

- (3) FENOC, pursuant to the Act and 10 CFR Parts 30, 40 and 70; to receive, possess and use at any time any byproduct, source and special nuclear material as sealed neutron sources for reactor startup, sealed sources for reactor instrumentation and radiation monitoring equipment calibration, and as fission detectors in amounts as required;
- (4) FENOC, pursuant to the Act and 10 CFR Parts 30, 40 and 70, to receive, possess and use in amounts as required any byproduct, source, or special nuclear material without restriction to chemical or physical form, for sample analysis or instrument calibration or associated with radioactive apparatus or components;
- (5) FENOC, pursuant to the Act and 10 CFR Parts 30, and 70, to possess, but not separate, such byproduct and special nuclear materials as may be produced by the operation of the facility.

C. This amended license shall be deemed to contain and is subject to the conditions specified in the following Commission regulations in 10 CFR Chapter 1: Part 20, Section 30.34 of Part 30, Section 40.41 of Part 40, Sections 50.54 and 50.59 of Part 50, and Section 70.32 of Part 70; and is subject to all applicable provisions of the Act and to the rules, regulations, and orders of the Commission now or hereafter in effect; and is subject to the additional conditions specified or incorporated below:

(1) Maximum Power Level

FENOC is authorized to operate the facility at a steady state reactor core power level of 2900 megawatts thermal.

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 280, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

(3) Auxiliary River Water System

(Deleted by Amendment No. 8)

Table 3.3.2-1 (page 1 of 6)
Engineered Safety Feature Actuation System Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	UNIT 1 ALLOWABLE VALUE	UNIT 2 ALLOWABLE VALUE
1. Safety Injection						
a. Manual Initiation	1,2,3,4	2	B	SR 3.3.2.7	NA	NA
b. Automatic Actuation Logic and Actuation Relays	1,2,3,4	2 trains	C	SR 3.3.2.2 SR 3.3.2.3 SR 3.3.2.6	NA	NA
c. Containment Pressure - High	1,2,3	3	D	SR 3.3.2.1 SR 3.3.2.4 ^{(e)/(f)} SR 3.3.2.8 ^{(e)/(f)} SR 3.3.2.9	≤ 5.33 psig	≤ 5.3 psig
d. Pressurizer Pressure - Low	1,2,3 ^(a)	3	D	SR 3.3.2.1 SR 3.3.2.4 SR 3.3.2.8 SR 3.3.2.9	≥ 1841 psig	≥ 1852 psig
e. Steam Line Pressure - Low	1,2,3 ^(a)	3 per steam line	D	SR 3.3.2.1 SR 3.3.2.4 SR 3.3.2.8 SR 3.3.2.9	≥ 495.8 psig with time constant τ_1 ≥ 50 secs and $\tau_2 \leq 5$ secs	≥ 494 psig with time constant τ_1 ≥ 50 secs and τ_2 ≤ 5 secs

(a) Above the P-11 (Pressurizer Pressure) interlock.

(e) If the as-found channel setpoint is conservative with respect to the Allowable Value but outside its predefined as-found acceptance criteria band, then the channel shall be evaluated to verify that it is functioning as required before returning the channel to service. If the as-found instrument channel setpoint is not conservative with respect to the Allowable Value, the channel shall be declared inoperable.

(f) The instrument channel setpoint shall be reset to a value that is within the as-left tolerance of the Nominal Trip Setpoint, or a value that is more conservative than the Nominal Trip Setpoint; otherwise, the channel shall be declared inoperable. The Nominal Trip Setpoint and the methodology used to determine the Nominal Trip Setpoint, the predefined as-found acceptance criteria band, and the as-left setpoint tolerance band are specified in a document incorporated by reference into the Updated Final Safety Analysis Report.

Table 3.3.2-1 (page 2a of 6)
Engineered Safety Feature Actuation System Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	UNIT 1 ALLOWABLE VALUE
2. Containment Spray Systems (Unit 1 only)					
a. Quench Spray					
(1) Manual Initiation	1,2,3,4	2 per train, 2 trains	B	SR 3.3.2.7	NA
(2) Automatic Actuation Logic and Actuation Relays	1,2,3,4	2 trains	C	SR 3.3.2.2 SR 3.3.2.3 SR 3.3.2.6	NA
(3) Contain- ment Pressure - High High	1,2,3	4	E	SR 3.3.2.1 SR 3.3.2.4 ^{(e)(f)} SR 3.3.2.8 ^{(e)(f)} SR 3.3.2.9	≤ 11.43 psig
b. Recirculation Spray					
(1) Automatic Actuation Logics	1,2,3	2 trains	F	SR 3.3.2.2 SR 3.3.2.3	NA
(2) Refueling Water Storage Tank (RWST) Level Low Coincident with	1,2,3	3	D	SR 3.3.2.1 SR 3.3.2.4 ^{(e)(f)} SR 3.3.2.8 ^{(e)(f)}	≥ 27' 4" and ≤ 27' 11"
Contain- ment Pressure High High	1,2,3	4	E	SR 3.3.2.1 SR 3.3.2.4 ^{(e)(f)} SR 3.3.2.8 ^{(e)(f)} SR 3.3.2.9	≤ 11.43 psig

(e) If the as-found channel setpoint is conservative with respect to the Allowable Value but outside its predefined as-found acceptance criteria band, then the channel shall be evaluated to verify that it is functioning as required before returning the channel to service. If the as-found instrument channel setpoint is not conservative with respect to the Allowable Value, the channel shall be declared inoperable.

