

## CONTAINMENT SYSTEMS

### 3/4.6.2 DEPRESSURIZATION SYSTEMS

#### SUPPRESSION CHAMBER<sup>#</sup> LIMITING CONDITION FOR OPERATION

- 3.6.2.1 The suppression chamber shall be OPERABLE with:
- a. The pool water:
    1. Volume between 131,900 ft<sup>3</sup> and 128,800 ft<sup>3</sup>, equivalent to a level between 26 ft. 10 in. and 26 ft. 2½ in., and a
    2. Maximum average temperature of 100°F\* during OPERATIONAL CONDITION 1 or 2, except that the maximum average temperature may be permitted to increase to:
      - a) 105°F,## during testing which adds heat to the suppression chamber.
      - b) 110°F with THERMAL POWER less than or equal to 1% of RATED THERMAL POWER.
      - c) 120°F with the main steam line isolation valves closed following a scram.
  - b. Drywell-to-suppression chamber bypass leakage less than or equal to 10% of the acceptable  $A/\sqrt{k}$  design value of 0.03 ft<sup>2</sup>.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

#### ACTION:

- a. With the suppression chamber water level outside the above limits, restore the water level to within the limits 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 1 or 2 with the suppression chamber average water temperature greater than or equal to 100°F, restore the average temperature to less than or equal to 100°F within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours, except, as permitted above:
  1. With the suppression chamber average water temperature greater than 105°F during testing which adds heat to the suppression chamber, stop all testing which adds heat to the suppression chamber and restore the average temperature to less than or equal to 100°F within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
  2. With the suppression chamber average water temperature greater than 110°F, place the reactor mode switch in the Shutdown position and operate at least one residual heat removal loop in the suppression pool cooling mode.
  3. With the suppression chamber average water temperature greater than 120°F, depressurize the reactor pressure vessel to less than 200 psig within 12 hours.

#See Specification 3.5.3 for ECCS requirements.

##See Special Test Exception 3.10.8.

X Until October 1, 1988 the 100°F limit is increased to 110°F. Action b does not apply; and is replaced by Action f.

## CONTAINMENT SYSTEMS

### LIMITING CONDITION FOR OPERATION (Continued)

#### ACTION: (Continued)

- c. With one suppression chamber water level instrumentation channel inoperable and/or with one suppression pool water temperature instrumentation division inoperable, restore the inoperable instrumentation to OPERABLE status within 7 days or verify suppression chamber water level and/or temperature to be within the limits at least once per 12 hours by local indication.
- d. With both suppression chamber water level instrumentation channels inoperable and/or with both suppression pool water temperature instrumentation divisions inoperable, restore at least one inoperable water level channel and one water temperature division to OPERABLE status within 8 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- e. With the drywell-to-suppression chamber bypass leakage in excess of the limit, restore the bypass leakage to within the limit prior to increasing reactor coolant temperature above 210°F.

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#### SURVEILLANCE REQUIREMENTS

4.6.2.1 The suppression chamber shall be demonstrated OPERABLE:

- a. By verifying the suppression chamber water volume to be within the limits at least once per 24 hours.
- b. At least once per 24 hours in OPERATIONAL CONDITION 1 or 2 by verifying the suppression chamber average water temperature to be less than or equal to 100°F, except:
  1. At least once per 5 minutes during testing which adds heat to the suppression chamber, by verifying the suppression chamber average water temperature less than or equal to 105°F.
  - 2.\* At least once per 60 minutes when suppression chamber average water temperature is greater than 100°F, by verifying suppression chamber average water temperature less than or equal to 110°F and THERMAL POWER less than or equal to 1% of RATED THERMAL POWER.
  3. At least once per 30 minutes following a scram with suppression chamber average water temperature greater than or equal to 100°F, by verifying suppression chamber average water temperature less than or equal to 120°F.

\* Until October 1, 1988 this surveillance requirement is not applicable.

