

Annual Assessment And Performance Meeting



Nuclear Regulatory Commission

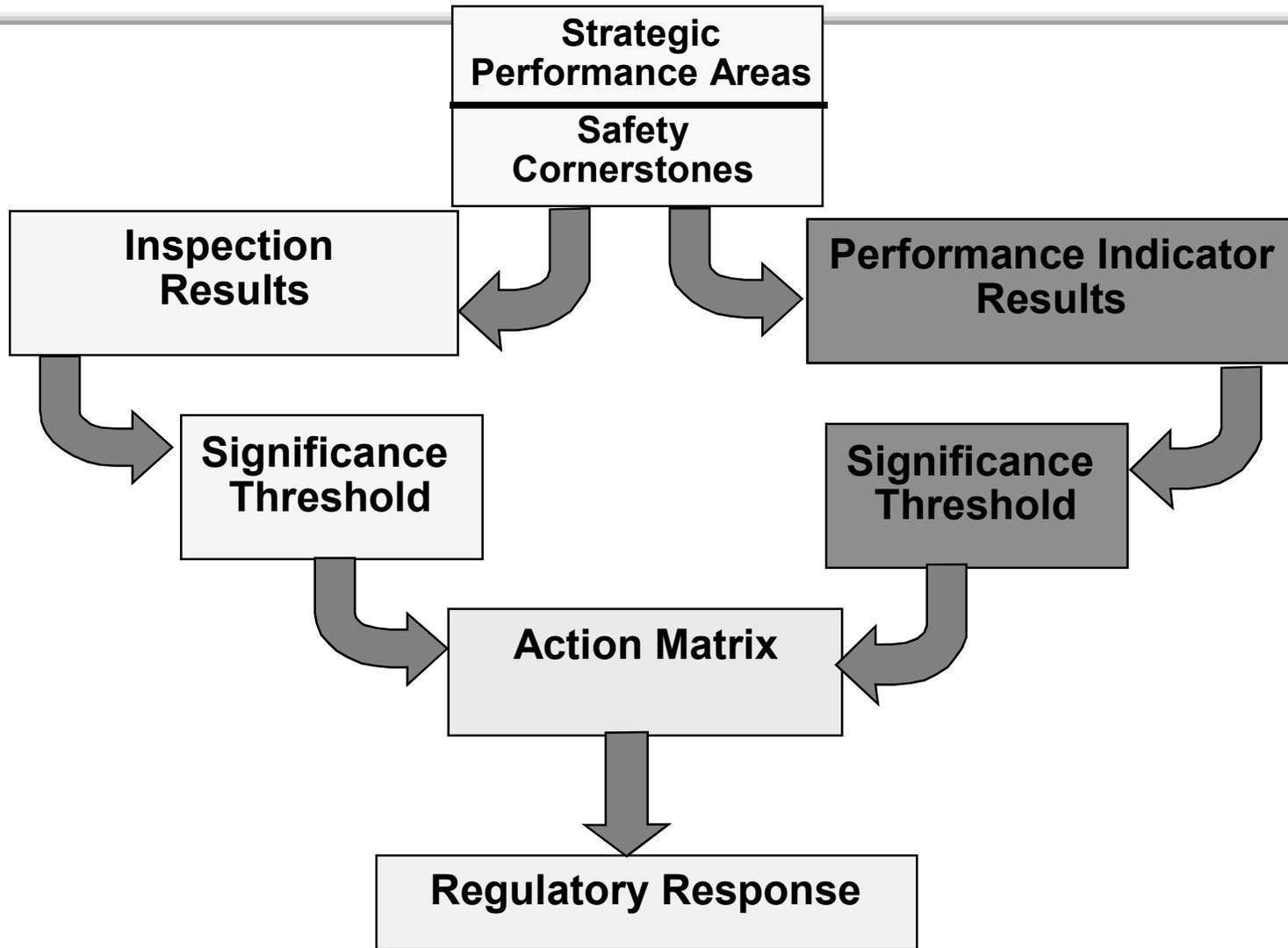
NRC REPRESENTATIVES

- Jim Dyer, Administrator, Region III
- Sam Collins, Director, Office of Nuclear Regulation
- Geoffrey Grant, Director, Division of Reactor Projects, RIII
- Anton Vogel, Former Chief, Reactor Projects Branch 6
- Eric Duncan, Chief, Reactor Projects Branch 6
- Brian Kemker, Senior Resident Inspector, DC Cook
- Ivy Netzel, Resident Inspector, DC Cook