(f) The instrument channel setpoint shall be reset to a value that is within the as-left tolerance of the Nominal Trip Setpoint, or a value that is more conservative than the Nominal Trip Setpoint; otherwise, the channel shall be declared inoperable. The Nominal Trip Setpoint and the methodology used to determine the Nominal Trip Setpoint, the predefined as-found acceptance criteria band, and the as-left setpoint tolerance band are specified in a document incorporated by reference into the Updated Final Safety Analysis Report.

Table 3.3.2-1 (page 2b of 6)
Engineered Safety Feature Actuation System Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	UNIT 2 ALLOWABLE VALUE
2. Containment Spray (Unit 2 only)					
a. Manual Initiation	1,2,3,4	2 per train, 2 trains	B	SR 3.3.2.7	NA
b. Automatic Actuation Logic and Actuation Relays	1,2,3,4	2 trains	C	SR 3.3.2.2 SR 3.3.2.3 SR 3.3.2.6	NA
c. Containment Pressure - High High	1,2,3	4	E	SR 3.3.2.1 SR 3.3.2.4 ^{(e)(f)} SR 3.3.2.8 ^{(e)(f)} SR 3.3.2.9	≤ 11.4 psig

- (e) If the as-found channel setpoint is conservative with respect to the Allowable Value but outside its predefined as-found acceptance criteria band, then the channel shall be evaluated to verify that it is functioning as required before returning the channel to service. If the as-found instrument channel setpoint is not conservative with respect to the Allowable Value, the channel shall be declared inoperable.
- (f) The instrument channel setpoint shall be reset to a value that is within the as-left tolerance of the Nominal Trip Setpoint, or a value that is more conservative than the Nominal Trip Setpoint; otherwise, the channel shall be declared inoperable. The Nominal Trip Setpoint and the methodology used to determine the Nominal Trip Setpoint, the predefined as-found acceptance criteria band, and the as-left setpoint tolerance band are specified in a document incorporated by reference into the Updated Final Safety Analysis Report.

Table 3.3.2-1 (page 2c of 6)
Engineered Safety Feature Actuation System Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	UNIT 1 ALLOWABLE VALUE	UNIT 2 ALLOWABLE VALUE
3. Containment Isolation						
a. Phase A Isolation						
(1) Manual Initiation	1,2,3,4	2	B	SR 3.3.2.7	NA	NA
(2) Automatic Actuation Logic and Actuation Relays	1,2,3,4	2 trains	C	SR 3.3.2.2 SR 3.3.2.3 SR 3.3.2.6	NA	NA
(3) Safety Injection	Refer to Function 1 (Safety Injection) for all initiation functions and requirements.					
b. Phase B Isolation						
(1) Manual Initiation	1,2,3,4	2 per train, 2 trains	B	SR 3.3.2.7	NA	NA
(2) Automatic Actuation Logic and Actuation Relays	1,2,3,4	2 trains	C	SR 3.3.2.2 SR 3.3.2.3 SR 3.3.2.6	NA	NA
(3) Containment Pressure - High High	1,2,3	4	E	SR 3.3.2.1 SR 3.3.2.4 ^{(e)(f)} SR 3.3.2.8 ^{(e)(f)} SR 3.3.2.9	≤ 11.43 psig	≤ 11.4 psig

(e) If the as-found channel setpoint is conservative with respect to the Allowable Value but outside its predefined as-found acceptance criteria band, then the channel shall be evaluated to verify that it is functioning as required before returning the channel to service. If the as-found instrument channel setpoint is not conservative with respect to the Allowable Value, the channel shall be declared inoperable.

(f) The instrument channel setpoint shall be reset to a value that is within the as-left tolerance of the Nominal Trip Setpoint, or a value that is more conservative than the Nominal Trip Setpoint; otherwise, the channel shall be declared inoperable. The Nominal Trip Setpoint and the methodology used to determine the Nominal Trip Setpoint, the predefined as-found acceptance criteria band, and the as-left setpoint tolerance band are specified in a document incorporated by reference into the Updated Final Safety Analysis Report.

