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Do not include proprietary materials.

DATE OF MEETING

6/26/01

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)

05000317 ; 05000318

Plant/Facility Name

Calvert Cliffs Nuclear Power Plant

TAC Number(s) (if available)

N/A

Reference Meeting Notice

Meeting Notice No. 01-021

Purpose of Meeting
(copy from meeting notice)

Meeting between Calvert Cliffs Nuclear Power Plant, Inc. management and the NRC staff to discuss the end-of-cycle plant performance assessment as documented via letter dated May 31, 2001.

NAME OF PERSON WHO ISSUED MEETING NOTICE

Michele G. Evans

TITLE

Chief, Reactor Projects Branch 1

OFFICE

Region I

DIVISION

Division of Reactor Projects

BRANCH

Branch 1

Distribution of this form and attachments:

Docket File/Central File
PUBLIC

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

- Michele Evans, Chief Reactor Projects Branch 1
 - (mge@nrc.gov (610) 337-5224)
- William Cook, Senior Project Engineer
 - (wac1@nrc.gov (610) 337-5074)
- Paulette Torres, Project Engineer
 - (pat3@nrc.gov (610) 337-5142)
- Dave Beaulieu, Senior Resident Inspector
 - (dpb@nrc.gov (410) 586-2626)
- Fred Bower, Resident Inspector
 - (flb@nrc.gov (410) 586-2626)

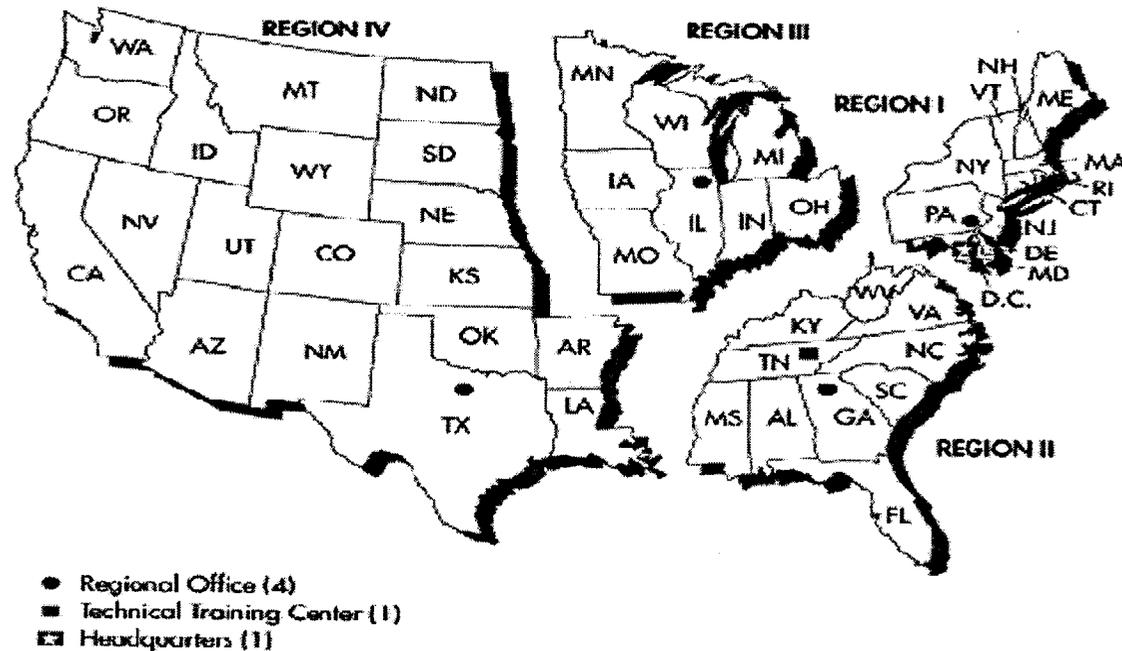
Reactor Oversight Process NRC Web site

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

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



Note: Alaska and Hawaii are included in Region IV.