\*\*110 °F until October 1, 1988

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f. In OPERATIONAL CONDITION 1 or 2:

1. With the suppression chamber average water temperature greater than 105°F during testing which adds heat to the suppression chamber, stop all testing which adds heat to the suppression chamber.
2. With the suppression chamber average water temperature greater than 110°F, place the reactor mode switch in the Shutdown position and operate at least one residual heat removal loop in the suppression pool cooling mode.
3. With the suppression chamber average water temperature greater than 120°F, depressurize the reactor pressure vessel to less than 200 psig within 12 hours.

CONTAINMENT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c. By verifying at least two suppression chamber water level instrumentation channels and at least 14 suppression pool water temperature instrumentation channels, 7 in each of two divisions, OPERABLE by performance of a:

1. CHANNEL CHECK at least once per 24 hours,
2. CHANNEL FUNCTIONAL TEST at least once per 31 days, and
3. CHANNEL CALIBRATION at least once per 18 months,

with the water level and temperature alarm setpoint for:

1. High water level  $\leq$  26 ft. 8 in.
2. Low water level  $\geq$  26 ft. 4 in.
3. High temperature  $\leq$  100°F \*\*

- d. By conducting drywell-to-suppression chamber bypass leak tests and verifying that the  $A/\sqrt{k}$  calculated from the measured leakage is within the specified limit when drywell-to-suppression chamber bypass leak tests are conducted:

1. At least once per 18 months at an initial differential pressure of 1.5 psi, and
2. At the first refueling outage and then on the schedule required for Type A Overall Integrated Containment Leakage Rate tests by Specification 4.6.1.2.a; at an initial differential pressure of 5 psi,

except that, if the first two 5 psi leak tests performed up to that time result in:

1. A calculated  $A/\sqrt{k}$  within the specified limit, and
2. The  $A/\sqrt{k}$  calculated from the leak tests at 1.5 psi is  $\leq$  20% of the specified limit,

then the leak tests at 5 psi may be discontinued.

\*\* 105°F until October 1, 1988

# CONTAINMENT SYSTEMS

## 3/4.5.2 DEPRESSURIZATION SYSTEMS

### SUPPRESSION CHAMBER#

#### LIMITING CONDITION FOR OPERATION

3.6.2.1 The suppression chamber shall be OPERABLE with:

a. The pool water:

1. Volume between 131,900 ft<sup>3</sup> and 128,900 ft<sup>3</sup>, equivalent to a level between 26 ft 10 in. and 26 ft 2½ in., and a
2. Maximum average temperature of 100°F\* during OPERATIONAL CONDITION 1 or 2, except that the maximum average temperature may be permitted to increase to:
  - a) 105°F, during testing which adds heat to the suppression chamber.
  - b) 110°F with THERMAL POWER less than or equal to 1% of RATED THERMAL POWER.
  - c) 120°F with the main steam line isolation valves closed following a scram.

b. Drywell-to-suppression chamber bypass leakage less than or equal to 10% of the acceptable  $A/\sqrt{k}$  design value of 0.03 ft<sup>2</sup>.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, and 3.

#### ACTION:

a. With the suppression chamber water level outside the above limits, restore the water level to within the limits 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 1 or 2 with the suppression chamber average water temperature greater than or equal to 100°F, restore the average temperature to less than or equal to 100°F within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours, except, as permitted above:

1. With the suppression chamber average water temperature greater than 105°F during testing which adds heat to the suppression chamber, stop all testing which adds heat to the suppression chamber and restore the average temperature to less than or equal to 100°F within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
2. With the suppression chamber average water temperature greater than 110°F, place the reactor mode switch in the Shutdown position and operate at least one residual heat removal loop in the suppression pool cooling mode.
3. With the suppression chamber average water temperature greater than 120°F, depressurize the reactor pressure vessel less than 200 psig within 12 hours.

\*See Specification 3.5.3 for ECCS requirements.

\* until October 1, 1988 the 100°F limit is increased to 110°F.  
Action b does not apply and is replaced by Action f.

