

3.7 PLANT SYSTEMS

3.7.1 Main Steam Safety Valves (MSSVs)

LCO 3.7.1 Two MSSVs per steam generator shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One MSSV inoperable.	A.1 Verify associated Main Steam Relief Train is OPERABLE.	Immediately
	<u>AND</u> A.2 Restore MSSV to OPERABLE status.	72 hours
B. Required Action and associated Completion Time of Condition A not met. <u>OR</u> Two or more MSSVs inoperable.	B.1 Be in MODE 3.	6 hours
	<u>AND</u> B.2 Be in MODE 4.	12 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.7.1.1</p> <p>-----NOTE----- Only required to be performed in MODES 1 and 2. -----</p> <p>Verify, for each steam generator, one MSSV lift setpoint of ≥ 1416.2 psig and ≤ 1503.8 psig and other MSSV lift setpoint of ≥ 1445.3 psig and ≤ 1534.7 psig in accordance with the Inservice Testing Program. Following testing, lift setting shall be within $\pm 1\%$.</p>	<p>In accordance with the Inservice Testing Program</p>

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3.7.2 Main Steam Isolation Valves (MSIVs)

LCO 3.7.2 Four MSIVs shall be OPERABLE.

APPLICABILITY: MODE 1,
MODES 2 and 3 except when all MSIVs are closed and deactivated.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more MSIVs inoperable due to one associated control line inoperable in MODE 1.	A.1 Restore control line(s) to OPERABLE status.	72 hours
B. One MSIV is inoperable in MODE 1 for reasons other than Condition A.	B.1 Restore MSIV to OPERABLE status.	8 hours
C. Required Action and associated Completion Time of Condition A or B not met.	C.1 Be in MODE 2.	6 hours
D. -----NOTE----- Separate Condition entry is allowed for each MSIV. ----- One or more MSIVs inoperable in MODE 2 or 3.	D.1 Close MSIV. <u>AND</u> D.2 Verify MSIV is closed.	8 hours Once per 7 days

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
E. Required Action and associated Completion Time of Condition D not met.	E.1 Be in MODE 3.	6 hours
	<u>AND</u> E.2 Be in MODE 4.	12 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.7.2.1 Cycle each MSIV pilot valve.	31 days
SR 3.7.2.2 -----NOTE----- Only required to be performed in MODES 1 and 2. ----- Perform a partial closure test of each MSIV.	92 days
SR 3.7.2.3 -----NOTE----- Only required to be performed in MODES 1 and 2. ----- Verify the isolation time of each MSIV is within limits.	In accordance with the Inservice Testing Program

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
<p>SR 3.7.2.4</p> <p>-----NOTE----- Only required to be performed in MODES 1 and 2. -----</p> <p>Verify each MSIV actuates to the isolation position on an actual or simulated actuation signal.</p>	<p>24 months on a STAGGERED TEST BASIS for each MSIV pilot valve</p>

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3.7.3 Main Feedwater (MFW) Valves

LCO 3.7.3 Four MFW Full Load Isolation Valves (MFWFLIVs), MFW Full Load Control Valves (MFWFLCVs), MFW Low Load Isolation Valves (MFWLLIVs), MFW Low Load Control Valves (MFWLLCVs), MFW Very Low Load Control Valves (MFWVLLCVs), and MFW Main Isolation Valves (MFWMIVs) shall be OPERABLE.

APPLICABILITY: MODE 1,
MODES 2 and 3 except when MFW valves are closed and deactivated.

ACTIONS

-----NOTE-----

Separate Condition entry is allowed for each MFW flow path.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more full load flow paths with one MFW valve inoperable.	A.1 Restore MFW valve to OPERABLE status.	7 days
B. One or more full load flow paths with two MFW valves inoperable.	B.1 Close or isolate the affected MFW full load flow path.	72 hours
	<u>AND</u> B.2 Verify the affected MFW full load flow path is closed or isolated.	Once per 7 days
C. One or more full load flow paths with three MFW valves inoperable.	C.1 Isolate the affected flow path.	8 hours

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
D. One or more low load or very low load flow paths with one or more MFWLLIV, MFWLLCV, or MFWLLCV valves inoperable.	D.1 Isolate associated flow path.	8 hours
	<u>AND</u> D.2 Verify the flow path is isolated.	7 days
E. Required Action and associated Completion Time not met.	E.1 Be in MODE 3.	6 hours
	<u>AND</u> E.2 Be in MODE 4.	12 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.7.3.1 Verify the isolation time of each MFWFLIV, MFWFLCV, MFWLLIV, MFWLLCV, MFWLLCV, and MFWMIV is within limits.	In accordance with the Inservice Testing Program
SR 3.7.3.2 Verify each MFWFLIV, MFWFLCV, MFWLLIV, MFWLLCV, MFWLLCV, and MFWMIV actuates to the isolation position on an actual or simulated actuation signal.	24 months

