ATTACHMENT TO LICENSE AMENDMENT NO. 17

FACILITY OPERATING LICENSE NO. DPR-70

#### DOCKET NO. 50-272

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change. The corresponding overleaf pages are also provided to maintain document completeness.

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Pages

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### TABLE 3.3-3

# ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

FUNC	TICNA	L UNIT	TOTAL NO, OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
1.	SAFE TRIP	TY INJECTION, TURBINE AND FEEDWATER ISOLATION					
		Manual Initiation	2	1	2	1, 2, 3, 4	18
	b.	Automatic Actuation	2	1	2	1, 2, 3, 4	13
	с.	Logic Containment	3	2	2	1,2,3	14*
	~ .	Pressure-High			2	1 2 3#	14*
	d.	Pressurizer Pressure - Low	3	2	2	1, 2, 3π	
	e.	Differential Pressure Between Steam Lines - High				1, 2, 3##	
		Four Loops Operating	3/steam line	2/steam line any steam line	2/steam line		14
		Three Loops Operating	3/operating steam line	1 <sup>###</sup> /steam line, any operating steam line	2/operating steam line		15

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# TABLE 3.3-3 (Continued)

# ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

UNCTIONAL	LUNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
f.	Steam Flow in Two Steam Lines-High				1, 2, 3 <sup>##</sup>	
	Four Loops Operating	2/ team line	1/steam line any 2 steam lines	l/steam line		14
	Three Loops Operating	2/operating steam line	l <sup>###</sup> /any operating steam line	l/operating steam line		15
	COINCIDENT WITH EITHER TaxaLow-Low				1, 2, 3##	
	Four Loops Operating	1 T <sub>avg</sub> /loop	2 T <sub>avg</sub> any loops	1 T <sub>avg</sub> any 3 loops		14*
	Three Loops Operating	1 T <sub>avg</sub> / operating 100p	1 <sup>###</sup> T <sub>avg</sub> in any operating loop	l T <sub>avg</sub> in any two operating loops		15

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## TABLE 3.3-3 (Continued)

#### TABLE NOTATION

"Trip function may be bypassed in this MODE below P-11.

##Trip function may be bypassed in this MODE below P-12.

### The channel(s) associated with the protective functions derived from the out of service Reactor Coolant Loop shall be placed in the tripped mode.

\*The provisions of Specification 3.0.4 are not applicable.

#### ACTION STATEMENTS

- ACTION 13 With the number of OPERABLE Channels one less than the Total Number of Channels, be in HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours; however, one channel may be bypassed for up to 1 hour for surveillance testing per Specification 4.3.2.1.1.
- ACTION 14 With the number of OPERABLE Channels one less than the Total Number of Channels, operation may proceed until performance of the next required CHANNEL FUNCTIONAL TEST, provided the inoperable channel is placed in the tripped condition within 1 hour.
- ACTION 15 With a channel associated with an operating loop inoperable, restore the inoperable channel to OPERABLE status within 2 hours or be in HOT SHUTDOWN within the following 12 hours; however, one channel associated with an operating loop may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.2.1.1.
- ACTION 16 With the number of OPERABLE Channels one less than the Total Number of Channels, operation may proceed provided the inoperable channel is placed in the bypassed condition and the Minimum Channels OPERABLE requirement is demonstrated within 1 hour; one additional channel may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.2.1.1.

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#### TABLE 3.3-3 (Continued)

- ACTION 17 With less than the Minimum Channels OPERABLE, operation may continue provided the containment purge and exhaust valves are maintained closed.
- ACTION 18 With the number of OPERABLE Channels one less than the Total Number of Channels, restore the inoperable channel to OPERABLE status within 48 hours or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

### ENGINEERED SAFETY FEATURES INTERLOCKS

DESIGNATION	CONDITION AND SETPOINT	FUNCTION
P-11	With 2 of 3 pressurizer pressure channels ≥ 1925 psig.	P-11 prevents or defeats manual block of safety injection actuation on low pressurizer pressure.
P-12	With 3 of 4 T <sub>avg</sub> channels ≥ 545°F.	-12 prevents or defeats manual block of safety injection actuation high steam line flow and low steam line pressure.
	With 2 of 4 T <sub>avg</sub> channels < 541°F.	Allows manual block of safety injection actua- tion on high steam line flow and low steam line pressure. Causes steam line isolation on high steam flow. Affects

