

NRC & PSEG Meeting Salem and Hope Creek

June 16, 2004



**Nuclear Regulatory Commission - Region I
King of Prussia, PA**

*Released
in
Adams*

Agenda

- **NRC Presentation**
- **PSEG Presentation**
- **NRC/PSEG Discussion**
- **NRC/PSEG Meeting Conclusion**
- **NRC Accepts Questions/Comments from Public**

C-67

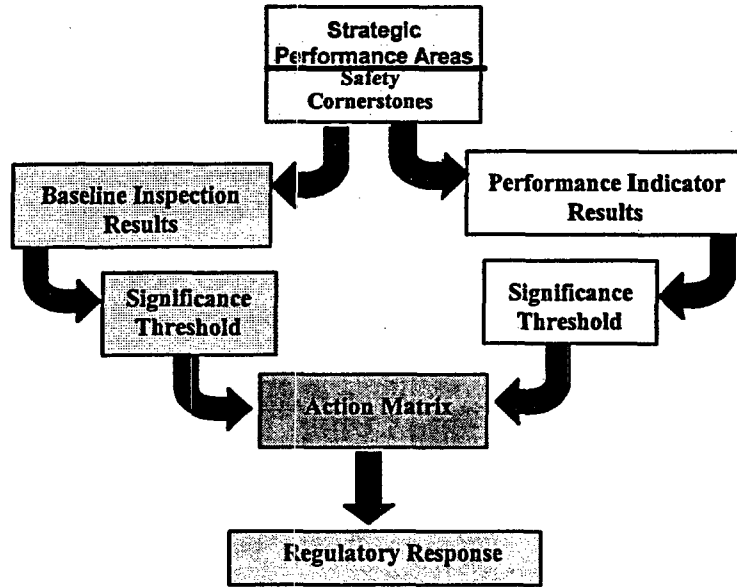
Agenda – NRC Presentation

- 2003 Annual Assessment of Salem and Hope Creek Performance
 - Review of Reactor Oversight Process (ROP)
 - National Summary of Plant Performance
 - Salem & Hope Creek Performance Results
- Assessment of the Work Environment at Salem and Hope Creek, including organizational effectiveness of the Corrective Action Program and Work Management Process

Agenda – PSEG Presentation

- Response to Annual Assessment
- Discussion of Work Environment Reviews/Assessments and Organizational Effectiveness
- Action Plan to Address Work Environment/Organizational Effectiveness Issues and Ensure Plan Effectiveness

Reactor Oversight Process



Action Matrix

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance
-------------------	---------------------	----------------------	------------------------------------	--------------------------



Increased Safety Significance

Increased NRC Inspection Efforts

Increased NRC/Licensee Management Involvement

Increased Regulatory Actions

Significance of Findings and Performance Indicators

- **Significance** involves determining potential or actual safety consequences

- **Green** – *very low safety significance*
- **White** – *low to moderate safety significance*
- **Yellow** – *substantial safety significance*
- **Red** – *high safety significance*

National Summary for ROP in 2003

- Performance indicator results (at end of CY 2003)
 - **Green** 1825
 - **White** 15
 - **Yellow** 0
 - **Red** 0

- Total inspection findings (at the end of CY 2003)
 - **Green** 748
 - **White** 19
 - **Yellow** 2
 - **Red** 4

National Summary of Plant Performance Status at End of ROP Cycle 4

Status at End of CY 2003

Licensee Response	75
Regulatory Response	22
Degraded Cornerstone	2
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	<u>0</u>
Total	102*

*Davis-Besse is in IMC 0350 process

NRC Oversight of Salem & Hope Creek

(January 1 - December 31, 2003)

- Significant NRC inspection effort

- Significant NRC inspector oversight

- Significant NRC management oversight and attention

Inspection Program at Salem 1 & 2

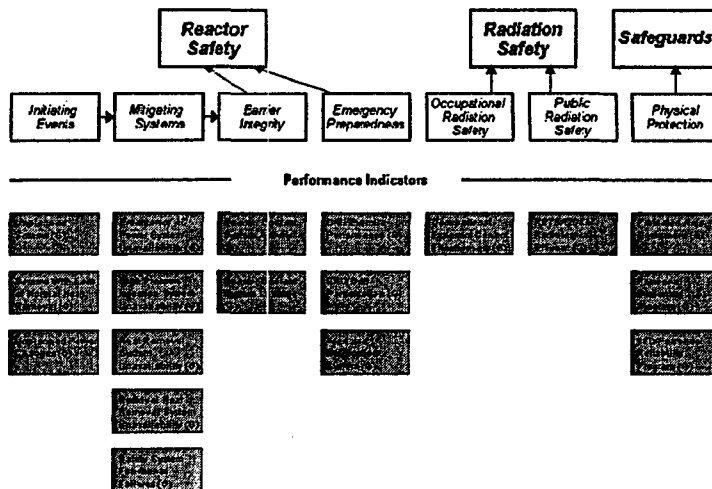
(January 1 - December 31, 2003)

