

# Byron Annual Assessment Meeting

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Reactor Oversight Program - CY 2005



Nuclear Regulatory Commission – Region III

Byron, IL

April 10, 2006

# Purpose of Today's 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 be given the opportunity to respond to the information in the letter and inform the NRC of new or existing programs to maintain or improve their performance

# Agenda

- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- Licensee Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions

# Region III Organization

James Caldwell  
Regional Administrator

Geoff Grant  
Deputy Regional Administrator

Mark Satorius  
Director Division of Reactor Projects

Steve West  
Deputy Director

Cynthia Pederson  
Director Division of Reactor Safety

Anne Boland  
Deputy Director

Richard Skokowski  
Branch Chief

Regional Specialists

Byron  
Resident Inspectors  
Bruce Bartlett  
Ray Ng

Project Engineer  
Desiree Smith

# NRC Representatives

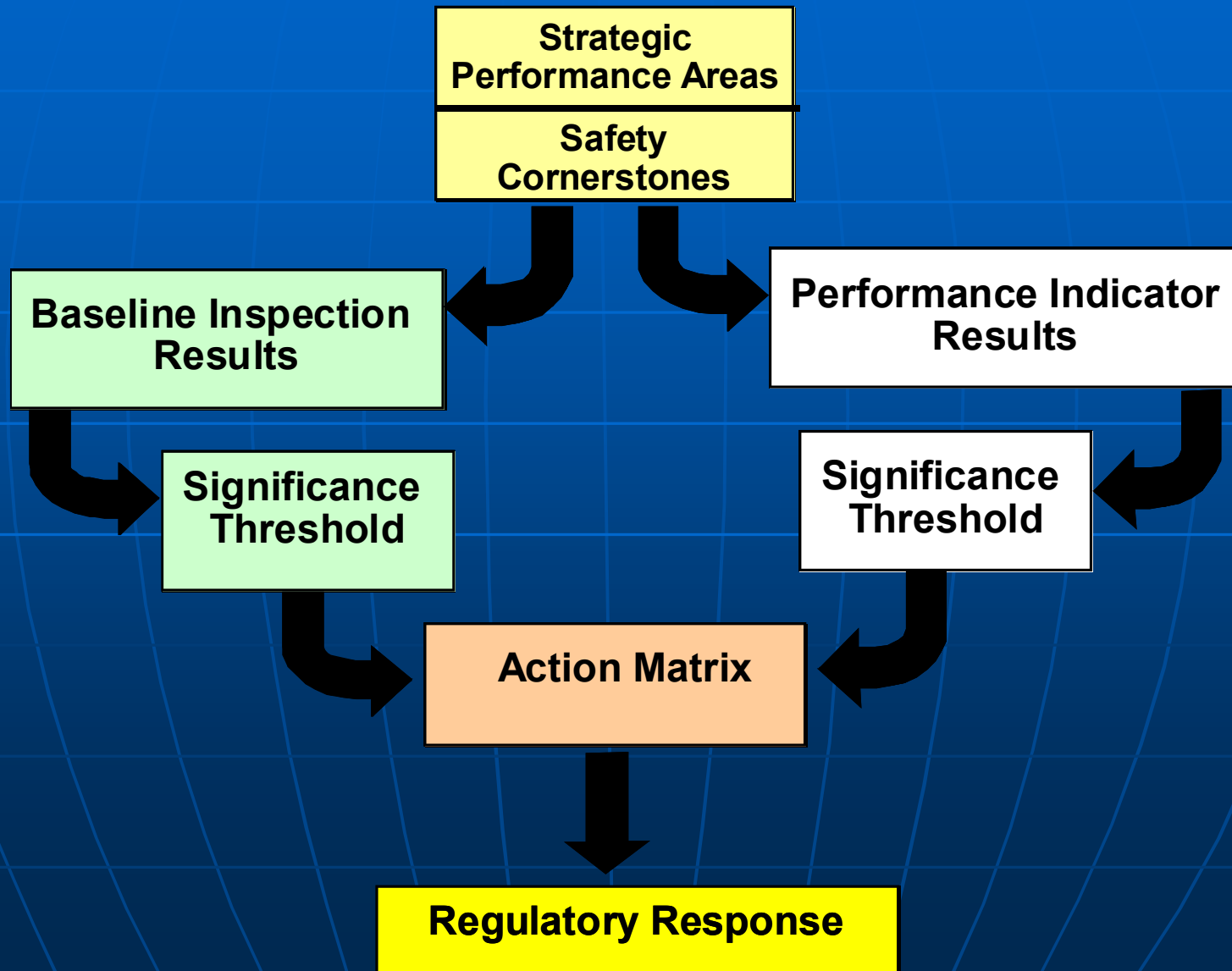
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- Rob Kuntz , Project Manager, NRR
  - (301) 415-3733
- Bruce Bartlett, Senior Resident Inspector
  - (815) 234-5451
- Ray Ng, Resident Inspector
  - (815) 234-5451
- Desiree Smith, Project Engineer
- Richard Skokowski, Branch Chief
  - (630) 829-9620

