NRC

Material For June 16, 2004 Assessment Mtg w/PSEG

Unacceptable Performance Column. Licensee performance is unacceptable and continued plant operation is not permitted within this column. In general, it is expected that entry into the multiple/repetitive (legraded cornerstone column of the Action Matrix and completion of supplemental inspection procedure 95003 will precede consideration of whether a plant is in the Unacceptable Performance Column. The Commission will meet with senior licensee management in a regulatory performance meeting to discuss the licensee's degraded performance and the corrective actions which will need to be taken before operation of the facility can be resumed. The NRC oversight of plant performance will also be placed under the guidance of IMC 0350. Unacceptable performance represents situations in which the NRC lacks reasonable assurance that the licensee can or will conduct its activities without undue safety to public health and safety. Examples of unacceptable performance may include:

5.

- (a) Multiple significant violations of the facility's license, technical specifications, regulations, or orders.
- (b) Loss of confidence in the licensee's ability to maintain and operate the facility in accordance with the design basis (e.g., multiple safety significant examples where the facility was determined to be outside of its design basis, either due to inappropriate modifications, the unavailability of design basis information, inadequate configuration management, or the demonstrated lack of an effective problem identification and resolution program).
- (c) A pattern of failure of licensee management controls to effectively address previous significant concerns to prevent the recurrence.

Note: If the agency determines that a licensee's performance is unacceptable then a shutdown order will be issued.

6. IMC 0350 Process Column. The criteria for entrance into the IMC 0350 process, as discussed in section 06.06.g of this manual chapter, has been met. Subsequent management review of licensee performance has determined that entrance into the Unacceptable Performance Column is not warranted at this time. Additionally, NRC management will review licensee performance on a quarterly basis to determine if entrance into the Unacceptable Performance Column is warranted. The licensee is expected to place the identified deficiencies into their performance improvement plan and perform an evaluation of the root and contributing causes for both the individual and collective causes.

As discussed in IMC 0350, the regional offices will conduct baseline and supplemental inspections as appropriate, as well as special inspections per the restart checklist. Performance indicator data should continue to be gathered in accordance with IMC 0608, "Performance Indicator Program" to the extent that it is applicable to shutdown conditions.

Plants under the IMC 0350 process are considered to be outside of the normal assessment process and under the auspices of IMC 0350. However, this column has been added to the Action Matrix for illustrative purposes to demonstrate comparable agency response and communications and is not necessarily representative of the worst level of licensee performance. Plants under the IMC 0350 process should be discussed at the mid-cycle and end-of-cycle reviews to integrate inspection planning efforts across the regional office and to keep internal stakeholders abreast on ongoing inspection and oversight activities. Mid-cycle or annual assessment letters are generally not issued for these plants. Annual public meetings will not be conducted for these plants as the regional office conducts periodic public meetings to discuss licensee performance.

Exhibit 5 - ACTION MATRIX

		Licensee Response Column	Regulatory Response Column	Degraded Cornerstone Column	Multiple/ Repetitive Degraded Cornerstone Column	Unacceptable Performance Column
RESULTS		All Assessment Inputs (Performance Indicators of (Pis) and Inspection (Pindings) Green, Comerstone Objectives (Fully Met	One or Two White Imputs (In different cornerstones) in a Strategic Performance Area: Cornerstone Objectives Fully Met	One Degraded Cornerstone (2 White Inputs or 1 Yellow Input) or any 3 White Inputs in a Strategic Performance Area: Cornerstone Objectives Met with Moderate Degradation in Safety Performance	Repetitive Degraded Cornerstone, Multiple Degraded Comerstones, Multiple Yellow Inputs, or 1 Red Input, Cornerstone Objectives Met with Longstanding Issues or Significant Degradation in Safety Performance	Overall Unacceptables Performance Plants Not Permitted to Operate Within this Band, Unacceptable Margin to Safety
RESPONSE	Regulatory Performance Meeting	None	Branch Chief (BC) or Division Director (DD) Meet with Licensee	DD or Regional Administrator (RA) Meet with Licensee	RA (or EDO) Meet with Senior Licensee Management	Commission meeting with Senior Licensee Management
	Licensee Action	Licensee Corrective Action	Licensee root cause evaluation and corrective action with NRC Oversight	Licensee cumulative root cause evaluation with NRC Oversight	Licensee cumulative root cause evaluation with consideration of a Performance Improvement Plan with NRC Oversight	
	NRC Inspection	Risk-Informed Baseline Inspection Program	Baseline and supplemental inspection procedure 95001	Baseline and supplemental inspection procedure 95002	Baseline and supplemental inspection procedure 95003	
	Requiatory Actions	None	Supplemental inspection only	Supplemental inspection only	-10 CFR 2.204 DFI -10 CFR 50.54(f) Letter - CAL/Order	Order to Modify, Suspend or Revoke Licensed Activities
COMMUNICATION	Assessment Letters	BC or DD review/sign assessment report (w/ inspection plan)	DD review/sign assessment report (w/ inspection plan)	RA review/sign assessment report (w/ inspection plan)	RA review/sign assessment report (w/ inspection plan)	
	Annual Public Meeting	SRI or BC Meet with Licensee	BC or DD Meet with Licensee	RA (or DD) Discuss Performance with Licensee	RA or EDO Discuss Performance with Senior Licensee Management	
co	Commission Involvement	None	None	None	Plant discussed at AARM	Commission Meeting with Senior Licensee Management
	INCREASING SAFE	TY SIGNIFICANCE	>			

