

## 1.4 Frequency

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### EXAMPLES

#### EXAMPLE 1.4-1 (continued)

If the interval as specified by SR 3.0.2 is exceeded while the unit is not in a MODE or other specified condition in the Applicability of the LCO for which performance of the SR is required, then SR 3.0.4 becomes applicable. The Surveillance must be performed within the Frequency requirements of SR 3.0.2, as modified by SR 3.0.3, prior to entry into the MODE or other specified condition or the LCO is considered not met (in accordance with SR 3.0.1) and LCO 3.0.4 becomes applicable.

#### EXAMPLE 1.4-2

#### SURVEILLANCE REQUIREMENTS

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SURVEILLANCE	FREQUENCY
Verify flow is within limits.	Once within 12 hours after $\geq 23.8\%$ RTP  <u>AND</u>  24 hours thereafter

Example 1.4-2 has two Frequencies. The first is a one time performance Frequency, and the second is of the type shown in Example 1.4-1. The logical connector "AND" indicates that both Frequency requirements must be met. Each time reactor power is increased from a power level  $< 23.8\%$  RTP to  $\geq 23.8\%$  RTP, the Surveillance must be performed within 12 hours.

The use of "once" indicates a single performance will satisfy the specified Frequency (assuming no other Frequencies are connected by "AND"). This type of Frequency does not qualify for the extension allowed by SR 3.0.2.

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### 3.0 LIMITING CONDITION FOR OPERATION (LCO) APPLICABILITY

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LCO 3.0.1      LCOs shall be met during the MODES or other specified conditions in the Applicability, except as provided in LCO 3.0.2 and LCO 3.0.7.

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LCO 3.0.2      Upon discovery of a failure to meet an LCO, the Required Actions of the associated Conditions shall be met, except as provided in LCO 3.0.5 and LCO 3.0.6.

If the LCO is met or is no longer applicable prior to expiration of the specified Completion Time(s), completion of the Required Action(s) is not required, unless otherwise stated.

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LCO 3.0.3      When an LCO is not met and the associated ACTIONS are not met, an associated ACTION is not provided, or if directed by the associated ACTIONS, the unit shall be placed in a MODE or other specified condition in which the LCO is not applicable. Action shall be initiated within 1 hour to place the unit, as applicable, in:

- a.      MODE 2 within 7 hours;
- b.      MODE 3 within 13 hours; and
- c.      MODE 4 within 37 hours.

Exceptions to this Specification are stated in the individual Specifications.

Where corrective measures are completed that permit operation in accordance with the LCO or ACTIONS, completion of the actions required by LCO 3.0.3 is not required.

LCO 3.0.3 is only applicable in MODES 1, 2, and 3.

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LCO 3.0.4      When an LCO 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;

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### 3.0 LCO APPLICABILITY

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- LCO 3.0.4 (continued)
- 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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- LCO 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 LCO 3.0.2 for the system returned to service under administrative control to perform the testing required to demonstrate OPERABILITY.
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- LCO 3.0.6
- When a supported system LCO is not met solely due to a support system LCO not being met, the Conditions and Required Actions associated with this supported system are not required to be entered. Only the support system LCO ACTIONS are required to be entered. This is an exception to LCO 3.0.2 for the supported system. In this event, additional evaluations and limitations may be required in accordance with Specification 5.5.10, "Safety Function Determination Program (SFDP)." If a loss of safety function is determined to exist by this program, the appropriate Conditions and Required Actions of the LCO in which the loss of safety function exists are required to be entered.

When a support system's Required Action directs a supported system to be declared inoperable or directs entry into Conditions and Required Actions for a supported system, the applicable Conditions and Required Actions shall be entered in accordance with LCO 3.0.2.

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3.0 SR APPLICABILITY (continued)

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SR 3.0.4      Entry into a MODE or other specified condition in the Applicability of an LCO shall only be made when the LCO's Surveillances have been met within their specified Frequency, except as provided by SR 3.0.3. When an LCO 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 LCO 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.

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### 3.3 INSTRUMENTATION

#### 3.3.3.1 Post Accident Monitoring (PAM) Instrumentation

LCO 3.3.3.1      The PAM instrumentation for each Function in Table 3.3.3.1-1 shall be OPERABLE.

APPLICABILITY: MODES 1 and 2.

#### ACTIONS

-----NOTE-----

Separate Condition entry is allowed for each Function.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more Functions with one required channel inoperable.	A.1 Restore required channel to OPERABLE status.	30 days
B. Required Action and associated Completion Time of Condition A not met.	B.1 Initiate action to prepare and submit a Special Report.	Immediately
C. One or more Functions with two required channels inoperable.	C.1 Restore one required channel to OPERABLE status.	7 days

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### 3.3 INSTRUMENTATION

#### 3.3.3.2 Remote Shutdown System

LCO 3.3.3.2      The Remote Shutdown System Functions shall be OPERABLE.

