

Beaver Valley Annual Assessment Meeting

Reactor Oversight Program - Cycle 3



Nuclear Regulatory Commission - Region I
King of Prussia, PA

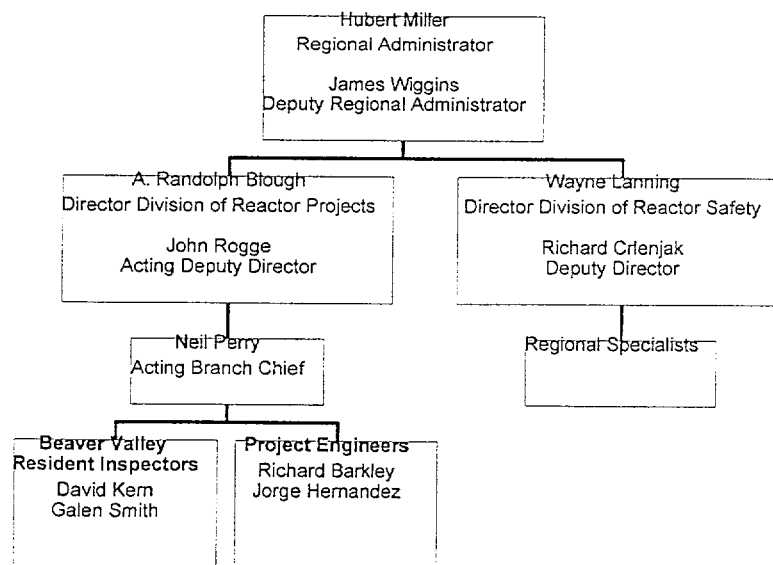
Agenda

- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- Licensee Response and Remarks
- General Topics: Security Update and Self-Improvement Efforts
- NRC Closing Remarks
- Break
- NRC available to address public questions

