

# **ANNUAL ASSESSMENT MEETING**



**Nuclear Regulatory Commission**

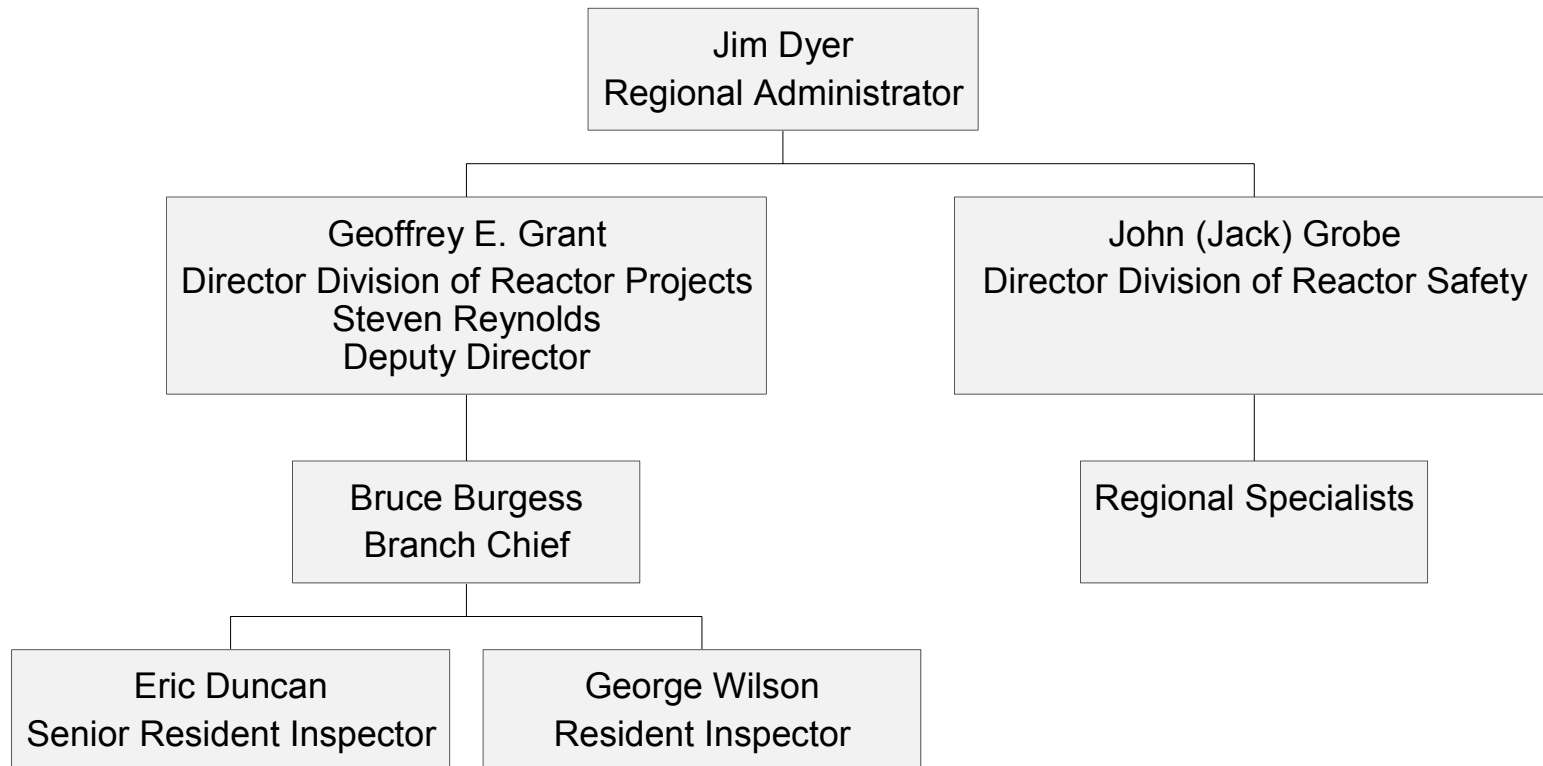
# Agenda

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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 III Organization

