

Enclosure 2

MFN 15-052

GEH Response to Item #28: Fukushima Recommendation 9.3 – Emergency Preparedness

ABWR DCD DRAFT Revision 6 Markups

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Table 1.8-21 Industrial Codes and Standards* Applicable to ABWR (Continued)

Code or Standard Number	Year	Title
[H-46855B	1979	Human Engineering Requirements for Military Systems, Equipment and Facilities] ⁽⁵⁾
[HDBK-217	Latest Edition	Reliability Prediction of Electronic Equipment] ⁽³⁾
[HDBK-251	Latest Edition	Reliability/Design: Thermal Applications] ⁽³⁾
[HDBK-759A	1981	Human Factors Engineering Design for Army Material] ⁽⁵⁾
STD-282	1956	Filter Units, Protective Clothing Gas-Mask Components and Related Products: Performance-Test Methods
[STD-461C	1987	Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference] ⁽³⁾⁽⁴⁾
[STD-462	1967	Measurement of Electromagnetic Interference Characteristics] ⁽³⁾⁽⁴⁾
[STD-1472D	1989	Human Engineering Design Criteria for Military Systems, Equipment and Facilities] ⁽⁵⁾
[STD-1478	1991	Task Performance Analysis] ⁽⁵⁾
Others		
ASCE 7	1988	Minimum Design Loads for Buildings and Other Structures
ERDA 76-21	1976	Testing of Ventilation Systems, Section 9 of Industrial Ventilation Systems
[IEC 801-2	1991	Electronic Capability for Industrial-Process Measurement and Control Equipment] ⁽³⁾
[IEC 880	1986	Software for Computers in the Safety Systems of Nuclear Power Stations] ⁽³⁾⁽⁴⁾
[IEC 964	1988	Design for Control Rooms of Nuclear Power Plants, Bureau Control
NEI 12-01	2012	Guideline for Assessing Beyond Design Basis Accident Response Staffing and Communications Capabilities
[ISO 7498	1984	Open Systems Interconnection-Basic Reference Model, as the Data Link Layer and Physical Layer] ⁽³⁾
OSHA 1910.179	1990	Overhead and Gantry Cranes
NEI 12-02	2012	Industry Guidance for Compliance with NRC Order EA-12-051, "To Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation"
TEMA C	1978	Standards of Tubular Exchanger Manufacturers Association
UL-44	1983	Rubber-Insulated Wires and Cables
UL-489	1991	Molded-Case Circuit Breakers and Circuit Breaker Enclosures
UL-845	1988	Standard for Safety Motor Control Centers - Low Voltage Circuit Breakers
--	--	Crane Manufacturers Association of America, Specification No. 70

**Table 1.9-1 Summary of ABWR Standard Plant
COL License Information (Continued)**

Item No.	Subject	Subsection
12.7	Operational Considerations	12.7.3.2
12.8	Requirements of 10CFR70.24	12.3.7.3
12.9	Radiation Protection Program	12.5.3.1
12.10	Compliance With Para. 50.34(f)(xxvii) of 10CFR50 and NUREG-0737 Item III D 3.3	12.5.3.2
13.1	13.2a Staffing and Communications Capabilities	13.3.1.2
13.2	Emergency Plans	13.3.1.1
13.2a	Review and Audit	13.4.1
13.3	Plant Operating Procedures Development Plan	13.5.3.1
13.4	Emergency Procedures Development	13.5.3.2
13.5	Implementation of the Plan	13.5.3.3
13.6	Procedures Included in Scope of Plan	13.5.3.4
13.7	Physical Security Interfaces	13.6.3
14.1	Other Testing	14.2.13.1
14.2	Test Procedures/Startup Administrative Manual	14.2.13.2
14.3	Not Used	14.2.13.3
15.1	Anticipated Operational Occurrences (AOO)	15.0.5.1
15.2	Operating Limits	15.0.5.2
15.3	Design Basis Accidents	15.0.5.3
15.4	Radiological Effects of MSIV Closure	15.2.10.1
15.5	Mislocated Fuel Bundle Accident	15.4.11.1
15.6	Misoriented Fuel Bundle Accident	15.4.11.2
15.7	Iodine Removal Credit	15.6.7.1
15.8	Not Used	
15.9	Radiological Consequences of Non-Line Break Accidents	15.7.6.1
16.1	COL Information Required for Plant Specific Technical Specifications	16.1.1
17.1	QA Programs For Construction And Operation	17.0.1.1
17.2	Policy and Implementation Procedures for D-RAP	17.3.13.1
17.3	D-RAP Organization	17.3.13.2
17.4	Provision for O-RAP	17.3.13.3
18.1	HSI Design Implementation Process	18.8.1
18.2	Number of Operators Needing Controls Access	18.8.2

13.3 Emergency Planning

Emergency planning is not within the scope of the ABWR design. However, there are design features, facilities, functions, and equipment necessary to support emergency planning. The design features in the ABWR Standard Plant scope include the technical support center (TSC) and the operational support center (OSC), which are described in Table 13.3-1. The emergency operations facility (EOF), also described in Table 13.3-1, is beyond the scope of the ABWR design and is addressed as COL license information in Subsection 19A.3.4 relative to the 50.34(f)(2)(XXV) requirement. Additional ABWR design considerations pertaining to emergency planning are contained in Table 13.3.-1. The COL applicant shall provide emergency plans in accordance with 10CFR50.33(g) and 52.79(d). See Subsection 13.3.1.1 for COL license information.

13.3.1 COL License Information

13.3.1.1 Emergency Plans

The COL applicant shall provide emergency plans in accordance with 10CFR50.33(g) and 52.79(d). (See Section 13.3)

NEI 12-01 "Guideline for Assessing Beyond Design Basis Accident Response Staffing and Communications Capabilities" (Reference 13.3-1) shall be used to assess staff and communications capabilities to respond to a beyond design basis event for Emergency Planning. The required assumptions for the event shall be:

- all on-site unit(s) affected
- extended loss of AC power
- impeded access to the unit(s).

13.3.1.2 Staffing and Communications Capabilities

Perform an assessment as described in NEI 12-01 (Reference 13.3-1) to assess staff and communications capabilities needed to respond to a beyond design basis event.

13.3.2 References

13.3-1 NEI 12-01, Guideline for Assessing Beyond Design Basis Accident Response Staffing and Communications Capabilities, NEI, May 2012.