Note 1: The regulatory actions for plants in the Multiple/Repetitive Degraded Cornerstone column are not mandatory agency actions. However, the regional office should consider each of these regulatory actions when significant new information regarding licensee performance becomes available.

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NRC & PSEG Meeting Salem and Hope Creek

June 16, 2004



Ports bother NM & PSEG Purpose: Two-fold

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environment that have been e regart by NAC Nuclear Regulatory Commission - Region I King of Prussia, PA NACE The mostry topics are closely reduced.

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NRC Presentation

PSEG Presentation

NRC/PSEG Discussion

NRC/PSEG Meeting Conclusion

(eccuse extension - NRC Accepts Questions/Comments from Public

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in more dotal

1. Talking Points for Meeting Commencement - Dan Holody

- Welcome,
- Emergency Exit
- Category 1 public meeting meeting conducted, then public time
- Discuss all the available documents:
 - Sign up sheet for all attendees
 - o sign up sheet for people who wish to reserve speaking time "we will assess allowed floor time based on the number of people who sign up...room is available thru midnight."
 - sign up sheet for people who wish to receive future notifications of meetings
 - Copies of the meeting notice with document access information
 - O Copies of the slides
 - Copies of the Annual Assessment letters for Salem and Hope Creek
- Introduce yourself, others Hub, Randy, Jim Clifford, Mel Gray, George Malone, Lisa Jarriel, Jay Persensky....etc
- Invite PSEG to introduce themselves
- Invite audience members like state officials to introduce themselves.

or other organizations

2. Talking Points for Q&A Session Commencement

- Outline ground rules:
 - o one questioner at a tirne
 - stand up and speak up (microphone locations)
 - o "if there are any questions we cannot answer for you, we can get back to you"
- State how many people have signed up.. .approx how much time they will each have

3. At Conclusion:

- Thanks
- Ask for feedback forms and attendance sheet, etc.

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

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Special Review Mentions Hrat Tuzp

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Agenda – PSEG Presentation

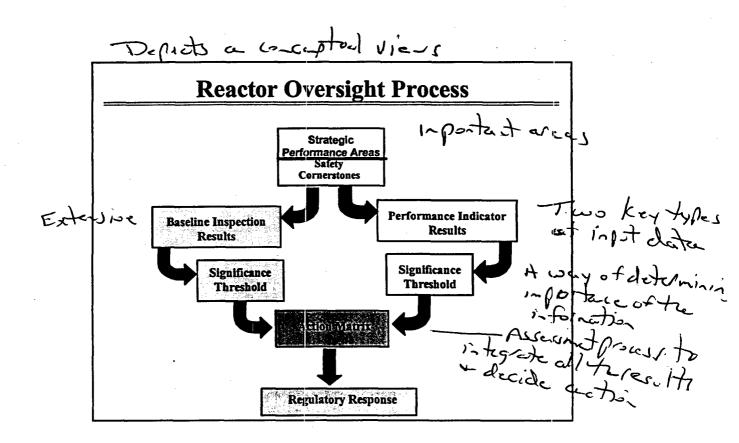
- Response to Annual Assessment
- Discussion of Work Environment
 Reviews/Assessments and Organizational
 Effectiveness
- Action Plan to Address Work Environment/ Organizational Effectiveness Issues and Ensure Plan Effectiveness