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3.7.4 Main Steam Relief Trains (MSRTs)

LCO 3.7.4 Four MSRTs shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>A. One or more MSRIVs inoperable due to one or both pilot valves in control line inoperable for opening.</p> <p><u>OR</u></p> <p>One or more required MSRIVs inoperable due to one pilot valve open in one or both control lines.</p>	<p>A.1 Restore pilot valve(s) to OPERABLE status.</p>	30 days
<p>B. One or two MSRIVs inoperable for opening.</p> <p><u>OR</u></p> <p>One MSRIV inoperable for closing.</p> <p><u>OR</u></p> <p>One MSRCV inoperable.</p>	<p>B.1 Verify associated main steam safety valve(s) are OPERABLE.</p> <p><u>AND</u></p> <p>B.2 Restore valve(s) to OPERABLE status.</p>	<p>Immediately</p> <p>7 days</p>

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>C. Required Action and associated Completion Times of Condition A or B not met.</p> <p><u>OR</u></p> <p>Two or more required MSRIVs inoperable for opening.</p> <p><u>OR</u></p> <p>Two or more required MSRCVs inoperable.</p>	<p>C.1 Be in MODE 3.</p> <p><u>AND</u></p>	6 hours
	<p>C.2 Be in MODE 4.</p>	12 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.7.4.1 Verify one complete cycle of each MSRIV.</p>	24 months on STAGGERED TEST BASIS for each control line
<p>SR 3.7.4.2 Verify one complete cycle of each MSRCV.</p>	24 months
<p>SR 3.7.4.3 Verify each MSRIV automatically actuates on an actual or simulated steam pressure setpoints.</p>	24 months
<p>SR 3.7.4.4 Verify each MSRCV is automatically positioned on an actual or simulated actuation signal.</p>	24 months

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE		FREQUENCY
SR 3.7.4.5	Verify each MSRCV is automatically switched into steam generator pressure control mode on an actual or simulated MSRIV opening signal.	24 months

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3.7.5 Emergency Feedwater (EFW) System

LCO 3.7.5 Four EFW pump trains shall be OPERABLE.

-----NOTE-----
Only one EFW pump train is required to be OPERABLE in MODE 4.

APPLICABILITY: MODES 1, 2, and 3,
MODE 4 when steam generator is relied upon for heat removal.

ACTIONS

-----NOTE-----
LCO 3.0.4.b is not applicable for two or more EFW pump trains inoperable when entering MODE 1.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One EFW pump train inoperable in MODE 1, 2, or 3.	A.1 Restore EFW pump train to OPERABLE status.	120 days
B. Two EFW pump trains inoperable in MODE 1, 2, or 3.	B.1 Restore one EFW pump train to OPERABLE status.	72 hours
C. Required Action and associated Completion Time for Condition A or B not met. <u>OR</u> Three EFW pump trains inoperable in MODE 1, 2, or 3.	C.1 Be in MODE 3. <u>AND</u> C.2 Be in MODE 4.	6 hours 12 hours

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
D. Four of the pump EFW trains inoperable in MODE 1, 2, or 3.	<p>D.1 -----NOTE----- LCO 3.0.3 and all other LCO Required Actions requiring MODE changes are suspended until one EFW pump train is restored to OPERABLE status. -----</p> <p>Initiate action to restore one EFW pump train to OPERABLE status.</p>	Immediately
E. One required EFW pump train inoperable in MODE 4.	E.1 Initiate action to restore required EFW pump train to OPERABLE status.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.7.5.1 Verify each EFW manual, power operated, and automatic valve in each water flow path that is not locked, sealed, or otherwise secured in position, is in the correct position.	31 days
SR 3.7.5.2 Verify EFW pump suction isolation valves are locked open.	31 days
SR 3.7.5.3 Cycle each EFW discharge header cross-connect valve.	In accordance with the Inservice Testing Program

