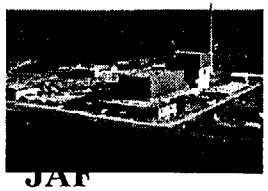
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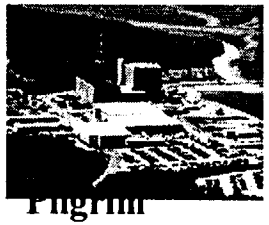
IP2 & 3

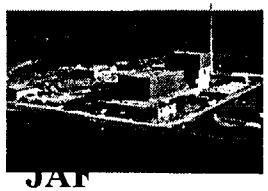

Pilgrim

NRC/JAF

PUBLIC MEETING

June 19, 2001

Entergy
Nuclear Northeast



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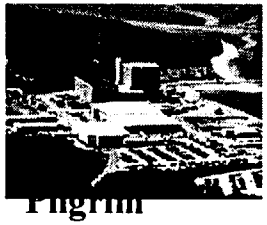


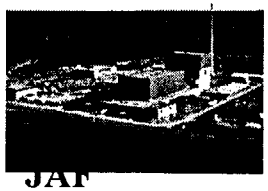
Pilgrim

TED SULLIVAN

Vice President - Operations

Entergy
Nuclear Northeast

NRC/JAF PUBLIC MEETING



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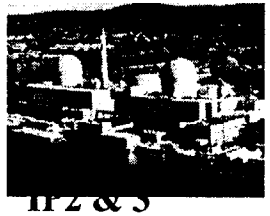

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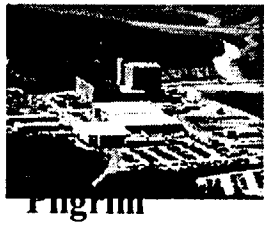

Pilgrim

- Welcome
- Opening Remarks

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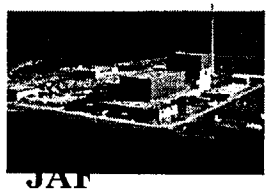
ENTERGY PARTICIPANTS



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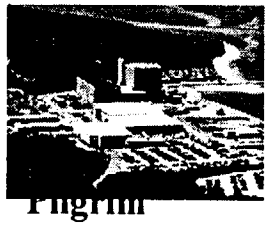

Pilgrim

Vice President - Operations	Ted Sullivan
General Mgr - Plant Operations	Mike Colomb
Director - Safety Assurance	Art Zaremba
Maintenance Manager	Bill Maguire
Director of Engineering	George Thomas
Corrective Action Program Mgr.	Steve Bono

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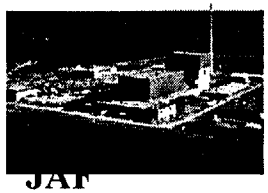
Nuclear Northeast



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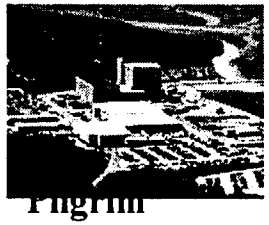


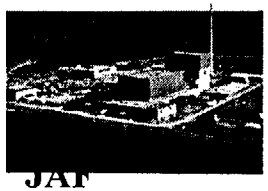
Pilgrim

MIKE COLOMB

General Manager - Plant Operations

Entergy
Nuclear Northeast

JAMES A. FITZPATRICK



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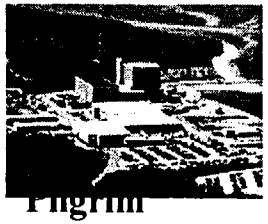

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PLANT STATUS

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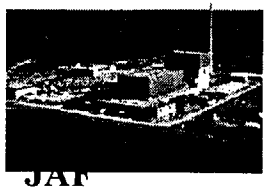
JAMES A. FITZPATRICK



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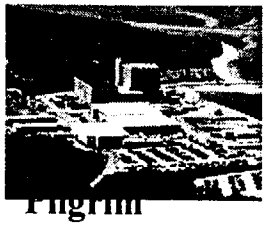

Pilgrim

- Safety System Performance Update
  - LCO Improvements
  - Unavailability

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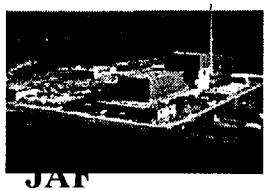

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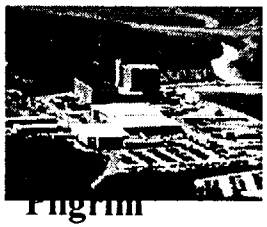

Pilgrim

- Unplanned Power Changes
- Site-Wide Priority List

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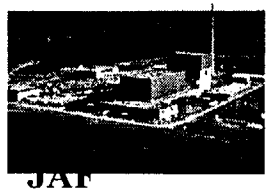
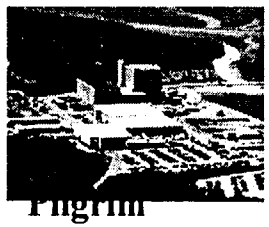