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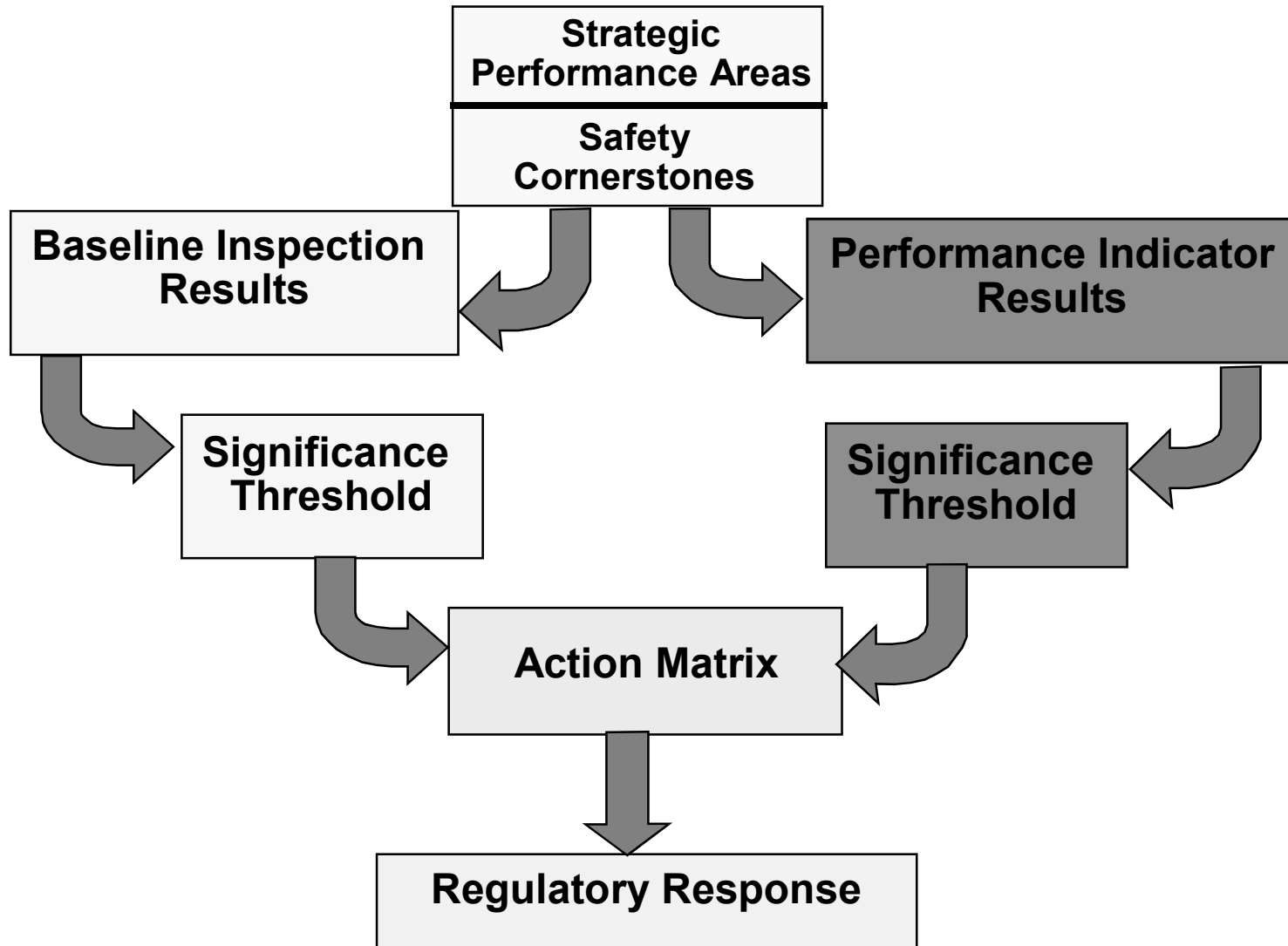
- Maintain safety and protect the environment
- Enhance public confidence
- Improve effectiveness, efficiency, and realism of processes and decision making
- Reduce unnecessary regulatory burden

# 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

# Reactor Oversight Process





# Strategic Performance Areas

## Safety Cornerstones

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

# CROSS-CUTTING ISSUES

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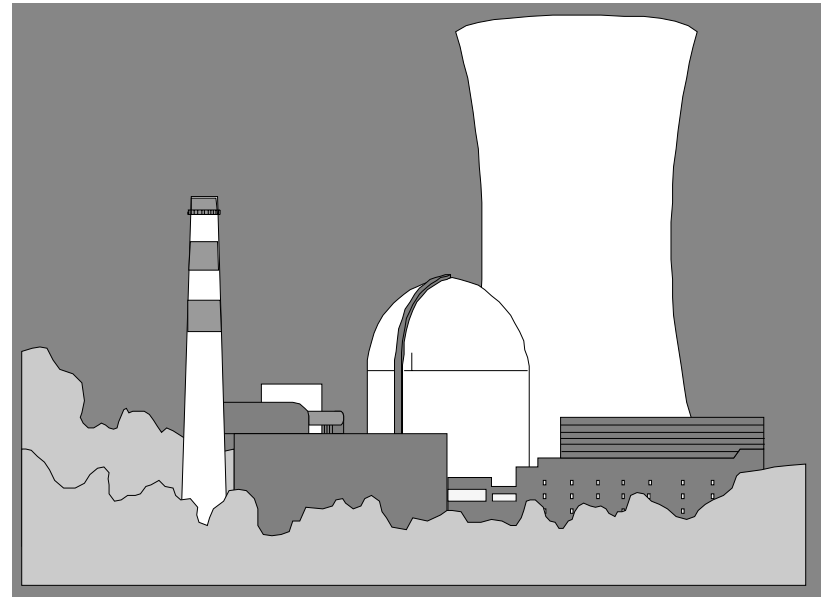
- PROBLEM IDENTIFICATION AND RESOLUTION
- HUMAN PERFORMANCE
- SAFETY CONSCIOUS WORK ENVIRONMENT

# NRC Resident and Regional Inspectors Conduct Safety Inspections

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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

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- Conducted at all plants
- Objective evidence of safety in all cornerstones
- Emphasizes safety significant systems, components, activities, and events
- Monitors licensee effectiveness in finding and fixing safety issues
- Standardized inspection report format to describe significant findings and non-compliance
- Inspection reports are publicly accessible

