Salem/Hope Creek License Renewal
Presentation to the NRC
March 16, 2009

PSEG Nuclear LLC

Agenda

Welcome - Carl Fricker

Introductions - Carl Fricker

Purpose of the Meeting - Carl Fricker

Overview of Salem & Hope Creek License Renewal Applications (LRA's) Preparation - Greg Sosson

Environmental Reports - Christine Neely

Closing Comments - Carl Fricker

Purpose of the meeting

Review the status and schedule of the Salem and Hope Creek License Renewal Applications preparations

Discuss potential options for the NRC reviews that can take advantage of the many common programs and common elements of the Applications

Objectives for LRA's

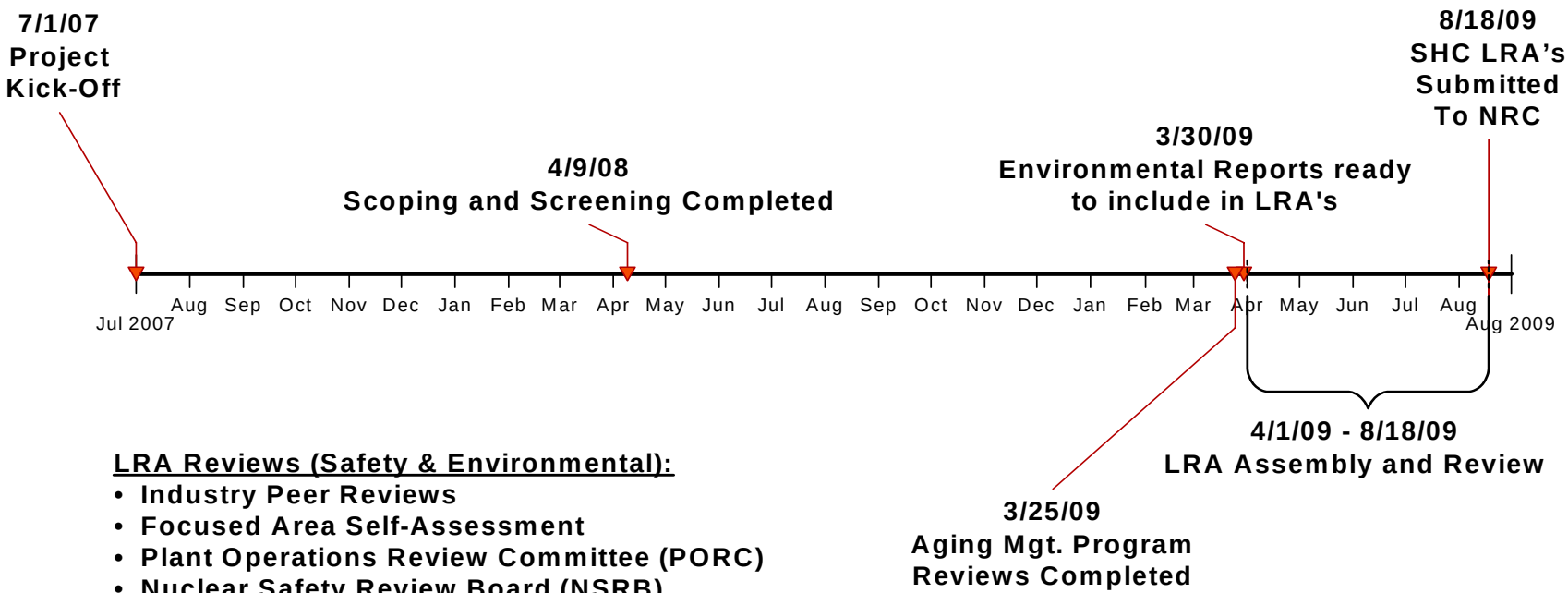
Provide assurance that Salem and Hope Creek can continue safe operation for an additional 20 years

Applications will be highly consistent with the Generic Aging Lessons Learned (GALL) Guidance

Applications will incorporate recent industry lessons learned

Timeline

Salem and Hope Creek License Renewal Applications (LRA's)



LRA Reviews (Safety & Environmental):

- Industry Peer Reviews
- Focused Area Self-Assessment
- Plant Operations Review Committee (PORC)
- Nuclear Safety Review Board (NSRB)
- Senior Management Challenge