APPLICABILITY:    MODES 1 and 2.

#### ACTIONS

-----NOTE-----

Separate Condition entry is allowed for each Function.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more required Functions inoperable.	A.1      Restore required Function to OPERABLE status.	30 days
B. Required Action and associated Completion Time not met.	B.1      Be in MODE 3.	12 hours

#### SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.3.3.2.1      Perform CHANNEL CHECK for each required instrumentation channel that is normally energized.	31 days

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### 3.4 REACTOR COOLANT SYSTEM (RCS)

#### 3.4.7 RCS Leakage Detection Instrumentation

LCO 3.4.7 The following RCS leakage detection instrumentation shall be OPERABLE:

- a. Drywell and pedestal floor drain sump monitoring systems;
- b. One channel of either drywell atmospheric particulate or atmospheric gaseous monitoring system; and
- c. Drywell air cooler condensate flow rate monitoring system.

APPLICABILITY: MODES 1, 2, and 3.

#### ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Drywell or pedestal floor drain sump monitoring system inoperable.	A.1 Restore drywell and pedestal floor drain sump monitoring systems to OPERABLE status.	30 days
B. Required drywell atmospheric monitoring system inoperable.	B.1 Analyze grab samples of drywell atmosphere.	Once per 24 hours

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ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
C. Drywell air cooler condensate flow rate monitoring system inoperable.	<p>-----NOTE-----</p> <p>Not applicable when the required drywell atmospheric monitoring system is inoperable.</p> <p>-----</p> <p>C.1 Perform SR 3.4.7.1.</p>	Once per 8 hours
D. Required drywell atmospheric monitoring system inoperable.  <u>AND</u>  Drywell air cooler condensate flow rate monitoring system inoperable.	<p>D.1 Restore required drywell atmospheric monitoring system to OPERABLE status.</p> <p><u>OR</u></p> <p>D.2 Restore drywell air cooler condensate flow rate monitoring system to OPERABLE status.</p>	<p>30 days</p> <p>30 days</p>
E. Required Action and associated Completion Time of Condition A, B, C, or D not met.	<p>E.1 Be in MODE 3.</p> <p><u>AND</u></p> <p>E.2 Be in MODE 4.</p>	<p>12 hours</p> <p>36 hours</p>
F. All required leakage detection systems inoperable.	F.1 Enter LCO 3.0.3.	Immediately

### 3.4 REACTOR COOLANT SYSTEM (RCS)

#### 3.4.8 RCS Specific Activity

LCO 3.4.8      The DOSE EQUIVALENT I-131 specific activity of the reactor coolant shall be  $\leq 0.2 \mu\text{Ci}/\text{gm}$ .

APPLICABILITY:    MODE 1,  
                         MODES 2 and 3 with any main steam line not isolated.

#### ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Reactor coolant specific activity $> 0.2 \mu\text{Ci}/\text{gm}$ and $\leq 4.0 \mu\text{Ci}/\text{gm}$ DOSE EQUIVALENT I -131.	<p>-----NOTE----- LCO 3.0.4.c is applicable. -----</p> <p>A.1      Determine DOSE EQUIVALENT I - 131. <u>AND</u> A.2      Restore DOSE EQUIVALENT I -131 to within limits.</p>	<p>Once per 4 hours</p> <p>48 hours</p>
B. Required Action and associated Completion Time of Condition A not met.  <u>OR</u> Reactor coolant specific activity $> 4.0 \mu\text{Ci}/\text{gm}$ DOSE EQUIVALENT I - 131.	<p>B.1      Determine DOSE EQUIVALENT I - 131. <u>AND</u> B.2.1     Isolate all main steam lines.  <u>OR</u> B.2.2.1   Be in MODE 3.  <u>AND</u> B.2.2.2   Be in MODE 4.</p>	<p>Once per 4 hours</p> <p>12 hours</p> <p>12 hours</p> <p>36 hours</p>

### 3.4 REACTOR COOLANT SYSTEM (RCS)

#### 3.4.9 Residual Heat Removal (RHR) Shutdown Cooling System–Hot Shutdown

LCO 3.4.9 Two RHR shutdown cooling subsystems shall be OPERABLE, and, with no recirculation pump in operation, at least one RHR shutdown cooling subsystem shall be in operation.

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1. Both RHR shutdown cooling subsystems and recirculation pumps may be removed from operation for up to 2 hours per 8 hour period.
  2. One RHR shutdown cooling subsystem may be inoperable for up to 2 hours for performance of Surveillances.
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APPLICABILITY: MODE 3 with reactor steam dome pressure less than the RHR cut in permissive pressure.

