



PSEG Pre-Submittal Meeting with NRC, January 24, 2018

Hope Creek Emergency Diesel Generator (EDG) Technical Specification Action



PSEG
Nuclear LLC

Meeting Purpose

- Describe future license amendment request
- Establish common understanding of scope of request
- Establish a common understanding of schedule
- Obtain NRC feedback

Current Licensing Basis

- With A or B Emergency Diesel Generator (EDG) inoperable, TS 3/4.8.1.1 Action b.2:
 - a) Restore inoperable EDG within 72 hours, or
 - b) Verify Salem Unit 3 gas turbine generator (GTG) available within 72 hours and once per 12 hours thereafter and restore inoperable EDG within 14 days.
- For planned or emergent maintenance

Proposed Change

- Remove Salem Unit 3 (gas turbine generator) from TS 3/4.8.1.1 Action b.2.b and replace with portable diesel generators.
- No changes to allowed outage times (AOTs).
- For planned or emergent maintenance

Background

- Hope Creek Station Blackout Licensing Basis
 - Four hour coping duration
- Amendment No. 188 (November 2011), ML110610501
 - Approval Extended A and B EDG AOTs to 14 days, provided Salem Unit 3 verified available.
- Salem Unit 3
 - Required as defense-in-depth
 - Assumed to be unavailable in the base model used to develop risk metrics for extended AOT
 - Able to start and run all 4.16 KV motors attached to typical 4.16 kV 1E station bus
 - Three hours to supply power to 1E bus

Planned Alternate AC Source for Extended AOT

- Portable EDGs maintained onsite
- 3 x 1500kW Rated EDGs
 - Greater than the HC 4.16kV 1E 60 minute load requirements
 - Sufficient capacity to carry all LOOP loads to bring unit to cold shutdown.
- Three hours to supply power to 1E bus
 - Consistent with current licensing basis
- Availability verified within 30 days

License Amendment Request Scope

- Assess conformance of proposed alternate AC source to NUREG-0800, Branch Technical Position 8-8, “Onsite Emergency Diesel Generators (EDGs) and Offsite Power Sources Allowed Outage Time Extensions”
- No changes to risk-informed allowed outage times
- For planned or emergent maintenance

Precedent

- Browns Ferry extended the Emergency Diesel Generator (EDG) Allowed Outage Time (AOT), ML11227A258
- Two Temporary Diesel Generators (TDGs) with paralleled output to supply power to any of the eight engineered safety feature (ESF) buses (4.16 kV Shutdown Boards) via the 4.16 kV Tie Bus.
- The TDGs would supply power to only one ESF bus at a time, providing an alternate supply of AC power that could be used to bring a unit to cold shutdown, if required.

Schedule

- Submit by March 30, 2018
- Request review per normal NRC timeline