

REACTOR COOLANT SYSTEM

REACTOR COOLANT GAS VENT SYSTEM

LIMITING CONDITION FOR OPERATION

3.4.10 The Reactor Coolant Gas Vent System shall be OPERABLE with:

- a. At least one of valves 2HV0296A or 2HV0296B capable of being powered from an emergency bus and providing a vent path from the reactor vessel head; and,
- b. At least one of valves 2HV0297A or 2HV0297B capable of being powered from an emergency bus and providing a vent path from the pressurizer steam space; and,
- c. At least one of valves 2HV0298, capable of being powered from an emergency bus and providing a vent path to the containment atmosphere, or 2HV0299, capable of being powered from an emergency bus and providing a vent path to the quench tank; and
- d. Valves 2HV0296A, 2HV0296B, 2HV0297A, 2HV0297B, 2HV0299 and 2HV0298 all closed.

APPLICABILITY: MODES 1, 2, 3 and 4

ACTION:

- a. With any of valves 2HV0296A, 2HV0296B, 2HV0297A or 2HV0297B inoperable, operation may continue provided that:
 - i) power is removed from the inoperable valve(s) within 4 hours; and,
 - ii) valves 2HV0299 and 2HV0298 are maintained closed and power is removed within 4 hours; and,
 - iii) the inoperable valve(s) is restored to OPERABLE status during the next COLD SHUTDOWN.
- b. With any of valves 2HV0299 or 2HV0298 inoperable, operation may continue provided that:
 - i) power is removed from the inoperable valve(s) within 4 hours; and,
 - ii) valves 2HV0296A, 2HV0296B, 2HV0297A and 2HV0297B are all maintained closed and power is removed within 4 hours; and

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- 111) the inoperable valve(s) is restored to OPERABLE status during the next COLD SHUTDOWN.
- c. The provisions of 3.0.4 are not applicable for entry into MODES 3, 2 and 1.

SURVEILLANCE REQUIREMENTS

4.4.10 Each reactor coolant system vent path shall be demonstrated OPERABLE at least once per 18 months by:

1. Verifying all manual isolation valves in each vent path are locked in the open position.
2. Cycling each valve in the vent path through at least one complete cycle of full travel from the control room during COLD SHUTDOWN or REFUELING.
3. Verifying flow through the reactor coolant vent system vent paths during venting during COLD SHUTDOWN.

Add the following to the BASES section:

REACTOR COOLANT SYSTEM

BASES

3/4.4.10 REACTOR COOLANT GAS VENT SYSTEM

Reactor coolant system gas vents are provided to exhaust noncondensable gases from the primary system that could inhibit natural circulation core cooling following a non-design bases accident. The OPERABILITY of at least one reactor coolant system vent path from the reactor vessel head and the pressurizer steam space ensures the capability exists to perform this function.

The design redundancy of the Reactor Coolant Gas Vent System serves to minimize the probability of inadvertent or irreversible actuation while ensuring that a single failure of a vent valve, or control system does not prevent isolation of the vent path.

The function, capabilities, and testing requirements of the Reactor Coolant Gas Vent System are consistent with the requirements of Item II.b.1 of NUREG-0737, "Clarification of TMI Action Plan Requirements," November 1980.

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ATTACHMENT "B"

REACTOR COOLANT SYSTEM

REACTOR COOLANT GAS VENT SYSTEM

LIMITING CONDITION FOR OPERATION

3.4.10 The Reactor Coolant Gas Vent System shall be OPERABLE with:

- a. At least one of valves 3HV0296A or 3HV0296B capable of being powered from an emergency bus and providing a vent path from the reactor vessel head; and,
- b. At least one of valves 3HV0297A or 3HV0297B capable of being powered from an emergency bus and providing a vent path from the pressurizer steam space; and,
- c. At least one of valves 3HV0298, capable of being powered from an emergency bus and providing a vent path to the containment atmosphere, or 3HV0299, capable of being powered from an emergency bus and providing a vent path to the quench tank; and
- d. Valves 3HV0296A, 3HV0296B, 3HV0297A, 3HV0297B, 3HV0299 and 3HV0298 all closed.

APPLICABILITY: MODES 1, 2, 3 and 4

ACTION:

- a. With any of valves 3HV0296A, 3HV0296B, 3HV0297A or 3HV0297B inoperable, operation may continue provided that:
 - i) power is removed from the inoperable valve(s) within 4 hours; and,
 - ii) valves 3HV0299 and 3HV0298 are maintained closed and power is removed within 4 hours; and,
 - iii) the inoperable valve(s) is restored to OPERABLE status during the next COLD SHUTDOWN.
- b. With any of valves 3HV0299 or 3HV0298 inoperable, operation may continue provided that:
 - i) power is removed from the inoperable valve(s) within 4 hours; and,
 - ii) valves 3HV0296A, 3HV0296B, 3HV0297A and 3HV0297B are all maintained closed and power is removed within 4 hours; and

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LIMITING CONDITION FOR OPERATION

- 111) the inoperable valve(s) is restored to OPERABLE status during the next COLD SHUTDOWN.
- c. The provisions of 3.0.4 are not applicable for entry into MODES 3, 2 and 1.

SURVEILLANCE REQUIREMENTS

4.4.10 Each reactor coolant system vent path shall be demonstrated OPERABLE at least once per 18 months by:

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2. Cycling each valve in the vent path through at least one complete cycle of full travel from the control room during COLD SHUTDOWN or REFUELING.
3. Verifying flow through the reactor coolant vent system vent paths during venting during COLD SHUTDOWN.

Add the following to the BASES section:

REACTOR COOLANT SYSTEM

BASES

3/4.4.10 REACTOR COOLANT GAS VENT SYSTEM

Reactor coolant system gas vents are provided to exhaust noncondensable gases from the primary system that could inhibit natural circulation core cooling following a non-design bases accident. The OPERABILITY of at least one reactor coolant system vent path from the reactor vessel head and the pressurizer steam space ensures the capability exists to perform this function.

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The function, capabilities, and testing requirements of the Reactor Coolant Gas Vent System are consistent with the requirements of Item II.b.1 of NUREG-0737, "Clarification of TMI Action Plan Requirements," November 1980.