

Beaver Valley Annual Assessment Meeting

Reactor Oversight Program - CY 2003



Nuclear Regulatory Commission - Region I
King of Prussia, PA
March 25, 2004

Agenda

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

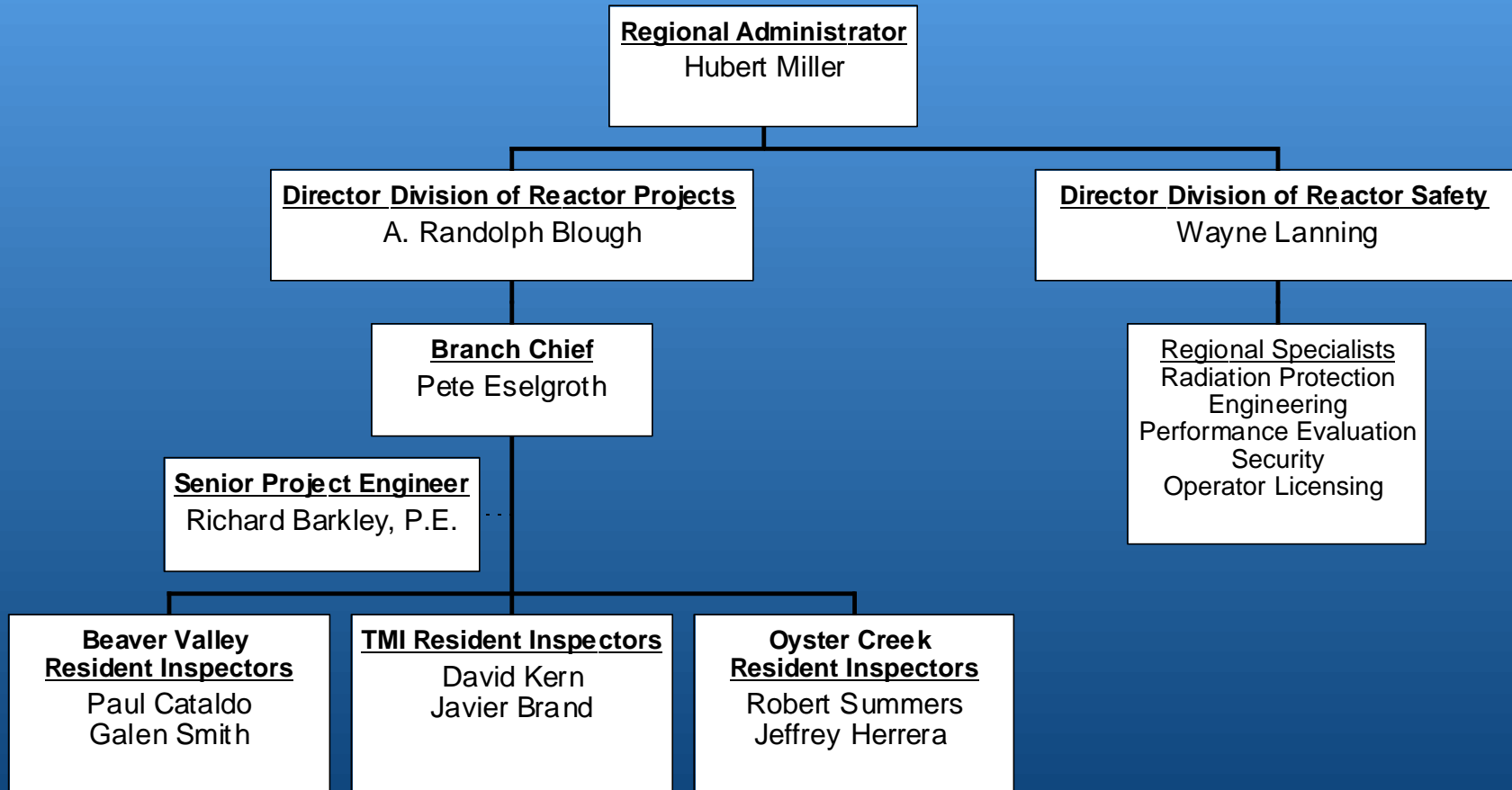
Purpose of Today's Meeting

- ! NRC will address licensee performance issues identified in our annual assessment
- ! FENOC will respond to the information in our assessment and inform the NRC of new or existing programs to maintain or improve performance
- ! NRC comments on security updates and perspectives on nuclear industry deregulation
- ! NRC will respond to questions from the public after the discussion with FENOC

