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Technical Requirements Manual

Volume I

Detroit
Edison

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Primary Containment Isolation Valves

17. Group 17 - Recirculation Pump System and Primary Containment Radiation Monitoring System

Reactor Vessel Low Water Level - Level 2
Drywell Pressure - High

18. Group 18 - Primary Containment Pneumatic Supply System

Reactor Vessel Low Water Level - Level 2
Drywell Pressure - High

(b) These valves are hydrostatically leak tested.

(c) Also closes automatically as a result of Torus Room Floor Drain Sump Level - High - High and Drywell Floor Drain Sump Level - High - High.

(d) These valves may be closed remotely from one of the following locations:
1) control room.
2) their respective local panels.

(e) Will automatically reposition as a result of the actuation of the LPCI Loop Selection Logic.

(f) Will automatically close when the corresponding RHR loop flow is greater than 3000 gpm.

(g) Will automatically close when the corresponding core spray loop flow is greater than approximately 775 gpm.

(h) Will automatically close when a) HPCI Turbine Steam Stop Valve E4100-F067 closes or b) HPCI Turbine Steam Supply Isolation Valve E4150-F001 closes.

(i) Will automatically close as a result of the condition listed in Note (h), above, as well as when HPCI flow is greater than 1200 gpm.

(j) Will automatically close when a) RCIC Turbine Steam Stop Valve E5150-F045 closes or b) RCIC Turbine Governor Trip and Throttle Valve E5150-F059 closes.

(k) Will automatically close as a result of the conditions listed in Note (j) above, as well as when RCIC flow is greater than 130 gpm.

(l) These valves are actuated by remote manual key-locked switches and will cut the TIP cable and seal off the TIP guide tube when actuated. These valves are squib-fired.

(m) May be closed remotely as a secondary actuation mode to reverse flow.

(n) Valves realign automatically on a reactor scram signal.

(o) Thermal relief valves.

(p) Locked closed.

(q) Not subject to Type C leakage tests.

(r) Hydrostatically tested in accordance with Technical Specification SR 3.4.5.1 in lieu of the requirements of Technical Specifications 3.6.1.1 and 3.6.1.3.

(s) These Containment Isolation Valve(s) are not Type C tested. Containment by-pass leakage is prevented since the line terminates below the minimum water level in the suppression chamber and the system is a closed system outside Primary Containment.

(t) Valve closes on low reactor water level signal (Level 1) or high drywell pressure signal.

(u) Includes valve stroke time only. License Amendment No. 143, approved by the NRC on July 12, 2001, revised the Licensing Basis to allow a 121-second delay in the timing of the release of fission products following a design-basis accident. Therefore, most Class B valves' maximum isolation time may be changed to 108 seconds using the 10 CFR 50.59 process. See letter NRC-00-0066 and Amendment No. 143 for more details.