## End of Cycle Assessment Results Monticello Nuclear Power Plant



### United States Nuclear Regulatory Commission

# AGENDA

- Introduction
  - NRC
  - Reactor Oversight Process

### Current End of Cycle Assessment Results

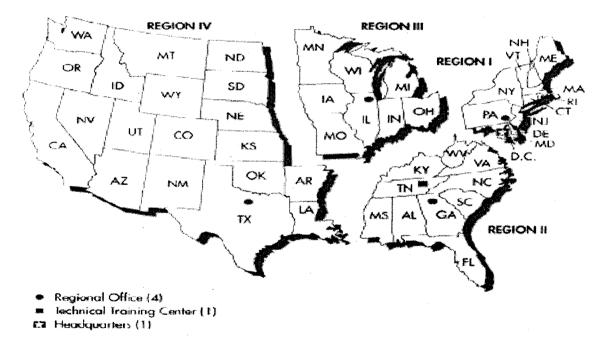
- Performance Indicators
- Inspection Results
- Discussion of Current Plant Performance
- Concluding Remarks

NRC Staff will be available after the meeting to answer any questions

# **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

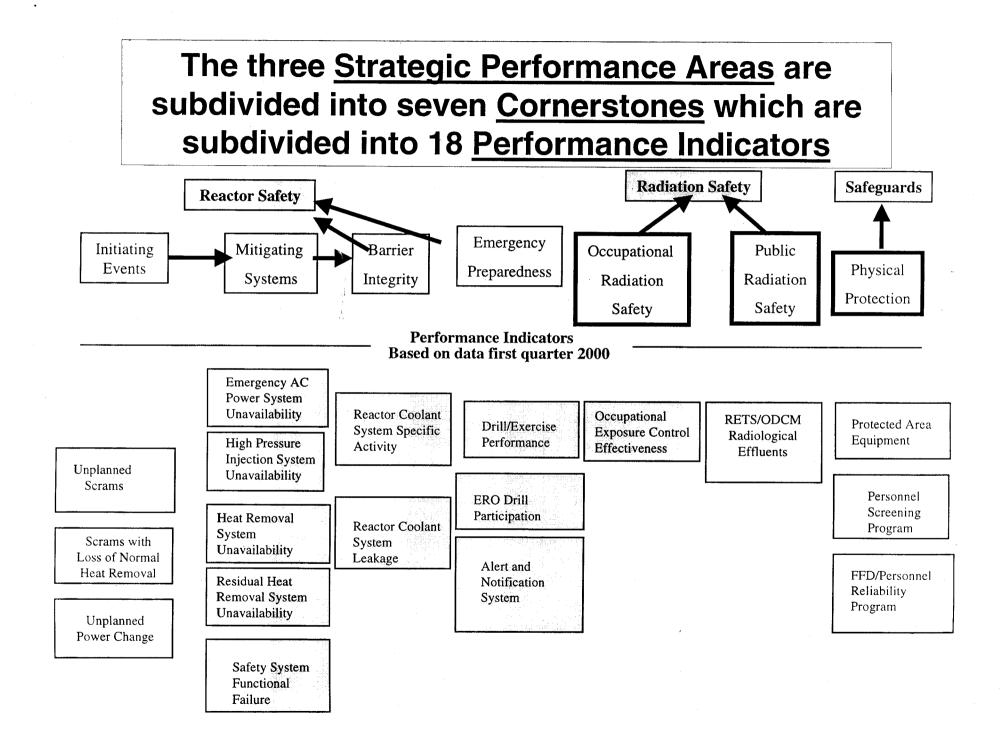
# **NRC REGIONAL OFFICES**



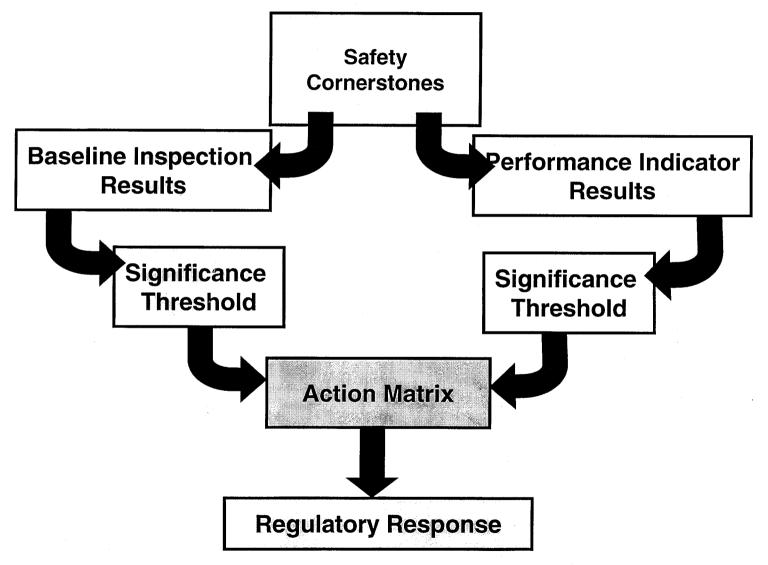
Note. Alaska and Hawaii are included in Region IV. Source: Nuclear Regulatory Commission

# FOUR KEY NRC OUTCOME MEASURES

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

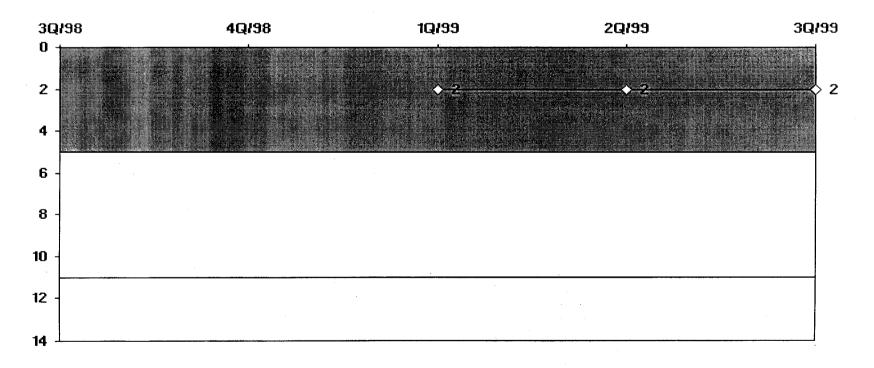


### **Reactor Oversight Process**



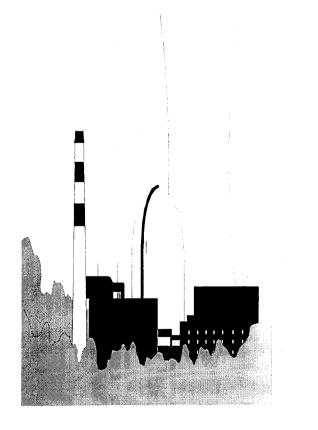
#### A <u>Performance Indicator</u> uses objective data to monitor performance in each <u>Cornerstone area</u>

#### **Occupational Exposure Control Effectiveness**



### **NRC Conducts Safety Inspections**

NRC resident and regional inspectors utilize a <u>Baseline</u> <u>Inspection Program</u> to monitor plant safety performance in each of the Strategic Performance Areas



### Key Aspects of Baseline Inspection Program

- Objective evidence of plant safety
- Determines causes of performance declines
- 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 to public

# **Examples of Baseline Inspection**

- Daily plant tours
- Daily control room tours
- Inspect maintenance of important equipment
- Inspect controls for radiation protection of plant workers
- Inspect controls for radiation releases
- Plant security inspections

# Supplemental Inspection and Event Follow-up

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

### Key aspects of assessment program

- Objective assessment of performance
- Utilizes "Action Matrix" to determine agency actions in response to performance
- Provides plant specific assessment letters
- Assessment information on NRC public web site