# Examples of Baseline Inspections

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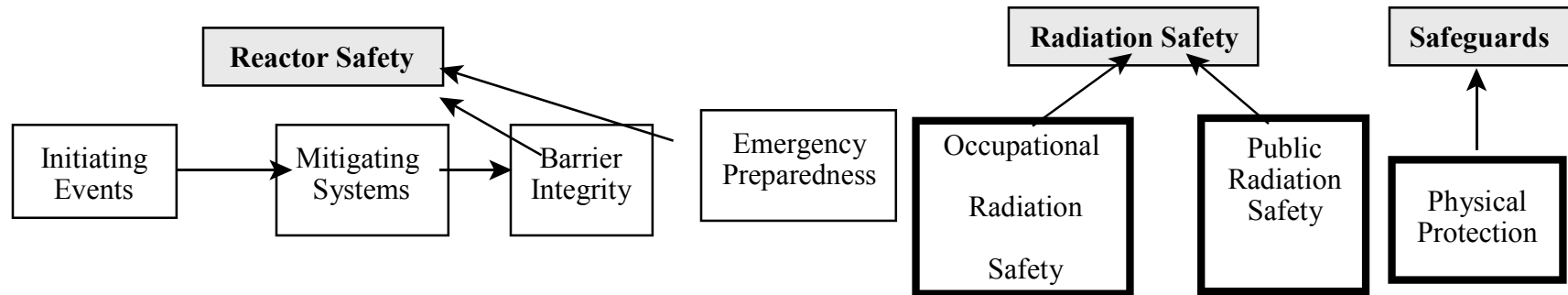
- Plant safety tours
- Plant control room tours
- Maintenance and alignment of equipment
- Operator response during simulated emergency conditions
- Plant security
- Controls for radiation releases
- Worker radiation protection

# 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

# Inspection Areas



## Inspection Procedures

- Adverse Weather
- Evaluation of Changes
- Equipment Alignment
- Fire Protection
- Flood Protection
- Heat Sink
- In Service Inspection
- Operator Requalification
- Maintenance Rule Imp
- Maintenance Risk Assessment
- Non-Routine Events
- Operability Evaluation
- Operator Workarounds
- Permanent Mods-Online
- Permanent Mods
- Post Maintenance Test
- 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

# Event Follow-up and Supplemental Inspections

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

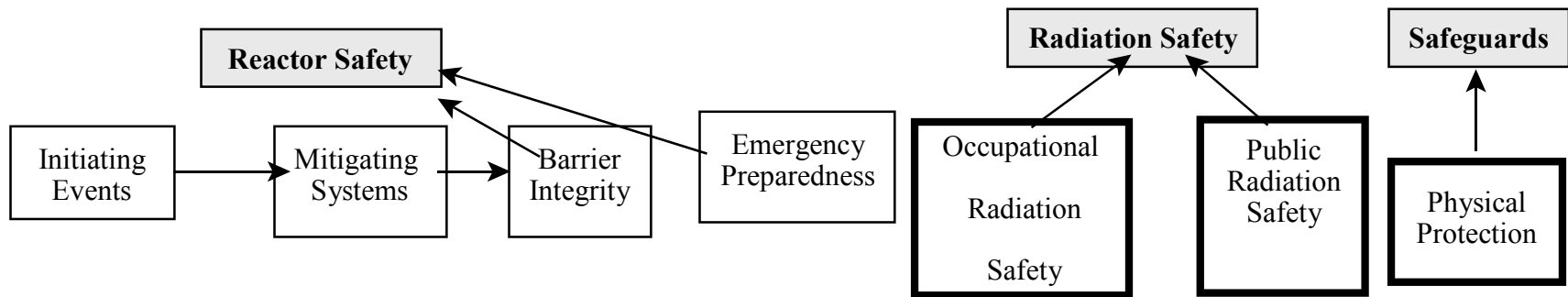


# Performance Indicators

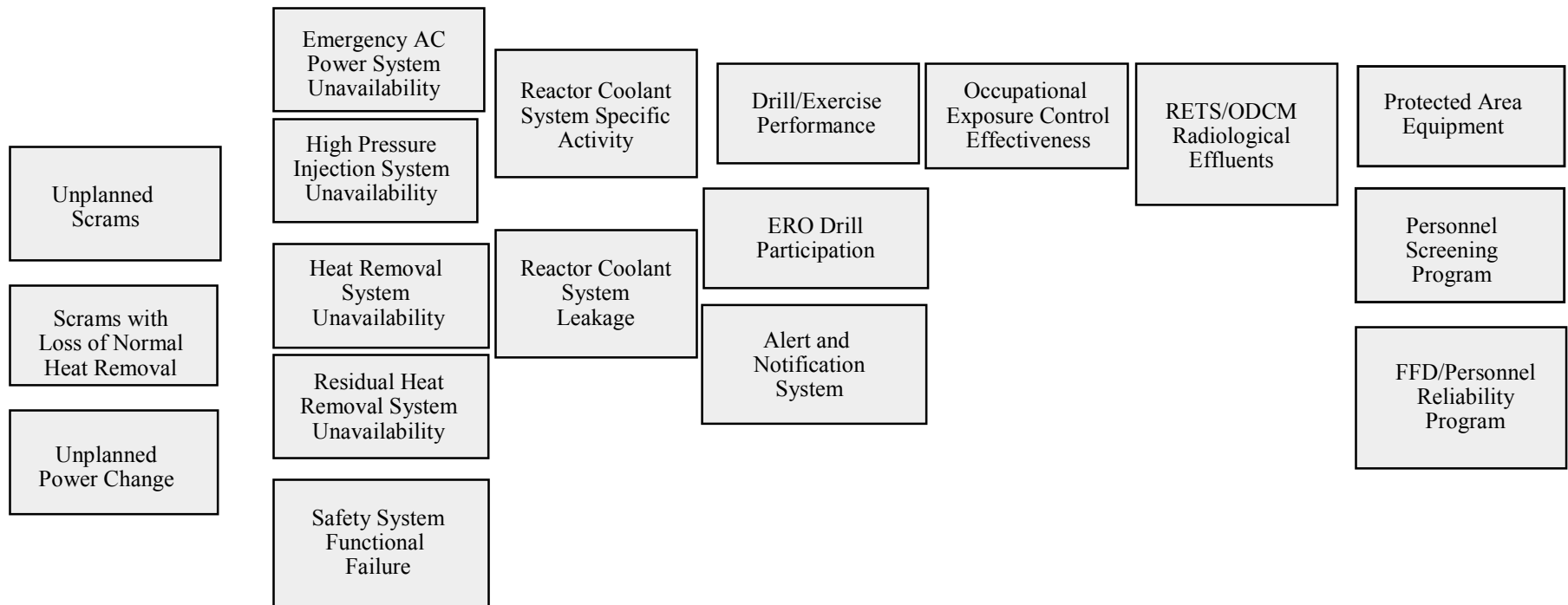
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- 18 Performance Indicators
- Covers all cornerstones
- Licensee submits data to NRC quarterly
- Baseline Inspection program verifies accuracy
- Available on Reactor Oversight Program Web site