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE		FREQUENCY
SR 3.7.5.4	Verify the developed head of each EFW pump at the flow test point is greater than or equal to the required developed head.	In accordance with the Inservice Testing Program
SR 3.7.5.5	Verify, on an actual or simulated actuation signal, each EFW automatic valve that is not locked, sealed, or otherwise secured in position actuates to the correct position, each EFW pump starts automatically, and flow rate is controlled within required limits and steam generator level is controlled within limits.	24 months
SR 3.7.5.6	Verify proper alignment of the required EFW flow paths by verifying flow from the EFW storage pool to its respective steam generator.	Prior to entering MODE 2 whenever unit has been in MODE 5, MODE 6, or defueled for a cumulative period of > 30 days

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3.7.6 Emergency Feedwater (EFW) Storage Pools

LCO 3.7.6 Four EFW Storage Pools shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3,
MODE 4 when steam generator is relied upon for heat removal.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more EFW Storage Pools inoperable.	A.1 Declare associated EFW train inoperable.	Immediately
	<u>AND</u>	
	A.2 Verify by administrative means, the operability of the back-up water supplies.	4 hours <u>AND</u> Once per twelve hours thereafter
	<u>AND</u>	
	A.3 Restore EFW Storage Pools to operable status.	7 days
B. Required Action and associated Completion Time not met.	B.1 Be in MODE 3.	6 hours
	<u>AND</u>	
	B.2 Be in MODE 4, without reliance on steam generator for heat removal.	24 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.7.6.1	Verify the EFW Storage Pools contain a usable volume \geq 365,000 gal.	24 hours
SR 3.7.6.2	Verify each EFW Storage Pool supply cross connect valve is closed.	31 days

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3.7.7 Component Cooling Water (CCW) System

LCO 3.7.7 Four CCW trains shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

-----NOTE-----
Enter applicable Conditions and Required Actions of LCO 3.4.6, "RCS Loops - MODE 4," for residual heat removal loops made inoperable by CCW System.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One CCW train inoperable.	A.1 -----NOTE----- Required Action A.1 is not applicable if CCW trains are inoperable in both CCW headers supplying the reactor coolant pump (RCP) thermal barrier cooling common loop and Condition B is entered. ----- Align RCP thermal barrier cooling common loop to the CCW header with two OPERABLE CCW trains.	72 hours
	<u>AND</u> A.2 Restore CCW train to OPERABLE status.	120 days
B. Two CCW trains inoperable.	B.1 Restore one CCW train to OPERABLE status.	72 hours

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
C. Required Action and associated Completion Time not met.	C.1 Be in MODE 3.	6 hours
	<u>AND</u> C.2 Be in MODE 5.	36 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.7.7.1 -----NOTE----- Isolation of CCW flow to individual components, other than the RCP thermal barrier cooling common loop, does not render the CCW System inoperable. -----</p> <p>Verify each CCW manual, power operated, and automatic valve in the flow path servicing safety related equipment, that is not locked, sealed, or otherwise secured in position, is in the correct position.</p>	31 days
SR 3.7.7.2 Verify each CCW automatic valve in the flow path that is not locked, sealed, or otherwise secured in position, actuates to the correct position on an actual or simulated actuation signal.	24 months
SR 3.7.7.3 Verify each CCW pump starts automatically on an actual or simulated actuation signal.	24 months

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3.7.8 Essential Service Water (ESW) System

LCO 3.7.8 Four ESW trains shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

-----NOTES-----

1. Enter applicable Conditions and Required Actions of LCO 3.8.1, "AC Sources - Operating," for emergency diesel generators made inoperable by ESW System.
 2. Enter applicable Conditions and Required Actions of LCO 3.4.6, "RCS Loop - MODE 4," for residual heat removal loops made inoperable by ESW System.
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CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One ESW train inoperable.	A.1 Restore ESW train to OPERABLE status.	120 days
B. Two ESW trains inoperable.	B.1 Restore one ESW train to OPERABLE status.	72 hours
C. Required Action and associated Completion Time not met.	C.1 Be in MODE 3.	6 hours
	<u>AND</u> C.2 Be in MODE 5.	36 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.7.8.1 -----NOTE----- Isolation of ESW flow to individual components does not render the ESW System inoperable. -----</p> <p>Verify each ESW manual, power operated, and automatic valve in the flow path servicing safety related equipment, that is not locked, sealed, or otherwise secured in position, is in the correct position.</p>	31 days
<p>SR 3.7.8.2 Verify each ESW automatic valve in the flow path that is not locked, sealed, or otherwise secured in position, actuates to the correct position on an actual or simulated actuation signal.</p>	24 months
<p>SR 3.7.8.3 Verify each ESW pump starts automatically on an actual or simulated actuation signal.</p>	24 months