### An <u>Action Weintx</u> is used to assess overall pentisette perior some smaller vibresholds included to realize the second visit with th

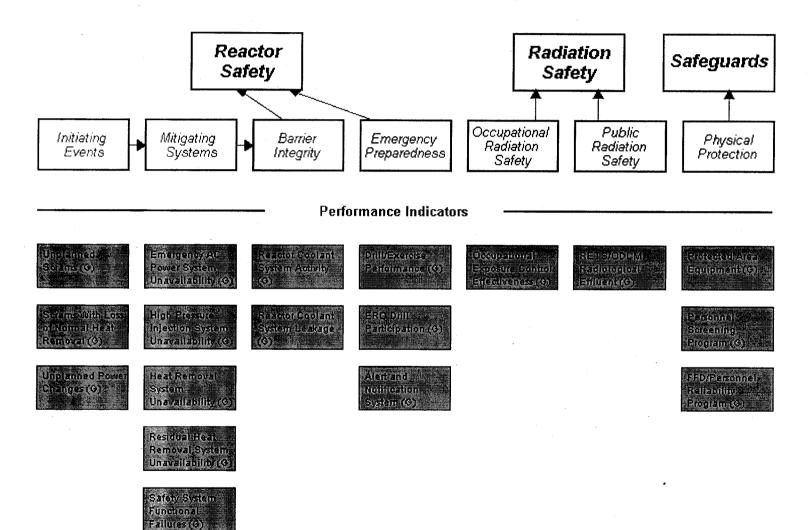
		Lic <b>ensee</b> Response Colum n	Regulatory Response Colum n	Degraded Cornerston Colum n	e Multiple/Repetitive Degraded Cornersto Colum n	Unacceptable ne Performance Column
R E S U L T S		All Assessment Inputs (Performance Indicators (PIs) and Inspection Findings) Green; Cornerstone Objectives Fully 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 W ithin 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
	Licen <b>see</b> 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
С О М М U N I С А Т I О 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					

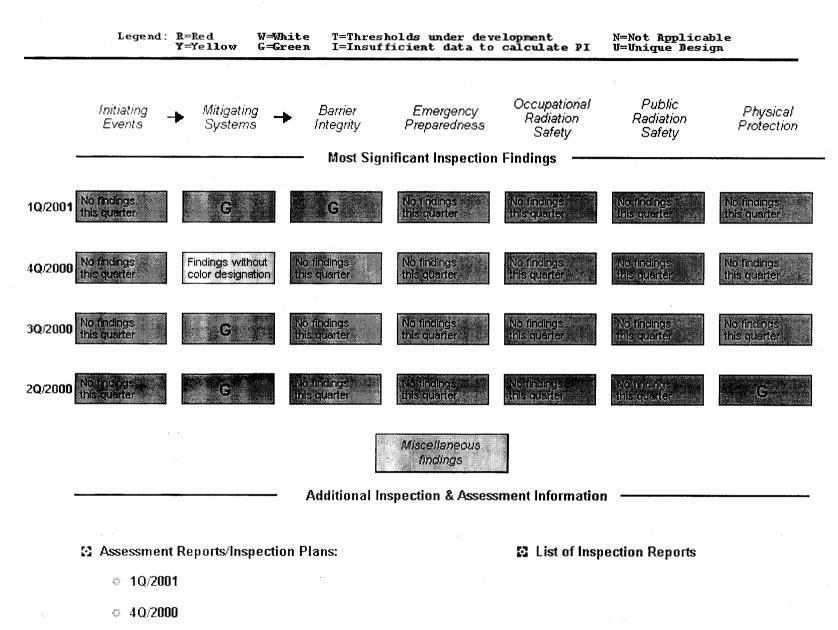
1Q/2001 Performance Summary - Monticello



#### Current Action Matrix Column: Licensee Response Column







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- © 2Q/2000