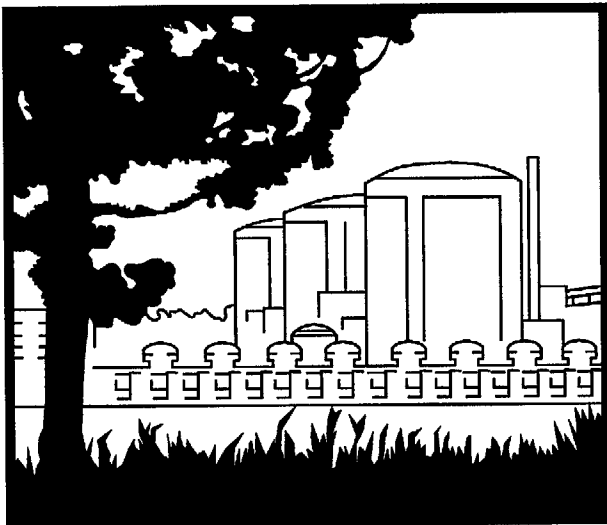


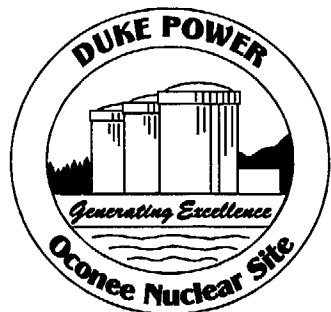


Oconee Nuclear Site

Design Basis Issues

August 23, 2001





Design Basis and System Reviews

(From 11/17/98 Presentation)

- Why
 - Gain better / clearer understanding of our design basis
 - Clear up old issues
 - Improve our documentation for use through license renewal / new generation of employees
 - Improve safety
- Outcomes
 - Will continue to uncover issues
 - Will generate needs to interact with NRR



Design Basis and System Reviews

(From 11/17/98 Presentation)

- Direction
 - Will review issues from a risk-informed perspective
 - Will address quickly those issues with safety significance
 - Where appropriate, will change license basis
 - Will require NRR support
 - Where low safety significance, may choose to maintain existing license basis “understanding”
 - Will assure documentation for the future

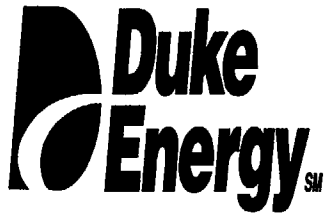


Design Basis Focus Area

(From 11/13/97 Presentation)

- INITIATIVES:

- HPI System Review (12/97)
- Oconee Safety Related Designation Clarification (OSRDC) Project (12/99)
- SQUG
- Oconee Service Water Project (7/99)
- Improved Technical Specifications (3/99)
- UFSAR Reverification (1/99)
- Emergency Power Project Closeout (5/01)



ONS Design Basis Group

- Mission
 - Provide a focused review of design basis & implement enhancements to improve design margins and reduce plant risk
- Staffed with Subject Matter Experts
- Scope established based on:
 - Key safety systems
 - Event mitigation strategies
 - Design criteria / Design control
 - Risk insights



Completed Initiatives

(added initiatives in bold)

- HPI/LPI SITA
- OSRDC
- Service Water Project
- Improved Tech Specs
- UFSAR Reverification
- Emergency Power Project
- **EFW Design Study & Submittal**
- **Single Failure Analysis - 9 Key Systems**
- **ECCS Design Study**
- **QA-5**
- **Configuration Management**
- **Review of Risk Significant Operator Actions**
- **Chapter 15 Accident Reanalysis**
- **Oconee Specific Seal LOCA Model**
- **EOP Project**
- **Unit 1 RCP Seal Mod**



Initiatives In Progress

(added initiatives in bold)

- SQUG
- EFW
- **Historical Calculation Enhancement**
- **HELB Project**
- Tornado
- **Time Critical Operator Actions**
- **EOP 2 Column Format/
TBD Rev. 9**
- **ECCS Modifications**
- **Aux Building Flooding**
- **Control Room Habitability**
- **GL 96-06**
- **Emergency Power System Margin/
Capacity Improvements**
- **Keowee Lake Level**



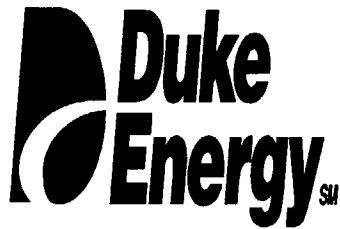
Project Overview

- Project remains focused on original mission
- Significant contribution to safety accomplished
- Discovery phase resulted in significant scope growth
- Lessons learned factored back into project
- Much work remains



Project/NRC Interface

- Key Elements Include:
 - Agreement on the underlying basis for the project
 - Clear understanding of scope
 - Clear understanding of milestones & schedule
 - Confidence that issues will be identified & appropriately resolved



Interface Challenges

- Inspection activities can create significant project impact
- Processing additional specific issues not necessary
 - Underlying cause already established
 - Not indicative of current performance
- Difficult to communicate context of issues to public



Oconee Perspective

- Underlying issues with ONS Design Basis clearly established
- NRC understands basis for project
- Better communication needed on specific project scope & schedules
- Stakeholder value optimized from inspection focused to confirm project performance



Open Item Status

| Issue | Status |
|--|--|
| Purge Valves (URI 00-05-11) | Valve testing compliant with existing requirements. Procedure revised to remove temporary cover for containment closure. No further actions ongoing. |
| Loss of 4kV – HELB (URI 00-05-19) | Responded to draft ASP that scenario not risk significant; approved design feature. |
| High temp in LPI/HPI Rm (URI 00-08-01) | The pumps & motors in the LPI/HPI rooms are operable following a LOCA without the use of the pump room coolers. |
| Aux Bldg Flood from Non-safety pipes (URI 00-08-02) | Not risk significant. Aux Bldg flood AP issued. Mods being implemented to divert water. Licensing submittal being developed to resolve licensing conflict. Submittal scheduled for 12/28/01. |
| Flood from cable rm fire suppression (URI 00-08-03) | Not risk significant. Closed head sprinklers being installed. |
| Blowout Panels (URI 00-08-04) | Issue working in parallel with HELB Project. Calculation being written to assess current plant configuration, input to environmental analysis this fall. Results scheduled by 12/28/01. |
| CR Flooding (URI 01-08-05) | Modifications being developed to remove any piping over panels. |
| Inability to align Station ASW (URI 01-08-06) | Procedure revised. Root cause being evaluated as part of degraded cornerstone assessment. |