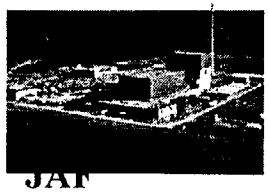


BILL MAGUIRE

Maintenance Manager

Entergy
Nuclear Northeast

JAMES A. FITZPATRICK



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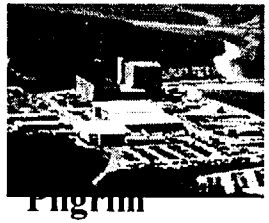

Pilgrim

Equipment Reliability Improvement

- Work Schedule
- FIN Team
- Work Practices
- Resource Sharing

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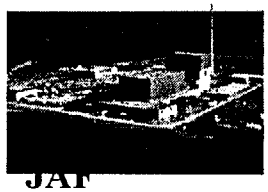

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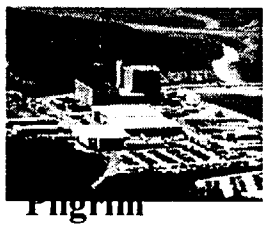


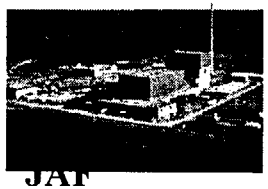
Pilgrim

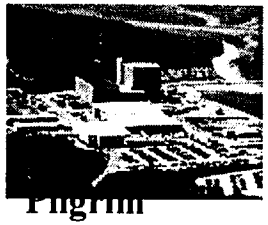
GEORGE THOMAS

Director - Engineering

Entergy
Nuclear Northeast

JAMES A. FITZPATRICK





Strengthening Engineering Support

- MSIVs
- Operability Determinations
- Extent of Condition Reviews
- Alignment

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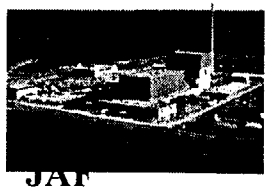
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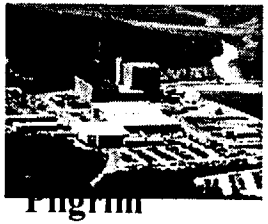
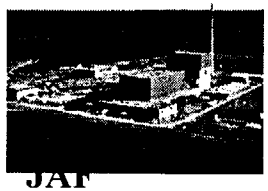

Pilgrim

STEVE BONO

Corrective Action Program Manager

Entergy
Nuclear Northeast

CORRECTIVE ACTION PROGRAM



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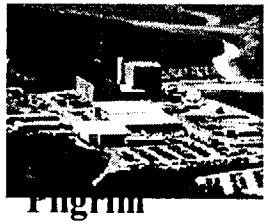
IP2 & 3



Pilgrim

Improvement Plan

ACTIONS COMPLETED:

- People:
  - Expectations/Goals
  - Root Cause Coordinator Position
  - Process Training
- Process:
  - Benchmarking/Streamlining
  - Screening Committee
  - Corrective Action Review Board (CARB) Charter

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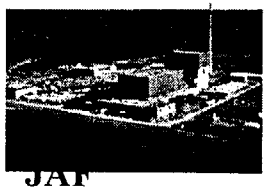
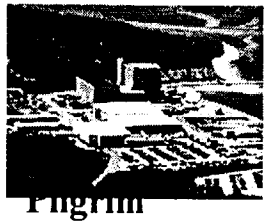
CORRECTIVE ACTION PROGRAM





Improvement Plan

RESULTS ACHIEVED:

- Screening Consistency
- Improved Quality of Evaluations
- Open Corrective Action Items Reduced >20%

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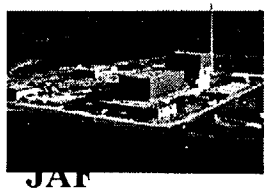
CORRECTIVE ACTION PROGRAM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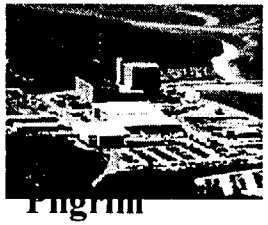
Pilgrim

Improvement Plan

WORK IN-PROGRESS:

- Communications
- Backlog Reduction
- Department Corrective Action Coordinators
- Root Cause Techniques Training
- Assessment

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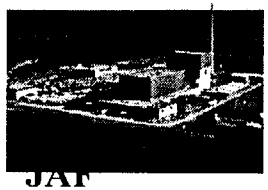

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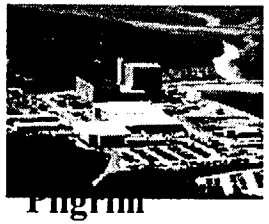


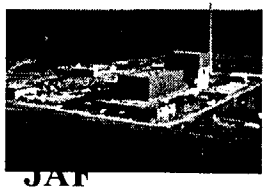
Pilgrim

MIKE COLOMB

General Manager - Plant Operations

Entergy
Nuclear Northeast

JAMES A. FITZPATRICK



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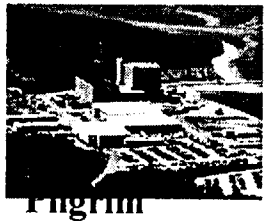