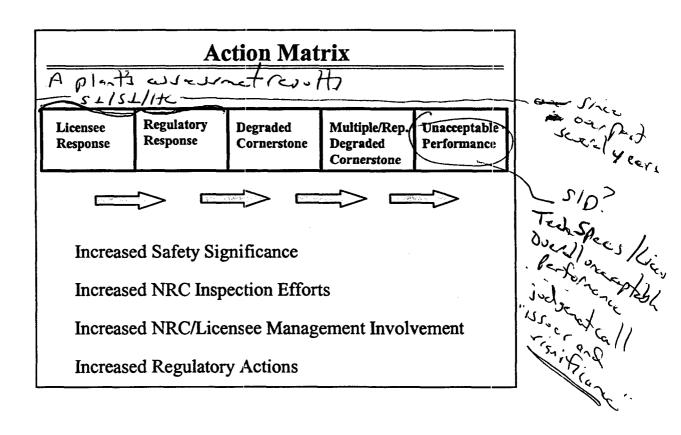
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Significance of Findings and Performance Indicators

- 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

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National Summary for ROP in 2003 (ı) DAVIS-P. ... FAILURY TO • Performance indicator results (at end of CY 2003) EFFACTUALLY IMPLEMENT 1825 Green end of 2003 SI, SZ, HC Collins . 12: 1100 - White 15 all Green FOR DESTA LANDER. - Yellow 0 hutomul terchase OF CONTHINAKHT breen on occasion Red COMTINGS . FIBROUS MATKING Total inspection findings (at the end of CY 2003) Unlike PI, (2) ? DRIPPED SEE Not nother trade production Green 748 GEND OF ICECH White 19 - S/HZ Lish by product Dan end of Green forting Yellow sistitienter Red 4、 end=+2=03 were yellow + red SI - EDG + bove if known. +reculty, in 2004 (1) POINT BEACH ! POPENTIAL COMMON MORE FAILURE OF AUX FRED PONT (2) POINT PARACHEZ: (3) POINT BEACH & FAILURE TO ESTABLISH APPROPRIATE DESIGN CONTROL sy Hen FOR INSTALLATION OF AFM RECIRC

(4) DAVIS. BESSE: FALURE THE PROPERTY IMPLEMENT BY CONTROL

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

Status at End of CY 2003

Licensee Response HC (now) Regulatory Response

Degraded Cornerstone

Multiple/Repetitive Degraded Cornerstone

Unacceptable

Total

102*

*Davis-Besse is in IMC 0350 process

DR IS STILL IN 0350

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

Point Beach 1

Point Beach 7

Next Geo Melse mes ... proje detail on Saler assessment



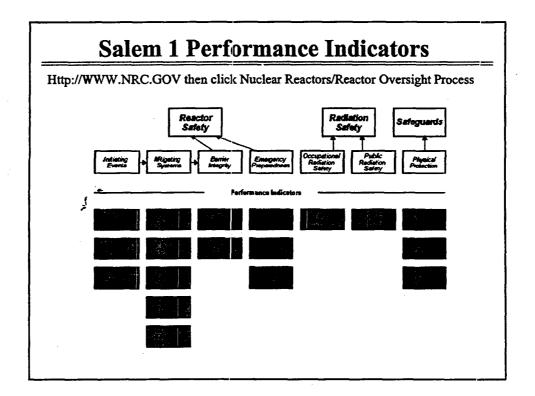
(January 1 - December 31, 2003)

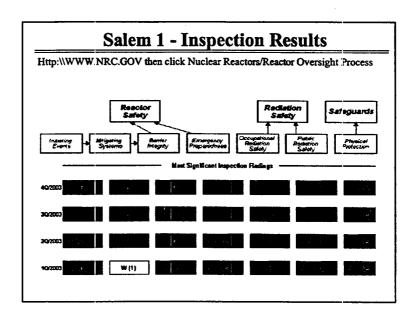
, High End

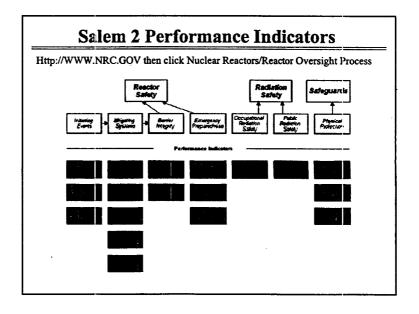
• 3250 Hours of Direct Inspection, plus 4730 hours of additional inspection-related effort

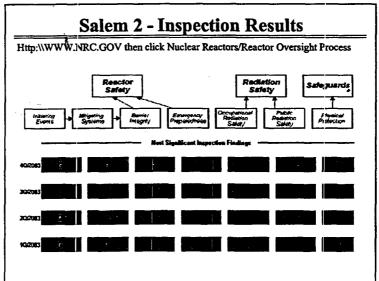
(1) SFP Insp (Nimite) - 16re
(2) SOOK Electrical transvel

- ▶2 Resident Inspectors
- ▶11 Regional Specialist Inspections
- ▶5 Team Inspections
 - ➤ 2 Special Inspections
 - ▶1 Supplemental Inspection
- 25 Green Findings and 1 White









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

On October 15, 2003 during the 2R13 refueling outage, the Salem Unit 2 containment spray and residual heat removal systems experienced water-hammer during performance of a containment spray surveillance test. The water-hammer was attributed to an air pocket in the RHR system that was identified months previously. Failure to implement corrective actions in a timely manner resulted in this event. There were also elements of human performance weaknesses associated with work management and operation that could have prevented to event.

