# ANNUAL ASSESSMENT MEETING



#### **Nuclear Regulatory Commission**

Agenda

- 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**



## NRC Representatives

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## **Reference Sources**

#### 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

- 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

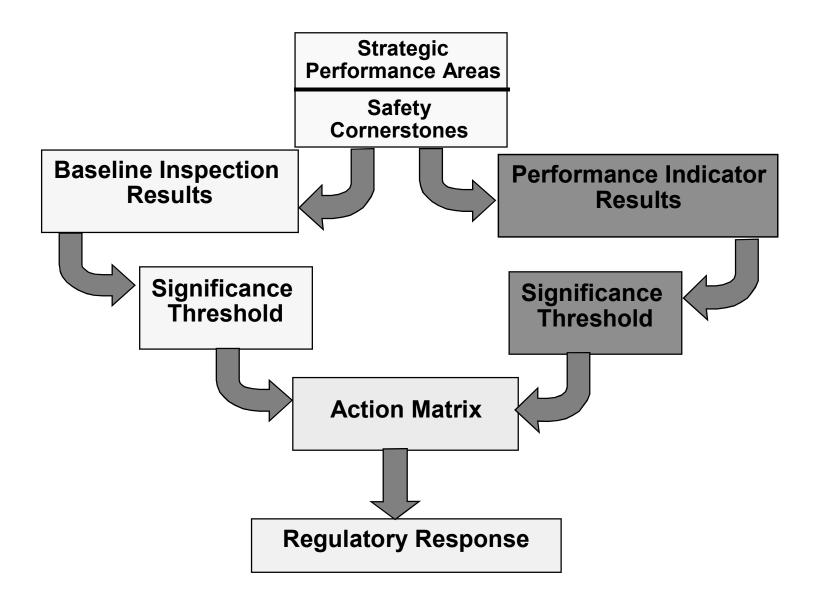
## NRC Performance Goals

- 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**



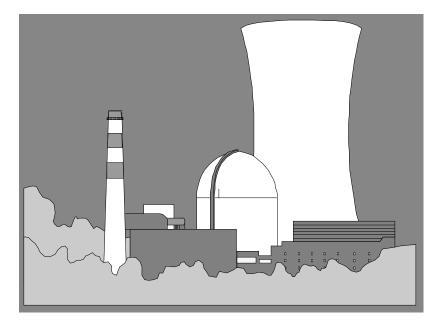
# Strategic Performance Areas Safety Cornerstones

- 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

- 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

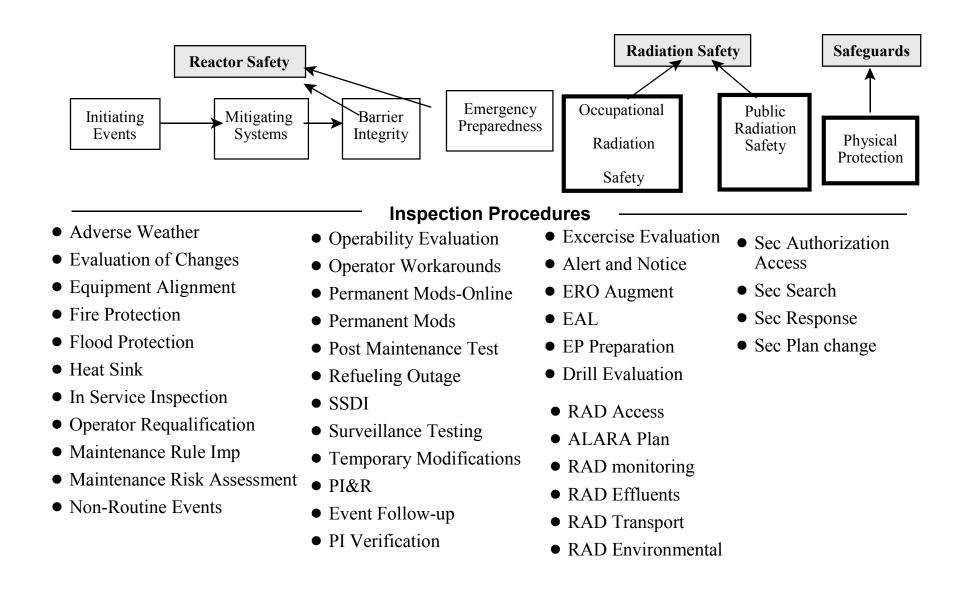
# Examples of Baseline Inspections

- 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**

- Equipment Alignment ~ 70 hrs/yr
- Annual Fire Protection ~ 35 hrs/yr
- Trienniel 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 inspecton
- Corrective action program ~200 hr every 2 yrs