- 3250 Hours of Direct Inspection, plus 4730 hours of additional inspection-related effort
 - 2 Resident Inspectors
 - 11 Regional Specialist Inspections
 - 5 Team Inspections
 - 2 Special Inspections
 - 1 Supplemental Inspection

- 25 Green Findings and 1 White

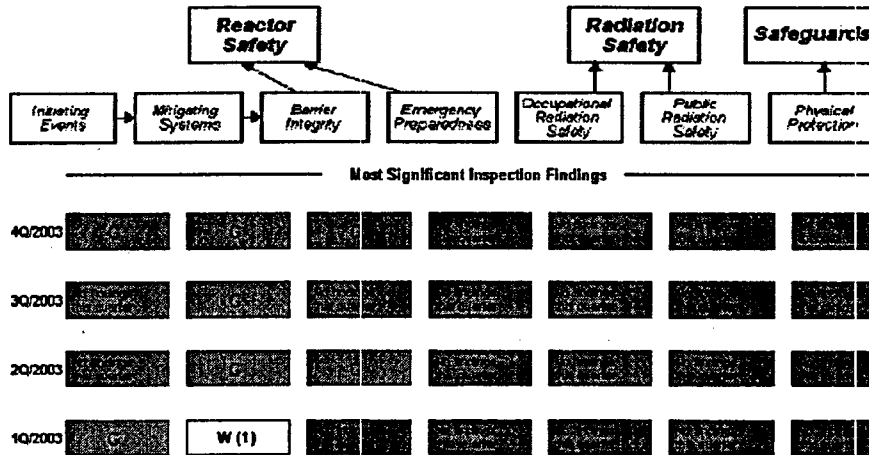
Salem 1 Performance Indicators

[Http://WWW.NRC.GOV](http://WWW.NRC.GOV) then click Nuclear Reactors/Reactor Oversight Process



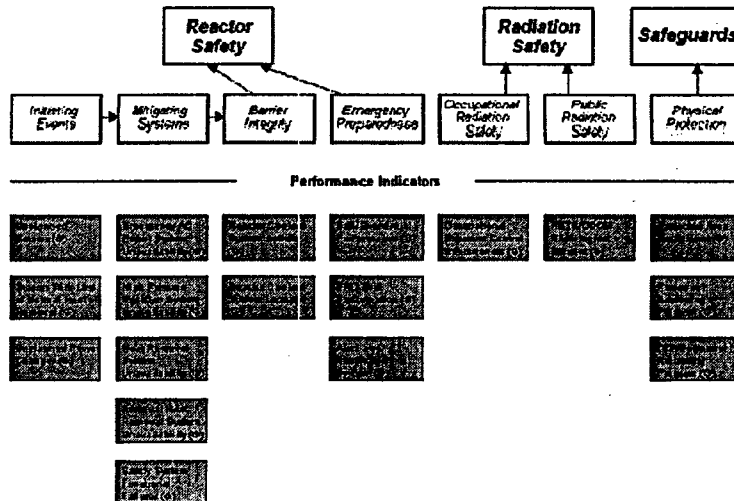
Salem 1 - Inspection Results

[Http://WWW.NRC.GOV](http://www.nrc.gov) then click Nuclear Reactors/Reactor Oversight Process



