

7.0 Instrumentation and Control Systems

7.5.2.1 *Post Accident Monitoring System*

In a letter dated August 25, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15237A192), the applicant proposed to add spent fuel pool (SFP) level instruments that conform with applicable guidance specified in the Japan Lesson-Learned Project Directorate-Interim Staff Guidance (JLD-ISG)-2012-03, Revision 0, "Compliance with Order EA-12-051, Reliable Spent Fuel Pool Instrumentation" (ADAMS Accession No. ML12221A339), which endorses with exceptions and clarifications the methodologies described in the Nuclear Energy Institute (NEI) industry guidance document NEI 12-02, Revision 1, "Industry Guidance for Compliance with NRC Order EA-12-051, To Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation" (ADAMS Accession No. ML122400399). This change to the design of SFP instruments resulted in changes to the Advanced Boiling-Water Reactor (ABWR) Design Control Document (DCD) Tier 2, Chapter 7, Section 7.5.2.1, "Post Accident Monitoring System," which incorporated safety-related spent fuel pool instrumentation to permit operators to monitor the SFP water level after an accident and to take corrective action, as necessary.

The proposed change will also result in combined license (COL) applicants being responsible for implementing the procedures and personnel training for the SFP safety-related instrumentation. These elements are specified as part of the applicants proposed COL License Information Item 7.5.3.1, "Spent Fuel Pool Level Instruments," in the ABWR DCD Revision 6.

In addition, this change resulted in changes to the following ABWR DCD Sections:

- Tier 1, Subsection 2.6.2, "Fuel Pool Cooling and Cleanup System," including Figure 2.6.2 and Table 2.6.2
- Tier 2, Chapter 1, Tables 1.8-21 and 1.8-22

The staff review of these changes and other changes associated with the new SFP instrumentation is provided in Section 22.2 of this SER supplement.