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**Do not include proprietary materials.***

DATE OF MEETING

03/12/2002

The attached document(s), which was/were handed out in this meeting, is/are to be placed in the public domain as soon as possible. The minutes of the meeting will be issued in the near future. Following are administrative details regarding this meeting:

Docket Number(s)	<b>05000277 &amp; 05000278</b>
Plant/Facility Name	<b>Peach Bottom Atomic Power Station</b>
TAC Number(s) (if available)	
Reference Meeting Notice	<b>02-007</b>
Purpose of Meeting (copy from meeting notice)	<b>The NRC staff and Exelon will discuss the results of the NRC's assessment of the safety performance at Peach Bottom for the period 4/1/2001 - 12/31/2001.</b>

NAME OF PERSON WHO ISSUED MEETING NOTICE

**Dr. Mohamed Shanbaky**

TITLE

**Chief Branch 4**

OFFICE

**Region 1**

DIVISION

**Division of Reacto Projects**

BRANCH

**Branch 4**

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Docket File/Central File  
PUBLIC

# Annual Assessment Meeting

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Reactor Oversight Program - Cycle 2



Nuclear Regulatory Commission -Region I  
King of Prussia, PA

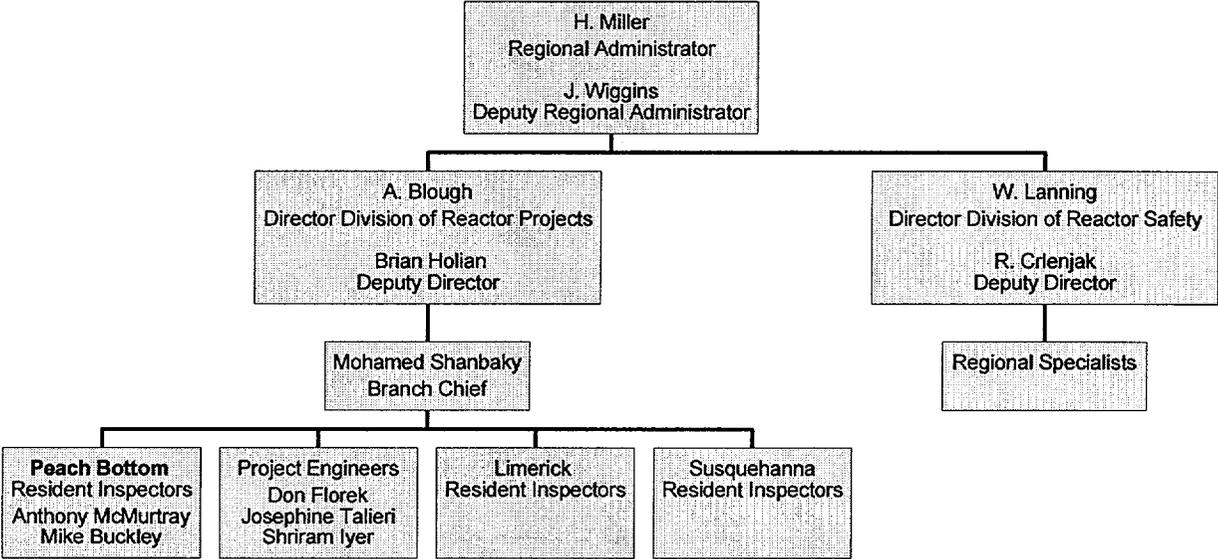
## **Agenda**

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- Introduction
- Review of Reactor Oversight Process
- Discussion of Plant Performance Results
- Licensee Response and Remarks
- NRC Closing Remarks
- Meeting with the Licensee adjourned
- NRC available to address questions from the public

# Region I Organization

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## **NRC Representatives**

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- **Brian Holian, Deputy Director, Division of Reactor Projects**  
– (beh@nrc.gov (610) 337-5080)
- **Mohamed Shanbaky, Chief Reactor Projects Branch**  
– (mms1@nrc.gov (610) 337-5209)
- **John Boska, Project Manager, NRR**  
– (jpb1@nrc.gov (301) 415-2901)
- **Don Florek, Senior Project Engineer**  
– (djf1@nrc.gov (610) 337-5185)
- **Art Burritt, Acting Senior Resident Inspector**  
– (alb1@nrc.gov (717) 456-7614)
- **Anthony McMurtray, Senior Resident Inspector**  
– (acm2@nrc.gov (717) 456-7614)
- **Mike Buckley, Resident Inspector**  
– (mjb1@nrc.gov (717) 456-7614)

