

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

August 13, 1980

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attn: Mr. Steven A. Varga, Chief
Operating Reactors Branch 1
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Serial No. 705
NO/FHT:jmj
Docket No. 50-281
License No. DPR-37

Dear Mr. Denton:

SURRY POWER STATION UNIT NO. 2
IN-SERVICE TESTING OF PRESSURE ISOLATION CHECK VALVES

Your letters of December 17, 1979, and February 25, 1980, identified a concern about in-service inspection of isolation check valves that perform a pressure boundary function and requested implementation of a program to insure valve integrity. Our letters, Serial 030/121779, dated February 7, 1980, and Serial 154/022580, dated March 14, 1980, stated that approved ISI acoustical monitoring techniques would be used to verify proper valve operation. We also said that due to the lack of test connections on these valves, we were evaluating the implementation of a design change to install test connections. We committed to performing tests on these valves prior to startup from the current outage. This letter is to notify you that these tests have been successfully completed and to provide you with an updated status of our inspection program.

A thorough study of the leakage monitoring techniques in use at Surry Power Station as well as a review of the safety implications involved, is presently being conducted. As this study is not yet complete, it is not possible to delineate long term measures that are to be taken. However, determination was made that the most prudent measure for assuring valve integrity and reliability prior to Unit II startup was through visual inspection. Attachment 1 depicts the system configuration for the valves of interest. The necessary disassembly and inspection of all six cold leg LHSI check valves, (2-SI-79, 2-SI-82, 2-SI-85, 2-SI-241, 2-SI-242, and 2-SI-243) and three hot leg check valves (2-SI-88, 2-SI-91, 2-SI-94) was, therefore, conducted and revealed the valves to be in good operating order (i.e. good seating, freedom to operate and mechanically sound). The remaining check valves (2-SI-228, 229, 226, and 227) were air leak tested with no back leakage evident. With conclusion of the above mentioned study, specific long term measures will be provided.

Approved

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If you have any questions or require additional information, please contact us.

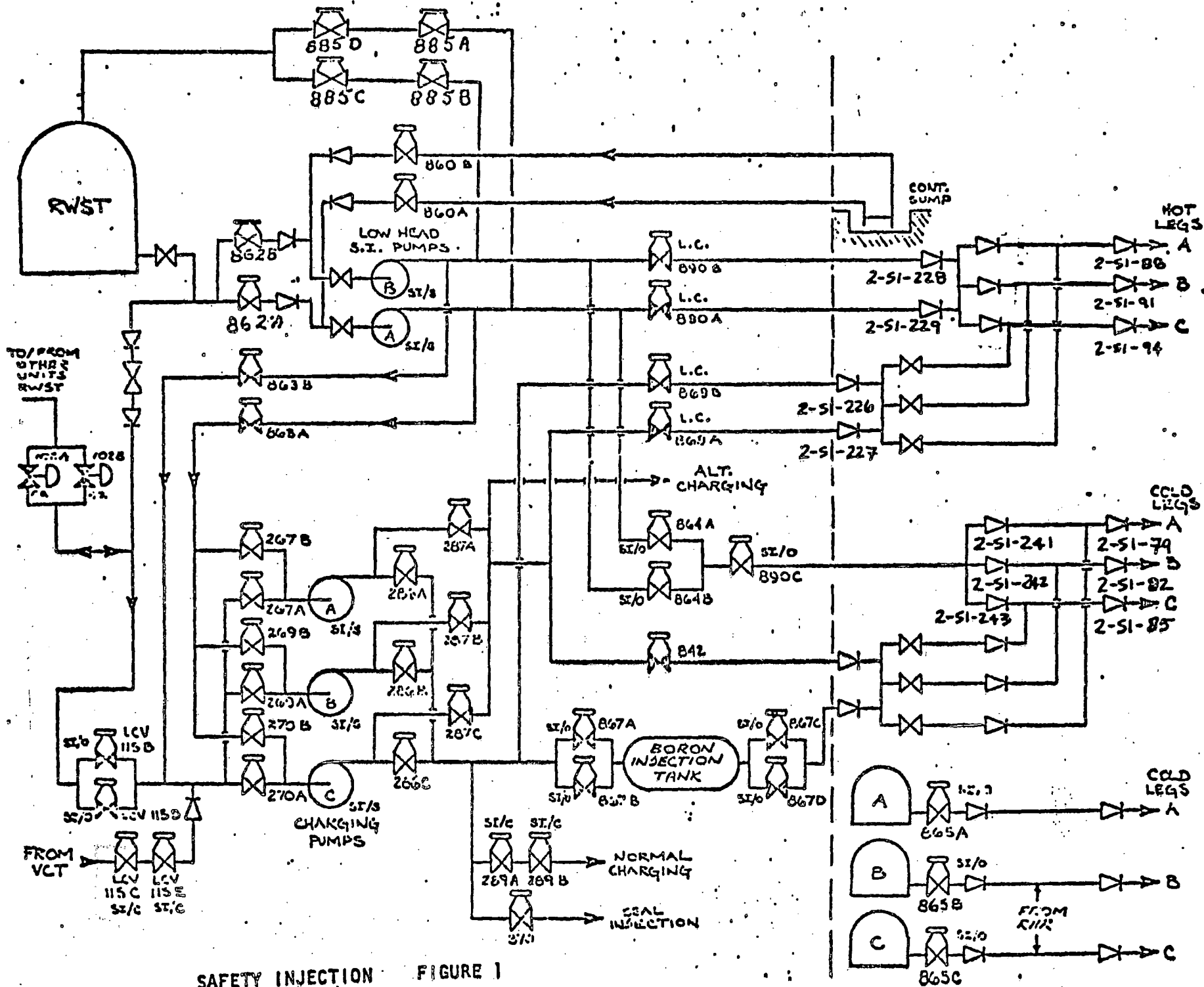
Very truly yours,



B. R. Sylvia
Manager - Nuclear
Operations and Maintenance

Attachment

cc: Mr. James P. O'Reilly



SAFETY INJECTION FIGURE 1

ATTACHMENT