# Relationship of Strategic Performance Areas, Safety Cornerstones and Performance Indicators



## Performance Indicators



# 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

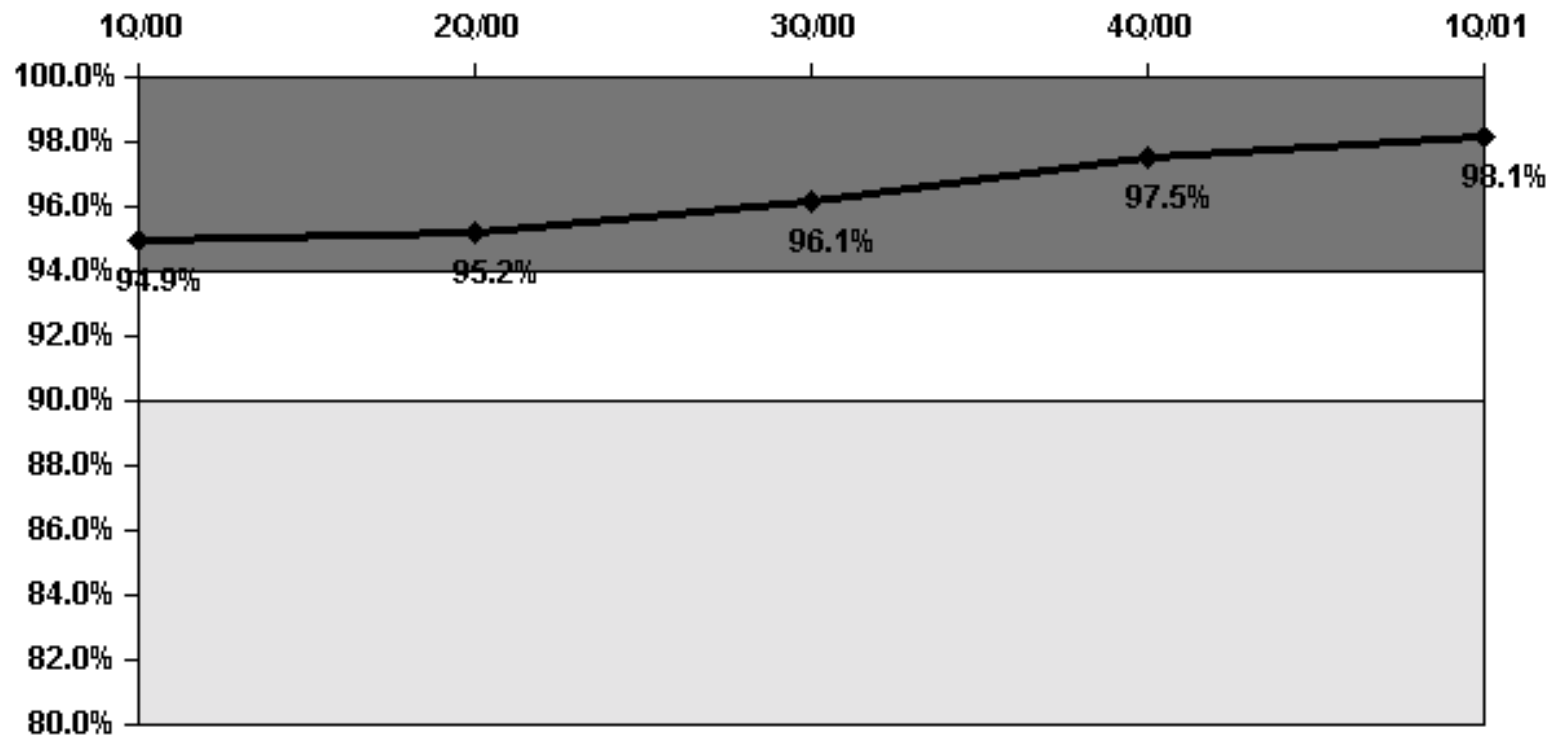
## Inspection Findings

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

# Performance Indicator

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## Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

