

INSTRUMENTATION

3/4.3.8 TURBINE OVERSPEED PROTECTION SYSTEM

LIMITING CONDITION FOR OPERATION

3.3.8 At least one turbine overspeed protection system shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1 and 2.

ACTION:

- a. With the above required turbine overspeed protection system otherwise inoperable, within 6 hours isolate the turbine from the steam supply.
- b. The provisions of Specification 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.8.1 The provisions of Specification 4.0.4 are not applicable.

4.3.8.2 The above required turbine overspeed protection system shall be demonstrated OPERABLE:

- a. At least once per 7 days by cycling each of the following valves from the running position and observing valve closure:

- ~~1. Four high pressure turbine control valves,~~
- 1. 2. Four low pressure turbine combined intermediate valves, and
- 2. 3. Four high pressure turbine stop valves.

- c. b. At least once per 18 months by performance of a CHANNEL CALIBRATION of the turbine overspeed protection instrumentation.

- d. e. At least once per 40 months by disassembling at least one of each of the above valves and performing a visual and surface inspection of all valve seats, disks and stems and verifying no unacceptable flaws or excessive corrosion. If unacceptable flaws or excessive corrosion are found, all other valves of that type shall be inspected.

- b. At least once per 31 days by cycling each of the four high pressure turbine control valves from the running position and observing valve closure.

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PLANT SYSTEMS

3/4.7.6 MAIN TURBINE BYPASS SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.6 The main turbine bypass system shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITION 1.

ACTION:

With the main turbine bypass system inoperable, restore the system to OPERABLE status within 1 hour or reduce THERMAL POWER to less than 25% of RATED THERMAL POWER within the next 4 hours.

SURVEILLANCE REQUIREMENTS

4.7.6 The main turbine bypass system shall be demonstrated OPERABLE:

- a. At least once per ³¹7 days by cycling each turbine bypass valve through at least one complete cycle of full travel, and
- b. At least once per 18 months by:
 1. Performing a system functional test which includes simulated automatic actuation and verifying that each automatic valve actuates to its correct position.
 2. Demonstrating TURBINE BYPASS SYSTEM RESPONSE TIME meets the following requirements when measured from the initial movement of the main turbine stop or control valve:
 - a) 80% of turbine bypass system capacity shall be established in ≤ 0.3 seconds.
 - b) Bypass valve opening shall start in ≤ 0.1 seconds.