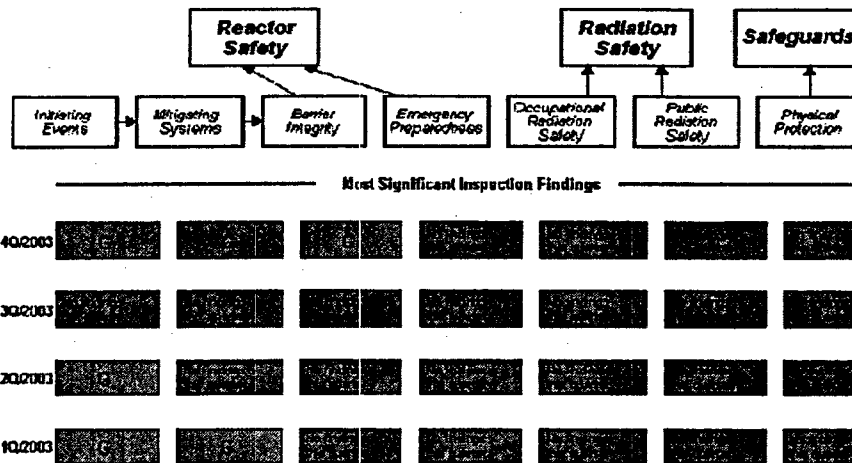
Salem 2 Performance Indicators

[Http://WWW.NRC.GOV](http://www.nrc.gov) then click Nuclear Reactors/Reactor Oversight Process



Salem 2 - Inspection Results

Http://WWW.NRC.GOV then click Nuclear Reactors/Reactor Oversight Process



NRC Assessment of Salem 1 & 2

(January 1 - December 31, 2003)

- Preserved Public Health and Safety
- At completion of 2003:
 - Salem 1 – Regulatory Response Column
 - Salem 2 – Licensee Response Column
- Baseline inspection in 2003
- 1 supplemental at Unit 1 (EDG turbocharger failure in September 2002 that resulted in a white finding during 2003)
- Substantive Cross-Cutting Issue – Problem Identification and Resolution

Inspection Program at Hope Creek

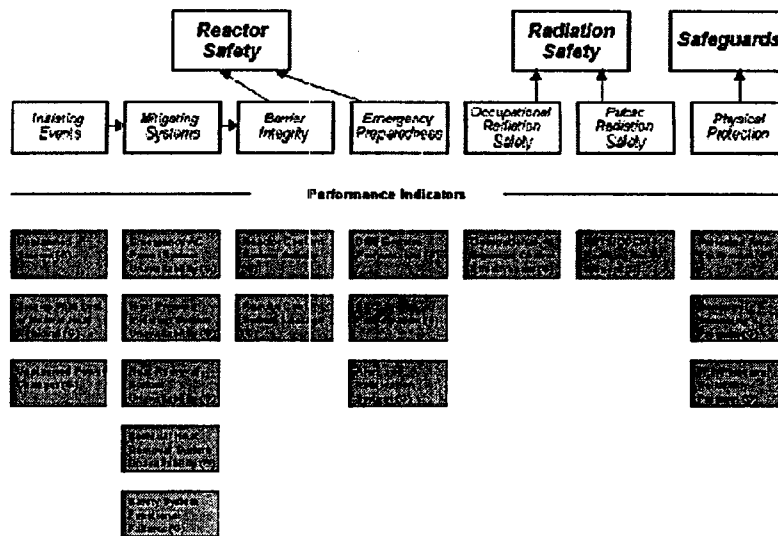
(January 1 - December 31, 2003)

- 2410 Hours of Direct Inspection, plus 3310 hours of additional inspection-related work
 - 2 Resident Inspectors
 - 12 Regional Specialist Inspections
 - 2 Team Inspections

- 19 Green Findings

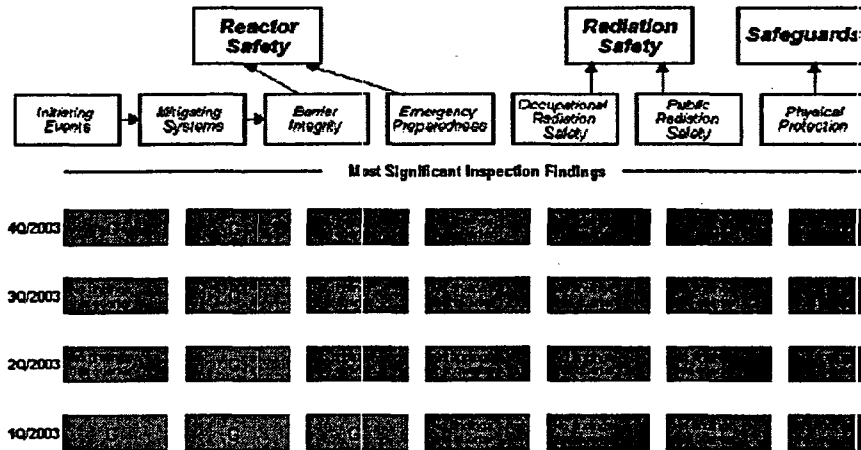
Hope Creek Performance Indicators

Http://WWW.NRC.GOV then click Nuclear Reactors/Reactor Oversight Process



Hope Creek - Inspection Results

Http://WWW.NRC.GOV then click Nuclear Reactors/Reactor Oversight Process



Hope Creek - Assessment

(January 1 - December 31, 2003)

