

ATTACHMENT 4

PROPOSED TECHNICAL SPECIFICATION AMENDMENTS FOR CATAWBA

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS

4.5.2 Each ECCS subsystem shall be demonstrated OPERABLE:

- a. At least once per 12 hours by verifying that the following valves are in the indicated positions with power to the valve operators removed:

Valve Number	Valve Function	Valve Position
NI-162A	Cold Leg Recirc.	Open
NI-121A	Hot Leg Recirc.	Closed
NI-152B	Hot Leg Recirc.	Closed
NI-183B	Hot Leg Recirc.	Closed
NI-173A	Residual Heat Removal Pump Disch.	Open
NI-178B	Residual Heat Removal Pump Disch.	Open
NI-100B	Safety Injection Pump Suction from Refueling Water Storage Tank	Open
NI-147B	Safety Injection Pump Mini-flow	Open

- b. At least once per 31 days by:

- 1) Verifying that the ECCS piping is full of water by venting the ECCS pump casings and accessible discharge piping high points, and
- 2) Verifying that each valve (manual, power-operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position, is in its correct position.

- c. By a visual inspection which verifies that no loose debris (rags, trash, clothing, etc.) is present in the containment which could be transported to the containment pump and cause restriction of the pump suctions during LOCA conditions. This visual inspection shall be performed:

- 1) For all accessible areas of the containment prior to establishing CONTAINMENT INTEGRITY, and
- 2) Of the areas affected within containment at the completion of each containment entry when CONTAINMENT INTEGRITY is established.

- d. At least once per 18 months by:

- 1) Verifying automatic ~~isolation and~~ interlock action of the residual heat removal system from the Reactor Coolant System by ensuring that:

a) ~~with~~ With a simulated or actual Reactor Coolant System pressure signal greater than or equal to 425 psig the interlocks prevent the valves from being opened, ~~and~~

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- ~~b) With a simulated or actual Reactor Coolant System pressure signal less than or equal to 660 psig the interlocks will cause the valves to automatically close.~~
- 2) A visual inspection of the containment sump and verifying that the subsystem suction inlets are not restricted by debris and that the sump components (trash racks, screens, etc.) show no evidence of structural distress or abnormal corrosion.
- e. At least once per 18 months, during shutdown, by:
- 1) Verifying that each automatic valve in the flow path actuates to its correct position on Safety Injection and Containment Sump Recirculation test signals, and
 - 2) Verifying that each of the following pumps start automatically upon receipt of a Safety Injection test signal:
 - a) Centrifugal charging pump,
 - b) Safety Injection pump, and
 - c) Residual heat removal pump.
- f. By verifying that each of the following pumps develops the indicated differential pressure when tested pursuant to Specification 4.0.5:
- 1) Centrifugal charging pump \geq 2223 psid,
 - 2) Safety Injection pump \geq 1341 psid, and
 - 3) Residual heat removal pump \geq 165 psid.
- g. By verifying the correct position of each electrical and/or mechanical stop for the following ECCS throttle valves:
- 1) Within 4 hours following completion of each valve stroking operation or maintenance on the valve when the ECCS subsystems are required to be OPERABLE, and
 - 2) At least once per 18 months.
- | <u>Centrifugal
Charging Pump
Injection Throttle
Valve Number</u> | <u>Safety Injection Throttle
Valve Number</u> |
|--|---|
| NI-14 | NI-164 |
| NI-16 | NI-166 |
| NI-18 | NI-168 |
| NI-20 | NI-170 |

~~**This surveillance need not be performed until prior to entering HOT SHUTDOWN following the Unit One first refueling.~~