Common Salem/Hope Creek LRA Preparation

Site

Organizations

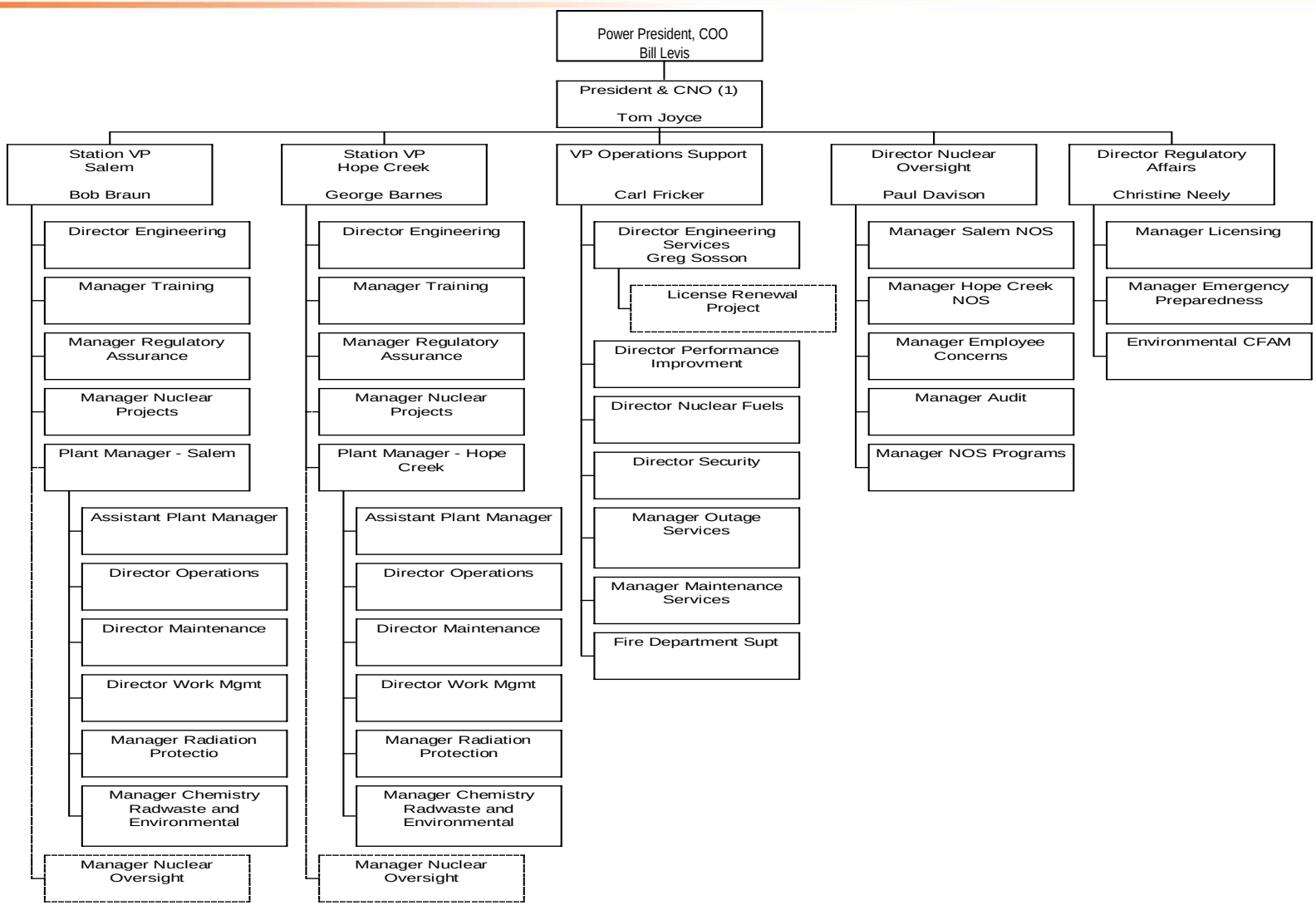
Procedures

Programs

Environment


Hope Creek
Salem

PSEG Nuclear



Processes/Procedures

Policies, Department Descriptions and Higher Level (above Operating) Procedures are common