NRC Representatives

- ! Peter Eselgroth, Branch Chief
 - (610) 337-5234
- ! Paul Cataldo, Senior Resident Inspector
 - (724) 643-2000
- ! Galen Smith, Resident Inspector
 - (724) 643-2000
- ! Timothy Colburn, Project Manager, NRR
 - (301) 415-1402

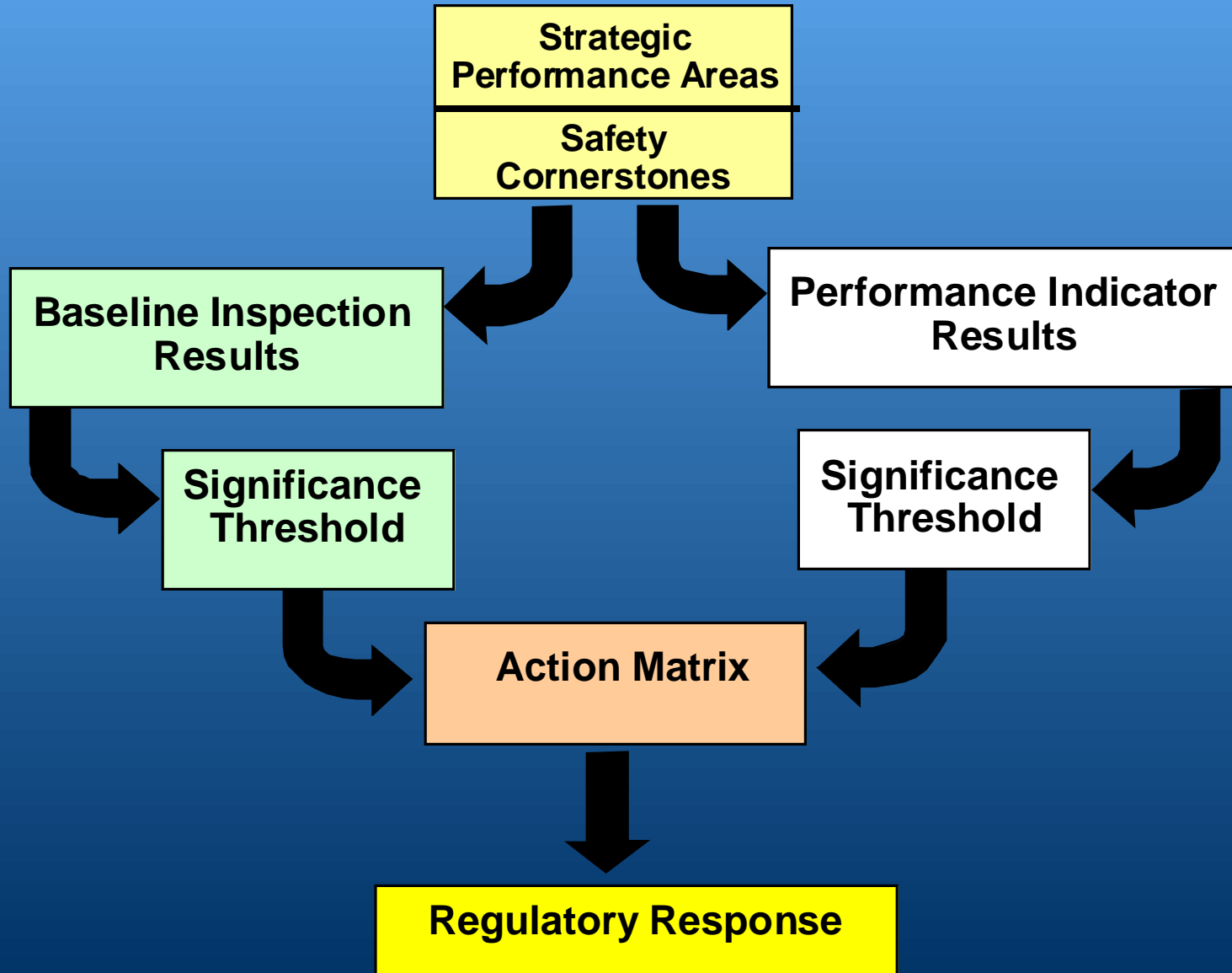
Region I Organization



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



Examples of Baseline Inspections

- ! Equipment Alignment ~92 hrs/yr
- ! Triennial Fire Protection ~200 hrs every 3 yrs
- ! Operator Response ~125 hrs/yr
- ! Emergency Preparedness ~80 hrs/yr
- ! Rad Release Controls ~100 hrs every 2 yrs
- ! Worker Radiation Protection ~100 hrs/yr