#### **Inspection Areas**



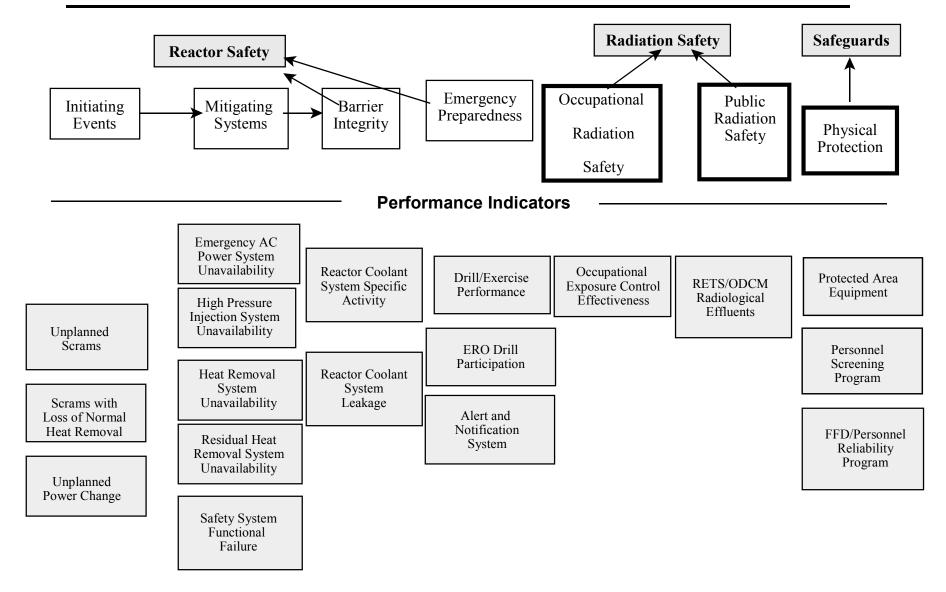
# Event Follow-up and Supplemental Inspections

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

## Performance Indicators

- 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



### Significance Threshold

Performance Indicators

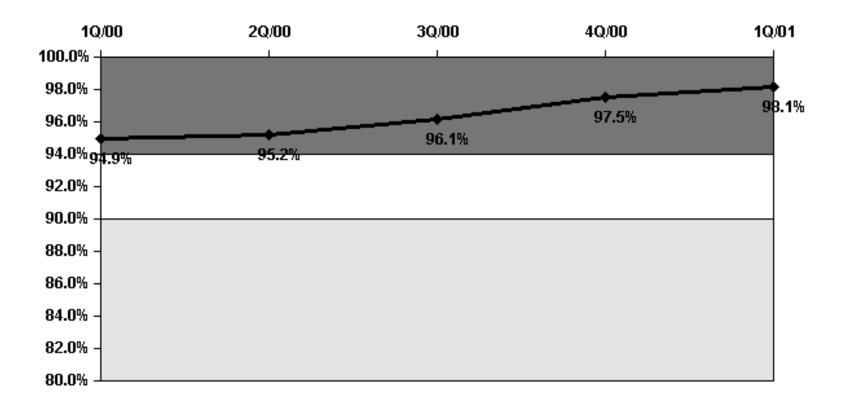
- Green: Only baseline Inspection
- White: May increase NRC oversight
- Yellow: Requires more NRC oversight
- Red: Requires more NRC oversight

Inspection Findings

Green:Very Low safety issueWhite:Low to moderate safety issueYellow:Substantial safety issueRed:High safety issue

## Performance Indicator

#### **Alert & Notification System**



Thresholds: White < 94.0% Yellow < 90.0%

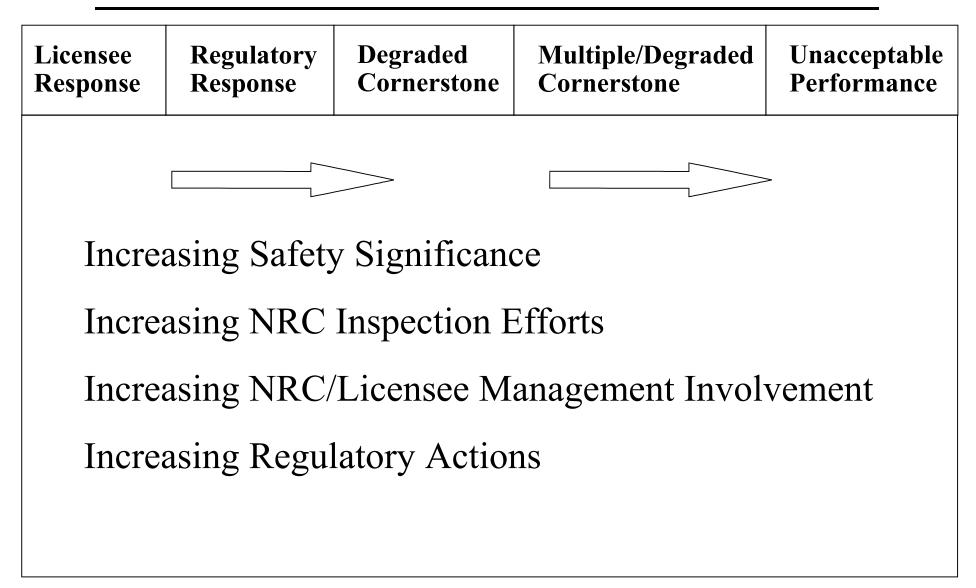
# Key Aspects of Assessment Program

- 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

#### An <u>Action Matrix</u> is used to assess overall plant safety performance and specify thresholds for NRC <u>Enforcement Actions</u>

