ATTACHMENT 2

PROPOSED TECHNICAL SPECIFICATION

Marked-up Technical Specifications Pages.

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Note: Values which have changed as a result of this review are shown as "ballooned" changes. The other changes shown were submitted previously under letter L-90-417.

REACTOR TRIP SYSTEM INSTRUMENTATION TRIP SETPOINTS

FUNCTIONAL UNIT	ALLOWANCE (TA)	Z	S	TRIP SETPOINT	ALLOWABLE VALUE (9)
12. Steam/Feedwater Flow Mismatch Coincident With	[ ] 20.0	[ ] 3.67	[ ] 7.3##	Feed Flow ≤ 20% ~~≤0.64 x 10^6 lb/hr~~ below steam flow	Feed Flow ≤ 23.9% ~~≤[ ] x 10^6 lb/hr~~ below steam flow
Steam Generator Water Level-Low	5.0 [ ]	3.33 [ ]	1.9 [ ]	≥15% of narrow range instrument span	13.2 ≥[ ]% of narrow range instrument span
13. Undervoltage - 4.16 kV Busses A and B	20.0 6.5 [ ] ~~16.1~~	1.12 0.03 [ ]	0.0 [ ]	70% bus voltage ~~≥2496 volts each bus~~	69% bus voltage ~~≥[ ] volts each bus~~
14. Underfrequency - Trip of Reactor Coolant Pump Breaker(s) Open	[ ]	~~0.50~~ [ ]	0.0 [ ]	≥56.1 Hz	55.9 ≥[ ] Hz
15. Turbine Trip	2.6 ~~3.6~~	1.0	0.0		42 ~~43~~
a. Auto Stop Oil Pressure	[ ]	[ ]	[ ]	≥45 psig	≥[ ] psig
b. Turbine Stop Valve Closure	N.A.	N.A.	N.A.	Fully Closed ***	Fully Closed ***
16. Safety Injection Input from ESF	N.A.	N.A.	N.A.	N. A.	N.A.
17. Reactor Trip System Interlocks					
a. Intermediate Range Neutron Flux, P-6	N.A. [ ]	N.A. [ ]	N.A. [ ]	Nominal 1×10^{-10} amp	6.0×10^{-11} ≥[ ] amps

***Limit switch is set when Turbine Stop Valves are fully closed.

1.7% Span for Steam Line Flow, 2.9% Span for feedwater flow and 2.8% Span for Steam Line pressure

TABLE 3.3-3

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM
INSTRUMENTATION TRIP SETPOINTS

FUNCTIONAL UNIT	ALLOWANCE (TA)	Z	S	TRIP SETPOINT	ALLOWABLE VALUE#
1. Safety Injection (Reactor Trip, Turbine Trip, Feedwater Isolation, Control Room Ventilation Isolation, Start Diesel Generators, Containment Phase A Isolation (except Manual SI), Containment Cooling Fans, Containment Filter Fans, Start Sequencer, Component Cooling Water, Start Auxiliary Feedwater and Intake Cooling Water)					
a. Manual Initiation	N.A	N.A	N.A	N.A.	N.A.
b. Automatic Actuation Logic	N.A	N.A	N.A	N.A.	N.A
c. Containment Pressure--High	2.0	0.0	0.0	4.0 ≤ ~~4~~ psig	≤ ~~5.5~~ psig
d. Pressurizer Pressure--Low	13.0	8.4	1.4	1730 ≥ ~~1715~~ psig	1712 ≥ psig
e. High Differential Pressure Between the Steam Line Header and any Steam Line.	4.6	1.57	4.60*	100 ≤ ~~150~~ psi	114 ≤ psi
f. Steam Line Flow--High	16.7	2.86	3.9	≤ A function defined as follows: A Δp corresponding to ~~0.64 x 10^6 lbs/hr~~ 40 % steam flow at 0% load increasing linearly ~~to a Δp~~ from 20 % load to a value corresponding to ~~3.84 x 10^6 lbs/hr~~ 120 % steam flow at full load.	

(INSERT)

* 2.3 % Span for each sensor.

≤ A function defined as follows: A Delta-P corresponding to 42.6 % steam flow at 0% load increasingly linearly from 20 % load to a value corresponding to 122.6 % steam flow at full load.

40 % steam flow

from 20 % load to a value
120 % steam flow

(INSERT)

16.7	2.86 5.9		
4.6	1.57 4.60*	100	114
13.0	8.4 1.4	1130	1112
2.0	-0.3 0.0	4.0	[illegible]
13.3	10.3		4.5

* 2.3 % Span for each sensor

☆ A function defined as follows: A Delta-P corresponding to 42.6 % steam flow at 0 % load increasingly linearly from 20 % load to a value corresponding to 122.6 % steam flow at full load.