NRC Performance Goals

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

Reactor Oversight Process



Annual Licensee Assessment Meeting

- A public forum for discussion of the licensee's performance
- NRC will address the licensee performance issues identified in the Annual Assessment Letter
- Licensee will respond to the information in the letter and inform the NRC of new or existing programs to maintain or improve their performance

Key Aspects of the Assessment Program

- Objective review of licensee performance
- “Action Matrix” identifies agency response commensurate with safety significance
- Increasing safety significance results in:
 - Increased levels of inspection
 - Involvement of higher levels of NRC and Licensee management
 - Increased regulatory action
- Plant specific assessment information on NRC public web site

Significance Threshold

- Performance Indicators
- Green: Only baseline Inspection
- White: May increase NRC oversight
- Yellow: Requires more NRC oversight
- Red: Requires more NRC oversight

Significance Threshold

- Inspection Findings
- Green: Very low safety issue
- White: Low to moderate safety issue
- Yellow: Substantial safety issue
- Red: High safety issue

An Action Matrix is used to assess overall plant safety performance and specify thresholds for NRC Enforcement Actions

	Licensee Response Column	Regulatory Response Column	Degraded Cornerstone Column	Multiple/ Repetitive Degraded Cornerstone Column	Unacceptable Performance Column	
R E S U L T S		All Assessment Inputs (Performance Indicators (PIs) and Inspection Findings) Green; Cornerstone Objectives Fully Met	One or Two White Inputs (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 Minimal Reduction in Safety Margin	Repetitive Degraded Cornerstone, Multiple Degraded Cornerstones, Multiple Yellow Inputs, or 1 Red Input; Cornerstone Objectives Met with Longstanding Issues or Significant Reduction in Safety Margin	Overall Unacceptable Performance; Plants Not Permitted to Operate Within this Band, Unacceptable Margin to Safety
R E S P O N S E	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 Self Assessment with NRC Oversight	Licensee 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	
	Regulatory 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
C O M M U N I C A T I O N	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) Commission Informed	
	Annual Public Meeting	SRI or BC Meet with Licensee	BC or DD Meet with Licensee	RA (or designee) Discuss Performance with Licensee	EDO (or Commission) Discuss Performance with Senior Licensee Management	Commission Meeting with Senior Licensee Management
INCREASING SAFETY SIGNIFICANCE ----->						

ROP Action Matrix Summary for 2002

- Column 1 - Licensee Response
- Column 2 - Regulatory Response
- Column 3 - Degraded Cornerstone
- Column 4 - Multiple/ Repetitive Degraded Cornerstone
- Column 5 - Unacceptable Performance

(Nationwide number does not contain Davis Besse)

	Column 1	Column 2	Column 3	Column 4	Column
Nationwide	59	33	7	3	0
Region I	9	14	2	1	0
Region II	26	4	1	1	0
Region III	11	10	2	0	0
Region IV	13	5	2	1	0

PLANT INFORMATION

- Name of Plant: D. C. COOK NUCLEAR POWER PLANT
- Plant Operator: Indiana/Michigan Electric Co.
- Number of Units: 2 operating units
- Reactor Type and Vendor: PWR, Westinghouse
- Location: Bridgman, MI
- Power Output (electrical): Unit 1 - 1066 MWe, Unit 2 - 1030 MWe
- Source of Circulating Water: Lake Michigan