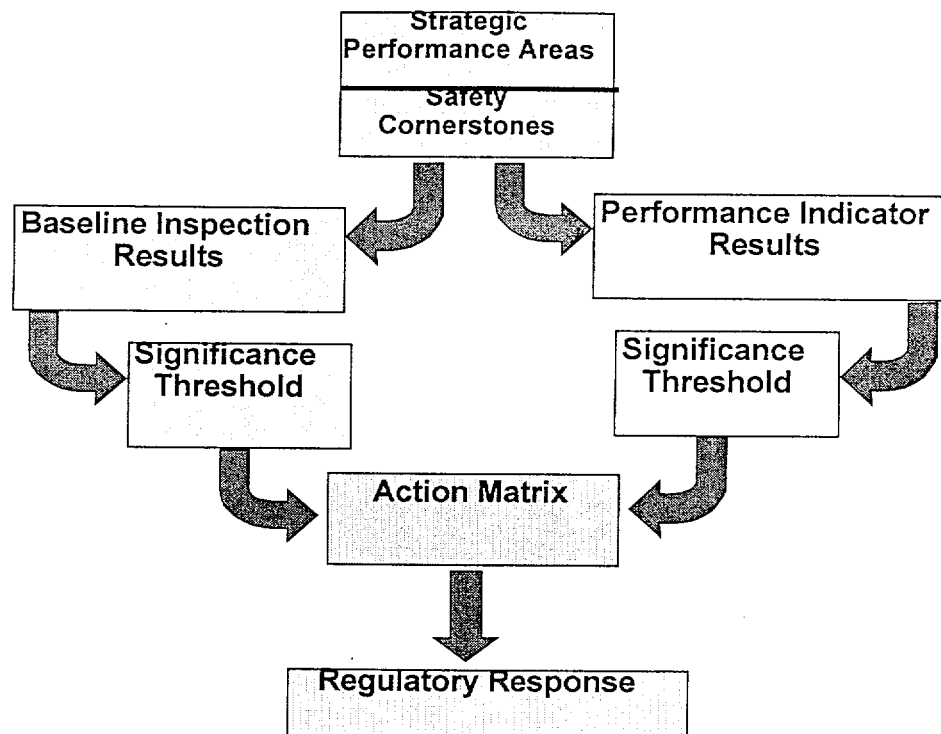
NRC Representatives

- A. Randolph Blough, Director, Division Reactor Projects
– (610) 337-5230
- John Rogge, Acting Deputy Division Director, DRP
– (610) 337-5146
- Tim Colburn, Project Manager, NRR
– (301) 415-1402
- Dave Kern, Senior Resident Inspector
– (724) 643-2000
- Galen Smith, Resident Inspector
– (724) 643-2000
- Richard Barkley, Senior Project Engineer
– (610) 337-5065
- Neil Perry, Acting Branch Chief
– (610) 337-5225

Region I Organization



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 ~200 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr

Significance Threshold

Performance Indicators

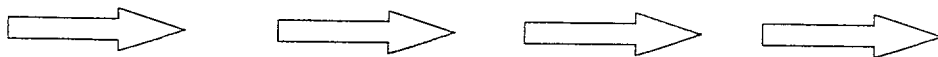
- Green:** Only Baseline Inspection
White: May increase NRC oversight
Yellow: Requires more NRC oversight
Red: Requires more NRC oversight

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 ROP Cycle 3

Licensee Response	75
Regulatory Response	24
Degraded Cornerstone	2
Multiple/Repetitive Degraded Cornerstone	1
Unacceptable	0
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Total Plants	102

*Davis-Besse is in IMC 0350 process

National Summary

- Performance Indicator Results (at end of ROP Cycle 3)
 - ▶ **Green** 1835
 - ▶ **White** 5
 - ▶ **Yellow** 0
 - ▶ **Red** 0

- Total Inspection Findings (ROP Cycle 3)
 - ▶ **Green** 783
 - ▶ **White** 30
 - ▶ **Yellow** 1
 - ▶ **Red** 2

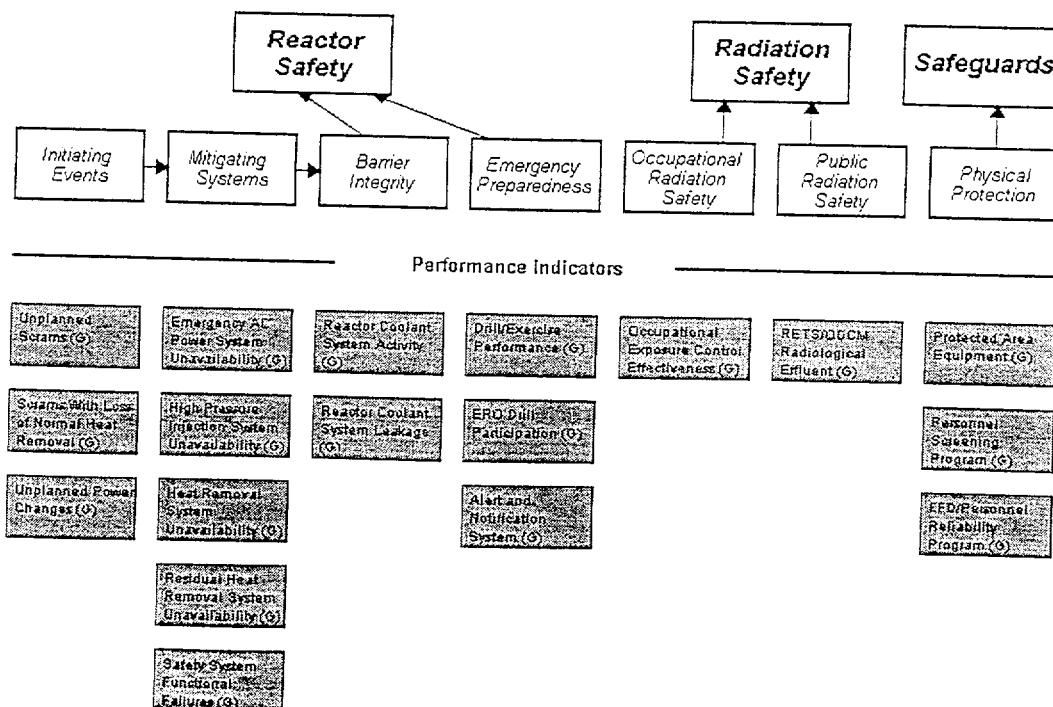
Beaver Valley Assessment Results

(Jan 1 - Dec 31, 2002)

