

Enclosure 2

MFN 15-053 Supplement 2

GEH Supplemental Response #2 to RAI 19-9

ABWR DCD Revision 5 Markups

IMPORTANT NOTICE REGARDING CONTENTS OF THIS DOCUMENT Please Read Carefully

The information contained in this document is furnished solely for the purpose(s) stated in the transmittal letter. The only undertakings of GEH with respect to information in this document are contained in the contracts between GEH and its customers or participating utilities, and nothing contained in this document shall be construed as changing that contract. The use of this information by anyone for any purpose other than that for which it is intended is not authorized; and with respect to any unauthorized use, GEH makes no representation or warranty, and assumes no liability as to the completeness, accuracy, or usefulness of the information contained in this document.

3H.6 Summary of Key Structural Design Features

An assessment of the effects on the ABWR for the beyond design basis impact of a large, commercial aircraft has been performed in accordance with 10 CFR 50.150(a). A summary of the assessment can be found in Appendix 19G.

This appendix describes the key structural design features of the ABWR that were identified in that assessment.

- (1) Structural configuration of Spent Fuel Pool (SFP) within Reactor Building precludes direct strike on SFP, and structural design of SFP insures integrity of SFP to maintain water.
- (2) Structural configuration of primary containment (RCCV) within Reactor Building precludes direct strike on containment, and structural design of RCCV insures that RCCV is not perforated.
- (3) Shield blocks over drywell head ~~to be~~ **are** designed to fully resist secondary ~~impact~~ **impacts** from concrete debris, aircraft wreckage, and falling crane components to protect integrity of drywell head. **The reactor cavity shield blocks are shown in Figure 3H.1-23.**
- (4) ~~Exterior~~ **interior partition** walls on 1F (Figure 1.2-8) and 2F (Figure 1.2-9) will be thickened to ~~1200mm~~ and strengthened with additional reinforcement to limit physical damage to ~~exterior wall~~ **interior partition walls.**
- (5) Reinforced Concrete Sliding Barriers will be provided for the 6 large openings on 1F (Figure 1.2-8) to limit physical damage to exterior wall.
- (6) Protective awnings will be provided for the 3 EDG HVAC exhausts on 2F (Figure 1.2-9) to limit physical damage to exterior wall.
- (7) Protective external vestibules will be provided for the 5 single entry doors on 1F (Figure 1.2-8) to limit physical damage to exterior wall.

- (8) Control Building Annex exterior walls running in the North-South direction are made of reinforced concrete and are at least 600mm thick.
- (9) Service Building exterior walls running in the North-South direction in total are made of reinforced concrete and are at least 600mm thick.