



PSEG/NRC Pre-Submittal Meeting

Containment Fan Coil Unit Allowed Outage Time

March 30, 2015



PSEG
Nuclear LLC

Agenda

Overview of proposed change

Background

Purpose of license amendment request

Scope of license amendment request

Schedule

Overview of Proposed Change

Extend allowed outage time for one or two inoperable containment fan coil units (CFCUs) to 14 days

- No change to design basis containment response
- No change to dose analyses
 - No change to system design or response to postulated events

System design

- Post-accident containment heat removal capability provided by two separate systems
 - Containment spray
 - Containment fan cooling system
- Five CFCUs installed
 - Minimum 1,300 gpm service water to each CFCU
- Three CFCUs in operation with single containment spray train capable of maintaining post-accident containment temperature and pressure below design basis values
- Available design margin in CFCU heat removal capability
 - Total CFCU heat removal in containment analysis of record based on heat removal capability of two CFCUs

Current Technical Specification requirements

- Five containment cooling fans shall be OPERABLE
- With one or two containment cooling fans inoperable
 - Restore inoperable cooling fan(s) to OPERABLE status within 7 days
- With three or more containment cooling fans inoperable
 - Restore at least three cooling fans to OPERABLE status within 1 hour

Extend allowed outage time for one or two inoperable CFCUs to 14 days

- Reduce risk associated with shutting down to respond to emergent issues without significant change in at-power risk
- Reduce unnecessary burden
 - Operational flexibility to allocate resources to more safety-significant aspects

Traditional Engineering Assessment

- Adequate defense-in-depth maintained
 - At least three CFCUs verified operational
 - Containment spray operational
 - 10 CFR 50.65 (a)(4) used to plan maintenance
- Safety margins not affected
- Continued monitoring under the M-rule program and PSEG performance and predictive monitoring programs

Risk Assessment

- Applicable guidance and criteria
 - RG 1.174, Rev. 2
 - RG 1.200, Rev. 2
 - RG 1.177, Rev. 1
- Quantitative analyses for internal events and flood
 - CDF and LERF
- Qualitative analyses for fire and external events
- Uncertainty addressed using latest draft of NUREG-1855 and supporting EPRI documents

Proposed Schedule

Submit LAR by 3Q 2016

Request normal NRC review