- Regulatory Response column of the Action Matrix for 2002 due to a White finding in the Emergency Preparedness area (cornerstone objectives fully met)
- Supplemental inspection performed Feb. 24-28, 2003, of causal assessment/corrective actions for the White Finding

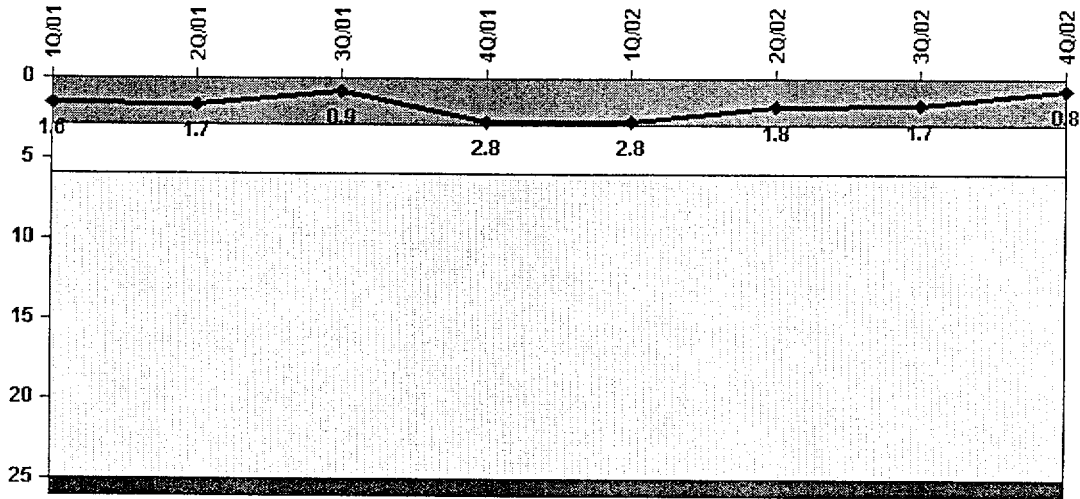
BV Unit 1 -Performance Indicators

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Performance Indicator - BV Unit 1

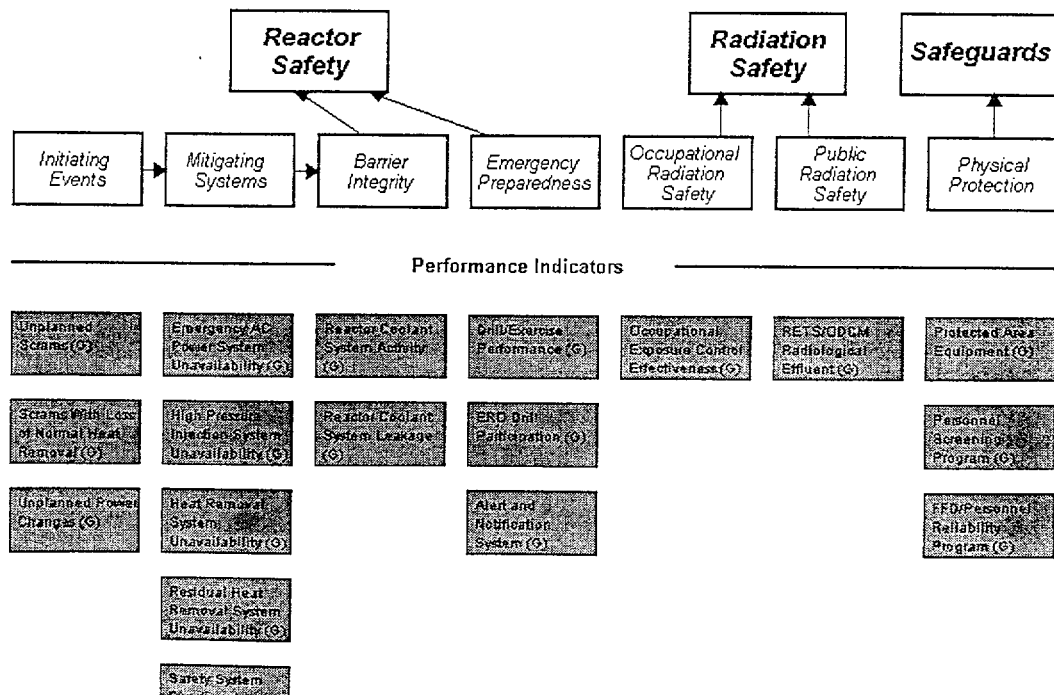
Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

