

TABLE 3.3-5 (Continued)

ENGINEERED SAFETY FEATURES RESPONSE TIMES

| <u>INITIATING SIGNAL AND FUNCTION</u> | <u>RESPONSE TIME IN SECONDS</u> |
|---|---------------------------------|
| 8. Steam Generator Level - High | |
| a. Main Steam Isolation | |
| 1. MSIS actuated MSIV's | $\leq 5.6^*/5.6^{**}$ |
| 2. MSIS actuated MFIV's# | $\leq 10.6^*/10.6^{**}$ |
| 9. Steam Generator ΔP -High-Coincident With Steam Generator Level Low | |
| a. Auxiliary Feedwater Isolation from the Ruptured Steam Generator | $\leq 16^*/16^{**}$ |
| 10. Control Room Essential Filtration Actuation | $\leq 180^*/180^{**}##$ |
| 11. 4.16 kV Emergency Bus Undervoltage (Degraded Voltage) | |
| Loss of Power 90% system voltage | ≤ 35.0 |
| 12. 4.16 kV Emergency Bus Undervoltage (loss of Voltage) | |
| Loss of Power | ≤ 2.4 |

TABLE NOTATIONS

*Diesel generator starting and sequence loading delays included. Response time limit includes movement of valves and attainment of pump or blower discharge pressure.

**Diesel generator starting delays not included. Offsite power available. Response time limit includes movement of valves and attainment of pump or blower discharge pressure.

#MFIV valves tested at simulated operating conditions; valves tested at static flow conditions to $\leq 8.6^*/8.6^{**}$ seconds.

Radiation detectors are exempt from response time testing. The response time of the radiation signal portion of the channel shall be measured from the detector output or from the input of first electronic component in channel to closure of dampers M-HJA-M01, M-HJA-M52, M-HJB-M01 and M-HJB-M55.

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