## Reference Sources

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- 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)

## **NRC Activities**

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- Ensure nuclear plants are designed, constructed, and operated safely
- Issue licenses for the peaceful use of nuclear materials in the U.S.
- Ensure licensees use nuclear materials and operate plants safely, and are prepared to respond to emergencies

## **NRC Performance Goals**

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

## **NRC Oversight Activities**

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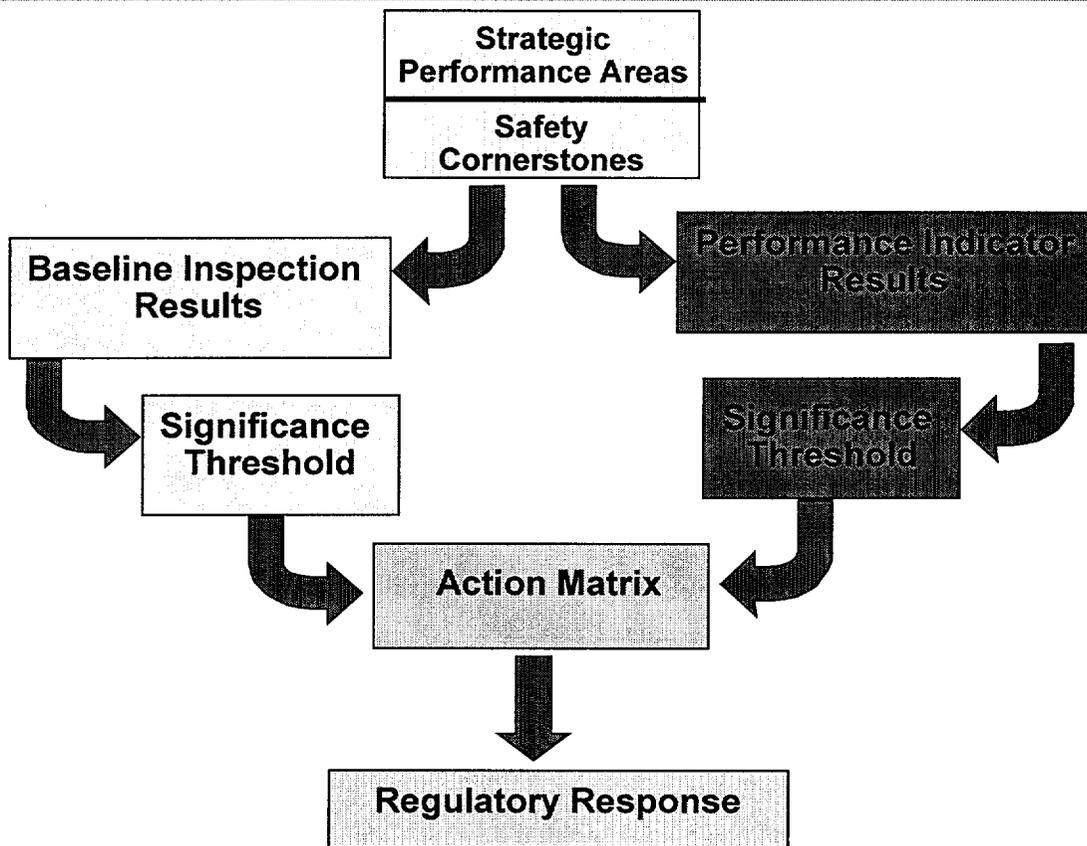
- Provides assurance plants are operating safely and in accordance with the regulations
- Risk informed process
- Objective indicators of performance
- Inspections focused on key safety areas
- Defines expected NRC and licensee actions

## **NRC Response to 9/11**

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- Highest Level of Security Maintained
- Comprehensive Review of Security
- Closely Coordinated Response With:
  - Our Licensees
  - FBI
  - Military, State, and Local Agencies
  - Intelligence Communities
- Issued Security Advisories
  - Increased Patrols
  - Augmented Security Capabilities
  - Added Barriers and Posts
  - More Limited Access
  - Enhanced Security Awareness
- Issued Order on Security
- NRC Monitoring Enhanced Security

