



Portland General Electric Company

Bart D. Withers Vice President

July 3, 1985

Trojan Nuclear Plant
Docket 50-344
License NPF-1

Mr. Hugh Thompson, Director
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington DC 20555

Dear Mr. Thompson:

Safety Parameter Display System

Our letters of November 23, 1983 and February 15, 1985 provided a schedule of July 1985 for implementation of the Trojan Safety Parameter Display System (SPDS). The SPDS is only one of several functions performed by the Technical Support Center (TSC) computer. The SPDS portion of the TSC computer will be placed into operation for the forthcoming operating cycle, Cycle 8. There remain, however, some open items/issues that require action. For the most part, these items can be accomplished while the system is on-line with a minimal effect on the operation of the system. These open items are described in the attachment to this letter.

Sincerely,

B. D. Withers for

Bart D. Withers
Vice President
Nuclear

Attachment

c: Mr. Lynn Frank, Director
State of Oregon
Department of Energy

Mr. John B. Martin
Regional Administrator, Region V
U.S. Nuclear Regulatory Commission

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TSC Computer Open Items

1. Central Processing Unit

In 1984 a fourth central processing unit (CPU) was installed to improve the time response of the TSC Computer. The vendor has been unable to reliably operate the TSC Computer with all four CPUs on-line simultaneously. The SPDS will operate with three CPUs but the time response is slower when multiple users make demands on the system. Vendor representatives are working closely with PGE engineers to resolve this open item.

2. Input Verification

Due to the many TSC Computer hardware problems experienced within the last two years, including the CPU problem described above, a point-by-point input verification has not been completed. However, most SPDS parameters have been favorably compared with control board indications in the control room. It is expected that a detailed and complete input verification will be performed by March 1, 1986 for those items that can be checked during Plant operation, and by startup from the 1986 refueling outage for the others.

3. Human Factors Review

PGE is developing an ongoing human factors review program. The TSC Computer was evaluated under the Control Room Design Review for control room layout only. The remaining human factors considerations for the TSC Computer will be reviewed under the ongoing human factors review program. This human factors review will be complete by December 1, 1985.

4. SPDS Availability

Due to numerous system startup problems within the last two years, the availability of the SPDS has been poor. It is felt that the hardware problems, with the exception of the CPU problem described above, have been satisfactorily resolved. The availability of the TSC Computer will be monitored and reassessed during the forthcoming operating cycle.

5. As-Built Findings

During an as-built walkdown, it was discovered that the installation of 37 SPDS inputs (out of a total of approximately 450) was not properly completed. Parameters which are affected and the corresponding number of inputs for each are listed below. These discrepancies will be corrected by December 31, 1985 for items which do not affect plant operations. Remaining items will be complete by the startup from the 1986 refueling outage.

<u>Parameters</u>	<u>Number of Inputs</u>
Pressurizer Safety Valve Acoustic Monitor	1
RWST Level	1
Recirc Sump Level	1
Containment Temperature	4
Valve Position Indications	
RWST to Containment Spray	2
Recirc Sump to Containment Spray	2
Containment Sump Recirc Suction	2
Pressurizer PORV	2
Pressurizer PORV Block Valves	2
Main Steam Line PORVs	4
Main Feedwater Isolation to Steam Generator	4
Steam Dump Valves	12

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