# Key Aspects of Assessment Program

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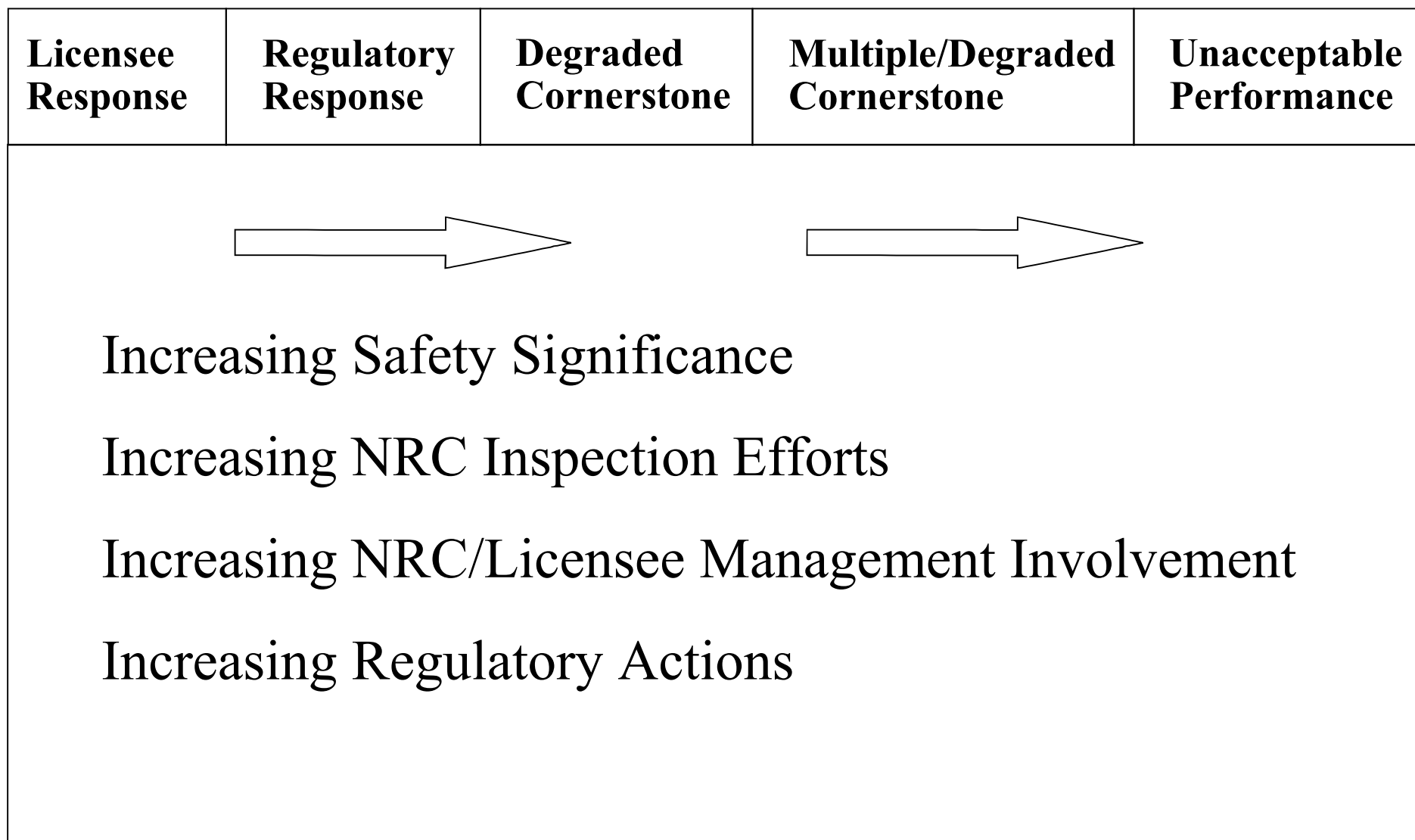
- Objective assessment of performance
- “Action Matrix” to determine agency response to performance
  - Inspection level increases
  - Management involvement increases
  - Regulatory action increases
- Plant specific assessment letters
- Information on NRC public web site

# 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
<b>R E S U L T S</b>		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
<b>R E S P O N S E</b>	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
<b>C O M M U N I C A T I O N</b>	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
<b>INCREASING SAFETY SIGNIFICANCE -----&gt;</b>						

# Action Matrix Concept

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# National Summary of Plant Performance -103 Plants End of Calendar Year 2001

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



# National Summary

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## Fourth Quarter Calendar Year 2001 Performance Indicator Results