Source: Nuclear Regulatory Commission

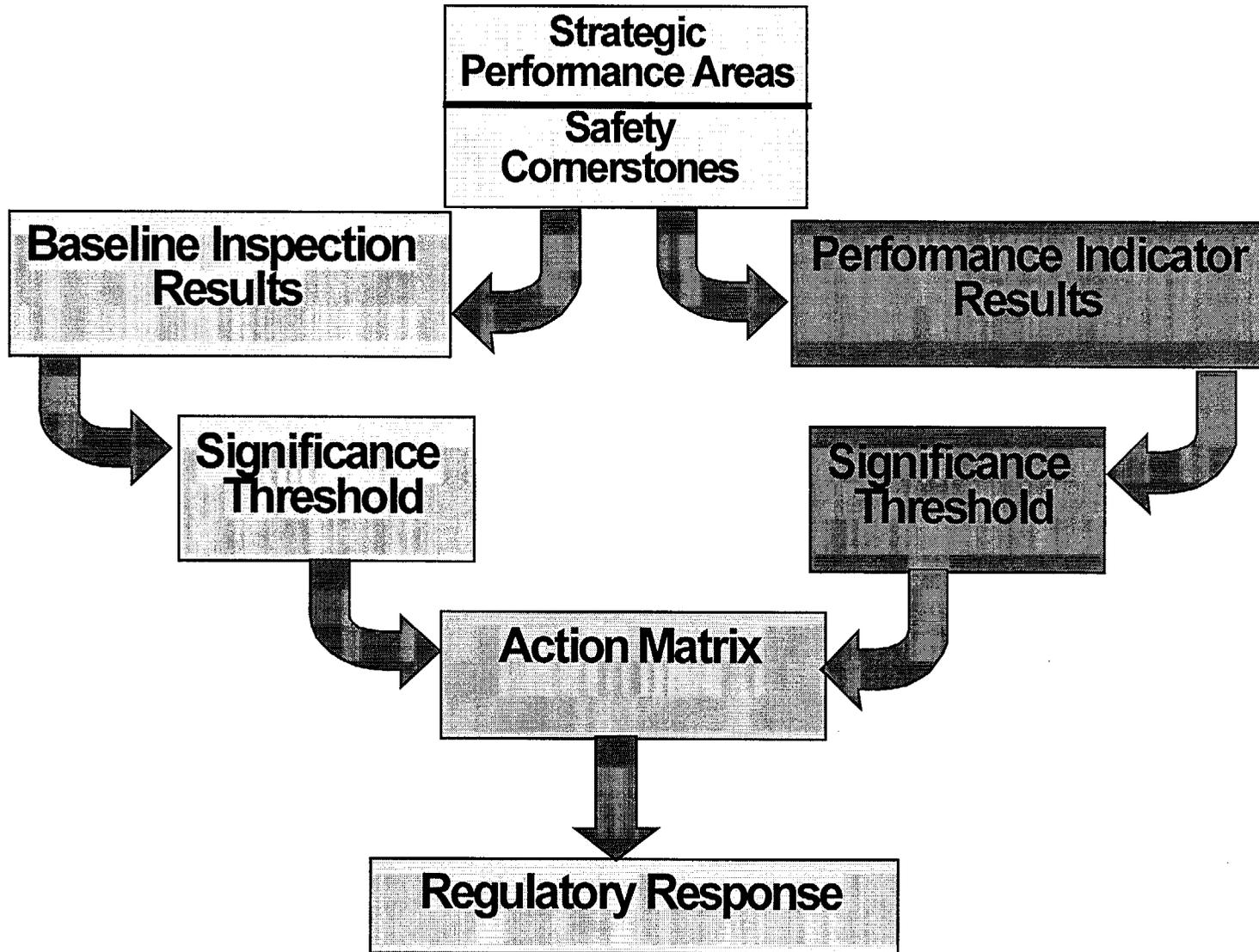
NRC Performance Goals

- 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 accordance 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