- ! Corrective Action Program ~250 hrs every 2 yrs
- ! Corrective Action Case Reviews ~60 hrs/yr

Significance Threshold

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

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance
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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 2003

Licensee Response	75
Regulatory Response	22
Degraded Cornerstone	2
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
Total Units	102*

*Davis-Besse is in IMC 0350 process

National Summary

! Performance Indicator Results (at end of CY 2003)

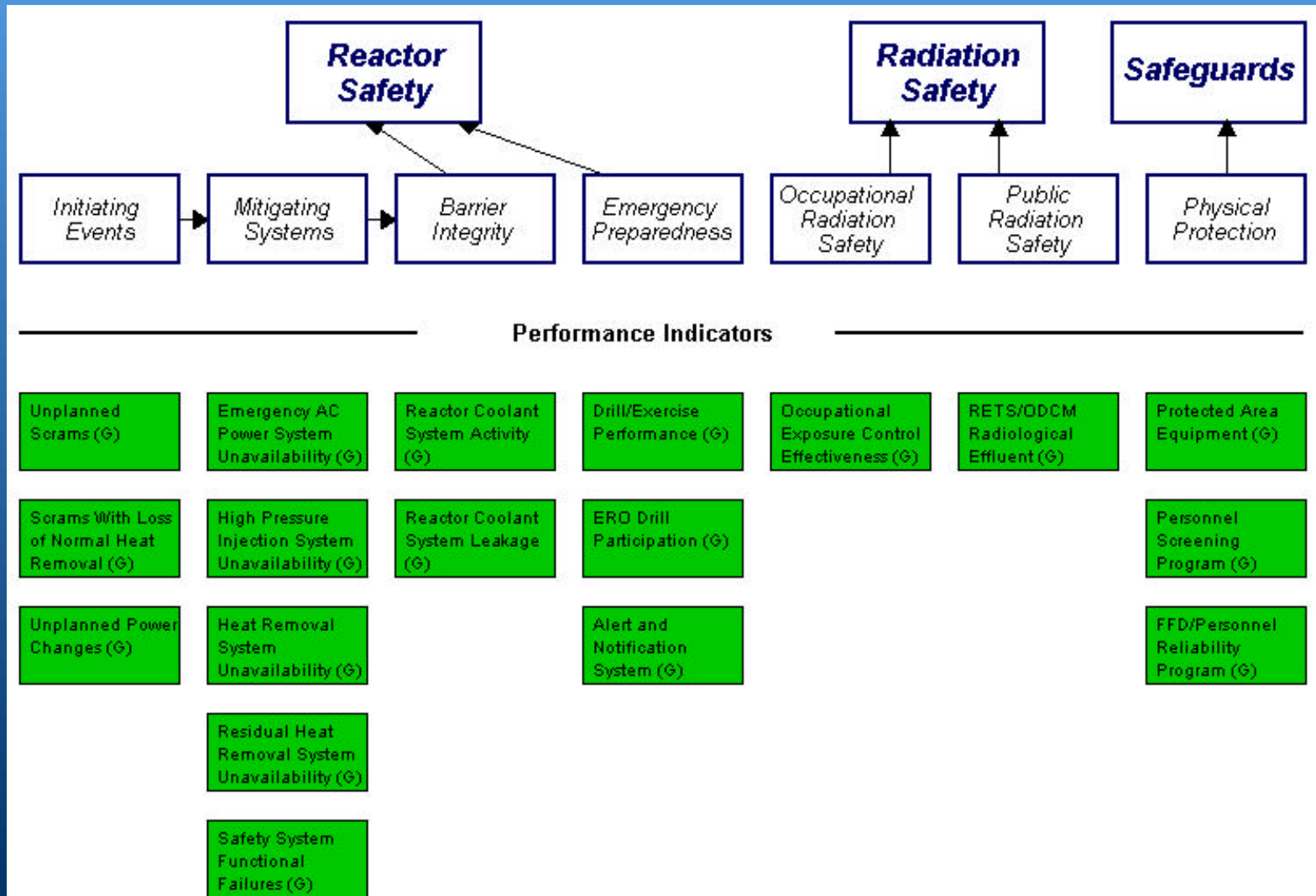
- ▶ Green 1825
- ▶ White 15
- ▶ Yellow 0
- ▶ Red 0