- Preserved Public Health and Safety
- At Completion of 2003:
Hope Creek – Licensee Response Column
- Baseline Inspection in 2003
- May 10, 2004 White Issue Shifted HC to Regulatory Response Column
- Substantive Cross-Cutting Issue – Problem Identification and Resolution

Overall Performance Assessment Using Reactor Oversight Process 2003

- Performance Indicators and Inspection Results indicate Salem and HC have preserved adequate safety margin
- Substantive cross-cutting issue continues to exist in area of Problem Identification & Resolution

*Find problem
Extd
Cause
+
Fix All*

Prior NRC Assessment Letters

Identified substantive cross-cutting issue:

- Problem Identification & Resolution
 - Untimely and ineffective
 - Longstanding problems uncorrected
 - Poor implementation of maintenance
 - Insufficient coordination & work control
 - Equipment reliability weaknesses
 - Deficient engineering evaluation of root causes

Initiation of NRC's Special Review

Based on:

- NRC August 27, 2003 Mid-Cycle Assessment Letter
- NRC Inspection Findings
 - Baseline and Supplemental
- Allegations

NRC Request for PSEG Assessment

Jan. 28, 2004 NRC letter to PSEG:

- Based on ongoing NRC special review
- Expressed concerns about work environment
 - Raising concerns
 - Addressing concerns
- Request that PSEG conduct in-depth assessment
- Prior surveys may form a part of PSEG assessment

NRC Request for PSEG Assessment

NRC concerns related to work environment for:

- Handling emergent issues and associated operational decision-making
- Addressing potential safety issues

These concerns included:

- Openness of management to concerns and alternate views
- Strength of communication
- Effectiveness of corrective actions and feedback processes

Concerns did not involve any serious safety violations (e.g. no Yellow or Red findings)

NRC Request for PSEG Assessment

- NRC letter to PSEG 1/28/04
 - Described potential work environment concerns and requested assessment
- PSEG letter to NRC 2/27/04
 - Provided interim assessment plans
- Public meeting 3/18/04
 - Discussed assessment plans
- PSEG letter to NRC 5/21/04
 - Described assessment results
- NRC Public Meeting 6/16/04
 - Discuss assessment results and action plan

NRC Next Steps

- **Finalize NRC Special Review**
- **Complete Evaluation of PSEG Assessments**
- **Compare NRC & PSEG Results**
- **Receive/Evaluate PSEG Plans**
- **Decide Additional Regulatory Actions and Follow-up**

NRC Representatives

- **H. Miller, Regional Administrator, Region I**
- **A. Randolph Blough, Director, Division of Reactor Projects**
- **D. Holody, Acting Branch Chief**
 >(610) 337-5312
- **E. Cobey, Incoming Branch Chief**
 >(610) 337-5171
- **D. Collins, Project Manager, NRR**
- **D. Orr, Senior Resident Inspector, Salem**
- **G. Malone, Resident Inspector, Salem**
- **M. Gray, Senior Resident Inspector, Hope Creek**
- **M. Ferdas, Resident Inspector, Hope Creek**
- **N. Sheehan, Public Affairs Officer**
 >(610) 337-5331
- **L. Jarriel, Agency Allegation Advisor**
- **J. Clifford, Section Chief, Nuclear Reactor Regulation**

Reference Sources

- Reactor Oversight Process

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

- Public Electronic Reading Room

<http://www.nrc.gov/reading-rm/adams.html>

- Public Document Room

1-800-397-4209 (Toll Free)

Hub,

Attempt to be max objective
scrutable

More procedure / process / sequence

Keep in mind - we watch all plants

- cognizant of where we can
divert.

Turn over for a rigorous review.

* ^{ROF} Doesn't keep us from Acting when we
feel we need to act

* A point about safety
- are margins strong
enough to withstand
human people's mistakes,
equipment failures.

* Work Environment - At heart of health.
work env is env highly effective in
getting work done (ops, maint tasks)
(not just the soft important aspect of
human relationship).