**Green: 1834**

**White: 8**

**Yellow: 0**

**Red: 0**

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

**Green: 660**

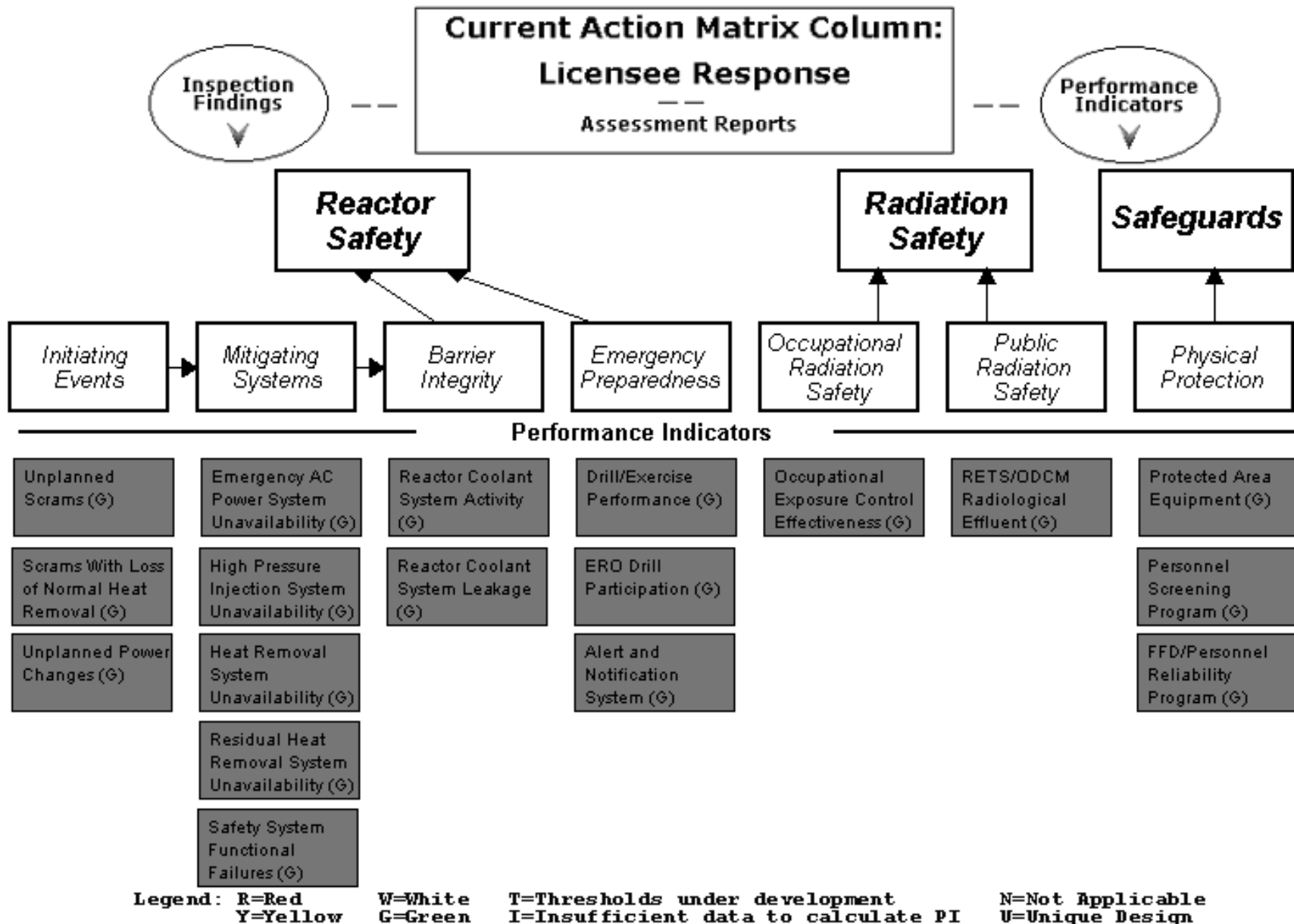
**White: 23**

**Yellow: 2**

**Red: 0**

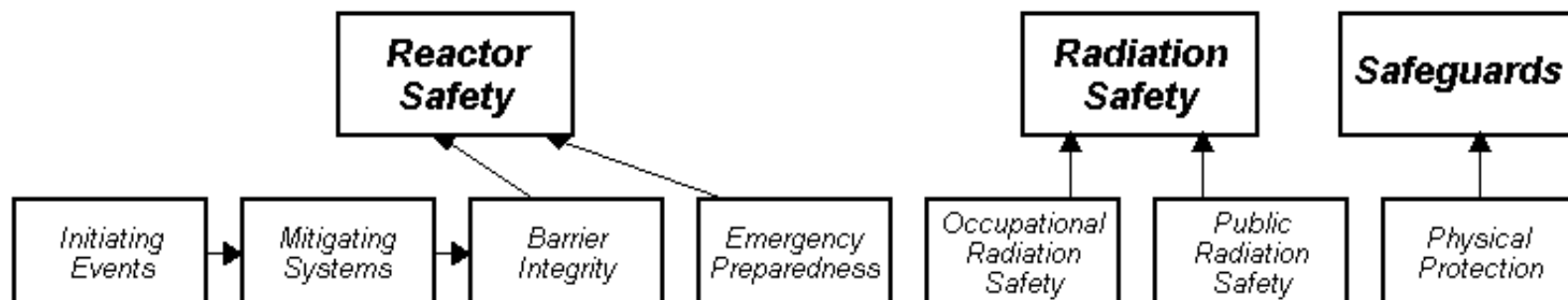
# LASALLE 1

## 4th Qtr 2001 - Performance Summary



# LASALLE 1

## 4th Qtr 2001 - Performance Summary



### Most Significant Inspection Findings

Quarter	Initiating Events	Mitigating Systems	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Physical Protection
4Q/2001	Findings without color designation	<b>G</b>	<b>G</b>	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
3Q/2001	<b>G</b>	Findings without color designation	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	<b>G</b>
2Q/2001	No findings this quarter	Findings without color designation	Findings without color designation	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
1Q/2001	No findings this quarter	<b>G</b>	Findings without color designation	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter