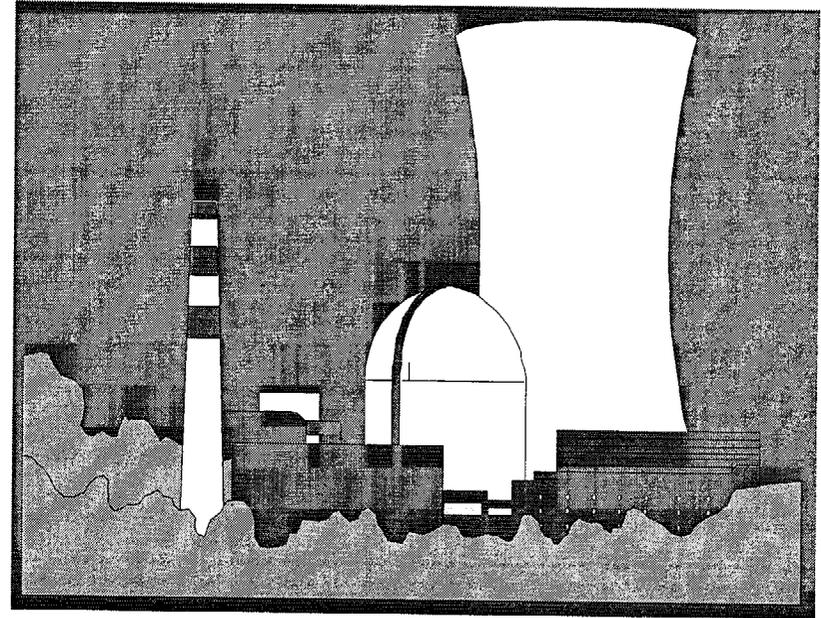
Safety Cornerstones

- Reactor Safety
 - Initiating Events
 - Mitigating Systems
 - Barrier Integrity
 - Emergency Preparedness
- Radiation Safety
 - Occupational Radiation Safety
 - Public Radiation Safety
- Safeguards
 - Physical protection

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



Key Aspects of Baseline Inspection Program

- Objective evidence of plant safety
- Conducted at all plants
- Emphasizes 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

