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## INSTRUMENTATION

### 3/4.3.4 TURBINE OVERSPEED PROTECTION

#### LIMITING CONDITION FOR OPERATION

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

APPLICABILITY: MODES 1, 2\*, and 3\*.

ACTION:

- a. With one stop valve or one control valve per high pressure turbine steam lead inoperable and/or with one reheat stop valve or one reheat intercept valve per low pressure turbine steam lead inoperable, restore the inoperable valve(s) to OPERABLE status within 72 hours, or close at least one valve in the affected steam lead or isolate the turbine from the steam supply within the next 6 hours.
- b. With the above required overspeed protection system otherwise inoperable, with 6 hours isolate the turbine from the steam supply.

#### SURVEILLANCE REQUIREMENTS

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4.3.4.1 The provisions of Specification 4.0.4 are not applicable.

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

- a. At least once per 31 days by cycling each of the following valves through at least one complete cycle from the running position.
  1. Four high pressure throttle valves.
  2. Four high pressure governor valves.
  3. Six low pressure reheat stop valves.
  4. Six low pressure reheat intercept valves.
- b. At least once per 31 days by direct observation of the movement of each of the above valves through one complete cycle from the running position.
- c. At least once per 18 months by performance of a CHANNEL CALIBRATION on the turbine overspeed protection systems.
- d. 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 valve seats, disks and stems and verifying no unacceptable flaws or corrosion.
- e. At least once per 40 operating months by inspecting the installed light low pressure turbine discs, and at least once per 60 operating months by inspecting the installed heavy low pressure turbine discs.

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\*With any main steam isolation valve and/or any main steam line isolation valve bypass valve not fully closed.

## INSTRUMENTATION

### BASES

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3/4.3.3.10 This section has been deleted.

#### 3/4.3.3.11 EXPLOSIVE GAS MONITORING INSTRUMENTATION

This instrumentation includes provisions for monitoring (and controlling) the concentrations of potentially explosive gas mixtures in the WASTE GAS HOLDUP SYSTEM.

#### 3/4.3.4 TURBINE OVERSPEED PROTECTION

This specification is provided to ensure that the turbine overspeed protection instrumentation and the turbine speed control valves are OPERABLE and will protect the turbine from excessive overspeed. Protection from turbine excessive overspeed is required since excessive overspeed of the turbine could generate potentially damaging missiles which could impact and damage safety related components, equipment, or structures.

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ATTACHMENT B

## INDEX

### LIMITING CONDITION FOR OPERATION AND SURVEILLANCE REQUIREMENTS

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## INSTRUMENTATION

### 3/4.3/4. TURBINE OVERSPEED PROTECTION

#### LIMITING CONDITION FOR OPERATION

~~3.3.4 At least one turbine overspeed protection system shall be OPERABLE.~~

~~APPLICABILITY : MODES 1, 2\*, and 3\*.~~

#### ACTION

- ~~a- With one stop valve or one control valve per high pressure turbine steam lead inoperable and/or with one reheat stop valve or one reheat intercept valve per low pressure turbine steam lead inoperable, restore the inoperable valve(s) to OPERABLE status within 72 hours, or close at least one valve in the affected steam lead or isolate the turbine from the steam supply within the next 6 hours.~~
- ~~b- With the above required overspeed protection system otherwise inoperable, with 6 hours isolate the turbine from the steam supply.~~

#### SURVEILLANCE REQUIREMENTS

~~4.3.4.1 The provisions of Specification 4.0.4 are not applicable.~~

~~4.3.4.2 The above required turbine overspeed protection system shall be demonstrated OPERABLE.~~

- ~~a- At least once per 31 days by cycling each of the following valves through at least one complete cycle from the running position.
  - ~~1- Four high pressure throttle valves.~~
  - ~~2- Four high pressure governor valves.~~
  - ~~3- Six low pressure reheat stop valves.~~
  - ~~4- Six low pressure reheat intercept valves.~~~~
- ~~b- At least once per 31 days by direct observation of the movement of each of the above valves through one complete cycle from the running position.~~
- ~~c- At least once per 18 months by performance of a CHANNEL CALIBRATION on the turbine overspeed protection systems.~~
- ~~d- 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 valve seats, disks and stems and verifying no unacceptable flaws or corrosion.~~
- ~~e- At least once per 40 operating months by inspecting the installed light low pressure turbine discs, and at least once per 60 operating months by inspecting the installed heavy low pressure turbine discs.~~

~~\*With any main steam isolation valve and/or any main steam line isolation valve bypass valve not fully closed.~~

## INSTRUMENTATION

### BASES

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#### 3/4.3.3.11 EXPLOSIVE GAS MONITORING INSTRUMENTATION

This instrumentation includes provisions for monitoring (and controlling) the concentrations of potentially explosive gas mixtures in the WASTE GAS HOLDUP SYSTEM.

#### 3/4.3.4 TURBINE OVERSPEED PROTECTION

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