



General Electric Company  
125 Curtner Avenue, San Jose, CA 95125

March 23, 1993

Docket No. STN 52-001

Chet Poslusny, Senior Project Manager  
Standardization Project Directorate  
Associate Directorate for Advanced Reactors  
and License Renewal  
Office of the Nuclear Reactor Regulation

Subject: **Submittal Supporting Accelerated ABWR Review Schedule - Chapter 18  
Issue Resolution**

Dear Chet:

Enclosed are proposed wording for two Chapter 18 issues based on the GE/NRC March 22, 1993 conference call.

Please provide a copy of this transmittal to Clare Goodman.

Sincerely,

Jack Fox  
Advanced Reactor Programs

cc: Norman Fletcher (DOE)  
Keith Gregoire (GE)

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March 23, 1993

To: Clare Goodman

From: K. E. Gregoire/M. A. Ross <sup>KEG</sup>

Based on what we perceived as agreement during yesterdays telecon, we are sending you our proposed wording for two issue resolutions.

1. The following is our suggested wording for COL Action Item 18.6-1:

Evaluate the necessity for providing local valve position indication (VPI) for all valves in the following categories and placing those evaluation records in the HFE Issue Tracking System:

- 1) all power-operated valves (e.g., motor, hydraulic and pneumatic).
- 2) all large manual valves (i.e., 2 inches or greater).
- 3) small manual valves (i.e., less than 2 inches) which are important to safe plant operations.

The actual method of incorporation of this and the other COL action items into the SSAR will be provided in a Chapter 18 markup which we will transmit to you on or before April 5, 1993.

2. The following is our suggested wording for Article VIII.1.d of SSAR Appendix 18E:

The integration of HSI equipment with each other, with the operating personnel and with the plant and emergency operating technical procedures shall be evaluated through the conduct of dynamic task performance testing. The dynamic task performance testing and evaluations shall be performed over the full scope of the integrated HSI design using dynamic HSI prototypes (i.e., prototypical HSI equipment which is dynamically driven by real time plant simulation computer models). In the event that the particular HSI design implementation under consideration is referenced to a previous HSI design for which dynamic task performance test and evaluation results are available, those existing results, along with the results of limited scope dynamic task performance tests which address the areas of difference between the two subject HSI designs, may be used to satisfy this requirement. The methods for defining the scope and application of the dynamic HSI prototype, past test results and other evaluation tools shall be documented in the implementation plan. The dynamic task performance tests and evaluations shall have as their objectives:

- (i) Confirmation that the identified critical functions can be achieved using integrated HSI design,

(ii) Confirmation that the HSI design and configuration can be operated using the established Main Control Room staffing levels,

(iii) Confirmation that the plant and emergency operating technical procedures, of the scope as defined in Article VII.1.b of the Table 18E.2-1, provide direction for completing the identified tasks associated with normal, abnormal and emergency operations,

(iv) Confirmation that the time dependent and interactive (e.g., display format selection) aspects of the HSI equipment performance allow for task accomplishment,

(v) Confirmation that the allocation of functions are sufficient to enable task accomplishment, and

(vi) Confirmation that the integrated HSI design implementation is consistent with accepted HFE practices and principles.