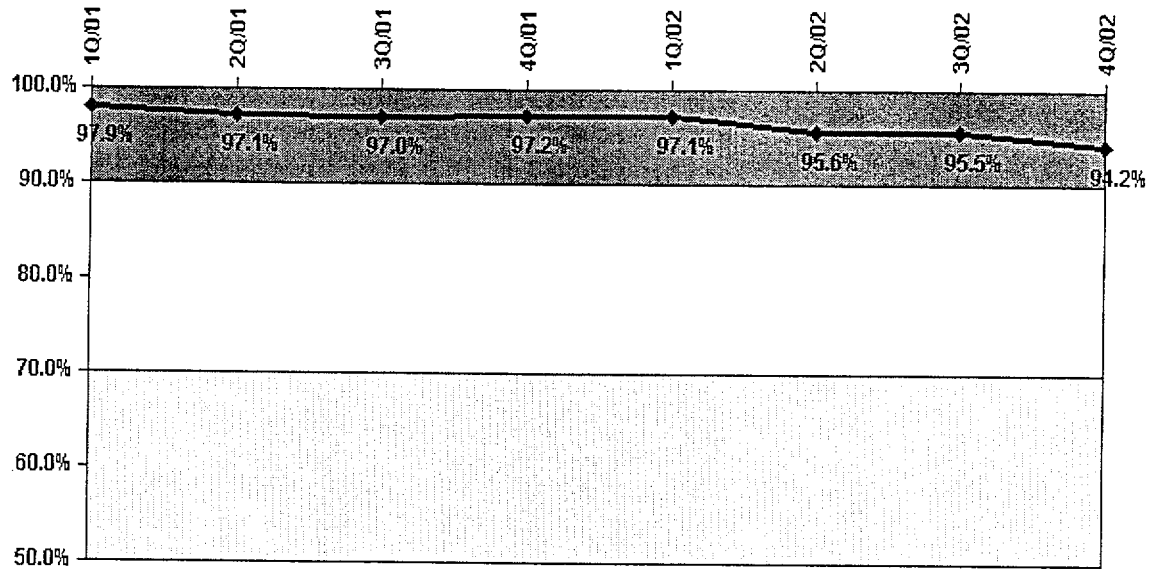
BV Unit 2 - Performance Indicators

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Performance Indicator - BV Unit 2