		Licensee Response Colum n	Regulatory Response Column	Degraded Cornerston Colum n	e Multiple/Repetitive Degraded Cornersto Colum n	U naccep table ne Perform ance Colum n
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 Perform ance; 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	Supplem ental 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	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
N	IN CREASING SAFETY SIGNIFICANCE>					

## Action Matrix Concept



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

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

National Summary

Fourth Quarter Calendar Year 2001 Performance Indicator Results Green: 1834 White: 8 Yellow: 0 Red: 0 Total Inspection Findings (April 2001 - December 2001)

Green:660White:23Yellow:2Red:0

## PERRY INSPECTION RESULTS

### **INSPECTION HOURS:**

#### 1684 BASELINE INSPECTION AND PLANT STATUS HOURS

### **MAJOR INSPECTION ACTIVITIES:**

**PROBLEM IDENTIFICATION AND RESOLUTION** 

## PERRY INSPECTION RESULTS

**FIVE GREEN FINDINGS:** 

FAILURE TO FOLLOW PROCEDURES FOR CONTROLLING REACTOR VESSEL LEVEL (IE)

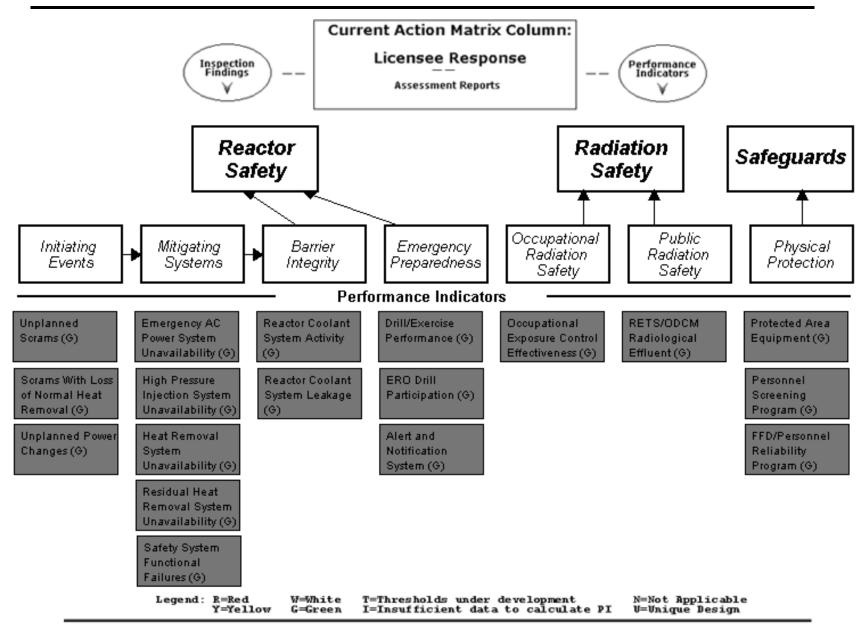
**INCORRECT TORQUE APPLIED TO MOISTURE SEPARATOR REHEATER DRAIN TANK MANWAY COVERS (IE)** 

**INADEQUATE PROCEDURES FOR SLUICE GATE MAINTENANCE (MS)** 

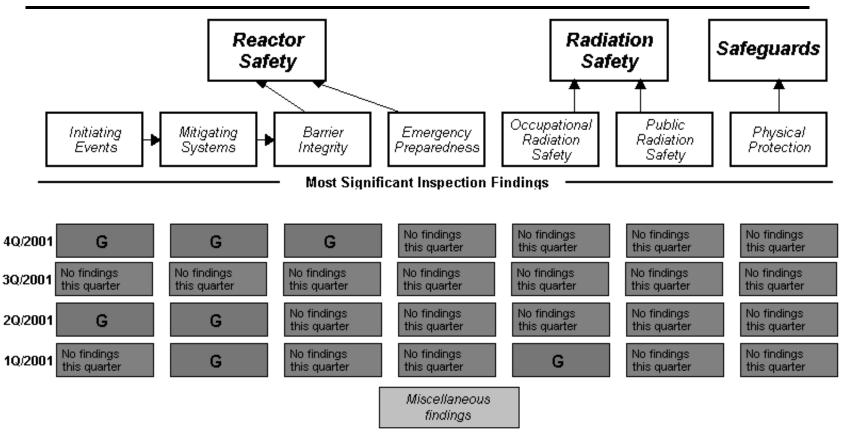
**INADEQUATE DESIGN CONTROL OF MODIFICATION TO EDG DAMPERS (MS)** 

**INOPERABLE CONTAINMENT ISOLATION VALVE (BI)** 

#### Perry 4th Qtr 2001 - Performance Summary



#### Perry 4th Qtr 2001 - Performance Summary



#### 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

Perry Annual Assessment (April 1 -Dec 31, 2001)

- Operated safely
- Fully met all cornerstone objectives
- Licensee Response Column of the Action Matrix

All inspection findings were of very low safety significance (Green)

All Performance Indicators required no additional NRC oversight (Green)

• NRC Plans to conduct baseline inspections

# NRC Response To 9/11

- 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