

Enclosure 1

MFN 15-050

GEH Response to Item #4 – Maximum Groundwater Level

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NRC- Suggested Design Changes Item #4 – Maximum Groundwater Level

Address the significance of design basis maximum groundwater level in the hydrology section and its allowable margin if any, identify where this parameter is used, and if possible, set the design basis maximum groundwater level at site grade.

GEH Response:

Groundwater level is used in determining the shear wave and compression wave velocity of soil at soil sites, which are used in the performance of the soil structure interaction analysis. It is also used in determining the at-rest soil pressure and hydrostatic pressure on buildings below grade exterior walls. Changing the DCD groundwater level would impact the analyses presented in ABWR DCD Appendices 3A and 3H.

As discussed in the face to face meeting on May 7, 2015; GEH will add the basis for the current groundwater level of 0.6m below grade to the DCD.

The ABWR DCD rev 5 Section 2.0 will be modified as follows:

Added subsection 2.0.2;

2.0.2 References

2.0.2-1 Electric Power Research Institute, "Advanced Light Water Reactor Utility Requirements Document," Revision 11, April 2012.

Revised Table 2.0-1 to add the same footnote mark for Maximum Ground Water Level and Maximum Flood (or Tsunami) Level.

Revised the third footnote of Table 2.0-1 to read: "As defined in Table 1.2-6 of Volume II of Reference 2.0.2-1".

Impact on DCD:

The DCD Tier 2 Section 2.0 is revised as shown. The ABWR DCD Rev 5 marked up pages are provided in Enclosure 2.