Miscellaneous findings

### Additional Inspection & Assessment Information

◆ **Assessment Reports/Inspection Plans:**

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

◆ **List of Inspection Reports**

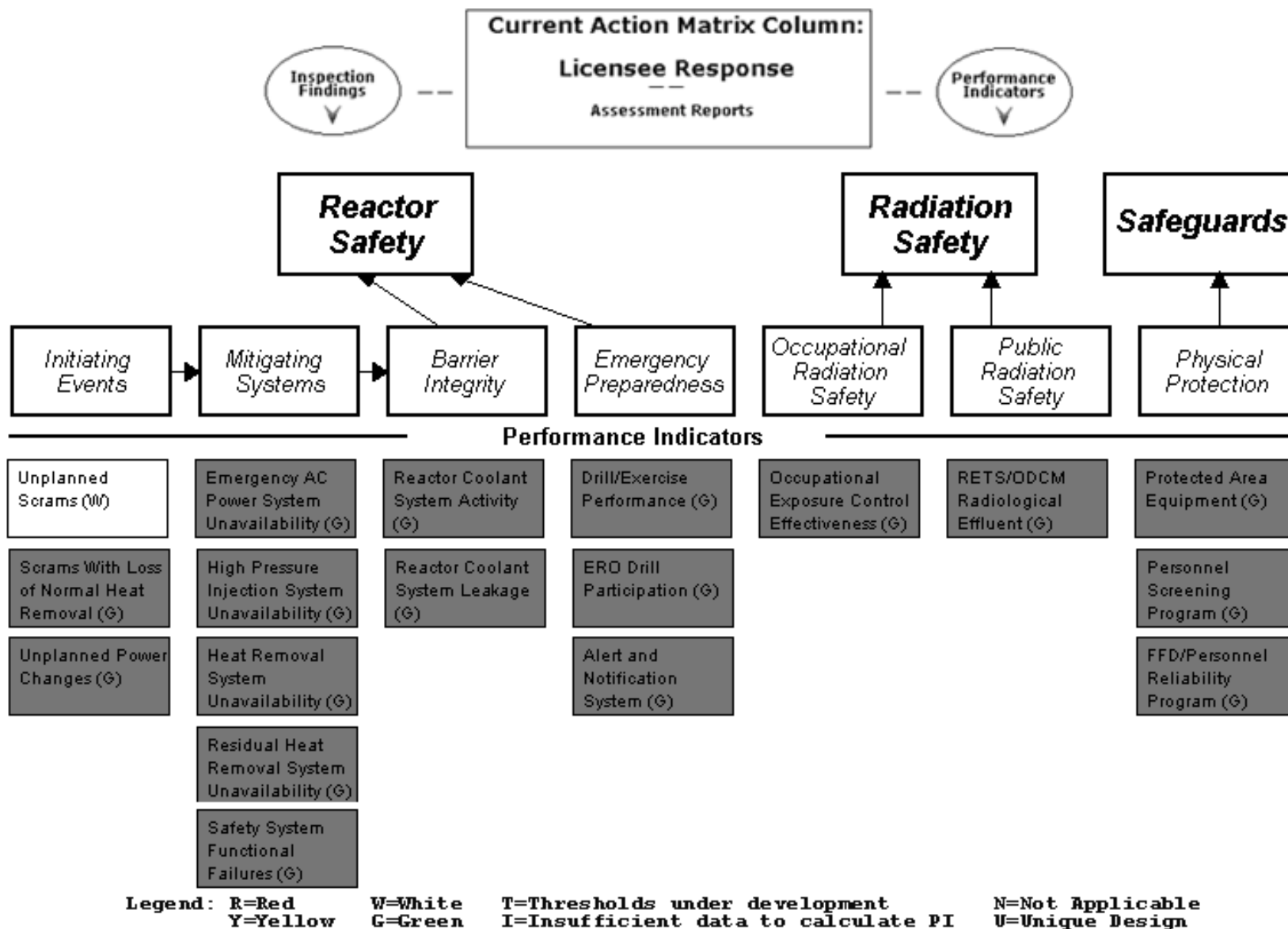
◆ **List of Assessment Letters/Inspection Plans**