Pilgrim

- Equipment Performance
- Engineering
- Corrective Action Program

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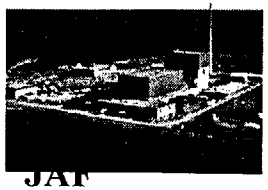
Nuclear Northeast



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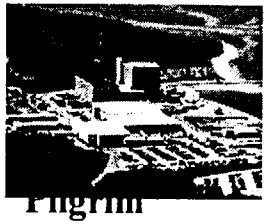
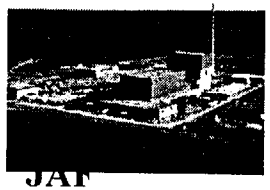


Pilgrim

TED SULLIVAN

Vice President - Operations

Entergy
Nuclear Northeast



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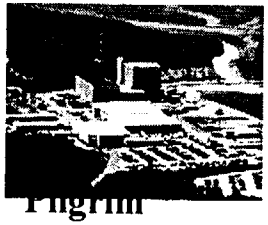


Pilgrim

NRC/JAF

PUBLIC MEETING

June 19, 2001

Entergy
Nuclear Northeast

ANNUAL ASSESSMENT MEETING

Nuclear Regulatory Commission

Agenda

- Introduction
- Review of Reactor Oversight Process
- Discussion of Plant Performance Results
- Licensee Remarks
- NRC Closing Remarks

NRC Representatives

- Richard V. Crlenjak, Deputy Director -Division of Reactor Projects

  (rvc@nrc.gov (610) 337-5080

- Glenn Meyer, Chief - Reactor Projects Branch 3

  (gwm@nrc.gov (610) 337-5211)

- Rick Rasmussen, Senior Resident Inspector

  (rar@nrc.gov (315)342- 4907)

Reactor Oversight Process
NRC Web Site

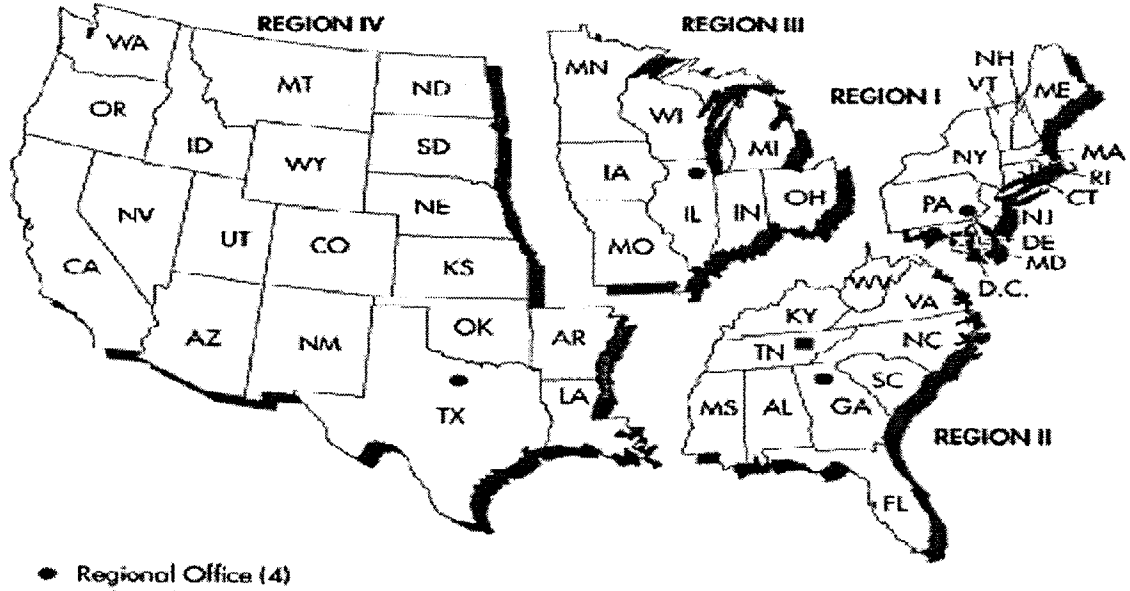
http://www.nrc.gov/NRR/OVERSIGHT/index.html

Documents are available on ADAMS or by
contacting the PDR at 1-800-397-4209

NRC Activities

- 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 REGIONAL OFFICES



- Regional Office (4)
- Technical Training Center (1)
- Headquarters (1)

Note: Alaska and Hawaii are included in Region IV.
Source: Nuclear Regulatory Commission