! Total Inspection Findings (CY 2003)

- ▶ Green 748
- ▶ White 19
- ▶ Yellow 2
- ▶ Red 4

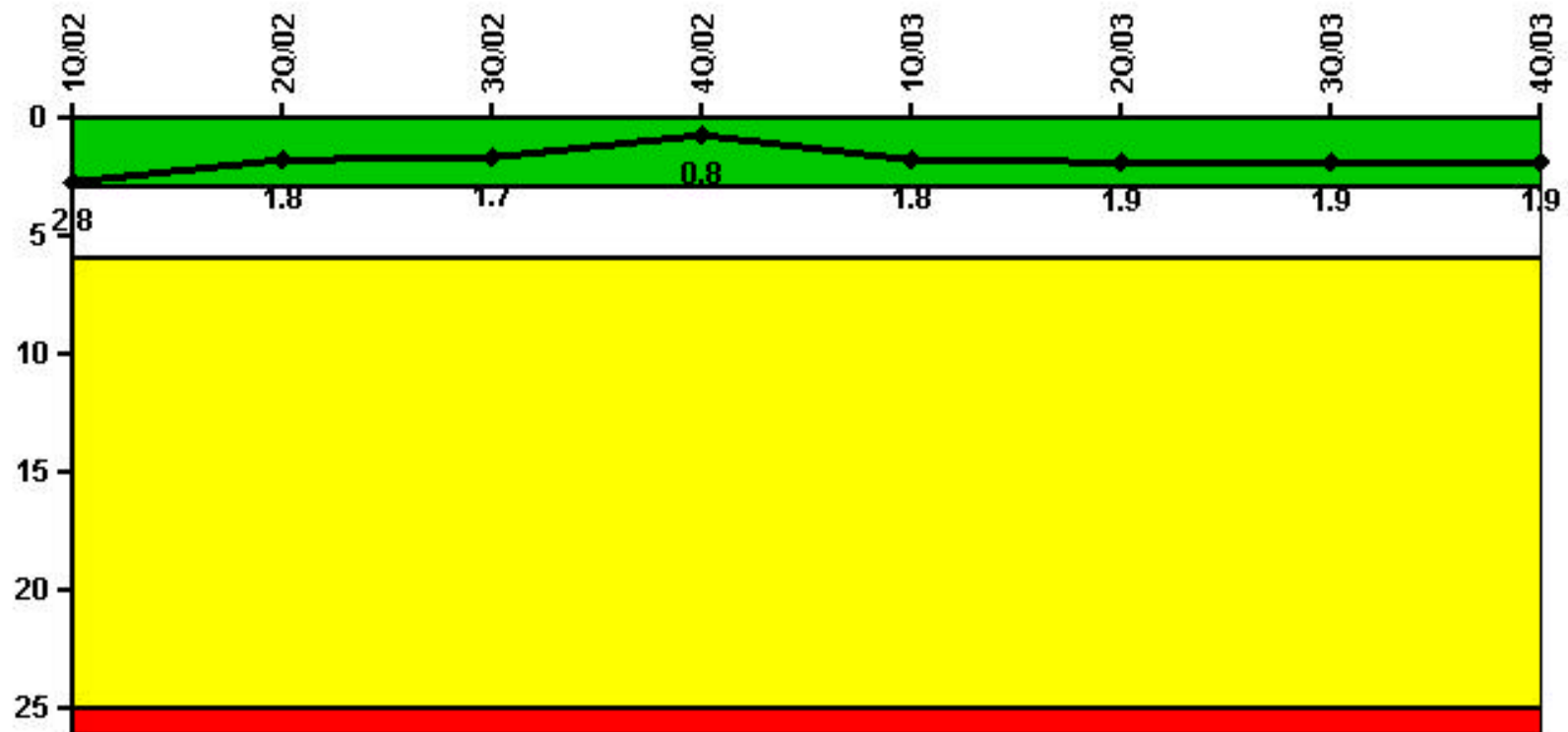
BV Unit 1 - Performance Indicators

www.nrc.gov/NRR/OVERSIGHT/ASSESS/ then click BV Unit 1



Performance Indicator

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Beaver Valley Inspection Activities

(Jan 1 - Dec 31, 2003)

- ! 5500 hours of inspection related activities
- ! 2 resident inspectors assigned to the site
- ! 17 regional inspections
- ! 1 team inspection - PI&R
- ! Inspection Findings
 - ▶ 10 findings of very low safety significance (Green)
 - ▶ 1 finding of low to moderate safety significance (White)

Beaver Valley Station Assessment

(Jan 1 - Dec 31, 2003)

- ! Operated safely
- ! Regulatory Response column of the Action Matrix for all four quarters of 2003 due to two separate White findings in the Emergency Preparedness area
- ! Supplemental EP inspections completed satisfactorily
- ! NRC will conduct baseline inspections during the next cycle

Beaver Valley Station Inspection Activities

(Jan 1 - Dec 31, 2004)

- ! 14 regional inspector visits scheduled
- ! 2 team inspections scheduled - fire protection triennial & biennial safety system design inspection

FENOC Response and Remarks

Beaver Valley
Nuclear Power Plant
First Energy Nuclear Operating Company (FENOC)

NRC Security Program Update

- ! NRC has issued Orders (February 2002):
 - ▶ Increased Patrols
 - ▶ Augmented Security Capabilities
 - ▶ Added Barriers and Posts
 - ▶ Enhanced Personnel Screening for Access
 - ▶ Enhanced Security Awareness
- ! Office of Nuclear Security and Incident Response Formed (April 2002)