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

Significance Threshold

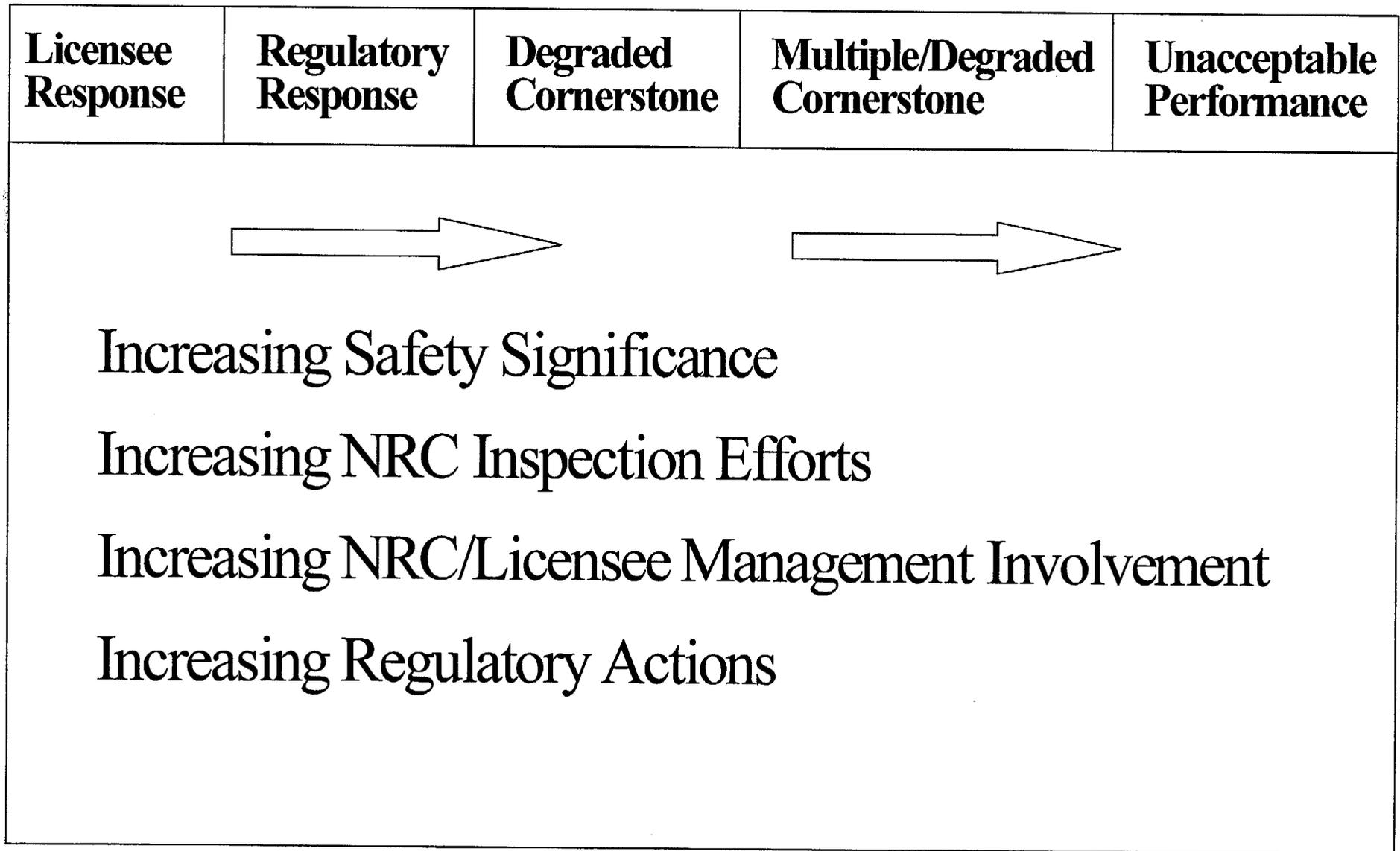
Inspection Findings

- 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 action increases
- Plant specific assessment letters
- Information on NRC public web site

Action Matrix Concept



National Summary

First Quarter Calendar Year 2001 Performance Indicator Results

Green: 1818

White: 14

Yellow: 0

Red: 0

Total Inspection Findings (April 2000 - March 2001)

Green: 1031

White: 20

Yellow: 1

Red: 1

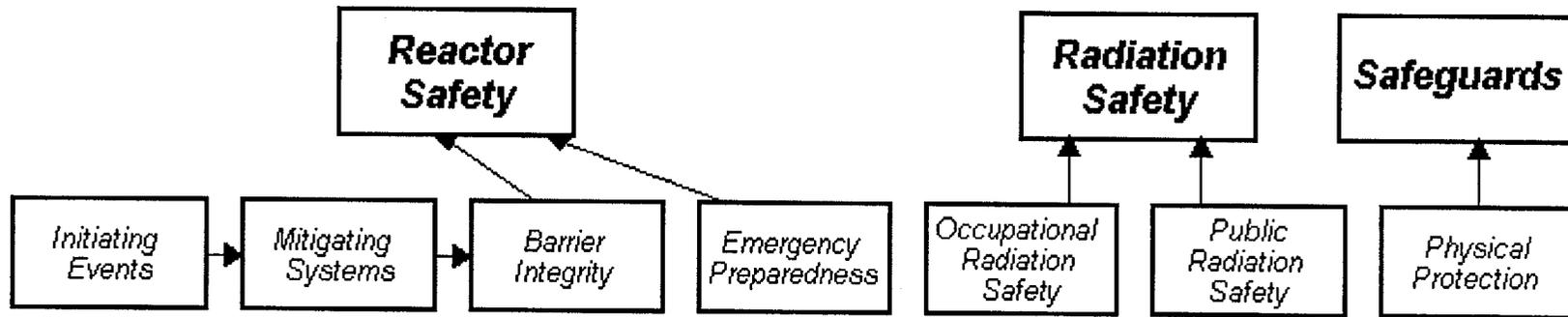
National Summary of Plant Performance - 102 Plants End of First Quarter Calendar Year 2001

Licensee Response	83
Regulatory Response	15
Degraded Cornerstone	3
Multiple/Repetitive Degraded Cornerstone	1
Unacceptable	0

Calvert Cliffs Annual Assessment

- Operated safely
- Fully met all cornerstone objectives
- Current performance within Regulatory Response Band of Action Matrix - End of First Quarter 2001
 - All Inspection Findings of very low safety significance (Green)
 - A single White Performance Indicator, at Unit 1, involving scrams with a loss of normal heat removal.
- NRC Plans to conduct baseline inspections and follow-up on licensee actions to address this performance area.

Calvert Cliffs 1 1Q/2001 Performance Summary



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)	Protected Area Equipment (G)
Scrams With Loss of Normal Heat Removal (W)	High Pressure Injection System Unavailability (G)	Reactor Coolant System Leakage (G)	ERO Drill Participation (G)			Personnel Screening Program (G)
Unplanned Power Changes (G)	Heat Removal System Unavailability (G)		Alert and Notification System (G)			RED/Personnel Reliability Program (G)
	Residual Heat Removal System Unavailability (G)					
	Safety System Functional Failures (G)					