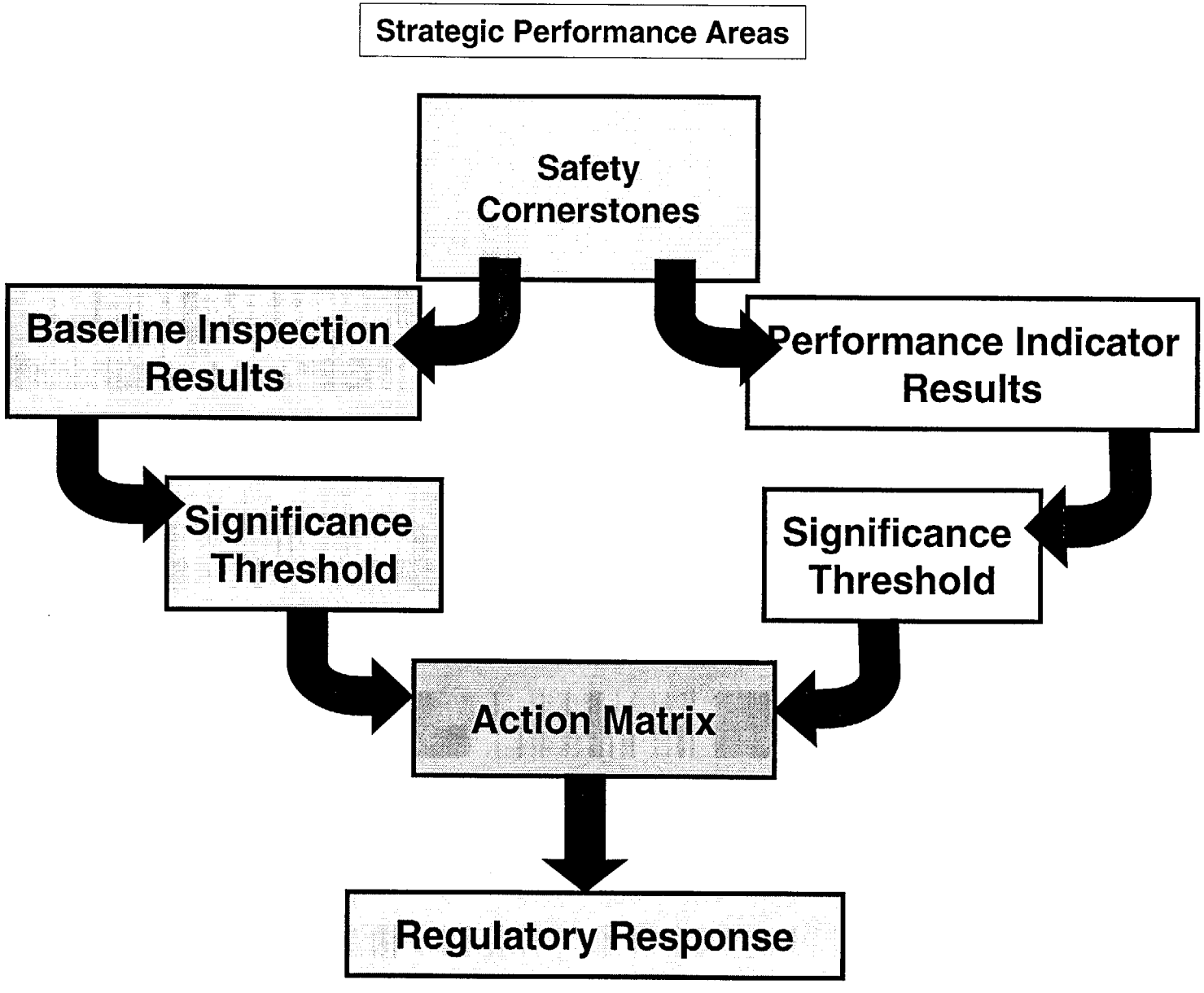
NRC Performance Goals

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

NRC Oversight Activities

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

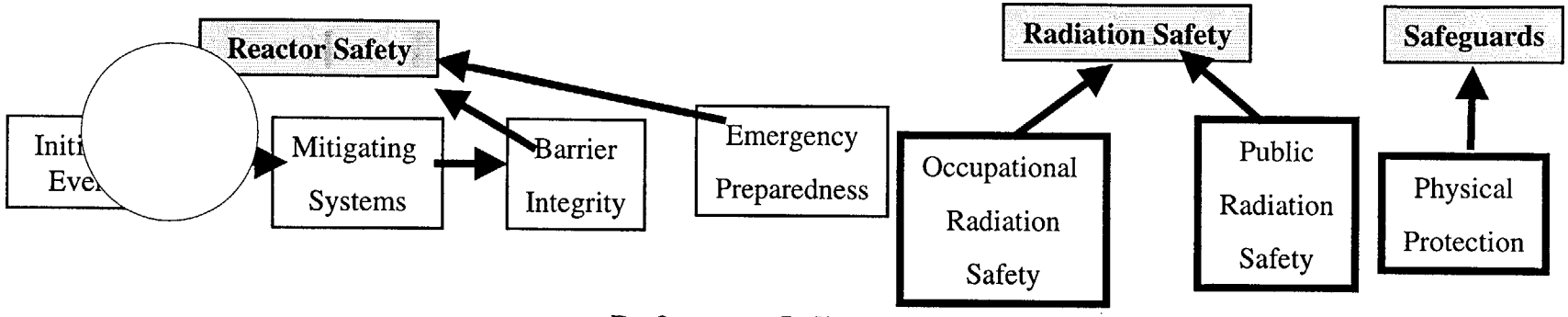
Reactor Oversight Process



Strategic Performance Areas
Safety Cornerstones

- Reactor Safety
  -
  -
  -
  -
- Radiation Safety
  -
  -
- Safeguards
  -

Relationship of Strategic Performance Areas, Safety Cornerstones and Performance Indicators