CONTAINMENT SYSTEMS

LIMITING CONDITION FOR OPERATION (Continued)

ACTION: (Continued)

- c. With one suppression chamber water level instrumentation channel inoperable and/or with one suppression pool water temperature instrumentation division inoperable, restore the inoperable instrumentation to OPERABLE status within 7 days or verify suppression chamber water level and/or temperature to be within the limits at least once per 12 hours by local indication.
- d. With both suppression chamber water level instrumentation channels inoperable and/or with both suppression pool water temperature instrumentation divisions inoperable, restore at least one inoperable water level channel and one water temperature division to OPERABLE status within 8 hours or be in at least HOT SHUTDOWN within the next 12 hours or in COLD SHUTDOWN within the following 24 hours.
- e. With the drywell-to-suppression chamber bypass leakage in excess of the limit, restore the bypass leakage to within the limit prior to increasing reactor coolant temperature above 200°F.

INSERT →

SURVEILLANCE REQUIREMENTS

4.6.2.1 The suppression chamber shall be demonstrated OPERABLE:

- a. By verifying the suppression chamber water volume to be within the limits at least once per 24 hours.
- b. At least once per 24 hours in OPERATIONAL CONDITION 1 or 2 by verifying the suppression chamber average water temperature to be less than or equal to 100°F, except:
  1. At least once per 5 minutes during testing which adds heat to the suppression chamber, by verifying the suppression chamber average water temperature less than or equal to 105°F.
  - 2.\* At least once per 60 minutes when suppression chamber average water temperature is greater than 100°F, by verifying suppression chamber average water temperature less than or equal to 110°F and THERMAL POWER less than or equal to 1% of RATED THERMAL POWER.
  3. At least once per 30 minutes following a scram with suppression chamber average water temperature greater than or equal to 100°F, by verifying suppression chamber average water temperature less than or equal to 120°F.

\* Until October 1, 1988 this surveillance requirement is not applicable.

\*\* 110 °F until October 1, 1988

f. In OPERATIONAL CONDITION 1 or 2:

1. With the suppression chamber average water temperature greater than 105°F during testing which adds heat to the suppression chamber, stop all testing which adds heat to the suppression chamber.
2. With the suppression chamber average water temperature greater than 110°F, place the reactor mode switch in the Shutdown position and operate at least one residual heat removal loop in the suppression pool cooling mode.
3. With the suppression chamber average water temperature greater than 120°F, depressurize the reactor pressure vessel to less than 200 psig within 12 hours.



## CONTAINMENT SYSTEMS

### SURVEILLANCE REQUIREMENTS (Continued)

- c. By verifying at least 2 suppression chamber water level instrumentation channels and at least 14 suppression pool water temperature instrumentation channels, 7 in each of two divisions, OPERABLE by performance of a:
1. CHANNEL CHECK at least once per 24 hours,
  2. CHANNEL FUNCTIONAL TEST at least once per 31 days, and
  3. CHANNEL CALIBRATION at least once per 18 months,
- with the water level and temperature alarm setpoint for:
1. High water level  $\leq$  26 ft 8 in.
  2. Low water level  $\geq$  26 ft 4 in.
  3. High temperature  $\leq$  100°F \*\*
- d. By conducting drywell-to-suppression chamber bypass leak tests and verifying that the  $A/\sqrt{k}$  calculated from the measured leakage is within the specified limit when drywell-to-suppression chamber bypass leak tests are conducted:
1. At least once per 18 months at an initial differential pressure of 1.5 psi, and
  2. At the first refueling outage and then on the schedule required for Type A Overall Integrated Containment Leakage Rate tests by Specification 4.6.1.2.a., at an initial differential pressure of 5 psi,
- except that, if the first two 5 psi leak tests performed up to that time result in:
1. A calculated  $A/\sqrt{k}$  within the specified limit, and
  2. The  $A/\sqrt{k}$  calculated from the leak tests at 1.5 psi is  $\leq$  20% of the specified limit.
- then the leak tests at 5 psi may be discontinued.

\*\* 105°F until October 1, 1988



ATTACHMENT C

TECHNICAL SPECIFICATION CHANGE REQUEST

LASALLE COUNTY STATION UNITS 1 and 2

SUPPLEMENTAL SUPPORTING INFORMATION