Plant Performance Summary

- Operated safely
- Fully met all Cornerstone Objectives
- Unit 1 In Regulatory Response Column of Action Matrix
- Unit 2 In Degraded Cornerstone Column of Action Matrix
- Substantive cross-cutting issue in the area of Problem Identification and Resolution

Major Plant Activities in 2002

Unit 1

- April 25th - Power reduced to 8 percent to secure components of a 345 kilovolt (kV) line disconnect
- May 3 - June 9 - Scheduled refueling outage.
- June 12th - Loss of preferred offsite power due to 345 kV breaker explosion and switchyard fire (ALERT declared).
- June 14th - Unit was manually tripped due to a main feedwater pump trip, which was caused by zebra mussel clogging the feedwater pump condenser.
- November 10th - Power reduced to 30 percent to add oil to a reactor coolant pump motor.
- December 21st - Power reduced to 53 percent to add oil to the reactor coolant pump motor.
- December 24th - Power reduced to 55 percent to remove a main feedwater pump from service

Major Plant Activities in 2002

Unit 2

- Jan 19 - Feb 28 - Scheduled refueling outage.
- April 4 - Power reduced to 41% for inop battery; NOED granted
- May 12 - Reactor trip due to redundant power supply failures
- May 25 - Reactor shutdown to isolate a steam leak and replace one of the main turbine reheat stop valves
- June 12 - NOED to allow operation while restoring AFW
- July 22 - Reactor trip due to low condensor vacuum
- July 27 - Reactor shutdown to replace circ water discharge valve
- Nov 4 - NOED granted to allow operation while restoring EDG

Greater than GREEN PIs and Findings (Details)

- Two WHITE inspection findings in the Mitigating Systems Cornerstone.

Unit 2 turbine driven auxiliary feedwater pump start failures.

Degraded essential service water system performance on both Unit 1 and Unit 2. Supplemental inspection conducted.

- All other inspection findings and PIs for the most recent quarter for both units were GREEN.

Supplemental Inspection Results

- Purpose: Assure Root Causes For Individual And Collective Concerns Are Understood
 - Independently Assess Extent Of Condition
 - Assure Licensee Corrective Actions Are
 - Appropriate To Prevent Recurrence
- Conducted Feb 18 - 28
- Inspection Report Will Be Available In Adams

Supplemental Inspection Results

- Unit Operated Safely
- Two Additional GREEN Findings

Turbine Driven Aux Feed Pump Maintenance Procedure Inadequate

Inadequate Corrective Actions For Known Aux Feed Pump Parts Deficiencies

- Significant Weakness For Incomplete Extent Of Condition Evaluation
- Two WHITE Findings Remain Open
- NRC To Reinspect Once Licensee Completes Extent Of Condition Review

Security & Safeguards Update

- Creation of Office of Nuclear Security and Incident Response
- Top-to-Bottom Review of Security Program Initiated
- Issuance of Orders/ Interim Compensatory Measures (ICM)
- Verification of Licensee Actions on ICM

Security & Safeguards Update

- Proposed Revisions to Design Basis Threat
- Pending Orders on Fatigue/Guard Training
- Initiation of Pilot Force-on-Force Exercise Program

Contacts for additional information for:

(Enter plant name here)

- Regional Public Affairs Officer:

- ▶ Name: Jan Strasma
- ▶ Phone: 630-829-9663

- State Liaison Officer:

- ▶ Name: Roland Lickus
- ▶ Phone: 630-829-9660

- Branch Chief:

- ▶ Name: Anton Vogel
- ▶ Phone: 630-829-9620

- Senior Resident Inspector:

- ▶ Name: Brian Kemker
- ▶ Phone: 269-465-6775

Contacting the NRC

- Report an emergency
 - ▶ (301) 816-5100 (call collect)
- Report a safety concern:
 - ▶ (800) 695-7403
 - ▶ Allegation@nrc.gov
- General information or questions
 - ▶ www.nrc.gov
 - ▶ Select “What We Do” for Public Affairs