

# NRC Annual Assessment Meeting for Pilgrim

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Reactor Oversight Program - CY 2005



Nuclear Regulatory Commission - Region I  
King of Prussia, Pennsylvania

April 18, 2006

# Purpose of Today's Meeting

- A public forum for discussion of the licensee's performance
- NRC will address licensee performance issues identified during the assessment period
- Licensee will be given the opportunity to respond to the issues identified and inform the NRC of new or existing programs to maintain or improve their performance

# Agenda

- Introduction
- Review of Reactor Oversight Process and  
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 I Organization

Samuel J. Collins  
Regional Administrator

Marc L. Dapas  
Deputy Regional Administrator

Brian E. Holian  
Director, Division of Reactor Projects

David C. Lew  
Deputy Director

A. Randolph Blough  
Director, Division of Reactor Safety

Marsha K. Gamberoni  
Deputy Director

Cliff Anderson  
Branch Chief

Regional Specialists

Pilgrim  
Resident Inspectors:  
William Raymond  
Chris Welch

Tracy Walker  
Senior Project Engineer

# NRC Representatives

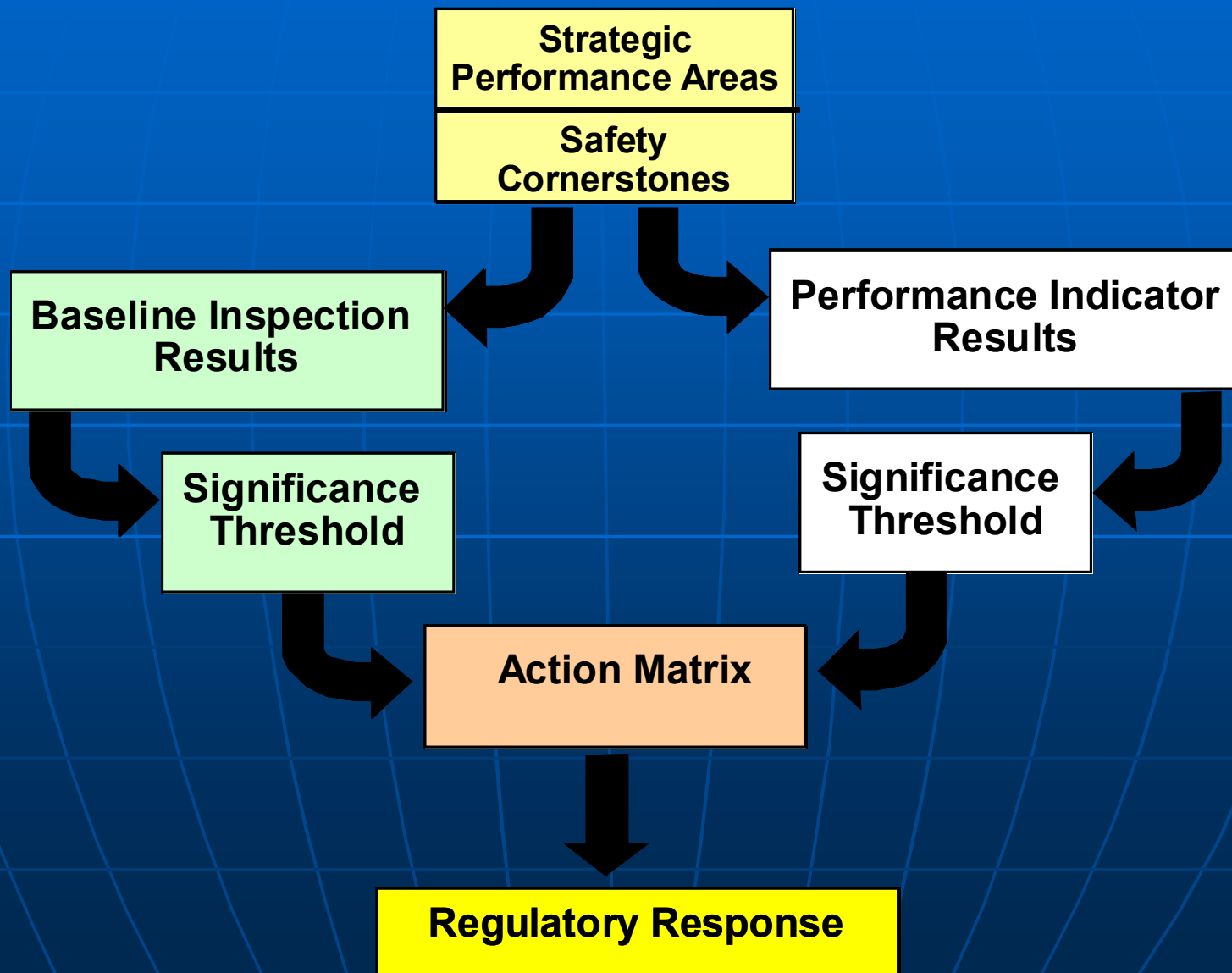
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- David C. Lew, Deputy Division Director, DRP
- Cliff Anderson, Branch Chief (current)
- Ray Powell, Branch Chief (eff. summer 2006)
- William Raymond, Senior Resident Inspector
- Christopher Welch, Resident Inspector
- Tracy Walker, Senior Project Engineer