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3.7.9 Safety Chilled Water (SCW) System

LCO 3.7.9 Four SCW trains shall be OPERABLE and in operation.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

-----NOTE-----

Enter applicable Conditions and Required Actions of LCO 3.4.6, "RCS Loops - MODE 4," for residual heat removal loops made inoperable by SCW System.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One SCW train inoperable or not in operation.	A.1 Restore SCW train to OPERABLE status and in operation.	72 hours
B. Required Action and associated Completion Time not met.	B.1 Be in MODE 3.	6 hours
	<u>AND</u> B.2 Be in MODE 5.	36 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.7.9.1 Verify each SCW train is in operation.	24 hours

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
<p>SR 3.7.9.2</p> <p>-----NOTE----- Isolation of SCW flow to individual components does not render the SCW System inoperable. -----</p> <p>Verify each SCW manual, power operated, and automatic valve in the flow path servicing safety related equipment, that is not locked, sealed, or otherwise secured in position, is in the correct position.</p>	<p>31 days</p>
<p>SR 3.7.9.3</p> <p>Verify each SCW train has the capability to remove the design heat load.</p>	<p>24 months</p>
<p>SR 3.7.9.4</p> <p>Verify, on an actual or simulated loss of offsite power signal, each SCW train restarts following re-energization of the associated AC electrical power division.</p>	<p>24 months</p>

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3.7.10 Control Room Emergency Filtration (CREF)

LCO 3.7.10 Two CREF trains shall be OPERABLE.

-----NOTE-----
The control room envelope (CRE) may be opened intermittently under administrative control.

APPLICABILITY: MODES 1, 2, 3, 4, 5, and 6,
During movement of irradiated fuel assemblies.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One CREF train inoperable for reasons other than Condition B.	A.1 Restore CREF train to OPERABLE status.	7 days
B. One or more CREF trains inoperable due to inoperable CRE boundary in MODE 1, 2, 3, or 4.	B.1 Initiate action to implement mitigating actions.	Immediately
	<u>AND</u> B.2 Verify mitigating actions ensure CRE occupant exposures to radiological, chemical, and smoke hazards will not exceed limits.	24 hours
	<u>AND</u> B.3 Restore CRE boundary to OPERABLE status.	60 days

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>C. Required Action and associated Completion Time of Condition A or B not met in MODE 1, 2, 3, or 4.</p>	<p>C.1 Be in MODE 3. <u>AND</u> C.2 Be in MODE 5.</p>	<p>6 hours 36 hours</p>
<p>D. Required Action and associated Completion Time of Condition A not met in MODE 5 or 6, or during movement of irradiated fuel assemblies.</p>	<p>D.1 -----NOTE----- Place CREF train in toxic gas isolation state if automatic transfer to toxic gas isolation state is inoperable. ----- Place OPERABLE CREF train in emergency mode. <u>OR</u> D.2 Suspend movement of irradiated fuel assemblies.</p>	<p> Immediately Immediately</p>

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>E. Two CREF trains inoperable in MODE 5 or 6, or during movement of irradiated fuel assemblies.</p> <p><u>OR</u></p> <p>One or more CREF trains inoperable due to an inoperable CRE boundary in MODE 5 or 6, or during movement of irradiated fuel assemblies.</p>	<p>E.1 Suspend movement of irradiated fuel assemblies.</p>	<p>Immediately</p>
<p>F. Two CREF trains inoperable in MODE 1, 2, 3, or 4 for reasons other than Condition B.</p>	<p>F.1 Enter LCO 3.0.3.</p>	<p>Immediately</p>

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.7.10.1	Operate each CREF train for ≥ 15 minutes with the heaters operating.	31 days
SR 3.7.10.2	Perform required CREF filter train testing in accordance with the Ventilation Filter Testing Program (VFTP).	In accordance with the VFTP
SR 3.7.10.3	Verify each CREF train actuates on an actual or simulated actuation signal.	24 months
SR 3.7.10.4	Perform required CRE unfiltered air inleakage testing in accordance with the Control Room Envelope Habitability Program.	In accordance with the Control Room Envelope Habitability Program

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3.7.11 Control Room Air Conditioning System (CRACS)

