

ATTACHMENT 1

PLANT SYSTEMS

AUXILIARY FEEDWATER SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.1.2 At least three independent steam generator auxiliary feedwater pumps and associated flow paths shall be OPERABLE with:

- a. Two feedwater pumps, each capable of being powered from separate vital busses, and
- b. One feedwater pump capable of being powered from an OPERABLE steam supply system.

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

With one auxiliary feedwater pump inoperable, restore at least three auxiliary feedwater pumps (two capable of being powered from separate vital busses and one capable of being powered by an OPERABLE steam supply system) to OPERABLE status within 72 hours or be in HOT SHUTDOWN within the next 12 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.2 Each auxiliary feedwater pump shall be demonstrated OPERABLE:

- a. At least once per 31 days by:
 1. Verifying that the steam turbine driven pump develops a discharge pressure of ≥ 1500 psig on recirculation flow when the secondary steam supply pressure is greater than 750 psig.
 2. Verifying that each valve (manual, power operated or automatic) in the flow path that is not locked, sealed or otherwise secured in position, is in its correct position.

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SURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 18 months during shutdown by:
1. Verifying that each automatic valve in the motor driven pump flow path actuates to its correct position on a pump discharge pressure test signal.
 2. Verifying that each motor driven pump starts automatically upon receipt of each of the following test signals:
 - a) Loss of main feedwater pumps.
 - b) Safeguards sequence signal.
 - c) Steam Generator Water Level -- Low-Low from one steam generator.
 3. Verifying that the steam turbine driven pump starts automatically upon receipt of each of the following test signals:
 - a) Loss of offsite power.
 - b) Steam Generator Water Level -- Low-Low from two steam generators.

PLANT SYSTEMS

AUXILIARY FEED STORAGE TANK

LIMITING CONDITION FOR OPERATION

3.7.1.3 The auxiliary feed storage tank (AFST) shall be OPERABLE with a minimum contained volume of 200,000 gallons of water.

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

With the auxiliary feed storage tank inoperable, within 4 hours either:

- a. Restore the AFST to OPERABLE status or be in HOT SHUTDOWN within the next 12 hours, or
- b. Demonstrate the OPERABILITY of a demineralized water or a fire protection/domestic water storage tank as a backup supply to the auxiliary feedwater pumps and restore the auxiliary feed storage tank to OPERABLE status within 7 days or be in HOT SHUTDOWN within the next 12 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.3.1 The auxiliary feed storage tank shall be demonstrated OPERABLE at least once per 12 hours by verifying the water level is within its limits when the tank is the supply source for the auxiliary feedwater pumps.

4.7.1.3.2 A demineralized water storage tank shall be demonstrated OPERABLE at least once per 12 hours by verifying the tank contains \geq 200,000 gallons of water and by verifying proper alignment of valves for taking suction from this tank when it is the supply source for the auxiliary feedwater pumps.

4.7.1.3.3 A fire protection/domestic water storage tank shall be demonstrated OPERABLE at least once per 12 hours by verifying the tank contains \geq 200,000 gallons of water and by verifying proper alignment of valves for taking suction from this tank when it is the supply source for the auxiliary feedwater pumps.

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AUXILIARY FEEDWATER SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.1.2 At least three independent steam generator auxiliary feedwater pumps and associated flow paths shall be OPERABLE with:

- a. Two feedwater pumps, each capable of being powered from separate vital busses, and
- b. One feedwater pump capable of being powered from an OPERABLE steam supply system.

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

With one auxiliary feedwater pump inoperable, restore at least three auxiliary feedwater pumps (two capable of being powered from separate vital busses and one capable of being powered by an OPERABLE steam supply system) to OPERABLE status within 72 hours or be in HOT SHUTDOWN within the next 12 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.2 Each auxiliary feedwater pump shall be demonstrated OPERABLE:

- a. At least once per 31 days by:
 1. Verifying that each motor driven pump develops a discharge pressure of greater than or equal to 1275 psig on recirculation flow.]
 2. Verifying that the steam turbine driven pump develops a discharge pressure of greater than or equal to 1500 psig on recirculation flow when the secondary steam supply pressure is greater than 750 psig. The provisions of Specification 4.0.4 are not applicable.]
 3. Verifying that each non-automatic valve in the flow path that is not locked, sealed or otherwise secured in position, is in its correct position.]

