

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

f. By verifying that each of the following pumps develops the indicated discharge pressure on recirculation flow when tested pursuant to Specification 4.0.5:

- 1. Centrifugal charging pump  $\geq$  2400 psig
- 2. Safety Injection pump  $\geq$  1425 psig
- 3. Residual heat removal pump  $\geq$  165 psig

g. By verifying the correct position of each of 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.
- 2. At least once per 18 months.

<u>HPSI System</u> <u>Valve Number</u>	<u>LPSI System</u> <u>Valve Number</u>
21 SJ 16	21 SJ 138
22 SJ 16	22 SJ 138
23 SJ 16	23 SJ 138
24 SJ 16	24 SJ 138
	21 SJ 143
	22 SJ 143
	23 SJ 143
	24 SJ 143

h. By performing a flow balance test, during shutdown, following completion of modifications to the ECCS subsystems that alter the subsystem flow characteristics and verifying that: \*

- 1. For safety injection lines, with a single pump running:
  - a) The sum of the injection line flow rates, excluding the line with the highest flow rate, is  $\geq$  463 gpm, and
  - b) The total pump flow rate is  $\leq$  650 gpm.
- 2. For centrifugal charging pump lines, with a single pump running:
  - a) The sum of the injection line flow rates, excluding the line with the highest flow rate, is  $\geq$  346 gpm, and
  - b) The total pump flow rate is  $\leq$  550 gpm. \*\*

- i. The automatic isolation and interlock function of the RHR System shall be verified within the seven (7) days prior to placing the RHR System in service for cooling of the Reactor Coolant System. This shall be done by verifying that valves RH1 and RH2 close upon insertion of a test signal corresponding to a reactor coolant pressure of 580 psig or less, and that, with a test signal corresponding to a reactor coolant pressure of 580 psig or greater, that the valves cannot be opened.

\* (Footnote from page 3/4 5-6)

Flow balance testing pursuant to Specification 4.5.2.h shall be performed the first time the unit is in COLD SHUTDOWN after December 15, 1981...

\*\* (Footnote to page 3/4 5-6 item h.2)

The maximum limit (i.e.  $<550$  gpm) on ECCS Centrifugal Charging Pump Flow is waived on a one time basis for the period commencing January 4, 1990 and ending upon initial entry into Mode 5 during the Unit 2 5th Refueling Outage.