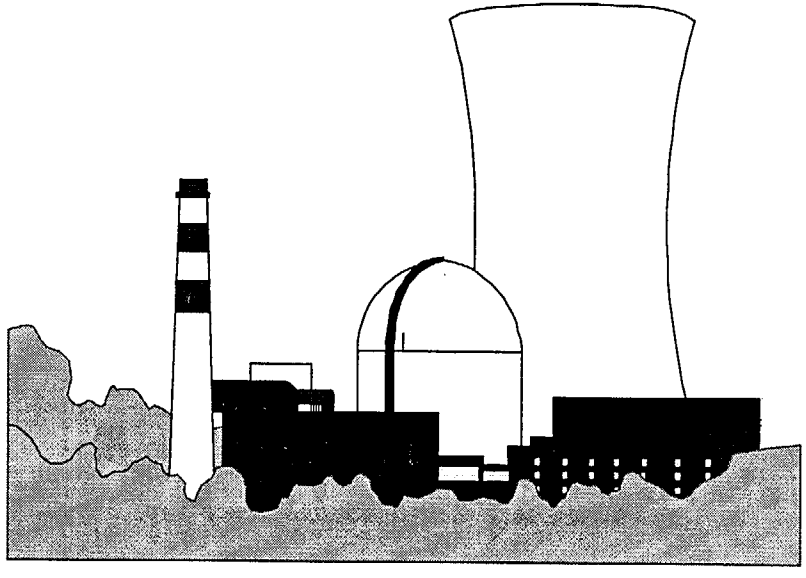
Performance Indicators

- Unplanned Scrams
- Scrams with Loss of Normal Heat Removal
- Unplanned Power Change
- Emergency AC Power System Unavailability
- High Pressure Injection System Unavailability
- Heat Removal System Unavailability
- Residual Heat Removal System Unavailability
- Safety System Functional Failure
- Reactor Coolant System Specific Activity
- Reactor Coolant System Leakage
- Drill/Exercise Performance
- ERO Drill Participation
- Alert and Notification System
- Occupational Exposure Control Effectiveness
- RETS/ODCM Radiological Effluents
- Protected Area Equipment
- Personnel Screening Program
- FFD/Personnel Reliability Program

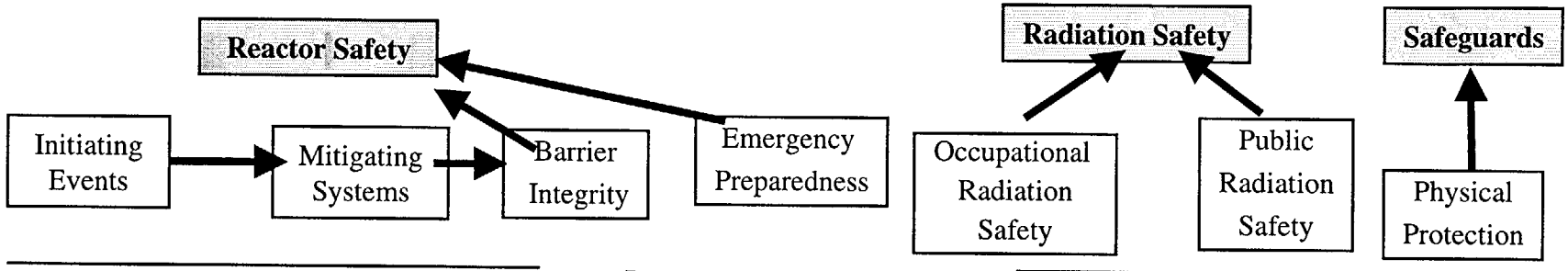
NRC Resident and Regional Inspectors Conduct Safety Inspections

Baseline Inspections at all reactor sites to monitor plant safety performance in each of the strategic Performance Areas

Event Follow-up and Supplemental Inspections when required



Inspection Areas



Inspection Procedures

- Adverse Weather
- Evaluation of Changes
- Equipment Alignment
- Fire Protection
- Flood Protection
- Heat Sink
- In-service Inspection
- Operator Requalificaiton
- Maintenance Rule Imp
- Non-Routine Plant Events