LCO 3.7.11 Four CRACS trains shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3, 4, 5, and 6,
During movement of irradiated fuel assemblies.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One CRACS trains inoperable.	A.1 Restore CRACS train to OPERABLE status.	120 days
B. Two CRACS trains inoperable.	B.1 Restore one inoperable CRACS train to OPERABLE status.	30 days
C. Required Action and associated Completion Time of Condition A or B not met in MODE 1, 2, 3, or 4.	C.1 Be in MODE 3.	6 hours
	<u>AND</u> C.2 Be in MODE 5.	36 hours
D. Required Action and associated Completion Time of Condition A not met in MODE 5 or 6, or during movement of irradiated fuel assemblies.	D.1 Place OPERABLE CRACS train in operation.	Immediately
	<u>OR</u> D.2 Suspend movement of irradiated fuel assemblies.	Immediately

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
E. Three or more CRACS trains inoperable in MODE 5 or 6 or during movement of irradiated fuel assemblies.	E.1 Suspend movement of irradiated fuel assemblies.	Immediately
F. Three or more CRACS trains inoperable in MODE 1, 2, 3, or 4.	F.1 Enter LCO 3.0.3.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.7.11.1 Verify each CRACS train has the capability to remove the design heat load.	24 months

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3.7.12 Safeguard Building Controlled Area Ventilation System (SBVS)

LCO 3.7.12 Two SBVS Accident Exhaust Filtration trains shall be OPERABLE.

-----NOTE-----
The safeguards building and fuel building boundaries may be opened intermittently under administrative control.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One SBVS Accident Exhaust Filtration train inoperable.	A.1 Restore SBVS Accident Exhaust Filtration train to OPERABLE status.	7 days
B. Two SBVS Accident Exhaust trains inoperable due to inoperable safeguards building or fuel building boundary.	B.1 Restore safeguards building and fuel building boundaries to OPERABLE status.	24 hours
C. Required Action and associated Completion Time of Condition A or B not met. <u>OR</u> Two SBVS Accident Exhaust Filtration trains inoperable for reasons other than Condition B.	C.1 Be in MODE 3. <u>AND</u> C.2 Be in MODE 5.	6 hours 36 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.7.12.1	Verify safeguards building and fuel building negative pressure is ≥ 0.25 inches water gauge.	12 hours
SR 3.7.12.2	Verify each safeguards building and fuel building access door is closed, except when the access opening is being used for entry and exit.	31 days
SR 3.7.12.3	Operate each SBVS Accident Exhaust Filtration train for ≥ 15 minutes with the heaters operating.	31 days
SR 3.7.12.4	Perform required SBVS filter testing in accordance with the Ventilation Filter Testing Program (VFTP).	In accordance with the VFTP
SR 3.7.12.5	Verify each SBVS Accident Exhaust Filtration train actuates on an actual or simulated actuation signal.	24 months
SR 3.7.12.6	Verify the safeguards building and fuel building can be drawn down to a negative pressure ≥ 0.25 inches water gauge in ≤ 305 seconds after a start signal using one SBVS Accident Exhaust Filtration train.	24 months on a STAGGERED TEST BASIS for each SBVS Accident Exhaust Filtration train
SR 3.7.12.7	Verify the safeguards building and fuel building can be maintained at a negative pressure ≥ 0.25 inches water gauge using one SBVS Accident Exhaust Filtration train at a flow rate of ≤ 2640 cfm.	24 months on a STAGGERED TEST BASIS for each SBVS Accident Exhaust Filtration train

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3.7.13 Safeguards Building Ventilation System Electrical Division (SBVSED)

LCO 3.7.13 Four SBVSED trains shall be OPERABLE and in operation.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One SBVSED train inoperable or not in operation.	A.1 Restore SBVSED train to OPERABLE status and in operation.	72 hours
B. Required Action and associated Completion Time not met.	B.1 Be in MODE 3.	6 hours
	<u>AND</u> B.2 Be in MODE 5.	36 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.7.13.1	Verify each SBVSED train is in operation.	24 hours
SR 3.7.13.2	Verify each SBVSED train has the capability to remove the design heat load.	24 months
SR 3.7.13.3	Verify, on an actual or simulated loss of offsite power signal, each SBVSED train restarts following re-energization of the associated AC electrical power division.	24 months

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3.7.14 Spent Fuel Storage Pool Water Level

LCO 3.7.14 The spent fuel storage pool water level shall be ≥ 23 ft over the top of irradiated fuel assemblies seated in the storage racks.