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SURVEILLANCE REQUIREMENTS (Continued)

4. Verifying that each automatic valve in the flow path actuates to its correct position whenever the auxiliary feedwater system is placed in automatic control or when above 10% RATED THERMAL POWER.]
- b. At least once per 18 months during shutdown by:
1. Verifying that each automatic valve in the motor driven pump flow path actuates to its correct position on a pump discharge pressure test signal.
 2. Verifying that each motor driven pump starts automatically upon receipt of each of the following test signals:
 - a) Loss of main feedwater pumps.
 - b) Safeguards sequence signal.
 - c) Steam Generator Water Level -- Low-Low from one steam generator.
 3. Verifying that the steam turbine driven pump starts automatically upon receipt of each of the following test signals:
 - a) Loss of offsite power.
 - b) Steam Generator Water Level -- Low-Low from two steam generators.

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AUXILIARY FEED STORAGE TANK

LIMITING CONDITION FOR OPERATION

3.7.1.3 The auxiliary feed storage tank (AFST) shall be OPERABLE with a minimum contained volume of 200,000 gallons of water.

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

With the auxiliary feed storage tank inoperable, within 4 hours either:

- a. Restore the AFST to OPERABLE status or be in HOT SHUTDOWN within the next 12 hours, or
- b. Demonstrate the OPERABILITY of a demineralized water or a fire protection/domestic water storage tank as a backup supply to the auxiliary feedwater pumps and restore the auxiliary feed storage tank to OPERABLE status within 7 days or be in HOT SHUTDOWN within the next 12 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.3.1 The auxiliary feed storage tank shall be demonstrated OPERABLE at least once per 12 hours by verifying the water level is within its limits when the tank is the supply source for the auxiliary feedwater pumps.

4.7.1.3.2 A demineralized water storage tank shall be demonstrated OPERABLE at least once per 12 hours by verifying the tank contains greater than or equal to 200,000 gallons of water and by verifying proper alignment of valves for taking suction from this tank when it is the supply source for the auxiliary feedwater pumps.

4.7.1.3.3 A fire protection/domestic water storage tank shall be demonstrated OPERABLE at least once per 12 hours by verifying the tank contains greater than or equal to 200,000 gallons of water and by verifying proper alignment of valves for taking suction from this tank when it is the supply source for the auxiliary feedwater pumps.

4.7.1.3.4 The Service Water System shall be demonstrated capable of providing a water supply to the Auxiliary Feedwater System at least once per 12 months by verifying that the required spool-piece is on-site.]

ATTACHMENT 2

ENVIRONMENTAL QUALIFICATIONS OF
SAFETY-RELATED ELECTRICAL/CONTROLS EQUIPMENT

PSE&G SUBMITTALS FOR ENVIRONMENTAL QUALIFICATION

1. Letter, Mr. R. L. Mittl, PSE&G to MR. Olan D. Parr, NRC, dated 10/20/78 - submittal of listing of qualification documentation (FSAR Q7.35).
2. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 11/20/78 - submittal of main steam line break analysis (FSAR Q5.82).
3. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 1/4/79 - information on valve limit switches (FSAR Q7.35).
4. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 3/6/79 - submittal of information on the following: Qualification temperature, Barton transmitters, Rosemount transmitters, solenoid valves, limit switches, instrument panels/electrical connections (FSAR Q7.41), test reports for solenoid valves and limit switches.
5. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 3/16/79 - submittal of information on terminal blocks, cables, motor-operated valves, fan cooler motors (SER Open Item 8.4.8).
6. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 3/30/79 - submittal of revised listing of qualification documentation (FSAR Q7.30), information on fan cooler motors (SER Open Item 8.4.8).
7. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 4/12/79 - submittal of test reports for solenoid valves and instrument panels.
8. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 7/17/79 - submittal of test report for terminal blocks/enclosures.
9. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 8/7/79 - submittal of test report for American Insulated Wire cable.

10. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 8/28/79 - submittal of revised listing of qualification documentation (FSAR Q7.30).
11. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 10/23/79 - submittal of additional information on instrument panel testing, Barton transmitters, solenoid valves, electrical connections.
11. Letter, Mr. R. L. Mittl, PSE&G to Mr. Olan D. Parr, NRC, dated 5/22/80 - submittal of new summary listing of qualification documentation, information on Rosemount RTDs and Barton containment pressure transmitters.

PSE&G Submittals for NRC Bulletin 79-01B

1. March 7, 1980 - submittal of forms describing equipment/systems required to operate to mitigate an accident and/or shutdown the plant and evaluation forms concerning the qualification data for such equipment and systems (partial).
2. March 21, 1980 - submittal of additional forms listing equipment required to function under postulated accident conditions.
3. April 14, 1980 - submittal of evaluation forms concerning qualification data for steam generator instrumentation (partial).
4. June 4, 1980 - submittal of evaluation forms concerning qualification data for containment isolation system equipment (partial).