Common License Renewal Application Development Process

- Scoping and Screening Methodology
- Aging Management Reviews
- Aging Management Programs

Aging Management Programs

The majority of Programs are common (37 of the 58 Programs)

One Program Basis Document (PBD) is generated for each common program

Common PBD's are prepared by one individual on the Project Team

Salem/Hope Creek AMPs List – Common Programs

- ASME Section XI Inservice Inspection, Subsections IWB, IWC, and IWD
- One-Time Inspection
- Fire Water System
- Bolting Integrity
- Compressed Air Monitoring
- Selective Leaching of Materials
- External Surfaces Monitoring
- Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components
- Open-Cycle Cooling Water System
- Closed-Cycle Cooling Water System
- Fire Protection
- Flow-Accelerated Corrosion
- Buried Piping Inspection
- Buried Non-Steel Piping Inspection
- Water Chemistry
- Fuel Oil Chemistry
- Lubricating Oil Analysis
- Reactor Head Closure Studs
- 10 CFR Part 50, Appendix J
- Inspection of Overhead Heavy Load and Light Load (Related to Refueling) Handling Systems
- Periodic Inspection
- Aboveground Steel Tanks
- Aboveground Non-Steel Tanks
- ASME Section XI, Subsection IWE
- ASME Section XI, Subsection IWF
- Protective Coating Monitoring and Maintenance Program
- RG 1.127, Inspection of Water-Control Structures
- Masonry Wall
- Structures Monitoring Program
- Boral Monitoring Program
- Electrical Cables and Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements
- Electrical Cables and Connections Not Subject to 10 CFR50.49 Environmental Qualification Requirements Used in Instrumentation Circuits
- Inaccessible Medium Voltage Cables Not Subject to 10 CFR 50.49 Environmental Qualification Requirements
- Metal-Enclosed Bus
- Electrical Cable Connections Not Subject to 10 CFR 50.49 Environmental Qualification Requirements
- Environmental Qualification (EQ) of Electrical Components
- High Voltage Insulators

Site Specific AMPs List

Salem

- One-Time Inspection of ASME Code Class 1 Small-Bore Piping
- Metal Fatigue of Reactor Coolant Pressure Boundary (PWR)
- Boric Acid Corrosion
- Nickel-Alloy Penetration Nozzles Welded to the Upper Reactor Vessel Closure Heads of Pressurized Water Reactors
- Steam Generator Tube Integrity
- Reactor Vessel Surveillance
- Nickel Alloy Aging Management Program
- PWR Vessel Internals
- Flux Thimble Tube Inspection
- ASME Section XI, Subsection IWL
- Thermal Aging Embrittlement of CASS

Hope Creek

- Periodic Inspection of ASME Code Class 1 Small-Bore Piping
- Metal Fatigue of Reactor Coolant Pressure Boundary (BWR)
- BWR Vessel ID Attachment Welds
- BWR Control Rod Drive Return Line Nozzle
- BWR Stress Corrosion Cracking
- BWR Penetrations
- BWR Vessel Internals
- BWR Feedwater Nozzle
- Reactor Vessel Surveillance
- Thermal Aging and Neutron Embrittlement of CASS

Environmental Reports

Part of License Renewal Applications (Appendix E)

Both Salem and Hope Creek Environmental Reports have been prepared by Tetra-Tech NUS

Tetra-Tech NUS has prepared more than 70% of the industry License Renewal Environmental Reports filed

Environmental Report Contents

More than 60% of the report is identical for both plants including:

- Location and Features
- Demography
- Land Use Planning
- Social Services and Public Facilities
- Meteorology and Air Quality
- Historic and Archaeological Resources
- Housing Impacts
- Public Water Supply Impacts
- Offsite Land Use Impacts
- Historic & Cultural Resources Impacts

Differences between the reports are due primarily to the following:

- Different cooling water systems
- Ownership
- Ongoing groundwater tritium remediation
- Transmission Lines
- Severe Accident Mitigation Alternatives

Closing Comments

Common Approach

Experienced Project Team

Incorporating Industry Experience

Review Efficiency can be gained due to common programs on a single site

Both Applications will be submitted on August 18, 2009