



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

October 8, 2008

LICENSEE: Florida Power Corporation
FACILITY: Crystal River Unit 3 Nuclear Generating Plant
SUBJECT: SUMMARY OF SEPTEMBER 16, 2008, MEETING WITH PROGRESS ENERGY FLORIDA, INC., TO DISCUSS UPCOMING STEAM GENERATOR REPLACEMENT ACTIVITIES AT CRYSTAL RIVER UNIT 3 (TAC NO. MD9547)

On September 16, 2008, a Category 1 public meeting was held between the Nuclear Regulatory Commission (NRC) and representatives of Florida Power Corporation (the licensee), now doing business as Progress Energy Florida, Inc. (PEC), at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss topics related to the upcoming planned replacement of the Crystal River Unit 3 (CR3) steam generators. The licensee plans to perform the replacement during the plant refueling outage that is scheduled to begin on September 26, 2009. A list of attendees is enclosed. The licensee's slide presentation may be accessed from the NRC's Agencywide Documents Access and Management System Accession No. ML082671004.

During the meeting, the licensee provided an overview of the overall project, planned modifications, and related licensing activities. The licensee's presentation covered the following topics:

- Steam Generator Replacement (SGR) Project Strategy
- SGR Scope
- Pre-outage Milestone Schedule
- Oconee Tube wear Root Cause Experience
- Steam Generator Changes from Oconee and Arkansas Nuclear One (ANO)
- Babcock and Wilcox Canada Once Through Steam Generator
- Progress Energy Vendor Oversight
- Licensing Actions

The licensee described that the SGR project is managed by PEC based on extensive industry benchmarking and the design activities are managed by its staff, while using experienced contract design engineers. Also, major activities (construction management, lifting and rigging, containment analyses, etc.) are being performed by the proven industry contract organizations. Further, the licensee discussed how it applied the Oconee tube wear root cause experience and the ANO operating experience into the CR3 engineering evaluation of design changes. The licensee pointed out that engineering change packages are scheduled to be completed in September 2008, and most of the other pre-outage activities will be completed during the summer of 2009. The steam generators are scheduled to be delivered to the site on July 16, 2009.

No commitments or regulatory decisions were made by the NRC staff during the meeting.

Although members of the public were invited, none were in attendance. Public Meeting Feedback forms were not received.

Please direct any inquiries to me at 301-415-1447, or farideh.saba@nrc.gov.

A handwritten signature in black ink that reads "Farideh E. Saba". The signature is written in a cursive style with a large initial 'F' and 'S'.

Farideh Saba, Senior Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-302

Enclosure: List of Attendees

cc w/encl: See next page

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Please direct any inquiries to me at 301-415-1447, or farideh.saba@nrc.gov.

/RA/

Farideh Saba, Senior Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
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Docket No. 50-302

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ADAMS Accession No. Meeting Notice: ML082350667

Summary: ML082682142 Slides: ML082671004 Package: ML082682148 NRC-001

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Florida Power Corporation

Crystal River Nuclear Plant, Unit 3

cc:

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List of Attendees
U. S. Nuclear Regulatory Commission
Public Meeting with Florida Power Corporation
Regarding Crystal River Unit 3, Steam Generators Replacement
September 16, 2008

U. S. NUCLEAR REGULATORY COMMISSION

Allen Hiser
Farideh Saba
Ken Karwoski
Charles Harris
Aloysius Obodoako

FLORIDA POWER CORPORATION

Sid Powel
Dan Westcott
James Terry
Ken Wilson

Crystal River Unit 3 Steam Generator Replacement Project

September 16, 2008 Meeting with
Nuclear Reactor Regulation



Agenda

- Introduction
- Steam Generator Replacement (SGR) Project Strategy
- Steam Generator Replacement Project Scope
- Pre-outage Milestone Schedule
- Oconee Tube Wear Root Cause Experience
- Generator Changes from Oconee and ANO Operating Experience
- Babcock and Wilcox - Canada (BWC) Once Through Steam Generator
- PGN Vendor Oversight
- Licensing Actions

J. Terry



K. Wilson

Steam Generator Replacement Project Strategy

- Self Managed Project based on Extensive Industry Benchmarking
- Design Activities Managed by PGN Employees using SGR Experienced Contract Design Engineers
- Major Activities Performed by Proven Industry Contract Organizations
 - ◆ Bechtel – Construction Management
 - ◆ Mammoet – Lifting and Rigging
 - ◆ Sargent & Lundy – Containment Analyses
 - ◆ AREVA – Large Bore Piping Cutting, Machining, and Welding
 - ◆ CBI Nuclear – Liner Plate Removal and Installation
 - ◆ Precision Surveillance Corporation – Containment Tendons

SGR Project Scope

- Refueling Outage 15 (Fall 2007)
 - ◆ Letdown Piping Replacement – Source Term Reduction
- Cycle 16
 - ◆ Expanded Nuclear Security Protected Area Access Facility
 - ◆ Retired Once Through Steam Generator (OTSG) Storage Facility
 - ◆ Personnel Decontamination Facility
- Refueling Outage 16 (Fall 2009)
 - ◆ Temporary Containment Construction Opening
 - ◆ Replace OTSGs
 - ◆ Replace Hot Leg Piping and RCS Flow Element – Inconel 600 → Inconel 690
 - ◆ Replace Feedwater Piping (Partial) – Flow Accelerated Corrosion
 - ◆ Replace Insulation – Reduce Sump Fouling Sources

Pre-outage Milestone Schedule

- Engineering Design Packages Complete – September 29, 2008
- Install Foundations for OTSG Lifting Equipment – March 2009
- Hot Leg Piping Delivery – March 31, 2009
- Facility Modifications Complete – June 30, 2009
- Prepare Berm Surface for Mobile Crane – June 2009
- Assemble Mobile Crane in the Protected Area – July 20, 2009
- OTSG Delivery – July 16, 2009
- Begin Outage – September 26, 2009

Oconee Tube Wear Analysis and Root Cause Experience

- Crystal River was Extensively Engaged in the BWC Tube Wear Analysis and Root Cause Evaluation of Oconee
- Contracted with MPR to Access Information from Duke / MPR Tube Wear Analysis and Root Cause
- Developed Design Changes for CR-3 ROTSGs to Address Tube Wear Analysis Findings
- Applied Root Cause Findings to Engineering Evaluation of Design Changes
- Applied 'First of a Kind' Process

PGN Vendor Oversight

- PGN Contract Inspectors on site at Fabrication Facilities
 - ◆ BWC - 2
 - ◆ Energy Steel - 2
- Use Hold, Witness, and Document Review Points inserted within Fabrication Documents
- Inspection Findings entered in Fabricator Corrective Action Program (CAP)
- Significant Inspection Findings entered in CR-3 CAP
- Other Suppliers Operating within their Appendix B Programs

Licensing Actions

- License Amendment Request #301 to Revise Improved Technical Specifications for the OTSG Program consistent with TSTF-449
 - ◆ Submitted August 28, 2008
- Relief Request to Extend the Interval for the First Inspection of the Replacement Containment Tendons from One to Two Years
 - ◆ Submittal in November 2009

Questions and Comments