Drill/Exercise Performance



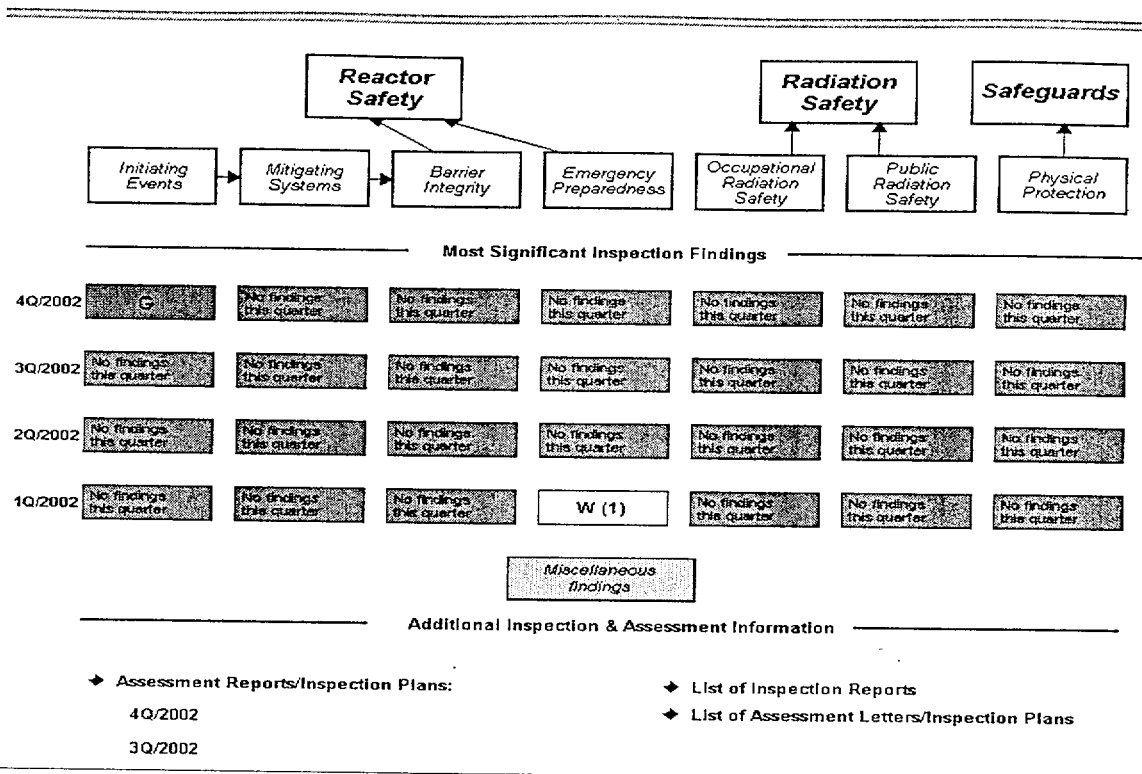
Thresholds: White < 90.0% Yellow < 70.0%

Beaver Valley Inspection Activities

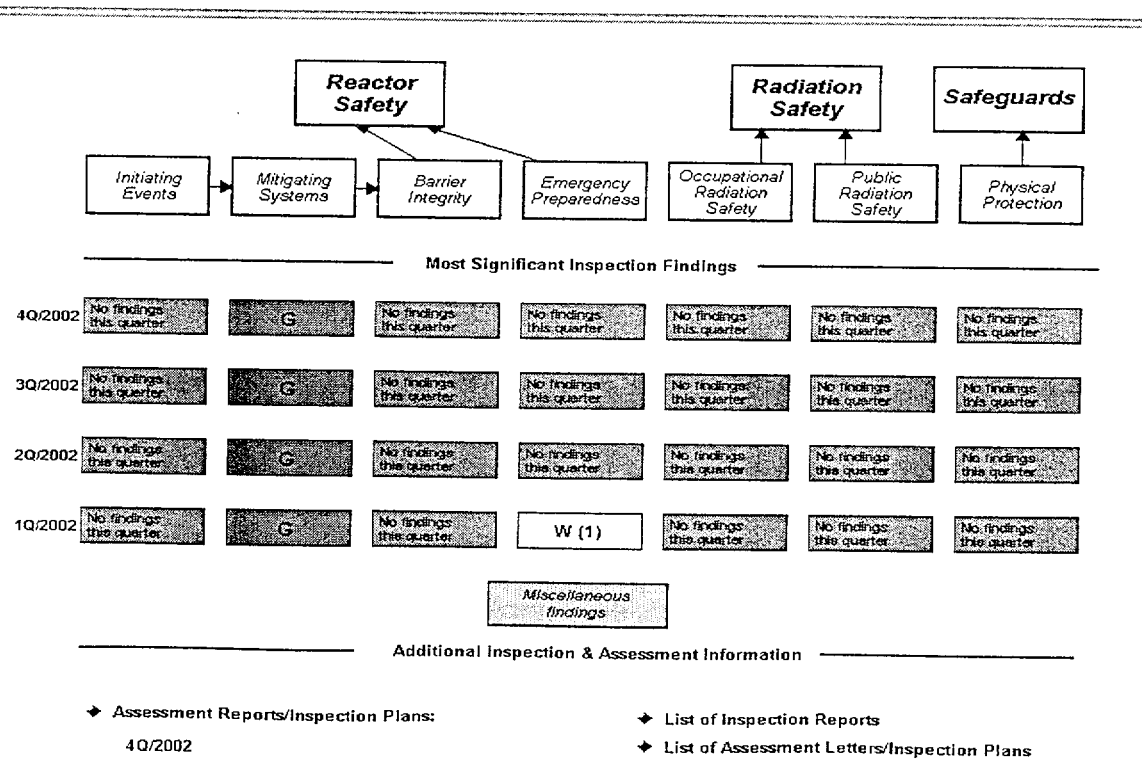
(Jan 1 - Dec 31, 2002)

