PUBLIC MEETING WITH POINT BEACH NUCLEAR PLANT

Nuclear Regulatory Commission

Region III

Meeting Purpose

- Inform Public of the results of the NRC Inspection Procedure (IP) 95003 Inspection at Point Beach
- NRC staff available to answer questions from the Public

Meeting Agenda

- Introductions
- Regulatory Oversight Process
- Results of IP 95003 Inspection at Point Beach
- Point Beach/NMC Presentation
- Questions and Answers

NRC Personnel

Geoffrey Grant	Deputy Regional Administrator, Region III
Steven Reynolds	Acting Director, Division of Reactor Projects, Region III
Eric Leeds	Deputy Director, Division of Licensing Project Management, Office of Nuclear Reactor Regulation
Tony Vegel	Chief, Branch 7, Division of Reactor Projects, Inspection Team Leader

NRC Personnel (con't)

Mike Kunowski	Project Engineer - Assistant Team Leader
Ken Riemer	Chief, Plant Support Branch, Division of Reactor Safety, Region III
Deirdre Spaulding	Project Manager, Office of Nuclear Reactor Regulation
Paul Krohn	Point Beach Senior Resident Inspector
Mike Morris	Point Beach Resident Inspector

Point Beach/NMC Introduction

NRC Mission

Regulate the Nation's civilian use of Nuclear Material to ensure adequate protection of Public Health and Safety.

NRC Performance Goals

- **Maintain safety and protect environment**
- **Enhance public confidence**
- **Improve:**
  - **effectiveness**
  - **efficiency**
  - **realism of processes and decision-making**
- **Reduce unnecessary regulatory burden**

NRC Oversight Activities

- Provide assurance plants are:
  - Operating safely
  - Complying with regulations
- Inspections focused on key safety areas
- Objective indicators of performance
- Assessment program triggers regulatory actions

Reactor Oversight Process

SAFETY SIGNIFICANCE

GREEN - very low

WHITE - low to moderate

YELLOW - substantial

RED - high

http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html

Point Beach
Auxiliary Feedwater/Instrument Air Red Inspection Finding

- Identified by Point Beach staff in November 2001
- NRC Special Inspection (Event Follow-Up Inspection) Dec. 2001 - Feb. 2002
- Red Finding - July 12, 2002 - but possible Old Design Issue
- Second Special Inspection - Sept. 2002 - March 2003

Auxiliary Feedwater/Instrument Air Red Inspection Finding (Con't)

- Determined to not be an Old Design Issue
- April 2, 2003 - Final Determination: Red Issue
- April 2003 Agency Action Review Meeting - Decision to perform IP 95003 inspection at Point Beach

Point Beach
Auxiliary Feedwater/Recirculation Line Orifice Plugging Issue

- October 29, 2002 - Second Potential Common Mode Failure of Auxiliary Feedwater Pumps identified during routine system test
- Failure Mechanism - Plugging of the recirculation line flow orifices
- Inadequate Corrective Actions for first Auxiliary Feedwater issue contributed to the significance of the second issue

Auxiliary Feedwater/Recirculation Line Orifice Plugging Issue (Con't)

- IP 95003 Inspection reviewed Point Beach corrective actions for Auxiliary Feedwater orifice plugging issue
- December 11, 2003 - Final Significance Determination: Unit 1 - Yellow Issue; Unit 2 - Red Issue

Inspection Procedure (IP) 95003

"Supplemental Inspection for Repetitive Degraded Cornerstones, Multiple Degraded Cornerstones, Multiple Yellows, or One Red Finding Input."

Intent: Provide the NRC with supplemental information regarding licensee performance, as necessary to determine the breadth and depth of safety, organizational, and programmatic issues.

IP 95003 Inspection Objectives

1) Provide insights into overall causes of Performance Deficiencies
2) Evaluate Programs and Processes
3) Evaluate licensee ability to identify, evaluate, and correct problems
4) Extent of Risk Significant Issues
5) Provide NRC recommendation for further Regulatory Action

IP 95003

- More diagnostic than baseline procedures
- Includes reviews of programs and processes not reviewed during baseline
- Reviews aspects of strategic performance areas that are known to be a problem as well as those aspects that are not known to be problems
- Results of the 95003 used in deciding what additional actions should be taken

The Point Beach 95003

- Three Phases
  1) Corrective Action Team (CAT)
  2) Emergency Preparedness Team (EPT)
  3) Engineering, Operations, and Maintenance Team (EOMT)

Corrective Actions Team (CAT)

- Review the Process, Programs, and Procedures for Identifying Problems
- Five Inspectors
- Two Weeks Onsite
  (July 28, 2003 - August 8, 2003)

Corrective Action Team

- Reviewed several hundred Corrective Action documents
- Interviewed plant staff
- Reviewed Excellence Plan

Corrective Action Team

Summary of Results

- Adequate Corrective Action Program
- Inconsistent Implementation of Corrective Action Program:
  - Actions not completed
  - Actions not timely
- Excellence Plan - Encompasses major areas requiring performance improvement

Corrective Action Team

Summary of Results (Con't)