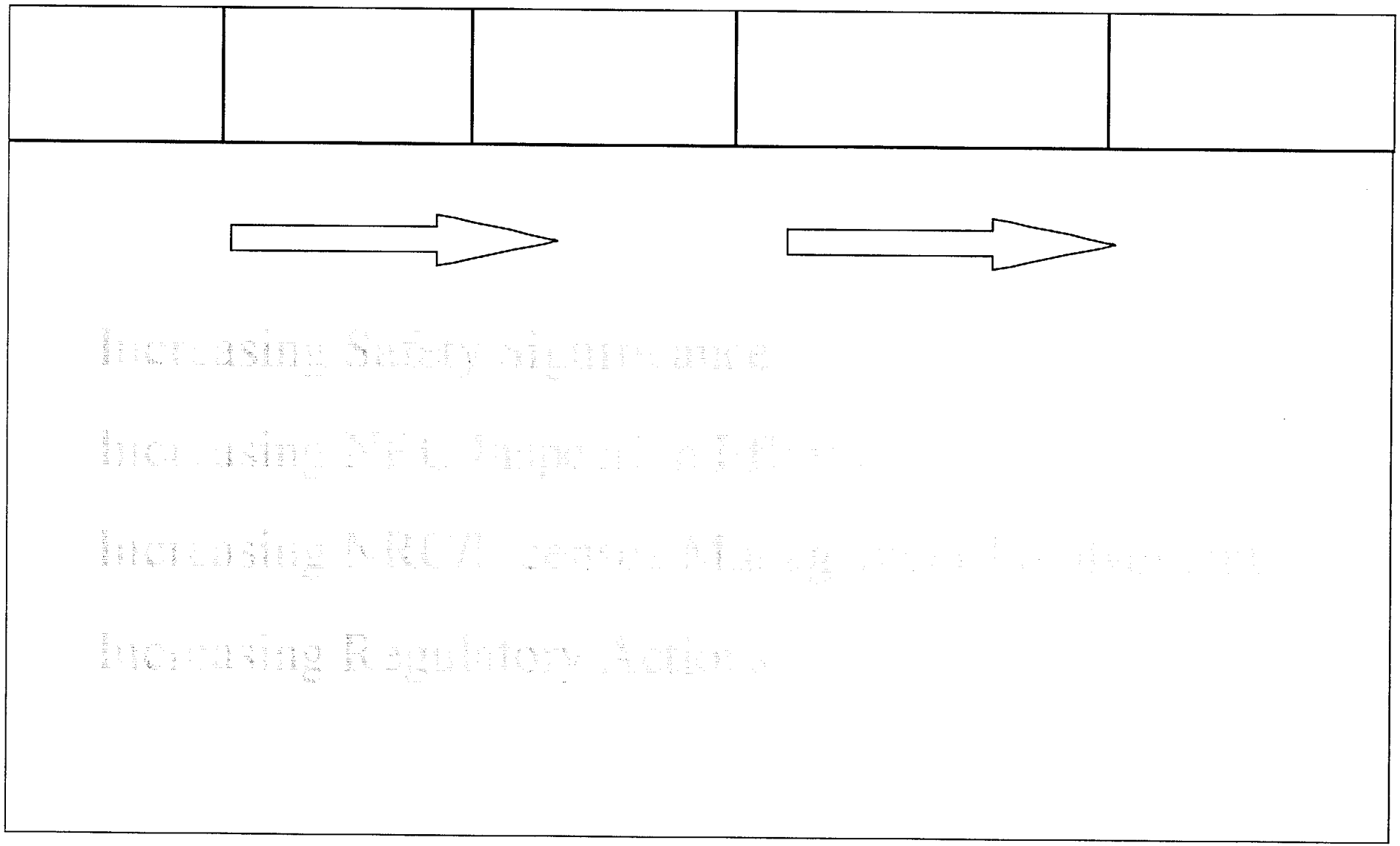
- Operability Evaluation
- Operator Workarounds
- Permanent Plant Mods-Online
- Permanent Mods
- Post Maintenance Testing
- Refueling Outage
- SSDI
- Surveillance Testing
- Temporary Modifications
- PI&R
- Event Follow-up
- PI Verification

- Exercise Evaluation
- Alert and Notice
- ERO Augment
- EAL
- EP Preparation
- Drill Evaluation
- RAD Access
- ALARA Plan
- RAD monitoring
- RAD effluents
- RAD Transport
- RAD Environmental

- Sec Authorization Access
- Sec Search
- Sec Response
- Sec Plan change

Key Aspects of Baseline Inspection Program

- Objective evidence of plant safety
- Conducted at all plants
- Emphases safety significant systems, components, activities, and events
- Monitors licensee effectiveness in finding and fixing safety issues
- Inspection reports describe significant findings and non-compliance
- Inspection reports are publicly accessible


Increasing Safety Significance
Increasing NRC Inspection Effort
Increasing NRC Licensee Management Involvement
Increasing Regulatory Action

Examples of Baseline Inspections

- Plant safety tours
- Plant control room tours
- Maintenance and alignment of equipment
- Operator response during simulated emergency conditions
- Worker radiation protection
- Controls for radiation releases
- Plant security

Event Follow-up and Supplemental Inspection

- Review events for significance
- Follow-up significant inspection findings
- Determine causes of performance declines
- Provides for graduated response

Significance Threshold

Performance Indicators

Green: Performance requiring no NRC oversight beyond Baseline Inspection

White: Performance may result in increased NRC oversight

Yellow: Performance that minimally reduces safety margin and requires more NRC oversight

Red: Performance that represents significant reduction in safety, requires more NRC oversight, but provides adequate protection to public health and safety

