

EMERGENCY CORE COOLING SYSTEMS

3/4.5.2 ECCS - SHUTDOWN

LIMITING CONDITION FOR OPERATION

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3.5.2 At least two of the following four subsystems shall be OPERABLE:

- a. Two core spray subsystems (CSS) with a subsystem comprised of:
  1. One OPERABLE CSS pump, and
  2. An OPERABLE flow path capable of taking suction from at least one of the following water sources and transferring the water through the spray sparger to the reactor vessel:
    - a) From the suppression pool, or
    - b) When the suppression pool water level is less than the limit or is drained, from the condensate storage tank containing at least 100,000 available gallons of water, equivalent to an indicated level of 11.5 feet.
- b. Two low pressure coolant injection (LPCI) subsystems with a subsystem comprised of:
  1. At least one OPERABLE LPCI pump, and
  2. An OPERABLE flow path capable of taking suction from the suppression pool and transferring the water to the reactor vessel.

APPLICABILITY: OPERATIONAL CONDITION 4 and 5\*.

ACTION:

- a. With one of the above required subsystem(s) inoperable, restore at least two subsystem(s) to OPERABLE status within 4 hours or suspend all operations with a potential for draining the reactor vessel.
- b. With both of the above required subsystems inoperable, suspend CORE ALTERATIONS and all operations with a potential for draining the reactor vessel. Restore at least one subsystem to OPERABLE status within 4 hours or establish SECONDARY CONTAINMENT INTEGRITY within the next 8 hours.

\*The ECCS is not required to be OPERABLE provided that the reactor vessel head is removed, the cavity is flooded, the spent fuel pool gates are removed, and water level is maintained within the limits of Specification 3.9.8 and 3.9.9.

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EMERGENCY CORE COOLING SYSTEMS

3/4.5.3 SUPPRESSION POOL

SUPPRESSION POOL WATER LEVEL

LIMITING CONDITION FOR OPERATION

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3.5.3.1 The suppression pool shall be OPERABLE:

- a. In OPERATIONAL CONDITIONS 1, 2, and 3 with a contained water volume of at least 76,870 cu. ft, equivalent to a level of -6 inches gauge.
- b. In OPERATIONAL CONDITIONS 4 and 5\* with a contained volume of at least 76,870 cu. ft, equivalent to a level of -6 inches gauge, except that the suppression pool level may be less than the limit or may be drained provided that:
  1. No operations are performed that have a potential for draining the reactor vessel,
  2. The reactor mode switch is locked in the Shutdown or Refuel position,
  3. The condensate storage tank contains at least 100,000 available gallons of water, equivalent to an indicated level of 11.5 feet, and
  4. The core spray system is OPERABLE per Specification 3.5.2 with an OPERABLE flow path capable of taking suction from the condensate storage tank and transferring the water through the spray sparger to the reactor vessel.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 4, and 5\*.

ACTION:

- a. In OPERATIONAL CONDITION 1, 2, or 3 with the suppression pool water level less than the above limit, restore the water level to within the limit within 1 hour or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. In OPERATIONAL CONDITION 4 or 5\* with the suppression pool water level less than the above limit or drained and the above required conditions not satisfied, suspend CORE ALTERATIONS and all operations that have a potential for draining the reactor vessel and lock the reactor mode switch in the Shutdown position. Establish SECONDARY CONTAINMENT INTEGRITY within 8 hours.

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\*The suppression pool is not required to be OPERABLE provided that the reactor vessel head is removed, the cavity is flooded, the spent fuel pool gates are removed, and the water level is maintained within the limits of Specifications 3.9.8 and 3.9.9.