First and Second Auxiliary Feedwater Red Issues

- Adequate investigation of events
- Root cause evaluation for second finding was thorough
- Appropriate corrective actions identified
- Inconsistent implementation of corrective actions

Emergency Preparedness Team (EPT)

- Ensure the Emergency Preparedness Program Complies with Regulations and Follows Commitments
- Four Inspectors
- Two Weeks (August 4-15, 2003)

Emergency Preparedness Team (EPT)

Reviewed

- Facilities and Equipment
- Emergency Preparedness Procedures
- Emergency Preparedness Exercise

EPT

Summary of Results

- Adequate Implementation of Emergency Preparedness (EP) Program
- Successful EP Exercise Observed
- Some Challenge Areas:
  - EP Staff Experience and Training
  - Maintenance of EP Licensing Basis
  - Understanding EP Regulatory Requirements

EPT

Summary of Results (Con't)

Findings:

- Apparent Violation - Failure to Maintain a Standard Emergency Action Level Scheme
- Three Preliminary Green Findings
- One Potential Severity Level IV Violation regarding performance indicators
- One Unresolved Item regarding Protective Action Recommendations

Engineering, Operations, and Maintenance Team Inspection (EOMT)

- Review the Processes, Programs, and Procedures for Engineering - Particularly, Design Engineering
- Eight Inspectors
- Three Weeks of Inspection (September 2003)

Engineering, Operations, and Maintenance Team Inspection (EOMT) (cont'd)

- Corrective Action Implementation
  - Auxiliary Feedwater System
- Design
  - Component Cooling Water System
  - 125-Volt Direct Current System

Engineering, Operations, and Maintenance Team Inspection (EOMT) (cont'd)

- Human Performance
- Procedure Quality
- Equipment Performance
- Configuration Control

Engineering, Operations, and Maintenance Team Inspection

Summary of Results

- Component Cooling Water System: Design and licensing basis understood and controlled
- 125-Volt DC System:

  - Design calculations control deficiencies

Engineering, Operations, and Maintenance Team Inspection

Summary of Results (Con't)

- 125-Volt DC System: (Con't)
  - Control of Design Basis is a challenge
  - Design is Robust
  - System is operable

Engineering, Operations, and Maintenance Team Inspection

Summary of Results (Con't)

Corrective Actions

Multiple Examples of untimely or inadequate implementation of corrective actions

Engineering, Operations, and Maintenance Team Inspection

Summary of Results (Con't)

Preliminary Inspection Findings:

Seven Green Findings

(Very Low Safety Significance) -

- 2 Design Control
- 1 Test Control
- 1 Corrective Actions
- 1 Environmental Qualification
- 1 Fire Protection
- 1 Procedures

Inspection Procedure (IP) 95003 Inspection

Overview of Results

Objective #1 - Provide insights into overall causes of Performance Deficiencies

- **Causes for Red Findings**
  - **Lack of understanding of design**
  - **Corrective Action Program weaknesses**
  - **Weak Operations/Engineering interface**

IP95003 Inspection

Overview of Results (Con't)

- **Causes for Emergency Preparedness Performance Problems**

  - **Lack of Understanding of Requirements**
  - **Management Oversight**

IP95003 Inspection

Overview of Results (Con't)

Objective #2 - Evaluate Programs and Processes

- **Operations and Maintenance Programs were Adequate**
- **Operations/Engineering Interface remains a challenge**

IP95003 Inspection

Overview of Results (Con't)

- Engineering
  - Operability Determinations (long standing)
  - Modification Process Rigor
  - Electrical Design Control Weaknesses
  - Quality and Understanding of Electrical Design Calculations

IP95003 Inspection

Overview of Results (Con't)

Objective #3 - Evaluate Corrective Action Process

- Corrective Action Program is sound
- Implementation of Program is a challenge
  - Identification - Good
  - Assessing Problems - Adequate
  - Fixing Problems - Inconsistent

IP95003 Inspection

Overview of Results (Con't)

Objective #4 - Extent of Risk Significant Issues

The Team did not identify any systems that could not perform safety function

IP95003 Inspection

Overview of Results (Con't)

- Verified Auxiliary Feedwater System - Operable
- Component Cooling Water System - Good control of design and licensing basis
- 125-Volt DC system
  - Operable
  - Design control a challenge

IP95003 Inspection

Overview of Results (Con't)

Objective #5 - Recommendation for further Regulatory Action by NRC

- **Plan to Conduct Additional Inspections Above Baseline**
- **Plan to Confirm that Corrective Actions are being taken and that performance improves**

IP95003 Inspection

Overall Conclusion

Point Beach is being operated Safely

Challenge Areas -

- Corrective Action Implementation
- Emergency Preparedness
- Engineering Design Control

Continued Supplemental Regulatory Oversight is Warranted

Inspection Report

- Expected issuance - early January 2004
- Publicly Available - Through NRC Web Site

Afterward

- Verification of Excellence Plan Implementation
- Follow-Up Inspections

POINT BEACH PRESENTATION

NRC CLOSING REMARKS

QUESTIONS ?

Contacts for Additional Information

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Contacts for Additional Information (con't)

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