Inspection Findings

Green: Very low safety issue

White: Low to moderate safety issue

Yellow: Substantial safety issue

Red: High safety issue

Key Aspects of Assessment Program

- Objective assessment of performance
- "Action Matrix" to determine agency response to performance:
  - Inspection level increases
  - Management involvement increases
  - Regulatory actions increase
- Plant specific assessment letters
- Information on NRC public web site

First Quarter Calendar Year 2001 Performance Indicator Results

Green

Red

Green

Red

National Summary Of Plant Performance -102 Plants End of First Quarter Calendar Year 2001

License Response	[illegible]
Regulatory Response	15
Degraded Cornerstone	[illegible]
Multiple/Repeat Degraded Cornerstone	[illegible]
Unacceptable	[illegible]

FitzPatrick Annual Assessment

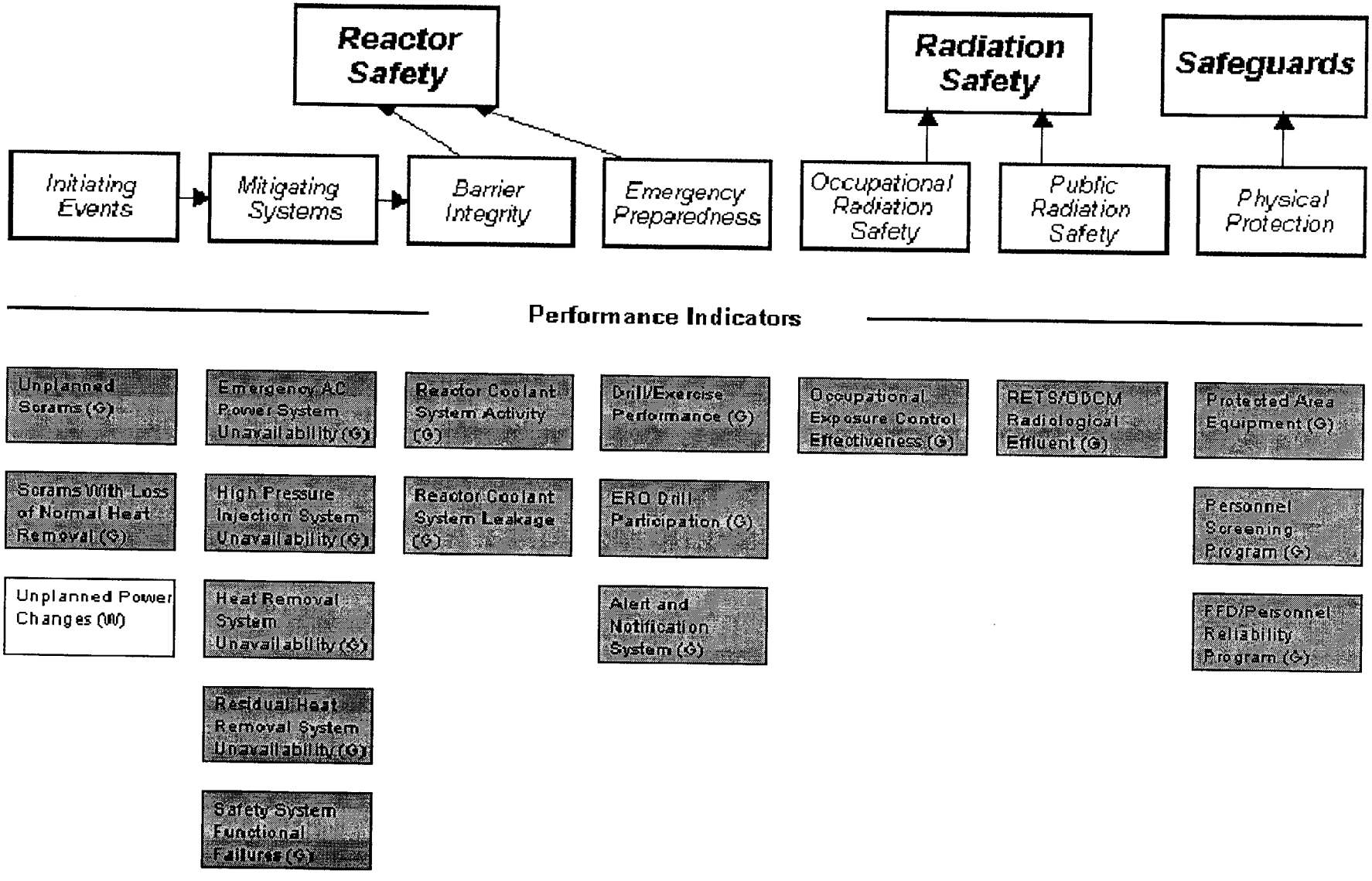
- Operated safely
- Fully met all cornerstone objectives
- Current performance within Regulatory Response Column of Action Matrix
    - All Inspection Findings of very low safety significance (Green)
    - One White Performance Indicator - Unplanned Power Changes
- NRC Plans to conduct baseline inspections during ROP - 2

