

ATTACHMENT 3 TO PLA-4928

TECHNICAL SPECIFICATIONS MARK-UPS

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SUSQUEHANNA - UNIT 2

3/4 3-71

IAI 3.3.7.3-1
ACCIDENT MONITORING INSTRUMENTATION

INSTRUMENT	REQUIRED NUMBER OF CHANNELS	MINIMUM CHANNELS OPERABLE	ACTION	APPLICABLE OPERATIONAL CONDITIONS
1. Reactor Vessel Steam Dome Pressure	2	1	80	1,2
2. Reactor Vessel Water Level	2	1	80	1,2
3. Suppression Chamber Water Level	2	1	80	1,2
4. Suppression Chamber Water Temperature	8,6 locations	6,1/location	80	1,2
5. Suppression Chamber Air Temperature	2	1	80	1,2
6. Primary Containment Pressure	2/range	1/range	80	1,2
7. Drywell Temperature	2	1	80	1,2
8. Drywell Gaseous Analyzer				
a. Oxygen	2	1	80	1, 2
b. Hydrogen	2	1	82	1, 2
9. Safety/Relief Valve Position Indicators	1/valve	1/valve	80	1,2
10. Containment High Radiation	2	1	81	1,2
11. Noble gas monitors				
a. Reactor Bldg. Vent	1	1	81	1,2 and
b. SGTS Vent	1	1	81	1,2 and
c. Turbine Bldg. Vent	1	1	81	1,2
12. Primary Containment Isolation Valve Position	1/valve	1/valve	80	1,2
13. Neutron Flux	2	1	80	1,2

Amendment No. SR 700,
778, 128

- Acoustic monitor.
- Mid-range and high-range channels.
- When moving irradiated fuel in the secondary containment.
- ! See Special Test Exception 3.10.1.
- !! Compliance with these requirements for the "S" SRV acoustic monitor is not required for the period beginning January 21, 1994, until the next unit shutdown of sufficient duration to allow for containment entry, not to exceed the sixth refueling and inspection outage.
- ### Compliance with these requirements for the "J" SRV acoustic monitor is not required for the period beginning June 15, 1998, until the next unit shutdown of sufficient duration to allow for containment entry, not to exceed the ninth refueling and inspection outage.

TABLE 4.3.7.5-1

ACCIDENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

INSTRUMENT	CHANNEL CHECK	CHANNEL CALIBRATION
1. Reactor Vessel Steam Dome Pressure	M	R
2. Reactor Vessel Water Level	M	R
3. Suppression Chamber Water Level	M	R
4. Suppression Chamber Water Temperature	M	R
5. Suppression Chamber Air Temperature	M	R
6. Primary Containment Pressure	M	R
7. Drywell Temperature	M	R
8. Drywell Oxygen/Hydrogen Analyzer	M	Q
9. Safety/Relief Valve Position Indicators	M	R
10. Containment High Radiation	M	R
11. Noble Gas Monitors a. Reactor Bldg. Vent b. SGTS Vent c. Turbine Bldg. Vent	M M M	R R R
12. Primary Containment Isolation Valve Position	M	NA
13. Neutron Flux	M	R

Compliance with the requirements for the "J" SRV acoustic monitor is not required for the period beginning June 15, 1998, until the next unit shutdown of sufficient duration to allow for containment entry, not to exceed the ninth refueling and inspection outage.

- For hydrogen analyzer, use sample gas containing:
 - a. Nominal zero volume percent hydrogen, balance nitrogen.
 - b. Nominal thirty volume percent hydrogen, balance nitrogen.

CHANNEL CALIBRATION shall consist of an electronic calibration of the channel, not including the detector, for range decades above 10 R/hr and a one point calibration check of the detector below 10 R/hr with an installed or portable gamma source.

Compliance with these requirements for the "S" SRV acoustic monitor is not required for the period beginning January 21, 1994, until the next unit shutdown of sufficient duration to allow for containment entry, not to exceed the sixth refueling and inspection outage.

LIMITING CONDITION FOR OPERATION

3.4.2 The safety valve function of at least 12 of the following reactor coolant system safety/relief valves shall be OPERABLE with the specified code safety valve function lift settings:

- 2 safety-relief valves @ 1175 psig ±1%
- 6 safety-relief valves @ 1195 psig ±1%
- 8 safety-relief valves @ 1205 psig ±1%

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, AND 3.

ACTION:

- a. With the safety valve function of one or more of the above required safety/relief valves inoperable, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours.
- b. With one or more safety/relief valves stuck open, provided that suppression pool average water temperature is less than 105°F, close the stuck open relief valve(s); if unable to close the open valve(s) within 2 minutes or if suppression pool water temperature is 105°F or greater, place the reactor mode switch in the Shutdown position.
- c. With one or more safety/relief valve acoustic monitors inoperable, restore the inoperable monitor(s) to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

SURVEILLANCE REQUIREMENTS

4.4.2 The acoustic monitor for each safety/relief valve shall be demonstrated OPERABLE with the setpoint verified to be 0.25 of the full open noise level by performance of a:

- a. CHANNEL FUNCTIONAL TEST at least once per 31 days, and a
- b. Calibration in accordance with procedures prepared in conjunction with its manufacturer's recommendations at least once per 18 months.

The lift setting pressure shall correspond to ambient conditions of the valves at nominal operating temperatures and pressures.

Up to 2 inoperable valves may be replaced with spare OPERABLE valves with lower setpoints until the next refueling.

Initial setting shall be in accordance with the manufacturer's recommendation. Adjustment to the valve full open noise level shall be accomplished during the startup test program.

The provisions of Specification 4.0.4 are not applicable provided the surveillance is performed within 12 hours after reactor steam pressure is adequate to perform the test.

Compliance with these requirements for the "S" SRV acoustic monitor is not required for the period beginning January 21, 1994, until the next unit shutdown of sufficient duration to allow for containment entry, not to exceed the sixth refueling and inspection outage.

Compliance with these requirements for the "J" SRV acoustic monitor is not required for the period beginning June 15, 1988, until the next unit shutdown of sufficient duration to allow for containment entry, not to exceed the ninth refueling and inspection outage.