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		TABL	£ 3.3-4	
SALEN		ENGINEERED SAFETY FEATURE ACTUATION	SYSTEM INSTRUMENTATION TRIP SE	TPOINTS
I UN	FUNCTIONA	AL UNIT	TRIP SETPOINT	ALLOWABLE VALUES
TT 1	1. SAFE	TY INJECTION, TURBINE TRIP AND FEEDWATER ISOLATION		
	a.	Manual Initiation	Not Applicable	Not Applicable
	b.	Automatic Actuation Logic	Not Applicable	Not Applicable
	с.	Containment PressureHigh	< 4.7 psig	< 5.2 psig
	d.	Pressurizer PressureLow	≥ 1765 psig	≥ 1755 psig
3/4 3-23 Amendment No. 17	e.	Differential Pressure Between Steam LinesHigh	< 100 psi	<_112 psi
	f.	Steam Flow in Two Steam Lines High Coincident with TLow-Low or Steam Line PressureLow	A function defined as follows: A Ap corresponding to 40% of full steam flow between 0% and 20% load and then a Ap increasing linearly to a Ap correspond- ing to 110% of full steam flow at full load	< A function defred as follows: A Ap corresponding to 44% of full seam flow between 0% and 20 load and then a Ap increasing linear to a Ap corresponding to 111.5% of full seam flow at full load
			T <sub>avg</sub> ≥ 543°F ≥ 500 psig steam line pressure	T <sub>avg</sub> ≥ 541°F ≥ 480 psig stear tre pressure

# TABLE 3.3-4 (Continued)

# ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION TRIP SETPOINTS

FUN	CTIONAL UNIT	TRIP SETPOINT	ALLOWABLE VALUES
2.	CONTAINMENT SPRAY		
	a. Manual Initiation	Not Applicable	Not Applicable
	b. Automatic Actuation Logic	Not Applicable	Not Applicable
	c. Containment PressureHigh-High	<u>&lt;</u> 23.5 psig	<pre>&lt; 24 psig</pre>
3.	CONTAINMENT ISOLATION		
	a. Phase "A" Isolation		
	1. Manual	Not Applicable	Not Applicable
	<ol> <li>From Safety Injection Automatic Actuation Logic</li> </ol>	Not Applicable	Not Applicable
	b. Phase "B" Isolation		
	1. Manual	Not Applicable	Not Applicable
	2. Automatic Actuation Logic	Not Applicable	Not Applicable
	3. Containment PressureHigh-High	<pre>&lt; 23.5 psig</pre>	< 24 psig
	c. Containment Ventilation Isolation		
	1. Manual	Not Applicable	Not Applicable

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#### TABLE 3.3-5

## ENGINEERED SAFETY FEATURES RESPONSE TIMES

#### INITIATING SIGNAL AND FUNCTION

1.

2.

#### RESPONSE TIME IN SECUNDS

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Manu	ial	
a.	Safety Injection (ECCS)	Not Applicable
	Feedwater Isolation	Not Applicable
	Reactor Trip (SI)	Not Applicable
	Containment Isolation-Phase "A"	Not Applicable
	Containment Ventilation Isolation	Not Applicable
	Auxiliary Feedwater Pumps	Not Applicable
	Service Water System	Not Applicable
	Containment Fan Cooler	Not Applicable
b.	Containment Spray	Not Applicable
	Containment Isolation-Phase "B"	Not Applicable
	Containment Ventilation Isolation	Not applicable
с.	Containment Isolation-Phase "A"	Not Applicable
	Containment Ventilation Isolation	Not Applicable
d.	Steam Line Isolation	Not Applicable
Cont	tainment Pressure-High	
а.	Safety Injection (ECCS)	< 27.0*
b.	Reactor Trip (from SI)	< 3.0
с.	Feedwater Isolation	< 8.0
d.	Containment Isolation-Phase "A"	< 18.0 <sup>#</sup> /28.0 <sup>##</sup>
e.	Containment Ventilation Isolation	Not Applicable
f.	Auxiliary Feedwater Pumps	Not Applicable
g.	Service Water System	< 13.0 <sup>#</sup> /48.0 <sup>##</sup>

g. Service Water System

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# TABLE 3.3-5 (Continued)

