

- E. Two chlorine detection systems, each consisting of two channels of instrumentation shall be operable at all times except as specified below. The alarm/trip setpoint shall be adjusted to actuate at a chlorine concentration of less than or equal to 5 ppm.
 - 1. If one chlorine detection channel for one train of ventilation is inoperable, then within seven days:
 - a. Restore the inoperable channel to operable status, or
 - b. Operate the redundant ventilation system in the normal (non-recirculation) mode, and close the outside air suction dampers for the affected train of ventilation
 - 2. If both chlorine detection channels for one train of ventilation are inoperable then within six hours:
 - a. Restore at least one channel to operable status, or
 - b. Operate the redundant ventilation system in the normal (non-recirculation) mode and close the outside air suction dampers for the affected train of ventilation
 - 3. If all chlorine monitors for both trains of ventilation are inoperable then within six hours close all Control Room ventilation outside air suction dampers.

TABLE TS.3.15-1
EVENT MONITORING INSTRUMENTATION - PROCESS & CONTAINMENT

<u>Instrument</u>	<u>Required Total No. of Channels</u>	<u>Minimum Channels Operable</u>
1. Pressurizer Water Level	2	1
2. Auxiliary Feedwater Flow to Steam Generators (One Channel Flow and One Channel Wide Range Level for Each Steam Generator)	2/steam gen	1/steam gen
3. Reactor Coolant System Subcooling Margin***	2	1
4. Pressurizer Power Operated Relief Valve Position (One Common Channel Temperature, One Channel Limit Switch per Valve, and One Channel Acoustic Sensor per Valve*)	2/valve	1/valve
5. Pressurizer Power Operated Relief Block Valve Position (One Common Channel Temperature, One Channel Limit Switch per Valve, and One Channel Acoustic Sensor per Valve*)	2/valve	1/valve
6. Pressurizer Safety Valve Position (One Channel Temperature per Valve and Common Acoustic Sensor**)	2/valve	1/valve
7. Containment Water Level (wide range)	2	1
8. Containment Hydrogen Monitor (2 sensors per Channel)	2	1
9. Containment Pressure	2	1

* - A common acoustic sensor provides backup position indication for each pressurizer power operated relief valve and its associated block valve.

** - The acoustic sensor channel is common to both valves. When operable, the acoustic sensor may be considered as an operable channel for each valve.

*** - Fully qualified input instrumentation is being installed in accordance with the NRC's TMI Action Plan. Until installation is completed, this function will be satisfied using the plant process computer.

TABLE TS.3.15-1
REV