completion time not met. <u>OR</u> One or more FLEX components specified in Table 3.12.1-1 not functional during a forecast site specific external event.	B.1 Initiate action to supplement the FLEX component with alternate suitable equipment.	Immediately

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
C. One or more FLEX components specified in Table 3.12.1-1 not functional in both FLEX Storage Buildings.	C.1 Initiate actions to restore one FLEX Storage Building's components to functional status.	24 hours
	<u>AND</u> C.2 Implement compensatory measures.	72 hours

Table 3.12.1-1

FLEX Equipment that Directly Performs a FLEX
Mitigation Strategy for the Key Safety Functions

COMPONENT	NUMBER OF COMPONENTS REQUIRED IN EACH FLEX STORAGE BUILDING
FLEX 175KW Diesel Generator (FLEX-DG-175KW 1/FLEX-DG-175KW 2)	1
FLEX Pump (FLEX-P-1/FLEX-P-2)	1
FLEX 60KW Diesel Generator (FLEX-DG-60KW 1/FLEX-DG-60KW 2)	1
FLEX 6KW Diesel Generator ¹ (FLEX-DG-6KW * / FLEX-DG-6KW *)	1 ¹
FLEX Air Compressor (FLEX-CPSR-1/FLEX-CPSR-2)	1
FLEX Tractor (FL-GN-CNST-MANT-SUPT)	1
FLEX Hoses and Cables	1 set ²
FLEX Refueling Trailer	1
RCIC Ventilation	1 set ²

¹There are six (6) 6KW Diesel Generators in each FLEX Storage Building. One in each FLEX Storage Building is mounted on the refueling trailer, which leaves five (5) in each FLEX Storage Building to meet this specification.

²The set is specified in the FLEX Storage Building inventory procedure.

T 3.12 BEYOND DESIGN BASIS COMPONENTS

T 3.12.2 FLEX Fluid and Electrical Connection Components

TLCO 3.12.2 The FLEX Fluid and Electrical Connection Components required to implement the FLEX Strategy when the FLEX Equipment is connected at the point specified in Table 3.12.2-1 shall be functional.

APPLICABILITY: At all times.

ACTIONS

-----NOTE-----

Separate Condition entry is allowed for each FLEX connection.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. The Primary or Secondary Connection for one or more Safety Functions/FLEX components specified in Table 3.12.2-1 is not functional.	A.1 Restore the FLEX Connection to functional status.	90 days
B. Action A.1 completion time not met.	B.1 Initiate action to supplement the FLEX Connection with an additional Connection that meets the requirements of NEI 12-06 including diversity.	Immediately

(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
C. The Primary and Secondary Connection for one or more Safety Functions/FLEX components specified in Table 3.12.2-1 are not functional.	C.1 Initiate actions to restore site FLEX capability.	24 hours
	<u>AND</u>	
	C.2 Implement compensatory measures.	72 hours

Table 3.12.2-1

FLEX Connections that Directly Perform a FLEX
Mitigation Strategy for the Key Safety Functions

SAFETY FUNCTION/FLEX COMPONENT	PRIMARY CONNECTION POINT	SECONDARY CONNECTION POINT
Maintain Core Cooling/FLEX Pump Discharge	SW-V-1531	RHR-V-147
Maintain Core Cooling/175KW FLEX Generator	EE-DSC-125C FLEX/ EE-DSC-250C FLEX	EE-MCC-LX(1B)/(2C) <u>or</u> EE-MCC-TX(1B)/(2C)
Maintain Core Cooling/FLEX Air Compressor	SA-V-677	SA-V-660
Maintain SFP Cooling/SFP Makeup FLEX Pump Discharge	FPC FLEX CONNECTION	Hose Routed to Pool or Spray Monitor
Maintain Core Cooling/Phase 3 FLEX Generator	SDG MODS	4160 FLEX cart

T 3.12 BEYOND DESIGN BASIS COMPONENTS

T 3.12.3 Hotwell to Emergency Condensate Storage Tank (ECST) Transfer Pump

TLCO 3.12.3 The Hotwell to ECST Transfer Pump shall be functional.

APPLICABILITY: MODES 1, 2 and 3.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Hotwell to ECST Transfer Pump not functional.	A.1 Restore Hotwell to ECST Transfer Pump to functional status.	90 days
B. Action A.1 completion time not met.	B.1 Enter TLCO 3.0.3.	Immediately

T 3.12 BEYOND DESIGN BASIS COMPONENTS

T 3.12.4 North Well Pump

TLCO 3.12.4 The North Well Pump shall be functional.