# ENGINEERED SAFETY FEATURES RESPONSE TIMES

INIT	IATIN	S SIGNAL AND FUNCTION	ESPONSE TIME IN SECONDS
3.	Pres	surizer Pressure-Low	07 0+/12 04
	ā.	Safety Injection (ECCS)	<u>&lt;</u> 27.0*/13.0#
	b.	Reactor Trip (from SI)	<u>&lt;</u> 3.0
	с.	Feedwater Isolation	<u>&lt; 8.0</u>
	d.	Containment Isolation-Phase "A"	< 18.0#
	e.	Containment Ventilation Isolation	Not Applicable
	f.	Auxiliary Feedwater Pumps	Not Applicable
	g.	Service Water System	<u>&lt;</u> 48.0*/13.0#
٨	Dif	ferential Pressure Between Steam Lines-	High
7.	a	Safety Injection (ECCS)	< 13.0#/23.0##
	b.	Reactor Trip (from SI)	<u>&lt;</u> 3.0
	c.	Feedwater Isolation	< 8.0
	d.	Containment Isolation-Phase "A"	< 18.0#/28.0##
	ρ.	Containment Ventilation Isolation	Not Applicable
	f.	Auxiliary Feedwater Pumps	Not Applicable
	g.	Service Water System	<u>≺</u> 13.0#/48.0##
5.	Ste	eam Flow in Two Steam Lines - High Coin ith T <sub>avg</sub> Low-Low	cident
	a.	Safety Injection (ECCS)	< 15.0#/25.0##
	b.	Reactor Trip (from SI)	< 5.0
	с.	Feedwater Isolation	< 10.0
	d.	Containment Isolation-Phase "A"	< 20.0#/30.0##
	e.	Containment Ventilation Isolation	Not Applicable
	f.	Auxiliary Feedwater Pumps	Not Applicable
	g.	Service Water System	< 15.0#/50.0##
	h.	Steam Line Isolation	< 10.0

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## TABLE 4.3-2

## ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

FUNC	TIONAL UNIT	CHANNEL	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST	MODES IN WHICH SURVEILLANCE REQUIRED
1.	SAFETY INJECTION, TURBIN AND FEEDWATER ISULATION	E TRIP			
	a. Manual Initiation	N.A.	Ν.Α.	R	1, 2, 3, 4
	b Automatic Actuation	Logic N.A.	N.A.	M(2)	1, 2, 3, 4
	c Containment Pressure	e-High S	R	M(3)	1,2.3
	d Proceurizer Pressur	eLow S	R	М	1,2,3
	e. Differential Pressu Between Steam Lines	re S High	R	м	1,2,3
	f. Steam Flow in Two S LinesHigh Coincid TLow or Steam PressureLow	team S lent with Line	R	м	1,2,3
2.	CONTAINMENT SPRAY				
12	a. Manual Initiation	Ν.Α.	Ν.Α.	R	1, 2, 3, 4
	h Automatic Actuation	n Logic N.A.	Ν.Α.	M(2)	1, 2, 3, 4
106	c. Containment Pressu High	reHigh- S	R	M(3)	1,2,3

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### TABLE 4.3-2 (Continued)

#### ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION SURVEILLANCE REQUIREMENTS

UN	CTION	AL U	NIT	CHANNEL CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST	MODES IN WHICH SURVEILLANCE REQUIRED
	CON	TAIN	MENT ISOLATION				
	a.	Pha	se "A" Isolation				
		1)	Manual	N.A.	N.A.	R	1, 2, 3, 4
		?)	From Safety Injection Automatic Actuation Logic	N.A.	N.A.	M(2)	1, 2, 3, 4
	b.	Pha	se "B" Isolation				
		1)	Manual	N.A.	N.A.	R	1, 2, 3, 4
		2)	Automatic Actuation Logic	N.A.	N.A.	M(2)	1, 2, 3, 4
		3)	Containment Pressure High-High	S	R	M(3)	1, 2, 3
	с.	Cor	ntainment Ventilation solation				
		1)	Manual	N.A.	N.A.	R	1, 2, 3, 4
		2)	Containment Radio- activity-High	S	R	М	1, 2, 3, 4