

NRR-PMDAPEm Resource

From: Willoughby, Paul [Paul.Willoughby@nexteraenergy.com]
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To: Wyman, Stephen
Subject: Response to Request for Clarification - Seabrook ESEL Items for FLEX Strategy
Attachments: Response to NRC ESEL Question 060415.docx

Steve

Please see the attached response to the NRC request for clarification regarding the Seabrook ESEL list.

Paul

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NRC Question

The following clarification questions are raised in the context of the NRC evaluation of the ESEP submittals only and licensees' responses will be reviewed by NRC staff only to the extent the use of this information affects the elements and outcomes of the ESEP evaluation. As many licensees have used information from their ongoing SPRA analyses, the current review will not evaluate methods or results as they pertain to the SPRA. They will be reviewed later at the time of SPRA review.

1. It appears that ESEL items for RCS inventory control/long-term sub-criticality were selected based on the alternate strategy (RWST). Provide clarification for using the alternate strategy, or confirm that all primary strategy SSCs are included in the ESEL (e.g., Boric Acid Tank, Rapid boration valve CS-V426). If SSCs are added to the ESEL, please provide results per ESEP guidance (e.g., HCLPF analysis results).

Response

The primary strategy for inventory control with SEPS available is to use the Charging system aligned to the Refueling Water Storage Tank (RWST). The primary boration strategy with SEPS available is to use the Boric Acid Storage tanks (BATs), transfer pump, rapid boration valve (CS-V-426), into the suction of a Charging pump. The primary strategy for inventory control and boration with SEPS not available is to use the portable FLEX high pressure pump aligned to the BATs for discharge into the RCS. The alternate strategy with SEPS not available would use the RWST as the suction source. The alternate RWST strategy components were included in the ESEL due to the fact that the RWST flowpath and components were already required to be included as support systems for the SEPS available strategy. In that scenario, the Charging pump, flowpath, and components are listed in the ESEL for inventory control.