FitzPatrick Annual Assessment

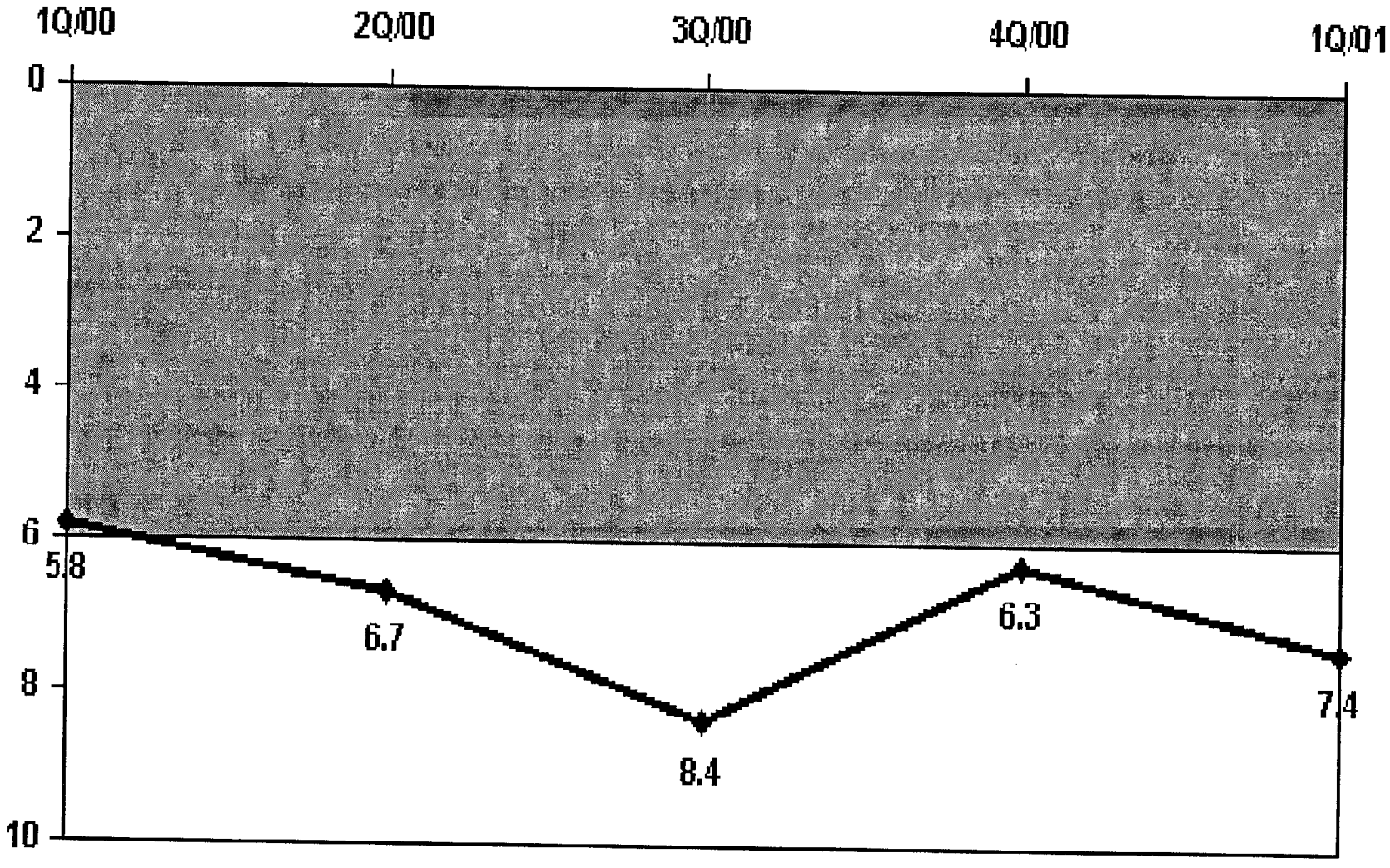
Safety Significant Issues identified and corrected earlier in assessment period

- Low to moderate safety issue (White) in Mitigating Systems Cornerstone
  - HPCI failure during October 1999 event.
  - Supplemental inspection completed.
- Performance Indicator that indicated a need for increased NRC oversight (White)
  - Unplanned power changes for four consecutive quarters. Supplemental inspection completed.

FitzPatrick
1Q/2001 Performance Summary



Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

	Initiating Events →	Mitigating Systems →	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Physical Protection
Most Significant Inspection Findings							
1Q/2001	No findings this quarter	G	No findings this quarter	No findings this quarter	Findings without color designation	No findings this quarter	No findings this quarter
4Q/2000	No findings this quarter	G	Findings without color designation	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
3Q/2000	No findings this quarter	G	G	G	G	No findings this quarter	No findings this quarter
2Q/2000	G	G	G	No findings this quarter	No findings this quarter	No findings this quarter	G

Miscellaneous findings

Additional Inspection & Assessment Information

- **Assessment Reports/Inspection Plans:**
  - **1Q/2001**
  - **4Q/2000**
  - **3Q/2000**
  - **2Q/2000**
- **List of Inspection Reports**