# Reactor Oversight Process



## **Examples of Baseline Inspections**

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- Equipment Alignment ~ 70 hrs/yr
- Annual Fire Protection ~ 35 hrs/yr
- Triennial Fire Protection ~200 hrs every 3 yrs
- Operator Response ~ 125 hrs/yr
- Plant security ~40 hours/yr
- Emergency preparedness ~60 hrs/yr
- Rad release controls ~100 hrs every 2 years
- Worker radiation protection ~125 hrs/year
- Corrective action program 10% every inspection
- Corrective action program ~200 hr every 2 yrs

## **Significance Threshold**

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### **Performance Indicators**

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

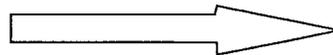
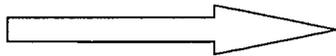
### **Inspection Findings**

Green:	Very Low safety issue
White:	Low to moderate safety issue
Yellow:	Substantial safety issue
Red:	High safety issue

# Action Matrix Concept

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<b>Licensee Response</b>	<b>Regulatory Response</b>	<b>Degraded Cornerstone</b>	<b>Multiple/Degraded Cornerstone</b>	<b>Unacceptable Performance</b>
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Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions

## **National Summary of Plant Performance**

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**End of Calendar Year 2001**

Licensee Response	74
Regulatory Response	24
Degraded Cornerstone	4
Multiple/Repetitive Degraded Cornerstone	1
Unacceptable	0
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Total Plants	103

## National Summary

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### ■ Performance Indicator Results 4th Qtr Calendar Yr 2001

▶ Green	1834
▶ White	8
▶ Yellow	0
▶ Red:	0

### ■ Total Inspection Findings (April 2001 - December 2001)

▶ Green	660
▶ White	23
▶ Yellow	2
▶ Red	0

# **Peach Bottom Annual Assessment**

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**(April 1 - Dec 31, 2001)**

- Operated safely
- Fully met all cornerstone objectives
- Regulatory Response Band of Action Matrix
  - One Inspection Finding of low to moderate safety significance (White) in Emergency Preparedness cornerstone
- All Performance Indicators requiring no additional NRC oversight (Green)
- Supplemental inspection was completed
- NRC Plans to conduct baseline inspections and inspections related to the license renewal process

# **Peach Bottom Inspection Activities**

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(Jan 1 - Dec 31, 2001)

- 4700 hours of inspection related activity
- Two resident inspectors performing resident inspections
- 18 inspections by regional inspectors
  - ▶ Includes 2 team inspections
- Inspection Findings
  - ▶ 15 findings of very low safety significance
  - ▶ 1 finding of low to moderate safety significance

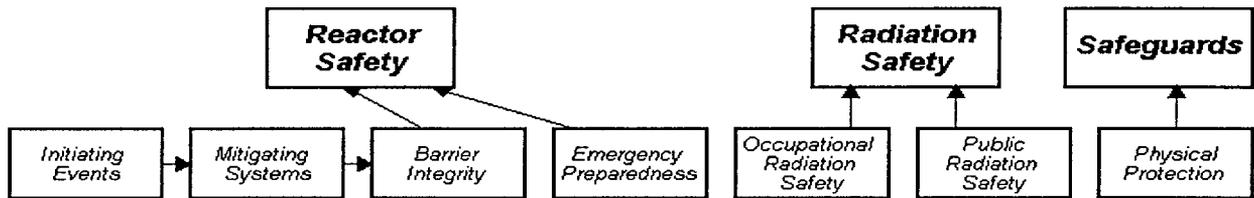
## **Emergency Preparedness Cornerstone**

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- White finding - August 2001
  - ▶ Inadequate maintenance of the on-site public address/evacuation alarm system
- Supplemental inspection - October 2001
  - ▶ Causal evaluation and actions were acceptable
- Severity Level III Violation - October 2001
  - ▶ False records and improper jumpers were installed by contractor personnel on several off-site sirens
- Inspection activity completed
  - ▶ Actions were acceptable