# 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's strategic objective

# Reactor Oversight Process



# Examples of Baseline Inspections

- Equipment Alignment ~80 hrs/yr
- 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
- Safety System Design ~680 hrs every 2 yrs
- Corrective Action Program ~250 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr



# Significance Threshold

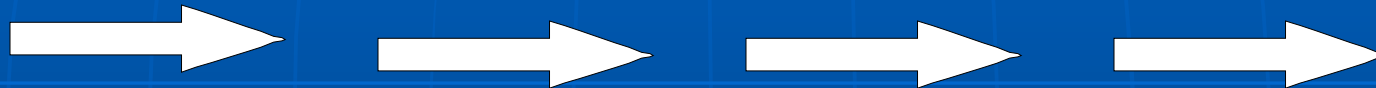
## Performance Indicators

<b>Green:</b>	Baseline Inspection
<b>White:</b>	Increased 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 Calendar Year...

	<u>2003</u>	<u>2004</u>	<u>2005</u>
Licensee Response	75	78	84
Regulatory Response	22	21	12
Degraded Cornerstone	2	0	4
Multiple/Repetitive	3	3	3
Degraded Cornerstone			
Unacceptable	0	0	0
Total	102*	102*	103

\*Davis-Besse was in IMC 0350 Process

# National Summary

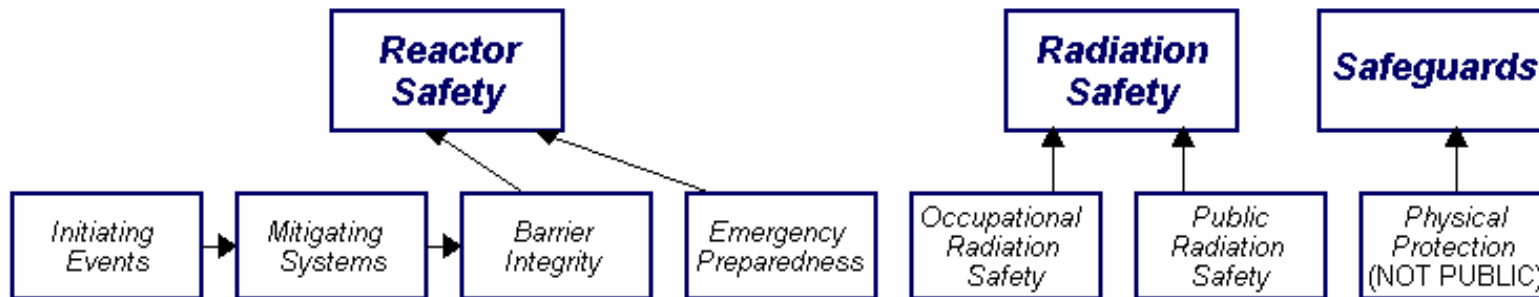
- Performance Indicator Results (at end of CY 2005)

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

- Total Inspection Findings (CY 2005)