#### ACTIONS

-----NOTE-----

Separate Condition entry is allowed for each RHR shutdown cooling subsystem.

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CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or two RHR shutdown cooling subsystems inoperable.	A.1 Initiate action to restore RHR shutdown cooling subsystem(s) to OPERABLE status.  AND	Immediately  (continued)

### 3.5 EMERGENCY CORE COOLING SYSTEMS (ECCS) AND REACTOR CORE ISOLATION COOLING (RCIC) SYSTEM

#### 3.5.1 ECCS -Operating

LCO 3.5.1      Each ECCS injection/spray subsystem and the Automatic Depressurization System (ADS) function of seven safety/relief valves shall be OPERABLE.

APPLICABILITY:    MODE 1,  
                         MODES 2 and 3, except ADS valves are not required to be OPERABLE  
                         with reactor steam dome pressure  $\leq$  100 psig.

#### ACTIONS

-----**NOTE**-----

LCO 3.0.4.b is not applicable to HPCS.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One low pressure ECCS injection/spray subsystem inoperable.	A.1      Restore low pressure ECCS injection/spray subsystem to OPERABLE status.	7 days
B. High Pressure Core Spray (HPCS) System inoperable.	B.1      Verify by administrative means RCIC System is OPERABLE when RCIC is required to be OPERABLE.  <u>AND</u>  B.2      Restore HPCS System to OPERABLE status.	1 hour  14 days

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### 3.5 EMERGENCY CORE COOLING SYSTEMS (ECCS) AND REACTOR CORE ISOLATION COOLING (RCIC) SYSTEM

#### 3.5.3 RCIC System

LCO 3.5.3        The RCIC System shall be OPERABLE.

APPLICABILITY:    MODE 1,  
                         MODES 2 and 3 with reactor steam dome pressure > 150 psig.

#### ACTIONS

-----NOTE-----

LCO 3.0.4.b is not applicable to RCIC.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. RCIC System inoperable.	A.1 Verify by administrative means High Pressure Core Spray System is OPERABLE.  <u>AND</u>  A.2 Restore RCIC System to OPERABLE status.	1 hour   14 days
B. Required Action and associated Completion Time not met.	B.1 Be in MODE 3.  <u>AND</u>  B.2 Reduce reactor steam dome pressure to ≤ 150 psig.	12 hours   36 hours

## 3.6 CONTAINMENT SYSTEMS

## 3.6.3.2 Primary Containment and Drywell Hydrogen Igniters

LCO 3.6.3.2 Two divisions of primary containment and drywell hydrogen igniters shall be OPERABLE, each with > 90% of the associated igniter assemblies OPERABLE.

APPLICABILITY: MODES 1 and 2.

## ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One primary containment and drywell hydrogen igniter division inoperable.	A.1 Restore primary containment and drywell hydrogen igniter division to OPERABLE status.	30 days
B. Two primary containment and drywell hydrogen igniter divisions inoperable.	B.1 Verify by administrative means that the hydrogen control function is maintained.  <u>AND</u> B.2 Restore one primary containment and drywell hydrogen igniter division to OPERABLE status.	1 hour  7 days

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## 3.6 CONTAINMENT SYSTEMS

### 3.6.3.3 Primary Containment/Drywell Hydrogen Mixing System

LCO 3.6.3.3 Two primary containment/drywell hydrogen mixing subsystems shall be OPERABLE.

APPLICABILITY: MODES 1 and 2.

#### ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One primary containment/drywell hydrogen mixing subsystem inoperable.	A.1 Restore primary containment/drywell hydrogen mixing subsystem to OPERABLE status.	30 days
B. Two primary containment/drywell hydrogen mixing subsystems inoperable.	B.1 Verify by administrative means that the hydrogen control function is maintained. <u>AND</u> B.2 Restore one primary containment/drywell hydrogen mixing subsystem to OPERABLE status.	1 hour 7 days

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## 3.8 ELECTRICAL POWER SYSTEMS

### 3.8.1 AC Sources—Operating

LCO 3.8.1 The following AC electrical power sources shall be OPERABLE:

- a. Two qualified circuits between the offsite transmission network and the onsite Class 1E AC Electric Power Distribution System; and
- b. Three diesel generators (DGs).

APPLICABILITY: MODES 1, 2, and 3.

-----NOTE-----

Division III AC electrical power sources are not required to be OPERABLE when High Pressure Core Spray System and Standby Service Water System pump 2C are inoperable.

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### ACTIONS

-----NOTE-----

LCO 3.0.4.b is not applicable to DGs.

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CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One required offsite circuit inoperable.	A.1 Perform SR 3.8.1.1 for OPERABLE required offsite circuit.  <u>AND</u>	1 hour  <u>AND</u>  Once per 8 hours thereafter

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