APPLICABILITY: At all times.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. North Well Pump not functional.	A.1 Restore North Well Pump to functional status.	45 days
B. Action A.1 completion time not met.	B.1 Enter TLCO 3.0.3.	Immediately

T 3.12 BEYOND DESIGN BASIS COMPONENTS

T 3.12.5 FLEX Staging Areas and Pathways

TLCO 3.12.5 The FLEX Staging Areas and Pathways shall be CLEAR.

APPLICABILITY: At all times.

ACTIONS

-----NOTE-----

Separate Condition entry is allowed for each area or pathway.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One FLEX Staging Area or Pathway obstructed.	A.1 Initiate actions to implement compensatory measures.	Immediately
	<u>AND</u>	
	A.2 Clear the FLEX Staging Area or Pathway.	45 days
B. Action A.1 or A.2 completion time not met.	B.1 Enter TLCO 3.0.3.	Immediately

T 3.12 BEYOND DESIGN BASIS COMPONENTS

T 3.12.6 Spent Fuel Pool Level Instrumentation

TLCO 3.12.6 The primary and back-up spent fuel pool level instruments shall be functional.

APPLICABILITY: At all times.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. The primary or back-up spent fuel pool level instrument does not meet the functional requirements.	A.1 Restore spent fuel pool level instrument to functional status.	90 days
B. Action A.1 completion time not met.	B.1 Implement compensatory measures.	Immediately
C. The primary and back-up spent fuel pool level instruments do not meet the functional requirements.	C.1 Initiate actions to restore one of the channels of instrumentation.	24 hours
	<u>AND</u> C.2 Implement compensatory measures.	72 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
TSR 3.12.6.1 Perform CHANNEL CHECK.	7 days
TSR 3.12.6.2 Perform CHANNEL FUNCTIONAL TEST.	Within 60 days of planned refueling outage

T 3.12 BEYOND DESIGN BASIS COMPONENTS

T 3.12.7 Hardened Containment Vent System (HCVS)

TLCO 3.12.7 The HCVS shall be functional.

APPLICABILITY: MODES 1, 2 and 3.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Primary control and monitoring elements <u>or</u> alternate valve control elements of HCVS render operation of the HCVS non-functional.	A.1 Initiate actions to restore functionality of the HCVS.	90 days
B. Primary control and monitoring elements <u>and</u> alternate valve control elements of HCVS render operation of the HCVS non-functional.	B.1 Initiate actions to restore functionality of the HCVS.	30 days
C. Required Action and associated Completion Time of Condition A or B not met.	C.1 Enter TLCO 3.0.3.	Immediately
	C.2 Initiate action to implement appropriate compensatory actions.	Immediately

T 3.12 BEYOND DESIGN BASIS COMPONENTS

T 3.12.8 Dam Accident Mitigation System (DAMS) Equipment

TLCO 3.12.8 The DAMS Equipment specified in Table 3.12.8-1 shall be functional.

APPLICABILITY: At all times.

ACTIONS

-----NOTE-----

Separate Condition entry is allowed for each DAMS component.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more DAMS components specified in Table 3.12.8-1 not functional but both trains collectively can produce one functional train.	A.1 Restore the DAMS component(s) to functional status.	90 days
B. One or more DAMS components specified in Table 3.12.8-1 not functional and both trains collectively cannot produce one functional train.	B.1 Restore one DAMS train components to functional status.	45 days
C. Required Action and associated Completion Time of Condition A or B not met. <u>OR</u> One or more DAMS components specified in Table 3.12.8-1 not functional during a forecast site specific external flood event.	C.1 Enter TLCO 3.0.3.	Immediately

Table 3.12.8-1

DAMS Equipment that Directly Performs a Mitigation Strategy Function

COMPONENT	NUMBER OF COMPONENTS REQUIRED IN EACH TRAIN
FLEX 175KW Diesel Generator (FLEX-DG-175KW 1/FLEX-DG-175KW 2)	1
FLEX Chopper Pump (FLEX-P-3/FLEX-P-4)	1
FLEX Booster Pump (FLEX-P-5/FLEX-P-6)	1
FLEX Hoses and Cables	1 set ¹
DAMS Distribution Panel	1 ²
Booster Pump Control Panel	1
Chopper Pump Control Panel	1 ²

¹The set is specified as 1/phase 2/0 FLEX cabling & 7/phase FLEX #2 cabling. DAM Building hosing set consists of 39 – 4" hoses & 12 – 6" hoses.

²Single panel used for both DAMS trains. Panel contains redundant breakers/starters for each train.