# NRC Performance Goals

- Safety: Ensure protection of the public health and safety and the environment
- Security: Ensure the secure use and management of radioactive materials
- Openness: Ensure openness in our regulatory process
- Effectiveness: Ensure that NRC actions are effective, efficient, realistic, and timely
- Management: Ensure excellence in agency management to carry out the NRC' strategic objective

# Reactor Oversight Process



# Examples of Baseline Inspections

- Equipment Alignment ~80 hrs/yr
- Triennial Fire Protection ~200 hrs every 3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~110 hrs every 2 yrs
- Worker Radiation Protection ~90 hrs/yr
- Corrective Action Program ~250 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr



# Significance Threshold

## Performance Indicators

<b>Green:</b>	Only Baseline Inspection
<b>White:</b>	May increase NRC oversight
<b>Yellow:</b>	Requires more NRC oversight
<b>Red:</b>	Requires more NRC oversight

## Inspection Findings

<b>Green:</b>	Very Low safety issue
<b>White:</b>	Low to moderate safety issue
<b>Yellow:</b>	Substantial safety issue
<b>Red:</b>	High safety issue

# Action Matrix Concept



**Increasing Safety Significance**

**Increasing NRC Inspection Efforts**

**Increasing NRC/Licensee Management Involvement**

**Increasing Regulatory Actions**

# National Summary of Plant Performance

Status at End of CY 2005

Licensee Response	84
Regulatory Response	12
Degraded Cornerstone	4
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
<u>Total</u>	<u>103</u>

# National Summary

- Performance Indicator Results (at end of CY 2005)

▶ Green	1850
▶ White	4
▶ Yellow	0
▶ Red	0

- Total Inspection Findings (CY 2005)

▶ Green	849
▶ White	10
▶ Yellow	1
▶ Red	0

# Byron Assessment Results

## (Jan 1 - Dec 31, 2005)

- Licensee Response Action Matrix Column with no greater than green findings/PIs
- No supplemental inspections were conducted
- Byron has a substantive cross-cutting issue in human performance. There were ten GREEN findings with the same causal factor (four required) affecting four cornerstones (two required)
- A total of twenty (20) findings of very low safety significance

# Traditional Enforcement

- A Severity Level III violation for 27 falsified surveillances by a non-licensed individual
- A Severity Level IV violation for failure to obtain NRC approval prior to making an Emergency Plan change

# Byron Inspection Activities

(Jan 1 - Dec 31, 2005)

- Bruce Bartlett assumed duties as Senior Resident Inspector as Richard Skokowski transferred to the Region. Raymond Ng assumed duties as Resident Inspector in May as Pete Snyder transferred to Headquarters.
- There was one refueling outage for Unit 1 from March 7 thru 29 and a refueling outage for Unit 2 from September 27 to October 15

# Byron Inspection Activities

(Jan 1 - Dec 31, 2005)

- A Safety System Design and Performance Capability inspection (SSDPC) was performed in February
- A Problem Identification and Resolution (PI&R) was conducted in July
- A Heat Sink Biennial was conducted in November
- A Emergency Preparedness graded exercise was conducted in July



# Byron

## Annual Assessment Summary

January 1 - December 31, 2005

- Exelon operated Byron Units 1 & 2 in a manner that preserved public health and safety
- All cornerstone objectives were met. All findings were of very low safety significance (GREEN)
- NRC plans baseline inspections at Byron for the remainder of the assessment period

# Licensee Response and Remarks

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Dave Hoots  
Site Vice President  
Byron Power Station

# 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](http://www.nrc.gov)
  - ▶ Select “What We Do” for Public Affairs

# Reference Sources

- Reactor Oversight Process

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

- Public Electronic Reading Room

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

- Public Document Room

- ▶ 1-800-397-4209 (Toll Free)