- ! Established Threat Advisory and Protective Measure System (August 2002)

NRC Security Program Update (continued)

- ! Access Authorization Order (January 2003)
- ! Training Order (April 2003)
- ! Fatigue Order (April 2003)
- ! Design Basis Threat (April 2003)
- ! Changes to Site Security plans to incorporate the requirements of the orders (April 2004)
- ! Expanded Force-on-Force Exercises (in progress)
- ! New NRC Baseline Inspection Program initiated (February 2004)

Nuclear Industry Deregulation

- ! Economic Deregulation throughout Region I
- ! Competition can spur some improvements
 - ▶ Work control, planning, coordination
- ! NRC must watch for any negative impacts
- ! NRC Activities:
 - ▶ Performance Indicators
 - ▶ Corrective Action program Inspections
 - ▶ Maintenance Inspections
 - ▶ Modification Inspections
 - ▶ Safety Conscious Work Environment Assessment

Approaches for Continued Performance Success

An NRC Perspective

- ! Strong corrective action program
 - ▶ Continued low threshold for problem identification
- ! Effective engineering & technical support
- ! Penetrating internal self-assessments & employee surveys
- ! Commitment to high standards -- Maintaining a long-term view on resources

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)

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

ROP Action Matrix Summary for 2003

! Highest safety significant column that the plants were in during any quarter of the assessment period.

	Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple / Repetitive Degraded Cornerstone	Unacceptable Performance
Nationwide	65	31	3	3	0
Region I	13	12	1	0	0
Region II	24	8	0	0	0
Region III	12	7	2	2	0
Region IV	16	4	0	1	0