- 5264 hours of inspection related activities
- 2 resident inspectors assigned to the site / new resident inspector during 1st quarter 2002
- 18 regional inspector visits
 - ▶ Included 3 team inspections
- Inspection Findings
 - ▶ 10 findings of very low safety significance (**Green**)
 - ▶ 1 finding of low to moderate significance (White)

BV Unit 1 - Inspection Results



BV Unit 2 - Inspection Results



Beaver Valley Annual Assessment Summary

January 1, 2002 - December 31, 2002

- FENOC operated Beaver Valley Units 1 & 2 in a manner that preserved public health and safety
- All cornerstone objectives were met with only one White finding identified (EP performance deficiency with PHADs inoperability)
- NRC currently plans baseline inspections at BV for the remainder of the assessment period

Licensee Response and Remarks

Mark Bezilla
Site Vice President, Beaver Valley Units 1 & 2
First Energy Nuclear Operating Company

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)
- Threat Advisory and Protective Measure System (August 2002):
 - ▶ NRC established five level threat advisory and protective measure system based on Homeland Security Advisory System

NRC Security Program Update (continued)

- Access Authorization Order (January 7, 2003)
- Force-on-Force Exercises (February 2003)
- Training Order (TBD)
- Fatigue Order (TBD)
- Design Basis Threat (TBD)

Emergency Response

- Office of Nuclear Security and Incident Response has primary responsibility
- Typical other federal agencies involved:
 - Federal Emergency Management Agency
 - Department of Energy
 - Environmental Protection Agency
 - Federal Bureau of Investigation

