Docket No. 50-423
B12817

Attachment 1

Proposed Revision to Technical Specifications
Steam Generator Low Low Level Reactor Trip Setpoint

February, 1988

TABLE 2.2-1 (Continued)

REACTOR TRIP SYSTEM INSTRUMENTATION TRIP SETPOINTS

FUNCTIONAL UNIT	TOTAL ALLOWANCE (TA)	Z	SENSOR ERROR (S)	TRIP SETPOINT	ALLOWABLE VALUE
9. Pressurizer Pressure-Low	5.0	1.77	3.3	$\geq$ 1900 psia	$\geq$ 1890 psia
10. Pressurizer Pressure-High	5.0	1.77	3.3	$\leq$ 2385 psia	$\leq$ 2395 psia
11. Pressurizer Water Level-High	8.0	5.13	2.7	$\leq$ 89% of instrument span	$\leq$ 90.7% of instrument span
12. Reactor Coolant Flow-Low	2.5	1.52	0.78	$\geq$ 90% of loop design flow*	$\geq$ 89.1% of loop design flow*
13. Steam Generator Water Level Low-Low	20.73	17.48	1.50	$\geq$ 20.73% of narrow range instrument span	$\geq$ 17.95% of narrow range instrument span
14. General Warning Alarm	N.A.	N.A.	N.A.	N.A.	N.A.
15. Low Shaft Speed - Reactor Coolant Pumps	3.8	0.5	0	$\geq$ 97.8% of rated speed	$\geq$ 94.6% of rated speed
16. Turbine Trip					
a. Low Fluid Oil Pressure	N.A.	N.A.	N.A.	$\geq$ 500 psig	$\geq$ 450 psig
b. Turbine Stop Valve Closure	N.A.	N.A.	N.A.	$\geq$ 1% open	$\geq$ 1% open
17. Safety Injection Input from ESF	N.A.	N.A.	N.A.	N.A.	N.A.

**RTP = RATED THERMAL POWER

TABLE 3.3-4 (Continued)

ENGINEERING SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION TRIPS SETPOINTS

FUNCTIONAL UNIT	TOTAL ALLOWANCE (TA)	Z	SENSOR ERROR (S)	TRIP SETPOINT	ALLOWABLE VALUE
5. Turbine Trip and Feedwater Isolation					
a. Automatic Actuation Logic Actuation Relays	N.A	N.A.	N.A.	N.A.	N.A
b. Steam Generator Water Level--High-High (P-14)	3.7	2.33	1.75	$\leq$ 82.0% of narrow range instrument span.	$\leq$ 82.8% of narrow range instrument span.
c. Safety Injection Actuation Logic	See Item 1. above for all Safety Injection Trip Setpoints and Allowable Valves.				
d. T_{ave} Low Coincident with Reactor Trip (P-4)					
1) Four Loops Operating	N.A.	N.A.	N.A.	$\geq$ 564°F	$\geq$ 560.6°F
2) Three Loops Operating	N.A.	N.A.	N.A.	$\geq$ 564°F	$\geq$ 560.6°F
6. Auxiliary Feedwater					
a. Manual Initiation	N.A.	N.A.	N.A.	N.A.	N.A.
b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	N.A.
c. Steam Generator Water Level--Low-Low					
1) Start Motor-Driven Pumps	20.73	17.48	1.50	$\geq$ 20.73% of narrow range instrument span.	$\geq$ 17.95% of narrow range instrument span.

TABLE 3.3-1 (Continued)

ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION TRIP SETPOINTS

FUNCTIONAL UNIT	TOTAL ALLOWANCE (TA)	Z	SENSOR ERROR (S)	TRIP SETPOINT	ALLOWABLE VALUE
6. Auxiliary Feedwater (Continued)					
2) Start Turbine-Driven Pumps	20.73	17.48	1.50	≥ 20.73% of narrow range instrument span.	≥ 17.95% of narrow range instrument span.
d. Safety Injection	See Item 1. above for all Safety Injection Trip Setpoints and Allowable Values.				
e. Loss-of-Offsite Power Start Motor-Driven Pumps	N.A.	N.A.	N.A.	≥ 2800V	≥ 2720V
f. Containment Depressurization Actuation (CDA) Start Motor-Driven Pumps	See Item 2. above for all CDA Trip Setpoints and Allowable Values.				
7. Control Building Isolation					
a. Manual Actuation	N.A.	N.A.	N.A.	N.A.	N.A.
b. Manual Safety Injection Actuation	N.A.	N.A.	N.A.	N.A.	N.A.
c. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	N.A.
d. Containment Pressure--High 1	3.3	1.01	1.75	≤ 3.0 psig	≤ 3.8 psig
e. Control Building Inlet Ventilation Radiation	N.A.	N.A.	N.A.	≤ 1.5 x 10^{-5} μc/cc	≤ 1.5 x 10^{-5} μc/cc