APPLICABILITY: During movement of irradiated fuel assemblies in the spent fuel storage pool.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Spent fuel storage pool water level not within limit.	A.1 -----NOTE----- LCO 3.0.3 is not applicable. ----- Suspend movement of irradiated fuel assemblies in the spent fuel storage pool.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.7.14.1 Verify the spent fuel storage pool water level is ≥ 23 ft above the top of the irradiated fuel assemblies seated in the storage racks.	7 days

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3.7.15 Spent Fuel Storage Pool Boron Concentration and Enrichment

-----REVIEWER'S NOTE-----

The design of the spent fuel storage racks is to be provided by the COL applicant. The required boron concentration will be provided as a part of the spent fuel rack design.

LCO 3.7.15 The spent fuel storage pool boron concentration shall be \geq [1334] ppm and boron enrichment shall be \geq 37%.

APPLICABILITY: When fuel assemblies are stored in the spent fuel storage pool and a spent fuel storage pool verification has not been performed since the last movement of fuel assemblies in the spent fuel storage pool.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Spent fuel storage pool boron concentration or enrichment not within limit.	-----NOTE----- LCO 3.0.3 is not applicable. -----	
	A.1 Suspend movement of fuel assemblies in the spent fuel storage pool.	Immediately
	<u>AND</u>	
	A.2.1 Initiate action to restore fuel storage pool boron concentration and enrichment to within limits.	Immediately
	<u>OR</u>	
	A.2.2 Initiate action to perform a spent fuel storage pool verification.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.7.15.1	Verify the spent fuel storage pool boron concentration is within limit.	7 days
SR 3.7.15.2	Verify the isotopic concentration of B-10 in the spent fuel storage pool is within limit.	24 months

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3.7.16 Spent Fuel Storage

LCO 3.7.16 Fuel shall be stored in approved locations in the spent fuel storage pool.

-----REVIEWER'S NOTE-----

The design of the spent fuel storage racks is to be provided by the COL applicant. The required spent fuel storage configuration will be provided as a part of the spent fuel rack design.

APPLICABILITY: Whenever any fuel assembly is stored in the spent fuel storage racks.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Requirements of the LCO not met.	<p>A.1 -----NOTE----- LCO 3.0.3 is not applicable. -----</p> <p>Initiate action to restore fuel storage to within requirements.</p>	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.7.16.1 Verify by administrative means that fuel assemblies are stored in approved locations.	Prior to storing the fuel assembly in the spent fuel storage pool

3.7 PLANT SYSTEMS

3.7.17 Secondary Specific Activity

LCO 3.7.17 The specific activity of the secondary coolant shall be $\leq 0.10 \mu\text{Ci/gm}$ DOSE EQUIVALENT I-131.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Specific activity not within limit.	A.1 Be in MODE 3.	6 hours
	<u>AND</u>	
	A.2 Be in MODE 5.	36 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.7.17.1 Verify the specific activity of the secondary coolant is $\leq 0.10 \mu\text{Ci/gm}$ DOSE EQUIVALENT I-131.	31 days

3.7 PLANT SYSTEMS

3.7.18 Main Steam Line Leakage

LCO 3.7.18 Main Steam Line leakage through the pipe walls inside containment shall be limited to 1.0 gpm.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Main Steam Line leakage exceeds operational limit.	A.1 Be in MODE 3.	6 hours
	<u>AND</u> A.2 Be in MODE 5.	36 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.7.18.1 Verify main steam line leakage into the containment sump \leq 1.0 gpm.	Per SR 3.4.12.1

3.7 PLANT SYSTEMS

3.7.19 Ultimate Heat Sink (UHS)

LCO 3.7.19 Four UHS trains shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One UHS cooling tower inoperable.	A.1 Restore UHS cooling tower to OPERABLE status.	120 days
B. Two UHS cooling towers inoperable.	B.1 Restore one UHS cooling tower to OPERABLE status.	72 hours
C. Required Action and associated Completion Time not met.	C.1 Be in MODE 3.	6 hours
	<u>AND</u> C.2 Be in MODE 5.	36 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.7.19.1	Verify water level of each UHS cooling tower basin is ≥ 23.75 feet.	24 hours
SR 3.7.19.2	Verify water temperature of each UHS cooling tower basin is $\leq 90^{\circ}\text{F}$.	24 hours
SR 3.7.19.3	Operate each UHS cooling tower fan for ≥ 15 minutes in all speed settings.	31 days
SR 3.7.19.4	Verify each UHS cooling tower fan starts automatically on an actual or simulated actuation signal.	24 months
SR 3.7.19.5	Verify the ability to supply makeup water to each UHS basin at ≥ 300 gpm.	24 months