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

4Q/2000

No findings
this quarter

G

No findings
this quarter

3Q/2000

No findings
this quarter

No findings
this quarter

No findings
this quarter

G

No findings
this quarter

No findings
this quarter

No findings
this quarter

2Q/2000

No findings
this quarter

G

No findings
this quarter

No findings
this quarter

G

No findings
this quarter

No findings
this quarter

Miscellaneous
findings

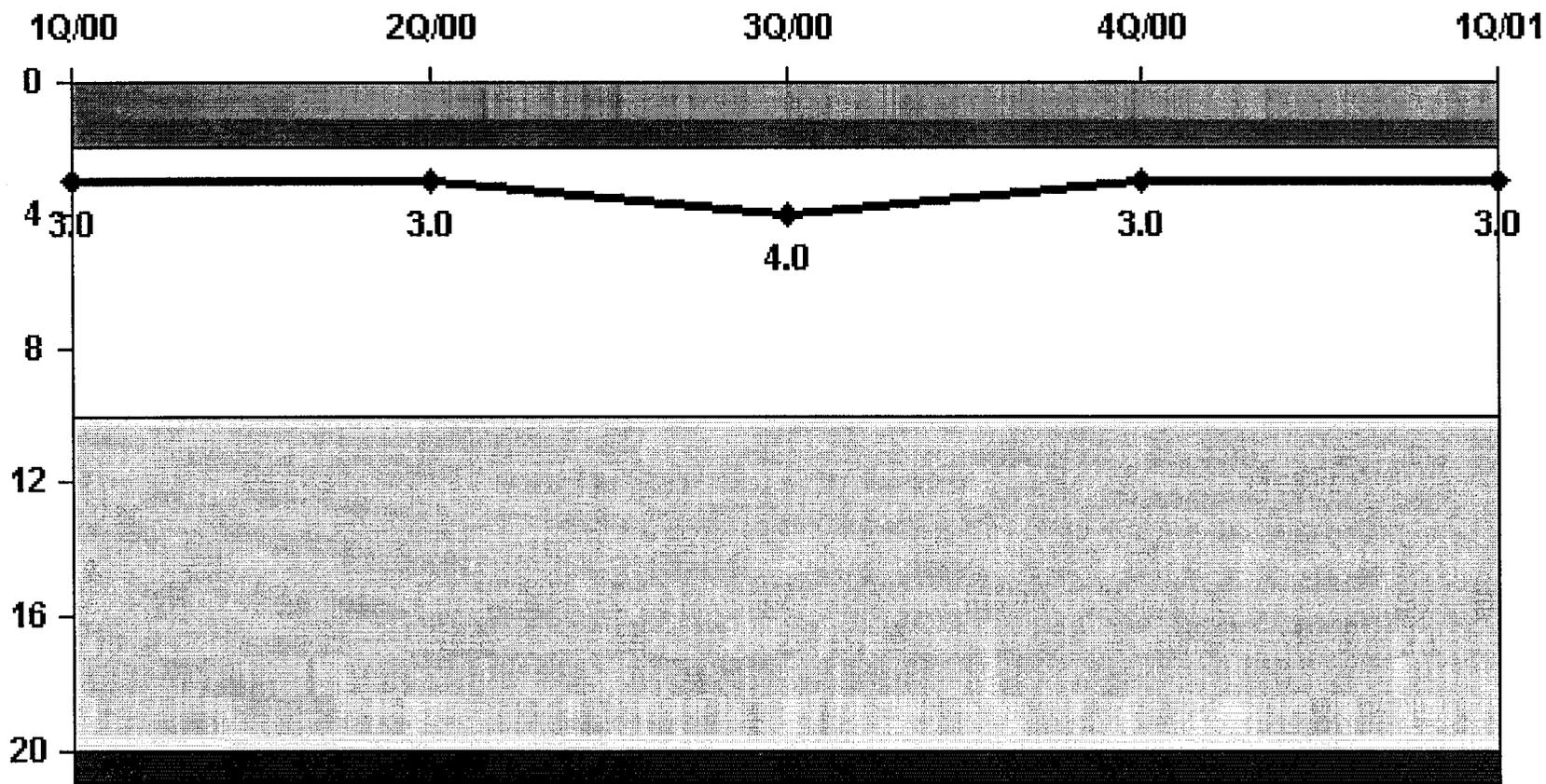
Additional Inspection & Assessment Information

Assessment Letters/Inspection Plans:

