



April 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 - DFSEER COL  
**Action Item 16-1**

Dear Chet:

Enclosed is the updated version of Section 16.0 and 16.1 addressing COL Action Item 16-1.

Please provide a copy of this transmittal to Pete Hearn.

Sincerely,

Jack Fox  
Advanced Reactor Programs

cc: Norman Fletcher (DOE)  
Cal Tang (GE)

*See attached dist*

*ZZZZ 1/1*

## 16.0 Technical Specifications

The NRC Policy Statement (Federal Register, Vol. 52, No.25, February 6, 1987) recognizes that:

"The purpose of Technical Specifications is to impose conditions or limitations upon reactor operation necessary to obviate the possibility of an abnormal situation or event giving rise to an immediate threat to the public health and safety by establishing those conditions of operation which cannot be changed without prior Commission approval and by identifying those features which are of controlling importance to safety."

This set of proposed Technical Specifications establish these conditions and limitations for the ABWR. This set of technical specifications is intended to be used as a guide in the development of plant specific sets of technical specifications for plants whose license applications reference the ABWR standard plant.

The NRC Policy Statement criteria stated below has been used to identify all structures, systems, and parameters for which Limiting Conditions for Operation (LCOs) have been included in the ABWR Technical Specifications:

1. Installed instrumentation that is used to detect, and indicate in the control room, a significant abnormal degradation of the reactor coolant pressure boundary.
2. A process variable that is an initial condition of a Design Basis Accident (DBA) or Transient Analyses that either assumes the failure of or presents a challenge to the integrity of a fission product barrier.
3. A structure, system or component that is part of the primary success path and which functions or actuates to mitigate a Design Basis Accident or Transient that either assumes the failure of or presents a challenge to the integrity of a fission product barrier.
4. Structures, systems, and components which operating experience and probabilistic risk assessment have generally shown to be important to public health and safety.

The content of the ABWR Technical Specifications meets the 10CFR50.36, "Technical Specifications", requirements and is consistent with the Standard Technical Specification for BWRs, NUREGs 1433 and 1434, Revision 0, dated September 28, 1992 to the maximum extent possible. This submittal replaces the previously submitted Chapter 16 in Amendment 9 in its entirety and has been restructured in accordance with NUREGs 1433 and 1434, Revision 0.

## 16.1 COL License Information

This section outlines the information required to be provided by the COL applicant to complete the Technical Specifications for application to a specific project.

### 16.1.1 COL Information Required for Plant Specific Technical Specifications

In cases where the detailed design, equipment selection, or other efforts are required to establish the information to be specified in Technical Specifications, “[ ]” has been indicated. The COL applicant will provide the required information for items indicated in Table 16.1.1-1. Refer to specific items in the Technical Specifications for detailed information required.

**Table 16.1.1-1 COL Information Required for Technical Specifications**

Item	Information Required
SR 3.1.3.4	Control rod scram time
Table 3.1.4-1	Control rod scram times
Figure 3.1.7-1	Sodium pentaborate solution temperature/ concentration requirements
LCO 3.2.3	Applicability of LCO based on specific fuel design
LCO Section 3.3	Allowable values for all instrumentation technical specifications in Section 3.3 LCOs
LCO 3.3.8.1	LCO and associated bases for specific design
LCO 3.3.8.2	LCO and associated bases for specific design
LCO 3.4.1	Option for minimum number of RIPs for operation
LCO 3.4.7	Number of RIPs in operation for hot shutdown
LCO 3.4.8	Number of RIPs in operation for cold shutdown
Figure 4.1-1	Site and Exclusion Area Boundaries
Figure 4.1-2	Low Population Zone
Section 5	Administrative Controls