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

# Pilgrim Performance Indicators



## Performance Indicators

Unplanned Scrams (G)	Emergency AC Power System Unavailability (G)	Reactor Coolant System Activity (G)	Drill/Exercise Performance (G)	Occupational Exposure Control Effectiveness (G)	RETS/ODCM Radiological Effluent (G)
Scrams With Loss of Normal Heat Removal (G)	High Pressure Injection System Unavailability (G)	Reactor Coolant System Leakage (G)	ERO Drill Participation (G)		
Unplanned Power Changes (G)	Heat Removal System Unavailability (G)		Alert and Notification System (G)		
	Residual Heat Removal System Unavailability (G)				
	Safety System Functional Failures (G)				

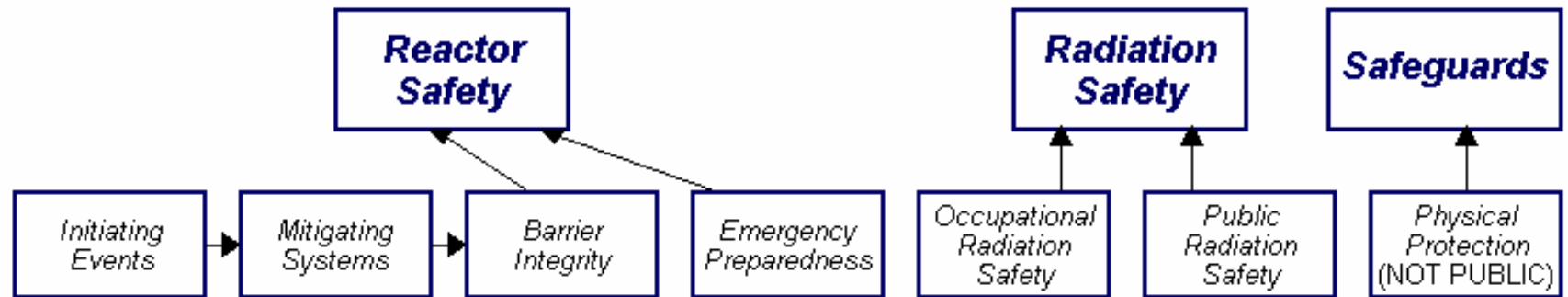
[http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/PILG/pilg\\_chart.html](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/PILG/pilg_chart.html)

# Pilgrim Inspection Activities

January 1 - December 31, 2005

- 5533 hours of inspection related activities
- 2 resident inspectors assigned to the site
- 11 regional inspections
- 1 team inspection
- Refueling outage

# Pilgrim Inspection Results



## Most Significant Inspection Findings

	Initiating Events	Mitigating Systems	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Physical Protection (NOT PUBLIC)
4Q/2005	No findings this quarter	<b>G</b>	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
3Q/2005	No findings this quarter	<b>G</b>	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
2Q/2005	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
1Q/2005	No findings this quarter	<b>G</b>	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter

[http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/PILG/pilg\\_chart.html](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/PILG/pilg_chart.html)

# Pilgrim Inspection Results

January 1 - December 31, 2005

- Inspection findings
  - 7 findings of very low safety significance (Green)
- Traditional Enforcement
  - 1 Severity Level III violation (inattentive control room operator in 2004)



# Pilgrim Annual Assessment Summary

January 1 - December 31, 2005

- Operated safely
- Licensee Response Column of Action Matrix
- NRC plans baseline inspections at Pilgrim for the remainder of the assessment period
- License Renewal inspections

# Licensee Response and Remarks

# 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

# NRC Contacts – Plant Specific Issues

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- Cliff Anderson, Branch Chief, RI (current)
  - (610) 337-5227 / [cja@nrc.gov](mailto:cja@nrc.gov)
- Ray Powell, Branch Chief, RI (eff. summer 2006)
  - [rjp@nrc.gov](mailto:rjp@nrc.gov)
- Bill Raymond, Senior Resident Inspector
  - (508) 747-0565 / [wjr@nrc.gov](mailto:wjr@nrc.gov)
- Jim Shea, Project Manager, NRR
  - (301) 415-1338 / [jjs@nrc.gov](mailto:jjs@nrc.gov)
- Kathy Weaver, Project Manager, License Renewal
  - (301) 415-3407 / [kdw@nrc.gov](mailto:kdw@nrc.gov)

# 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)