- 1Q/2001
- 4Q/2000
- 3Q/2000
- 2Q/2000

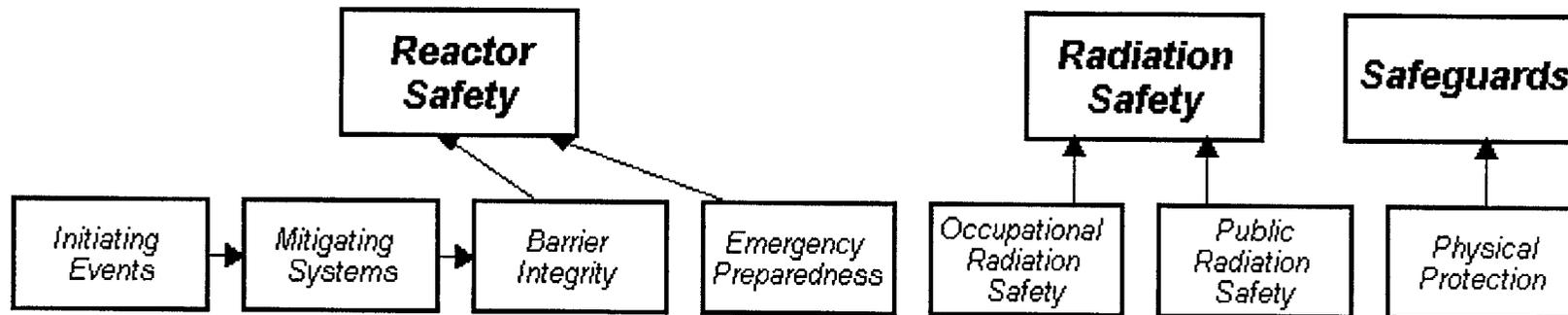
Inspection Reports

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Calvert Cliffs 2 1Q/2001 Performance Summary



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)	Protected Area Equipment (G)
Scrams with Loss of Normal Heat Removal (G)	High Pressure Injection System Unavailability (G)	Reactor Coolant System Leakage (G)	EPO Drill Participation (G)			Personnel Screening Program (G)
Unplanned Power Changes (G)	Heat Removal System Unavailability (G)		Alert and Notification System (G)			FFD/Personnel Reliability Program (G)
	Residual Heat Removal System Unavailability (G)					
	Safety System Functional Failures (G)					

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

G

No findings
this quarter

No findings
this quarter

4Q/2000

No findings
this quarter

G

No findings
this quarter

3Q/2000

No findings
this quarter

No findings
this quarter

No findings
this quarter

G

No findings
this quarter

No findings
this quarter

No findings
this quarter

2Q/2000

No findings
this quarter

G

No findings
this quarter

Miscellaneous
findings

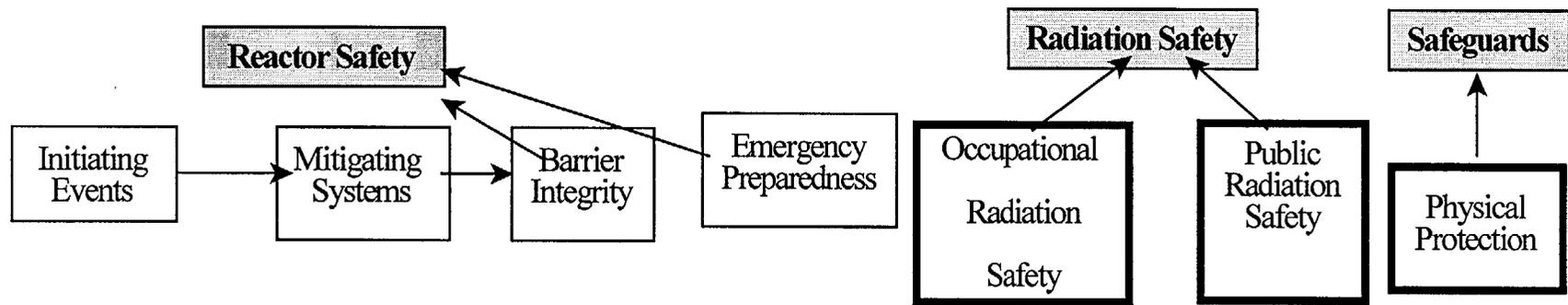
Additional Inspection & Assessment Information

Assessment Letters/Inspection Plans:

