ATTACHMENT 1

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

f. By performing a flow balance test during shutdown following completion of modifications to the ECCS subsystem that alter the subsystem flow characteristics and verifying the following flow rates:

Boron Injection System Single Pump*	Safety Injection System Single Pump**
Loop 1 Boron Injection Flow 117.5 gpm	Loop 1 and 4 Cold Leg Flow $\geq$ 300 gpm
Loop 2 Boron Injection Flow 117.5 gpm	Loop 2 and 3 Cold Leg Flow $\geq$ 300 gpm
Loop 3 Boron Injection Flow 117.5 gpm	
Loop 4 Boron Injection Flow 117.5 gpm	

* The flow rate in each Boron Injection (BI) line should be adjusted to provide 117.5 gpm (nominal) flow into each loop. Under these conditions there is zero miniflow and 80 gpm simulated RCP seal injection line flow. The actual flow in each BI line may deviate from the nominal so long as the difference between the highest and lowest flow is 10 gpm or less and the total flow to the four branch lines does not exceed 500 gpm. Minimum flow (total flow) required is 345.8 gpm to the three most conservative (lowest flow) branch lines.

** Total SIS (single pump) flow, including miniflow, shall not exceed 650 gpm.

ATTACHMENT 2

BASIS FOR TECHNICAL SPECIFICATION CHANGE REQUEST

The basis for changing the Technical Specification is that we have performed a system test and demonstrated that the East pump would deliver 499 gpm to the Reactor Coolant System (RCS) injection points with an additional 80 gpm simulated reactor coolant pump seal injection flow. In addition, we have performed an evaluation of pump operation at 580 gpm total flow under accident conditions, and that evaluation has shown that there would be adequate Net Positive Suction Head (NPSH) for proper pump operation at this flow. On this basis, we conclude that with the system in its minimum resistance configuration, the ECCS East charging pump will be operable in a manner so as to preclude total pump flow from exceeding runout conditions. It should be noted that in arriving at the above conclusion, the runout condition is with the pump in the alignment delivering 500 gpm to the RCS injection points and an additional 80 gpm simulated reactor coolant pump seal injection flow.

With regard to the West pump, our justification is that both pumps are of similar design and have similar NPSH requirements. If the West pump were allowed to deliver 500 gpm to the injection points, we would anticipate that there would be no problem regarding runout based upon our East pump test results, design similarity, and our NPSH evaluation.

Since the only item of concern with this change request is maximum ECCS charging pump flow, and since both pumps deliver the minimum required ECCS flow with the proper flow split between injection points, we also conclude that this requested change will not affect the minimum flow or flow split requirements as defined in the basis for this Technical Specification.

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]