



Portland General Electric Company

David W. Cockfield Vice President, Nuclear

December 28, 1989

Trojan Nuclear Plant  
Docket 50-344  
License NPF-1

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington DC 20555

Dear Sirs:

Anticipated Transient Without Scram (ATWS)  
Mitigating System Actuation Circuitry (AMSAC)

By letters dated April 13, 1988, October 3, 1988, and October 31, 1989 Portland General Electric Company specified certain commitments for the design of AMSAC. Unless superseded in one of the subsequent letters, commitments made in these letters continue to be valid. The following statements provide clarification of the commitments made:

1. Regarding diversity, there is no power supply for the 1E section of the isolators used in AMSAC, so no 1E power supplies are required. The non-1E sections of the isolators are powered from non-1E sources.
2. Whenever the C20 limit is referenced, the actual source of the signal will be directly from the turbine first-stage pressure transmitter and not from the output of the Hagan System. This assures diversity.
3. Operating and maintenance bypasses are continuously indicated in the Control Room using the "AMSAC TROUBLE" annunciator. The operator would be required to go to a back panel to distinguish which bypass was generating the alarm, or use the alarm video terminal or sequence of events printout.
4. The testability commitment in the April 13, 1988 letter remains valid. The comments in the October 31, 1989 letter regarding testability refer to exact procedural development to implement the testability commitment.
5. The time delay values listed in the October 3, 1988 letter should be considered nominal (not exact) until design work is complete.

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6. The logic shown in Figure 1 of the April 13, 1988 letter is correct, but test switches and alarm points are only preliminary. Final test switch and alarm locations will support the testability commitments made.

Sincerely,

*T. Walt for*

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

Mr. David Stewart-Smith  
State of Oregon  
Department of Energy

Mr. R. C. Barr  
NRC Resident Inspector  
Trojan Nuclear Plant