

ATTACHMENT "A"

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Table 3.3-5 (continued)

INITIATING SIGNAL AND FUNCTION	RESPONSE TIME (SEC)
2. <u>Pressurizer Pressure-Low</u>	
a. SIAS	
(1) Safety Injection	
(a) High Pressure Safety Injection	31.2*
(b) Low Pressure Safety Injection	41.2*
(c) Charging Pumps	31.2*
(2) Control Room Isolation	Not Applicable
(3) Containment Isolation (NOTE 3)	11.2* (NOTE 2)
(4) Containment Spray (Pumps)	25.6*
(5) Containment Emergency Cooling	
(a) CCW Pumps	31.2*
(b) CCW Valves (Note 4b)	23.2*
(c) Emergency Cooling Fans	21.2*
3. <u>Containment Pressure-High</u>	
a. SIAS	
(1) Safety Injection	
(a) High Pressure Safety Injection	41.0*
(b) Low Pressure Safety Injection	41.0*
(2) Control Room Isolation	Not Applicable
(3) Containment Spray (Pumps)	25.4*
(4) Containment Emergency Cooling	
(a) CCW Pumps	31.0*
(b) CCW Valves (Note 4b)	23.0*
(c) Emergency Cooling Fans	21.0*
b. CIAS	
(1) Containment Isolation	10.9* (NOTE 2)
(2) Main Feedwater Isolation and Backup Isolation Valves (HV 4048, HV 4052, HV 1105, HV 1106, HV 4047, HV 4051)	10.9
(3) CCW Valves (Note 4a)	20.9
(4) Mainsteam Isolation Valves (HV 8204, HV 8205)	6.9
(5) Minipurge Isolation Valves	5.9
4. <u>Containment Pressure - High-High</u>	
CSAS	
Containment Spray	23.0*

ATTACHMENT "B"

Table 3.3-5 (continued)

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME (SEC)</u>
2. <u>Pressurizer Pressure-Low</u>	
a. SIAS	
(1) Safety Injection	
(a) High Pressure Safety Injection	31.2*
(b) Low Pressure Safety Injection	41.2*
(c) Charging Pumps	31.2*
(2) Control Room Isolation	Not Applicable
(3) Containment Isolation (NOTE 3)	11.2* (NOTE 2)
(4) Containment Spray (Pumps)	25.6*
(5) Containment Emergency Cooling	
(a) CCW Pumps	31.2*
(b) CCW Valves (Note 4b)	23.2*
(c) Emergency Cooling Fans	21.2*
3. <u>Containment Pressure-High</u>	
a. SIAS	
(1) Safety Injection	
(a) High Pressure Safety Injection	41.0*
(b) Low Pressure Safety Injection	41.0*
(2) Control Room Isolation	Not Applicable
(3) Containment Spray (Pumps)	25.4*
(4) Containment Emergency Cooling	
(a) CCW Pumps	31.0*
(b) CCW Valves (Note 4b)	23.0*
(c) Emergency Cooling Fans	21.0*
b. CIAS	
(1) Containment Isolation	10.9* (NOTE 2)
(2) Main Feedwater Isolation and Backup Isolation Valves (HV 4048, HV 4052, HV 1105, HV 1106, HV 4047, HV 4051)	10.9
(3) CCW Valves (Note 4a)	20.9
(4) Mainsteam Isolation Valves (HV 8204, HV 8205)	8.9
(5) Minipurge Isolation Valves	5.9
4. <u>Containment Pressure - High-High</u>	
CSAS	
Containment Spray	23.0*

ATTACHMENT "C"

Table 3.3-5 (continued)

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME (SEC)</u>
2. <u>Pressurizer Pressure-Low</u>	
SIAS	
(1) Safety Injection	
(a) High Pressure Safety Injection	31.2*
(b) Low Pressure Safety Injection	41.2*
(c) Charging Pumps	31.2*
(2) Control Room Isolation	Not Applicable
(3) Containment Isolation (NOTE 3)	11.2* (NOTE 2)
(4) Containment Spray (Pumps)	25.6*
(5) Containment Emergency Cooling	
(a) CCW Pumps	31.2*
(b) CCW Valves (NOTE 4b)	23.2*
(c) Emergency Cooling Fans	21.2*
3. <u>Containment Pressure-High</u>	
a. SIAS	
(1) Safety Injection	
(a) High Pressure Safety Injection	41.0*
(b) Low Pressure Safety Injection	41.0*
(2) Control Room Isolation	Not Applicable
(3) Containment Spray (Pumps)	25.4*
(4) Containment Emergency Cooling	
(a) CCW Pumps	31.0*
(b) CCW Valves (NOTE 4b)	23.0*
(c) Emergency Cooling Fans	21.0*
b. CIAS	
(1) Containment Isolation	10.9* (NOTE 2)
(2) Main Feedwater Backup Isolation and Backup Isolation Valves (HV 4048, HV 4052, HV 1105, HV 1106, HV 4047, HV 4051)	10.9
(3) CCW Valves (Note 4a)	20.9
(4) Mainsteam Isolation Valves (HV 8204, HV 8205)	6.9
(5) Minipurge Isolation Valves	5.9
4. <u>Containment Pressure - High-High</u>	
CSAS	
Containment Spray	23.0*

ATTACHMENT "D"

Table 3.3-5 (continued)

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME (SEC)</u>
2. <u>Pressurizer Pressure-Low</u>	
SIAS	
(1) Safety Injection (a) High Pressure Safety Injection (b) Low Pressure Safety Injection (c) Charging Pumps	31.2* 41.2* 31.2*
(2) Control Room Isolation	Not Applicable
(3) Containment Isolation (NOTE 3)	11.2* (NOTE 2)
(4) Containment Spray (Pumps)	25.6*
(5) Containment Emergency Cooling (a) CCW Pumps (b) CCW Valves (NOTE 4b) (c) Emergency Cooling Fans	31.2* 23.2* 21.2*
3. <u>Containment Pressure-High</u>	
a. SIAS	
(1) Safety Injection (a) High Pressure Safety Injection (b) Low Pressure Safety Injection	41.0* 41.0*
(2) Control Room Isolation	Not Applicable
(3) Containment Spray (Pumps)	25.4*
(4) Containment Emergency Cooling (a) CCW Pumps (b) CCW Valves (NOTE 4b) (c) Emergency Cooling Fans	31.0* 23.0* 21.0*
b. CIAS	
(1) Containment Isolation	10.9* (NOTE 2)
(2) Main Feedwater Backup Isolation and Backup Isolation Valves (HV 4048, HV 4052, HV 1105, HV 1106, HV 4047, HV 4051)	10.9
(3) CCW Valves (Note 4a)	20.9
(4) Mainsteam Isolation Valves (HV 8204, HV 8205)	8.9
(5) Minipurge Isolation Valves	5.9
4. <u>Containment Pressure - High-High</u>	
CSAS	
Containment Spray	23.0*