

PLANT SYSTEMS

SERVICE WATER SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.1.2 The service water system nuclear header shall be OPERABLE with at least three OPERABLE service water pumps.

APPLICABILITY: CONDITIONS 1, 2, 3, 4 and 5.

ACTION:

a. In CONDITION 1, 2, or 3:

1. With only two service water pumps OPERABLE, restore at least three pumps to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
2. With only one service water pump OPERABLE, restore at least two pumps to OPERABLE status within 72 hours and restore at least three pumps to OPERABLE status within 7 days from the time of the initial loss or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

b. In Condition 4 or 5:

1. With only one service water pump OPERABLE, restore at least two service water pumps to OPERABLE status within 7 days or declare the Core Spray System, the LPCI System, and the diesel generators inoperable and take the ACTION required by Specifications 3.5.3.1, 3.5.3.2, and 3.8.1.2.
2. With the Service Water System nuclear header inoperable, maintain the Unit No. 2 Service Water nuclear header OPERABLE with at least three Unit No. 2 Service water pumps OPERABLE and restore the Service Water System nuclear header to OPERABLE status within 14 days or declare the diesel generators inoperable and take the ACTION required by Specification 3.8.1.2.
3. With the Service Water System nuclear header inoperable, maintain the Service Water System conventional header OPERABLE with at least two service water pumps OPERABLE* and restore the Service Water System nuclear header to OPERABLE status within 14 days or declare the Core Spray System and LPCI System inoperable and take the ACTION required by Specification 3.5.3.1 and 3.5.3.2.

*See Special Test Exception 3.10.6.

SURVEILLANCE REQUIREMENTS

4.7.1.2 The service water system shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying that each valve (manual; power operated or automatic) servicing safety related equipment that is not locked, sealed, or otherwise secured in position, is in its correct position.
- b. At least once per 18 months during shutdown, by verifying that each automatic valve servicing safety related equipment actuates to its correct position on the appropriate ECCS actuation test signals.
- c. In CONDITION 4 or 5 with Service Water System nuclear header inoperable, verify that the Service Water System conventional header is lined up to supply cooling water to vital ECCS loads and that the other unit's nuclear header is lined up to supply cooling water for the diesel generators by verifying that each valve servicing the diesel generators that is not locked open is administratively controlled in its proper position.

SPECIAL TEST EXCEPTIONS

3/4 10.6 PLANT SERVICE WATER

LIMITING CONDITION FOR OPERATION

- 3.10.6 The service water pumps required to be OPERABLE per Specification 3.7.1.2b3 do not have to be operating to permit isolating and draining the service water nuclear header for maintenance provided that:
- a. The service water conventional header is lined up to supply cooling water to the required ECCS loads.
 - b. The draining/maintenance on the service water nuclear header will not affect the service water conventional system or lineup described in a. above.
 - c. Two dedicated qualified personnel are assigned to initiate the service water conventional header should any of the following occur:
 1. Any event occurs which requires ECCS actuation.
 2. Primary coolant temperature exceeds 180°F.
 3. A loss of off-site power occurs.

APPLICABILITY: CONDITIONS 4 and 5 with the nuclear header inoperable.

ACTION: With the requirements of the above specification not satisfied, restore the service water pumps to operable status per the requirements of Specification 3.7.1.2.

SURVEILLANCE REQUIREMENTS

- 4.10.6.1 Prior to securing all service water pumps, verify that the service water conventional header is lined up to supply cooling water for ECCS by verifying that each valve servicing safety related equipment that is not locked is administratively controlled in its proper position.
- 4.10.6.2 Every four hours, verify that the primary coolant temperature is less than or equal to 180°F.
- 4.10.6.3 Prior to securing the service water pumps and once per eight hours, verify two-way communications exist between the Control Room and the Service Water Building.

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LIMITING CONDITION FOR OPERATION

3.7.1.2 The service water system nuclear header shall be OPERABLE with at least three OPERABLE service water pumps.

APPLICABILITY: CONDITIONS 1, 2, 3, 4 and 5.

ACTION:

a. In CONDITION 1, 2, or 3:

1. With only two service water pumps OPERABLE, restore at least three pumps to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
2. With only one service water pump OPERABLE, restore at least two pumps to OPERABLE status within 72 hours and restore at least three pumps to OPERABLE status within 7 days from the time of the initial loss or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

b. In Condition 4 or 5:

1. With only one service water pump OPERABLE, restore at least two service water pumps to OPERABLE status within 7 days or declare the Core Spray System, the LPCI System, and the diesel generators inoperable and take the ACTION required by Specifications 3.5.3.1, 3.5.3.2, and 3.8.1.2.
2. With the Service Water System nuclear header inoperable, maintain the Unit No. 1 Service Water nuclear header OPERABLE with at least three Unit No. 1 Service water pumps OPERABLE and restore the Service Water System nuclear header to OPERABLE status within 14 days or declare the diesel generators inoperable and take the ACTION required by Specification 3.8.1.2.
3. With the Service Water System nuclear header inoperable, maintain the Service Water System conventional header OPERABLE with at least two service water pumps OPERABLE* and restore the Service Water System nuclear header to OPERABLE status within 14 days or declare the Core Spray System and LPCI System inoperable and take the ACTION required by Specifications 3.5.3.1 and 3.5.3.2.

*See Special Test Exception 3.10.5.

SURVEILLANCE REQUIREMENTS

4.7.1.2 The service water system shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying that each valve (manual; power operated or automatic) servicing safety related equipment that is not locked, sealed, or otherwise secured in position, is in its correct position.
- b. At least once per 18 months during shutdown, by verifying that each automatic valve servicing safety related equipment actuates to its correct position on the appropriate ECCS actuation test signals.
- c. In CONDITION 4 or 5 with Service Water System nuclear header inoperable, verify that the Service Water System conventional header is lined up to supply cooling water to vital ECCS loads and that the other unit's nuclear header is lined up to supply cooling water for the diesel generators by verifying that each valve servicing the diesel generators that is not locked open is administratively controlled in its proper position.

SPECIAL TEST EXCEPTIONS

3/4 10.5 PLANT SERVICE WATER

LIMITING CONDITION FOR OPERATION

3.10.5 The service water pumps required to be OPERABLE per Specification 3.7.1.2b3 do not have to be operating to permit isolating and draining the service water nuclear header for maintenance provided that:

- a. The service water conventional header is lined up to supply cooling water to the required ECCS loads.
- b. The draining/maintenance on the service water nuclear header will not affect the service water conventional system or lineup described in a. above.
- c. Two dedicated qualified personnel are assigned to initiate the service water conventional header should any of the following occur:
 1. Any event occurs which requires ECCS actuation.
 2. Primary coolant temperature exceeds 180°F.
 3. A loss of off-site power occurs.

APPLICABILITY: CONDITIONS 4 and 5 with the nuclear header inoperable.

ACTION: With the requirements of the above specification not satisfied, restore the service water pumps to operable status per the requirements of Specification 3.7.1.2.

SURVEILLANCE REQUIREMENTS

- 4.10.5.1 Prior to securing all service water pumps, verify that the service water conventional header is lined up to supply cooling water for ECCS by verifying that each valve servicing safety related equipment that is not locked is administratively controlled in its proper position.
- 4.10.5.2 Every four hours, verify that the primary coolant temperature is less than or equal to 180°F.
- 4.10.5.3 Prior to securing the service water pumps and once per eight hours, verify two-way communications exist between the Control Room and the Service Water Building.