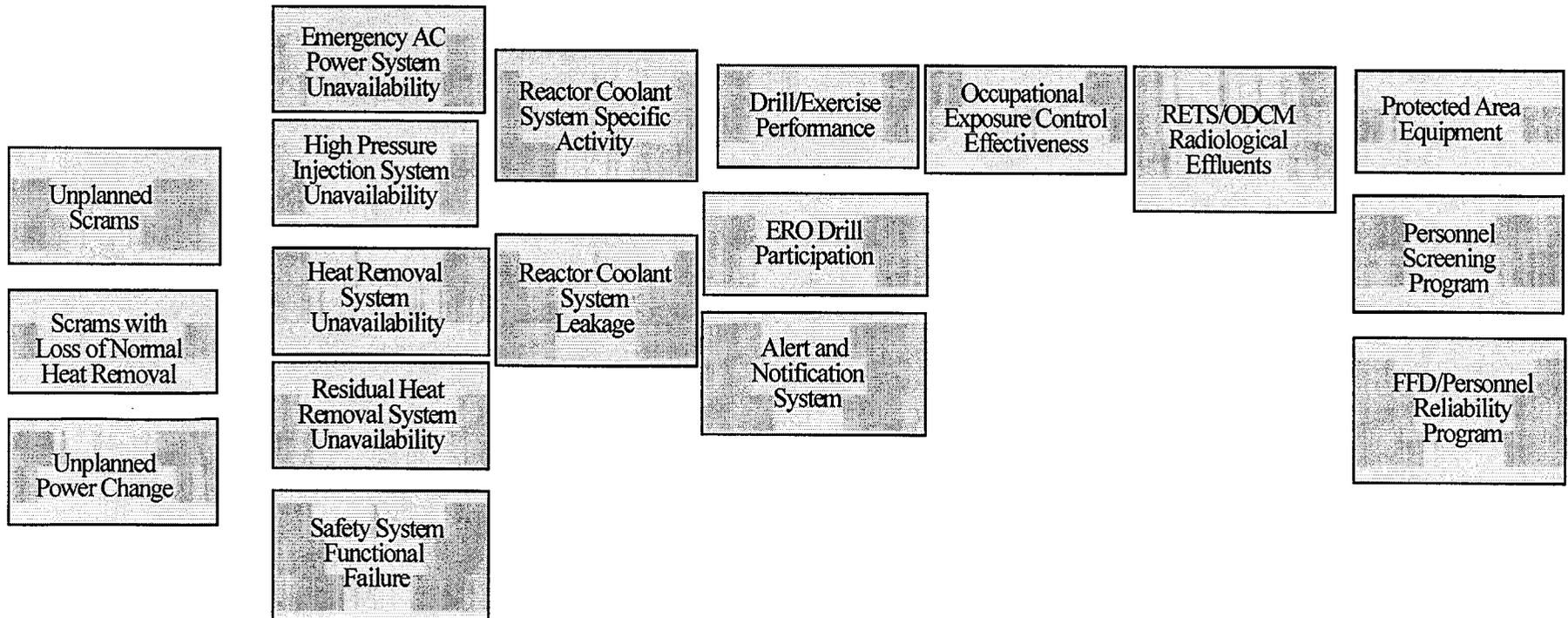
- 1Q/2001
- 4Q/2000
- 3Q/2000
- 2Q/2000

Inspection Reports

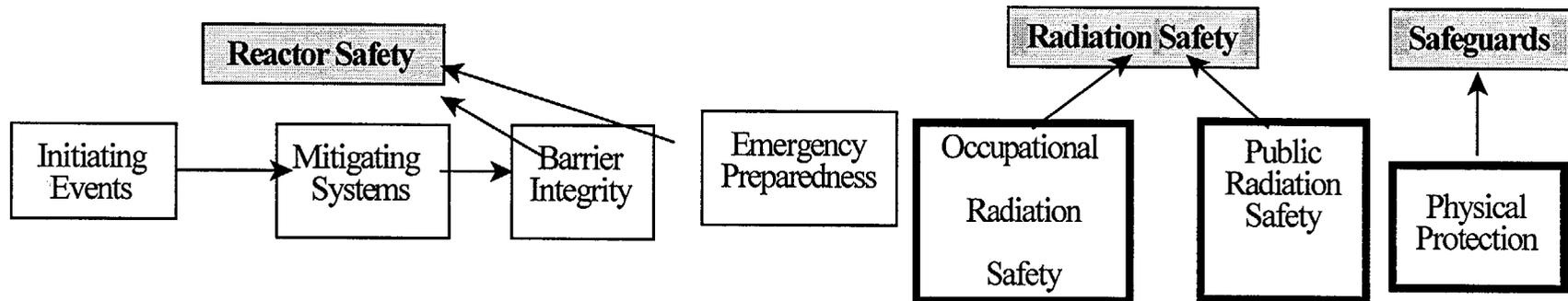
Relationship of Strategic Performance Areas, Safety Cornerstones and Performance Indicators