TABLE 3.3-3 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM
INSTRUMENTATION TRIP SETPOINTS

FUNCTIONAL UNIT	ALLOWANCE (TA)	Z	S	TRIP SETPOINT	ALLOWABLE VALUE#
Coincident with: Steam Generator Pressure--Low or T_{avg}--Low	13.0 / 4.0	1.16 / 2.0	2.3 / 1.0	614 / ≥600 psig / ≥543°F	588 / ≥ psig / ≥542.5°F
2. Containment Spray					
a. Automatic Actuation Logic and Actuation Relays	21.3 / N.A	2.7 / N.A	N.A	N.A.	22.6 / N.A.
b. Containment Pressure--High-High Coincident with: Containment Pressure--High	10.0 / 2.0 / 13.3	1.6 / 0.2 / 10.3	0.0 / 0.0	20.0 ≤30.0 psig / 4.0 ≤6.0 psig	21.4 ≤ psig / 5.5 ≤ psig / 4.5
3. Containment Isolation					
a. Phase "A" Isolation					
1) Manual Initiation	N.A	N.A.	N.A.	N.A.	N.A.
2) Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	N.A.
3) Safety Injection	see item 1			See Item 1 above for all Safety Injection Trip Setpoints and Allowable Values.	
b. Phase "B" Isolation					
1) Manual Initiation	N.A.	N.A.	N.A.	N.A.	N.A.

TABLE 3.3-3 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM
INSTRUMENTATION TRIP SETPOINTS

FUNCTIONAL UNIT	ALLOWANCE (TA)	Z	S	TRIP SETPOINT	ALLOWABLE VALUE#
3. Containment Isolation (Continued)					
2) Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	N.A.
3) Containment Pressure--High-High Coincident with: Containment Pressure--High	10.0 / 2.0 / 13.3	1.6 / 0.2 / 10.3	0.0 / 0.0	20.0 psig / 4.0 psig	≤30.0 psig / ≤6.0 psig
c. Containment Ventilation Isolation					
1) Containment Isolation Manual Phase A or Manual Phase B	N.A.	N.A.	N.A.	N.A.	N.A.
2) Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	N.A.
3) Safety Injection	see item 1			See Item 1. above for all Safety Injection Trip Setpoints and Allowable Values.	
4) Containment Radioactivity--High (1)	N.A.	N.A.	N.A.	Particulate (R-11) <6.1 x 10^5 CPM Gaseous (R-12) See (2)	Particulate (R-11) ≤ 6.8 x 10^5 CPM Gaseous (R-12) See (2)
4. Steam Line Isolation					
a. Manual Initiation	N.A.	N.A.	N.A.	N.A.	N.A.

(INSERT)

TURKEY POINT - UNITS 3 & 4 3/4 3-25 AMENDMENT NOS. 140 AND 135

TABLE 3.3-3 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION TRIP SETPOINTS

≤ A function defined as follows: A Δp corresponding to 42.6% Steam Flow at 0% load increasingly linearly from 20% load to a value corresponding to 122.6% steam flow at full load.

FUNCTIONAL UNIT	ALLOWANCE (TA)	Z	S	TRIP SETPOINT	ALLOWABLE VALUE#
4. Steam Line Isolation (Continued)					
b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	N.A.
c. Containment Pressure--High-High Coincident with: Containment Pressure--High	~~10.0~~ [ ] ~~2.0~~ [ ] 16.7	~~1.6~~ [ ] ~~0.2~~ [ ] 2.86	0.0 [ ] 0.0 [ ] 3.9	20.0 ~~≤30.0~~ psig 4.0 ~~≤6.0~~ psig	N.A. [ ] psig ~~5.5~~ [ ] psig
f. Steam Line Flow--High	[ ]	[ ]	[ ]	≤A function defined as follows: A Δp corresponding to ~~0.64 x 10^6 lbs/hr~~ 40% steam flow at 0% load increasing linearly ~~to a Δp~~ from 20% load to a value corresponding to ~~3.84 x 10^6 lbs/hr~~ 120% steam flow at full load.	[ ]
Coincident with: Steam Line Pressure--Low	13.0 [ ]	1.16 [ ]	2.3 [ ]	614 ~~≥600~~ psig	588 ≥[ ] psig
or T_{avg}--Low	4.0	2.0	1.0	≥543°F	≥542.5°F
5. Feedwater Isolation					
a. Automatic Actuation Logic and Actuation Relays	N.A.	N.A	N.A.	N.A.	N.A.
b. Safety Injection	see item 1			See Item 1. above for all Safety Injection Trip Setpoints and Allowable Values.	