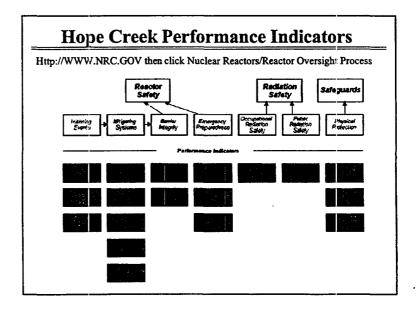
The 2A EDG was rendered inoperable due to a loss of starting air. An air leak was identified on the 21B air compressor on September 2003 and entered into the corrective action program. November 8, 2003, the 21A starting air compressor was removed from service for maintenance. Independently 21B was not capable of maintaining starting air pressure above the minimum required for operability. Failure to evaluate and implement corrective actions in a timely manner resulted in the loss of the 2A EDG.

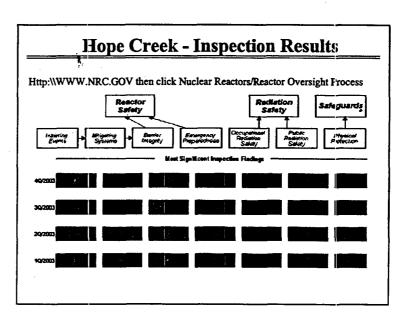
Nov. Mel Gray will cover the Hope Creek assormed

Inspection Program at Hope Creek

(January 1 - December 31, 2003)

- 2410 Hours of Direct Inspection, plus 3310 hours of Abert Average additional inspection-related work
 - **>**2 Resident Inspectors
 - ▶12 Regional Specialist Inspections
 - ▶2 Team Inspections
- 19 Green Findings





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

In June 2003 an intercooler pump leak on the A emergency diesel generator EDG required the initiation of a plant shutdown after troubleshooting efforts were ineffective. NRC identified that design information previously provided by the vendor four months prior was available that would have helped identify the cause of the EDG intercooler pump seal leak. However the information had not been incorporated into procedur

In October 2003 operator manually tripped the Hop Creek plant after alarms indicated there was an electro-hydraulic control (EHC) leak that could aff turbine valve control. For up plant walkdowns reve the leak was from the #combined intercept valv hydraulic actuator. The cause investigation into problem identified that leak from CIV#4 had previously been identif was not repaired in a manner and EHC oil was not adequately address this problem the plant trip.

(Buktone)

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

There assessments
tic directly into the
special review of the

special review of the work environment that were been conductors

Prior NRC Assessment Letters

Identified substantive cross-cutting issue:

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

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Initiation of NRC's Special Review

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

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NRC Request for PSEG Assessment

The National Indian Jan. 28, 2004 NRC letter to PSEG: - south sut to

- · 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

This slide synthizes internation fra our ICL 28 letter

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)

SEG has now complete	orier	~ NC
NRC Request for PSEG Ass	essment	
 NRC letter to PSEG ➤ Described potential work environment concerns and requested assessment 	1/28/04	
• PSEG letter to NRC > Provided interim assessment plans	2/27/04	
• Public meeting ➤ Discussed assessment plans	3/18/04	1
PSEG letter to NRC ➤ Described assessment results	5/21/04	1
• NRC Public Meeting ➤ Discuss assessment results and action plan	6/16/04	

After trainesting

NRC Next Steps

- Finalize NRC Special Review nearly finalized
- Complete Evaluation of PSEG Assessments
- Compare NRC & PSEG Results 9-2 aldress
- Receive/Evaluate PSEG Plans a letter officer Receive/Evaluate PSEG Plans a letter officer.
- Decide Additional Regulatory Actions and Follow-up Lmontor Progre

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

- •<u>Reactor Oversight Process</u> http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html
- Public Electronic Reading Room http://www.nrc.gov/reading-rm/adams.html
- •<u>Public Document Room</u> 1-800-397-4209 (Toll Free)