Table 3.3.2-1 (page 5 of 6)
Engineered Safety Feature Actuation System Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	UNIT 1 ALLOWABLE VALUE	UNIT 2 ALLOWABLE VALUE
6. Auxiliary Feedwater						
d. Undervoltage Reactor Coolant Pump	1,2	1 per bus	H	SR 3.3.2.5 SR 3.3.2.8 SR 3.3.2.9	≥ 2962 V	≥ 2962 V
e. Trip of all Main Feedwater Pumps	1,2	1 per pump	I	SR 3.3.2.7 SR 3.3.2.9	NA	NA
7. Automatic Switchover to Containment Sump						
a. Automatic Actuation Logic	1,2,3,4	2 trains	B	SR 3.3.2.2 SR 3.3.2.3	NA	NA
b. Refueling Water Storage Tank (RWST) Level Extreme Low	1,2,3,4	4	J	SR 3.3.2.1 SR 3.3.2.4 ^{(e)(f)} SR 3.3.2.8 ^{(e)(f)}	≥ 13' 9" and ≤ 14' 4"	≥ 31' 8" and ≤ 31' 10"
Coincident with Safety Injection	Refer to Function 1 (Safety Injection) for all initiation functions and requirements.					

- (e) If the as-found channel setpoint is conservative with respect to the Allowable Value but outside its predefined as-found acceptance criteria band, then the channel shall be evaluated to verify that it is functioning as required before returning the channel to service. If the as-found instrument channel setpoint is not conservative with respect to the Allowable Value, the channel shall be declared inoperable.
- (f) The instrument channel setpoint shall be reset to a value that is within the as-left tolerance of the Nominal Trip Setpoint, or a value that is more conservative than the Nominal Trip Setpoint; otherwise, the channel shall be declared inoperable. The Nominal Trip Setpoint and the methodology used to determine the Nominal Trip Setpoint, the predefined as-found acceptance criteria band, and the as-left setpoint tolerance band are specified in a document incorporated by reference into the Updated Final Safety Analysis Report.

SURVEILLANCE REQUIREMENTS (continued)

SR 3.5.2.5	Verify each ECCS 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.	18 months
SR 3.5.2.6	Verify each ECCS pump starts automatically on an actual or simulated actuation signal.	18 months
SR 3.5.2.7	<p>-----</p> <p align="center">- NOTE -</p> <p>Only applicable to Unit 1.</p> <p>-----</p>	18 months
	<p>Verify, by visual inspection, that accessible regions of the ECCS containment sump suction inlet are not restricted by debris and that the accessible regions of the strainers show no evidence of structural distress or abnormal corrosion.</p> <p>-----</p>	18 months
	<p align="center">- NOTE -</p> <p>Only applicable to Unit 2.</p> <p>-----</p> <p>Verify, by visual inspection, each ECCS train containment sump suction inlet is not restricted by debris and the suction inlet trash racks and screens show no evidence of structural distress or abnormal corrosion.</p> <p>-----</p>	18 months

3.6 CONTAINMENT SYSTEMS

3.6.5 Containment Air Temperature

LCO 3.6.5 Containment average air temperature shall be
 $\geq 70^{\circ}\text{F}$ and $\leq 108^{\circ}\text{F}$ (Unit 1)
 $\geq 70^{\circ}\text{F}$ and $\leq 105^{\circ}\text{F}$ (Unit 2).

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

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Containment average air temperature not within limits.	A.1 Restore containment average air temperature to within limits.	8 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 3.6.5.1 Verify containment average air temperature is within limits.	24 hours

5.5 Programs and Manuals

5.5.12 Containment Leakage Rate Testing Program (continued)

the Operating License. This program shall be in accordance with the guidelines contained in Regulatory Guide 1.163, "Performance-Based Containment Leak-Test Program," dated September, 1995, as modified by the following exceptions:

1. For Unit 1, the next Type A test performed after the May 29, 1993 Type A test shall be performed no later than May 28, 2008.
 2. For Unit 2, the next Type A test performed after the November 10, 1993 Type A test shall be performed no later than November 9, 2008.
- b. The calculated peak containment internal pressure for the design basis loss of coolant accident, P_a , is 43.1 psig (for Unit 1) and 44.9 psig (for Unit 2).
 - c. The maximum allowable containment leakage rate, L_a , at P_a , shall be 0.10% of containment air weight per day.
 - d. Leakage rate acceptance criteria are:
 1. Containment leakage rate acceptance criterion is $\leq 1.0 L_a$. However, during the first unit startup prior to MODE 4 entry following testing in accordance with this program, the leakage rate acceptance criteria are $< 0.60 L_a$ for the Type B and C tests and $\leq 0.75 L_a$ for Type A tests.
 2. Air lock testing acceptance criteria are:
 - a) Overall air lock leakage rate is $\leq 0.05 L_a$ when tested at $\geq P_a$.
 - b) For each emergency air lock door, no detectable seal leakage when gap between door seals is pressurized to ≥ 10 psig or door seal leakage quantified to ensure emergency air lock door seal leakage rate is $\leq 0.0005 L_a$ when tested at ≥ 10 psig.
 - c) For each personnel air lock door, no detectable seal leakage when gap between door seals is pressurized to $\geq P_a$ or door seal leakage quantified to ensure personnel air lock door seal leakage rate is $\leq 0.0005 L_a$ when tested at $\geq P_a$.
 - e. The provisions of SR 3.0.3 are applicable to the Containment Leakage Rate Testing Program.
 - f. Nothing in these Technical Specifications shall be construed to modify the testing Frequencies required by 10 CFR 50, Appendix J.