

BFN-24

TABLE 7.4-1

(Deleted by Amendment 16)

TABLE 7.4-2

AUTOMATIC DEPRESSURIZATION SYSTEM INSTRUMENTATION

<u>ADS Function</u>	<u>Instrument Type</u>	<u>INSTRUMENT No.</u>	<u>Trip Setting/ Analytical Limit</u>
Reactor vessel low water level	Level switch	LS-3-58A - D	372.5 inches above vessel zero (AL) (Note 1)
Primary containment (drywell) high pressure	Pressure switch	PIS-64-57A - D	2.6 psig (AL)
Automatic depressurization time delay	Timer	E-K34 & E-K35	120 seconds (AL)
LPCI pump discharge pressure	Pressure switch	PS-74-8A & B, 19A & B PS-74-31A & B, 42A & B	120 upper analytical limit 80 lower analytical limit
Core spray pump discharge Pressure	Pressure switch	PS-75-7, 16, 35, 44	205 upper analytical limit 165 lower analytical limit
Acoustic Monitor	Accelerometer	XE-1-5, 19, 22, 30, 31, 34	N/A
High drywell pressure bypass time delay for ADS logic	Timer	2-I-58A2 2-1-58B2 2-1-58C2 2-1-58D2	360 seconds (AL)

Note 1: LIS-3-184 and -185 provide confirmatory low level signals.

TABLE 7.4-3

CORE SPRAY SYSTEM INSTRUMENTATION

<u>Core Spray Function</u>	<u>Instrument Type</u>	<u>INSTRUMENT No.</u>	<u>Trip Setting/ Analytical Limit (AL)</u>
Reactor vessel low water level	Level switch	LS-3-58A - D	372.5 inches above vessel zero (AL)
Primary containment high pressure	Pressure switch	PIS-64-58A - D	2.6 psig (AL)
Reactor vessel low pressure	Pressure switch	PIS-3-74A & B PIS-68-95 & 96	335 psig (AL)
Core spray sparger differential pressure	Differential pressure switch	PDIS-75-28 & 56	2.0 psid
Pump discharge flow	Flow indicator	FI-75-21 & 49	-
Pump suction pressure	Pressure	PI-75-4, 13, 32, 41	-
Pump discharge pressure	Pressure	PI-75-20 & 48	-
Pump discharge flow	Flow switch	FS-75-21 & 49	2584.8 gpm increasing 2211.2 gpm decreasing

TABLE 7.4-4

LOW PRESSURE COOLANT INJECTION INSTRUMENTATION

<u>LPCI Function</u>	<u>Instrument Type</u>	<u>Instrument Number</u>	<u>Trip Setting/ Analytical Limit (AL)</u>
Reactor vessel low water level (LPCI pump start signal)	Level switch	LS-3-58A - D	372.5 inches above vessel zero (AL)
Primary containment (drywell) high pressure (LPCI initiation)	Pressure switch	PIS-64-58A - D	2.6 psig (AL)
Reactor vessel low water level (inside shroud) prevents containment spray	Level switch	LIS-3-52 & 62-A	293 inches above vessel zero (AL)
LPCI sequence delay (pump A)	Timer		0.2 seconds
LPCI sequence delay (pump B)	Timer		7 seconds
LPCI sequence delay (pump C)	Timer		14 seconds
LPCI sequence delay (pump D)	Timer		21 seconds
LPCI reactor vessel low pressure	Pressure switch	PIS-3-74A & B PIS-68-95 & 96	335 psig (AL)
LPCI injection valve initiation signal cancellation	Timer	10A - K45A & B	5 minutes
Containment spray valve manual control interlock low drywell pressure	Pressure switch	PIS-64-58E, F, G, and H	1 psig ≤ p ≤ 2.6 psig (AL)
LPCI pump low flow	Flow switch	FS-74-50 & 64	1000/8000 gpm (AL)
Reactor vessel pressure permissive	Pressure switch	PS-3-74A & B PS-68-95 & 96	200 psig (AL)