Performance Indicators



Inspection Areas



Inspection Procedures

- | | | | |
|-------------------------------|---------------------------|-----------------------|----------------------------|
| ● Adverse Weather | ● Operability Evaluation | ● Exercise Evaluation | ● Sec Authorization Access |
| ● Evaluation of Changes | ● Operator Workarounds | ● Alert and Notice | ● Sec Search |
| ● Equipment Alignment | ● Permanent Mods-Online | ● ERO Augment | ● Sec Response |
| ● Fire Protection | ● Permanent Mods | ● EAL | ● Sec Plan change |
| ● Flood Protection | ● Post Maintenance Test | ● EP Preparation | |
| ● Heat Sink | ● Refueling Outage | ● Drill Evaluation | |
| ● In Service Inspection | ● SSDI | ● RAD Access | |
| ● Operator Requalification | ● Surveillance Testing | ● ALARA Plan | |
| ● Maintenance Rule Imp | ● Temporary Modifications | ● RAD monitoring | |
| ● Maintenance Risk Assessment | ● PI&R | ● RAD Effluents | |
| ● Non-Routine Events | ● Event Follow-up | ● RAD Transport | |
| | ● PI Verification | ● RAD Environmental | |

An Action Matrix is used to assess overall plant safety performance and specify thresholds for NRC Enforcement Actions

	Licensee Response Column	Regulatory Response Column	Degraded Cornerstone Column	Multiple/ Repetitive Degraded Cornerstone Column	Unacceptable Performance Column	
R E S U L T S		All Assessment Inputs (Performance Indicators (PIs) and Inspection Findings) Green; Cornerstone Objectives Fully Met	One or Two White Inputs (in different cornerstones) in a Strategic Performance Area; Cornerstone Objectives Fully Met	One Degraded Cornerstone (2 White Inputs or 1 Yellow Input) or any 3 White Inputs in a Strategic Performance Area; Cornerstone Objectives Met with Minimal Reduction in Safety Margin	Repetitive Degraded Cornerstone, Multiple Degraded Cornerstones, Multiple Yellow Inputs, or 1 Red Input; Cornerstone Objectives Met with Longstanding Issues or Significant Reduction in Safety Margin	Overall Unacceptable Performance; Plants Not Permitted to Operate Within this Band, Unacceptable Margin to Safety
R E S P O N S E	Regulatory Performance Meeting	None	Branch Chief (BC) or Division Director (DD) Meet with Licensee	DD or Regional Administrator (RA) Meet with Licensee	RA (or EDO) Meet with Senior Licensee Management	Commission meeting with Senior Licensee Management
	Licensee Action	Licensee Corrective Action	Licensee root cause evaluation and corrective action with NRC Oversight	Licensee Self Assessment with NRC Oversight	Licensee Performance Improvement Plan with NRC Oversight	
	NRC Inspection	Risk-Informed Baseline Inspection Program	Baseline and supplemental inspection procedure 95001	Baseline and supplemental inspection procedure 95002	Baseline and supplemental inspection procedure 95003	
	Regulatory Actions	None	Supplemental inspection only	Supplemental inspection only	-10 CFR 2.204 DFI -10 CFR 50.54(f) Letter - CAL/Order	Order to Modify, Suspend, or Revoke Licensed Activities
C O M M U N I C A T I O N	Assessment Letters	BC or DD review/sign assessment report (w/ inspection plan)	DD review/sign assessment report (w/ inspection plan)	RA review/sign assessment report (w/ inspection plan)	RA review/sign assessment report (w/ inspection plan) Commission Informed	
	Annual Public Meeting	SRI or BC Meet with Licensee	BC or DD Meet with Licensee	RA (or designee) Discuss Performance with Licensee	EDO (or Commission) Discuss Performance with Senior Licensee Management	Commission Meeting with Senior Licensee Management
INCREASING SAFETY SIGNIFICANCE ----->						