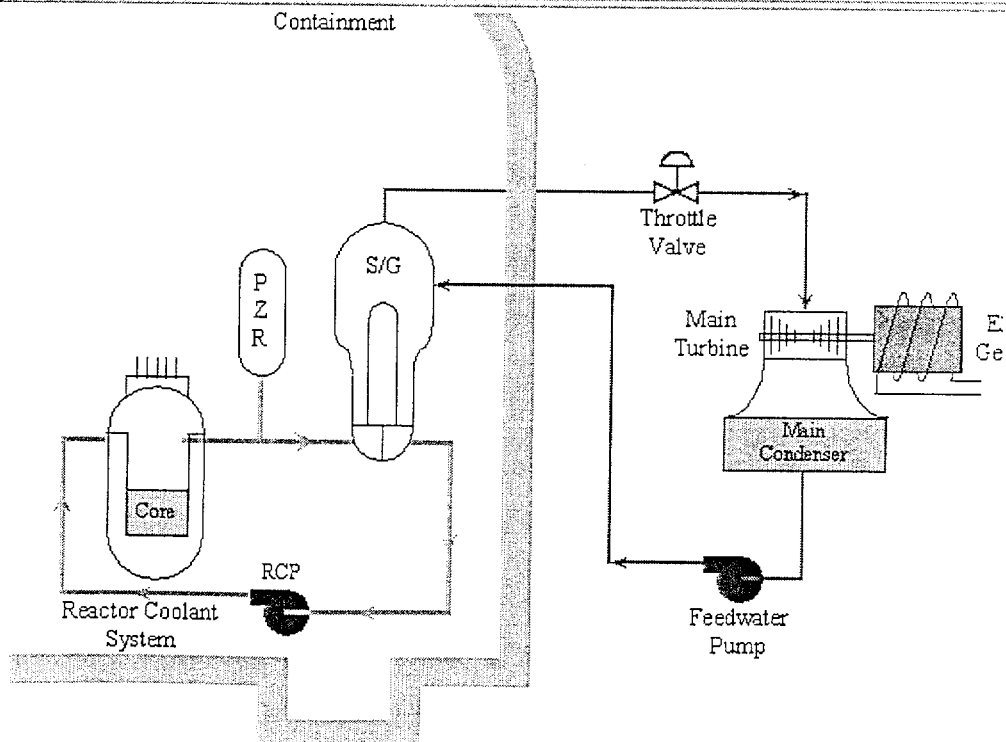
NRC Self-Improvement Efforts

- Security Enhancements
- Significance Determination Process Task Group
- Performance Indicator Program
- Davis-Besse Lessons Learned Task Force

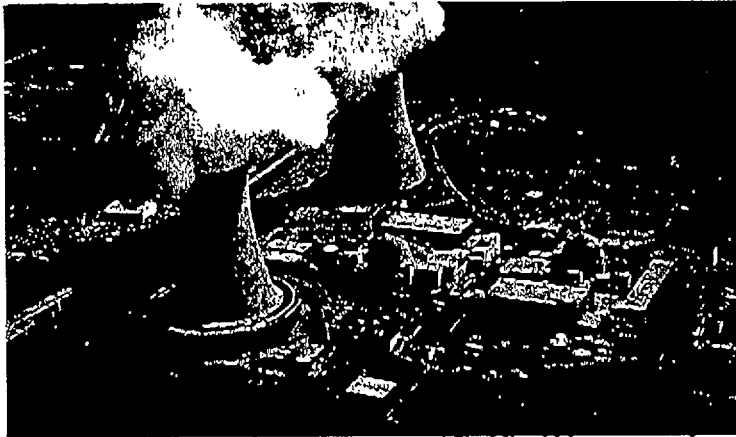
Reference Sources

- 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)

Simplified Pressurized Water Reactor



***BEAVER VALLEY PLANT ANNUAL
ASSESSMENT MEETING - April 22, 2003***



FENOC
FirstEnergy Nuclear Operating Company

BVPS Presenters

- Mark Bezilla - Site Vice President
- Jim Lash - Plant General Manager
- Bob Donnellon - Director,
Maintenance/Work Management
- Fred von Ahn - Director,
Engineering/Projects

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FirstEnergy Nuclear Operating Company

Desired Outcomes

- Operational Improvement
- Improving Materiel Condition
- Corrective Action Program - Building Block for Improving both Reliability and Safety Margin
- Investing in Long Term Initiatives with the Plant and our People



Operational Improvement

- Safety
 - Safety Culture/Safety Conscious Work Environment
 - Emergency Preparedness
 - Security
 - Radiological/Industrial
- Human Performance Initiatives
- Human Resources



Maintenance - Improving Materiel Condition

- Preventive Maintenance
- Corrective Maintenance
- Major Equipment Reliability Program

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PREMIUM QUALITY COMPANY

Engineering - Improving Plant Safety Margin

- Corrective Action Program
- Latent Issues Review Program
- Problem Solving and Decision Making
- Full Potential Program
 - Unit 1 Steam Generator and Vessel Head Replacement
 - License Renewal

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PREMIUM QUALITY COMPANY

Summary

- All Cornerstone Objectives were Met
- Safe and Reliable Operation
- Materiel Condition Improvements
- Human Performance
- Strong Management Involvement and Technical Competence to Find and Address Issues

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Fine Energy Nuclear Operations Company