# Peach Bottom 2 and 3

## Performance Indicators 4Q/2001

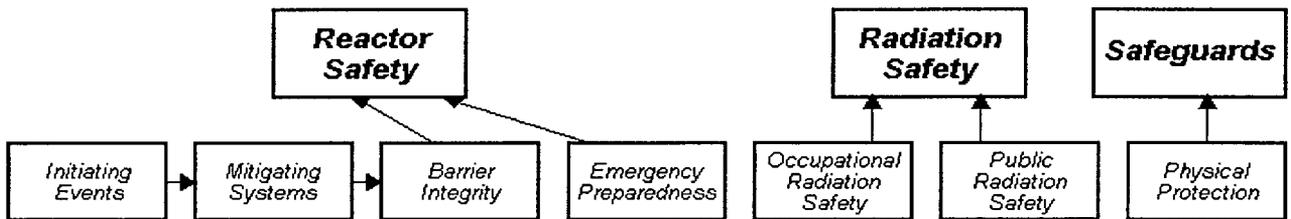


### Performance Indicators

Reactor Safety	Mitigating Systems	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Safeguards
Operating Reactors	Emergency AS Power System Availability	Reactor Core System Availability	Emergency Response Time	Occupational Exposure Limits Exceedance	Public Radiation Exposure	Physical Protection
Operating Reactors	Emergency AS Power System Availability	Reactor Core System Availability	Emergency Response Time			Physical Protection
Operating Reactors	Emergency AS Power System Availability		Emergency Response Time			Physical Protection
	Emergency AS Power System Availability					Physical Protection
	Emergency AS Power System Availability					Physical Protection

# Peach Bottom 2

## Inspection Finding Summary



### Most Significant Inspection Findings

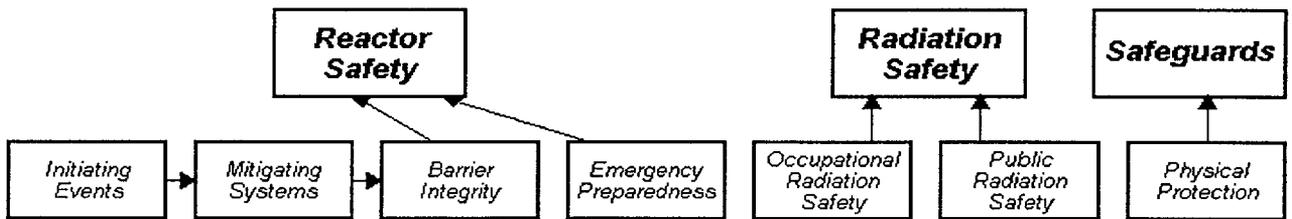
Quarter	Initiating Events	Mitigating Systems	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Physical Protection
4Q/2001	C	C	No findings this quarter	Findings without color designation	No findings this quarter	No findings this quarter	Findings this quarter
3Q/2001	No findings this quarter	C	E	W (1)	No findings this quarter	No findings this quarter	Findings this quarter
2Q/2001	No findings this quarter	No findings this quarter	C	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
1Q/2001	No findings this quarter	No findings this quarter	No findings this quarter	C			

Miscellaneous findings

### Additional Inspection & Assessment Information

# Peach Bottom 3

## Inspection Finding Summary



### Most Significant Inspection Findings

Quarter	Initiating Events	Mitigating Systems	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Physical Protection
4Q/2001	No findings this quarter	E	E	Findings without color designation	No findings this quarter	No findings this quarter	No findings this quarter
3Q/2001	No findings this quarter	E	No findings this quarter	W (1)	E	No findings this quarter	No findings this quarter
2Q/2001	No findings this quarter	E	E	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
1Q/2001	No findings this quarter	No findings this quarter	No findings this quarter	E			

Miscellaneous findings

### Additional Inspection & Assessment Information

**Exelon Slide Presented on March 12, 2002 at the  
Annual Assessment Meeting**

# Focus on Emergency Preparedness

- ◆ Personnel
  - Increased Staffing
  - Direct report to Plant Manager
- ◆ Equipment
  - Offsite siren - Change in vendor and oversight
  - Onsite Equip. – Focus on reliability and monitoring
- ◆ Process
  - Lessons learned from other sites incorporated
  - Consistent standards