*Last Modified: March 1, 2002*

◆ **Cross Reference Of Assessment Reports**

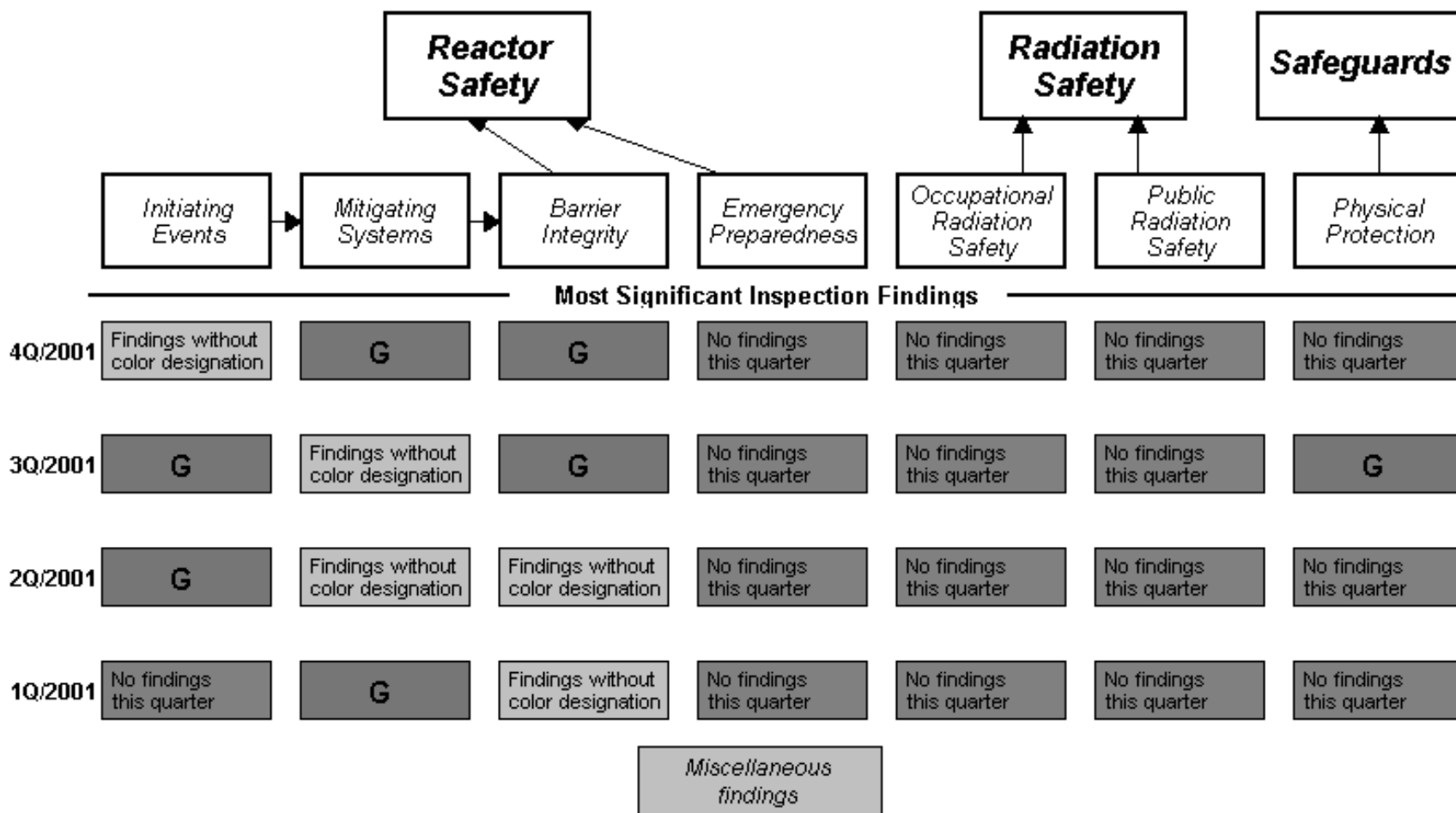
# LASALLE 2

## 4th Qtr 2001 - Performance Summary



# LASALLE 2

## 4th Qtr 2001 - Performance Summary



◆ **Assessment Reports/Inspection Plans:**

4Q/2001  
3Q/2001  
2Q/2001  
1Q/2001

◆ **Cross Reference Of Assessment Reports**

◆ **List of Inspection Reports**

◆ **List of Assessment Letters/Inspection Plans**

*Last Modified: March 1, 2002*

# LASALLE INSPECTION RESULTS

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- **EIGHT GREEN FINDINGS:**

- ▶ **2 INITIATING EVENTS CORNERSTONE**

- ▶ **3 MITIGATING SYSTEMS CORNERSTONE**

- ▶ **2 BARRIER INTEGRITY CORNERSTONE**

- ▶ **1 SAFEGUARDS CORNERSTONE**

- **PERFORMANCE INDICATORS:**

- ▶ **UNIT 1 - ALL GREEN**

- ▶ **UNIT 2- WHITE PI - UNPLANNED SCRAMS/7000 HOURS**

- **INSPECTION HOURS: 3812**

# **LASALLE INSPECTION RESULTS (CONTINUED)**

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- **CROSS-CUTTING ISSUE**
- **ADVERSE TREND IN HUMAN PERFORMANCE:**
  - ▶ **3 REACTOR SCRAMS**
  - ▶ **MATERIAL IN SUPPRESSION POOL**
  - ▶ **ISOLATION OF MONITOR**
  - ▶ **RHR SYSTEM INOPERABILITY**

# **LASALLE INSPECTION RESULTS (CONTINUED)**

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## **MAJOR INSPECTION ACTIVITIES:**

- \* TWO SPECIAL INSPECTIONS**
- \* ONE SUPPLEMENTAL INSPECTION**
- \* TRIENNIAL FIRE PROTECTION**

## **PERFORMANCE INDICATORS:**

- \* SAFETY SYSTEM UNAVAILABILITY -RHR**



# LaSalle Annual Assessment (April 1 -Dec 31, 2001)

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- Operated safely
- Met all cornerstone objectives - Unit 1
- Licensee Response Band of Action Matrix-Unit 1
  - All inspection findings were of very low safety significance (Green)
  - All Performance Indicators requiring no additional NRC oversight (Green)
- Regulatory Response Band of Action Matrix-Unit 2
  - White Performance Indicator (Scrams)
  - Supplemental inspection completed 8/01
- NRC plans to conduct baseline inspections

# NRC Response To 9/11

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- Activated NRC Response Centers
- Closely Coordinated Response With:
  - Our Licensees
  - FBI
  - Military, State, & Local Authorities
  - Law Enforcement
  - 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 Monitored Enhanced Security