

3.5 EMERGENCY CORE COOLING SYSTEMS (ECCS) AND REACTOR CORE ISOLATION COOLING (RCIC) SYSTEM

3.5.1 ECCS — Operating

LCO 3.5.1 Each ECCS injection/spray subsystem and the Automatic Depressurization System (ADS) function of six safety/relief valves shall be OPERABLE.

APPLICABILITY: MODE 1, MODES 2 and 3, except high pressure coolant injection (HPCI) and ADS valves are not required to be OPERABLE with reactor steam dome pressure \leq 150 psig.

ACTIONS

| CONDITION | REQUIRED ACTION | COMPLETION TIME |
|---|---|---------------------------------|
| <p>A. One low pressure ECCS injection/spray subsystem inoperable.</p> <p><u>OR</u></p> <p>One LPCI pump in both LPCI subsystems inoperable.</p> | <p>A.2 Restore low pressure ECCS injection/spray subsystem(s) to OPERABLE status.</p> | 7 days |
| <p>B. Required Action and associated Completion Time of Condition A not met.</p> | <p>B.1 Be in MODE 3.</p> <p><u>AND</u></p> <p>B.2 Be in MODE 4.</p> | <p>12 hours</p> <p>36 hours</p> |
| <p>C. HPCI System inoperable.</p> | <p>C.1 Verify by administrative means RCIC System is OPERABLE.</p> <p><u>AND</u></p> <p>C.2 Restore HPCI System to OPERABLE status.</p> | <p>1 hour</p> <p>14 days</p> |

(continued)

ACTIONS (continued)

| CONDITION | REQUIRED ACTION | COMPLETION TIME |
|---|--|---------------------------------|
| <p>D. HPCI System inoperable.</p> <p><u>AND</u></p> <p>Condition A entered.</p> | <p>D.1 Restore HPCI System to OPERABLE status.</p> <p><u>OR</u></p> <p>D.2 Restore low pressure ECCS injection/spray subsystem to OPERABLE status.</p> | <p>72 hours</p> <p>72 hours</p> |
| <p>E. One ADS valve inoperable.</p> | <p>E.1 Restore ADS valve to OPERABLE status.</p> | <p>14 days</p> |
| <p>F. One ADS valve inoperable.</p> <p><u>AND</u></p> <p>Condition A entered.</p> | <p>F.1 Restore ADS valve to OPERABLE status.</p> <p><u>OR</u></p> <p>F.2 Restore low pressure ECCS injection/spray subsystem to OPERABLE status.</p> | <p>72 hours</p> <p>72 hours</p> |
| <p>G. Required Action and associated Completion Time of Condition C, D, E, or F not met.</p> <p><u>OR</u></p> <p>Two or more ADS valves inoperable.</p> | <p>G.1 Be in MODE 3.</p> <p><u>AND</u></p> <p>G.2 Reduce reactor steam dome pressure to ≤ 150 psig.</p> | <p>12 hours</p> <p>36 hours</p> |

(continued)

ACTIONS (continued)

| CONDITION | REQUIRED ACTION | COMPLETION TIME |
|--|-----------------------------|--------------------|
| <p>H. Two or more low pressure ECCS injection/spray subsystems inoperable for reasons other than Condition A.</p> <p><u>OR</u></p> <p>HPCI System and one or more ADS valves inoperable.</p> | <p>H.1 Enter LCO 3.0.3.</p> | <p>Immediately</p> |

SURVEILLANCE REQUIREMENTS

| SURVEILLANCE | FREQUENCY |
|--|----------------|
| <p>SR 3.5.1.1 Verify, for each ECCS injection/spray subsystem, the piping is filled with water from the pump discharge valve to the injection valve.</p> | <p>31 days</p> |

(continued)