End of Cycle Assessment Results Byron Nuclear Power Plant



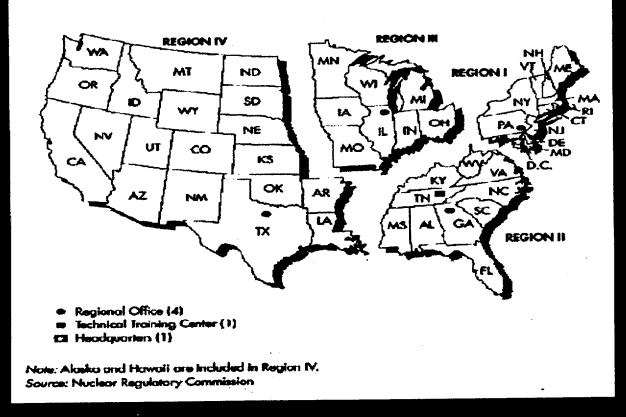
United States Nuclear Regulatory Commission

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

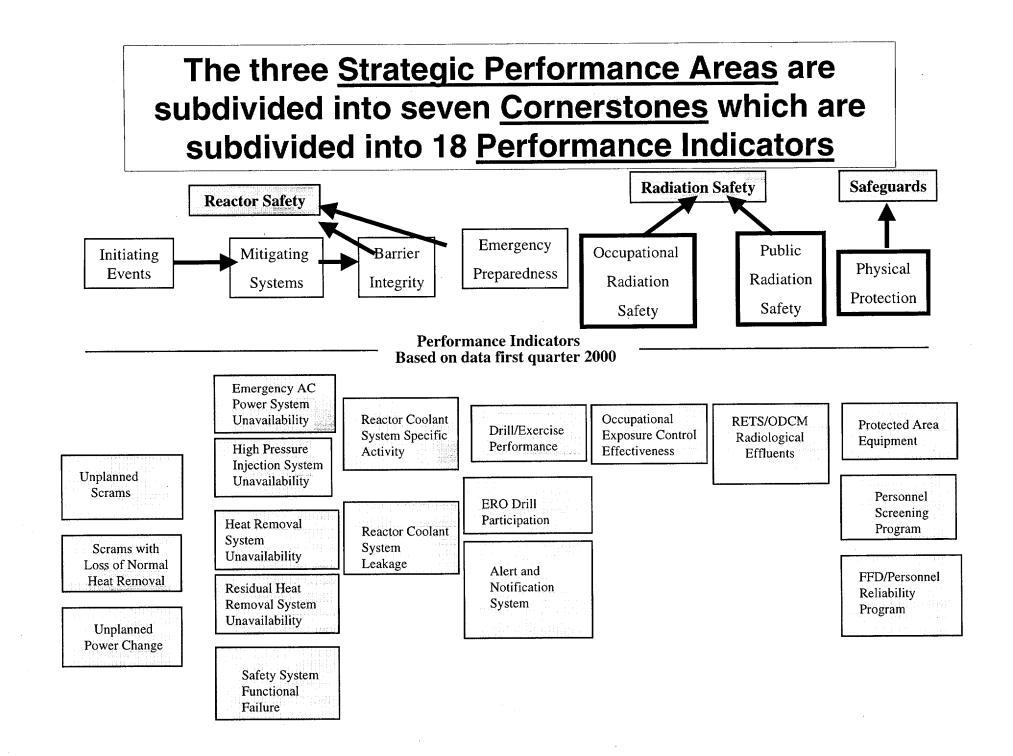
NRC REGIONAL OFFICES

. . Institut Calenting . . .

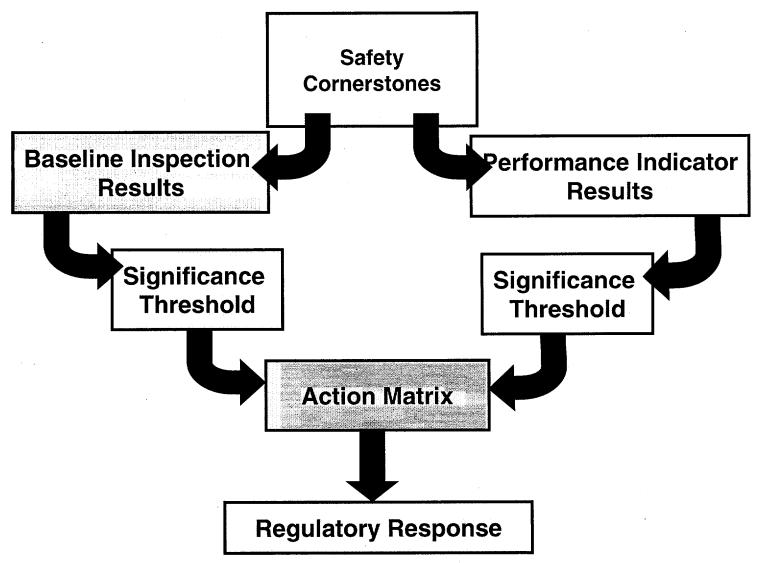


FOUR KEY NRC OUTCOME MEASURES

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

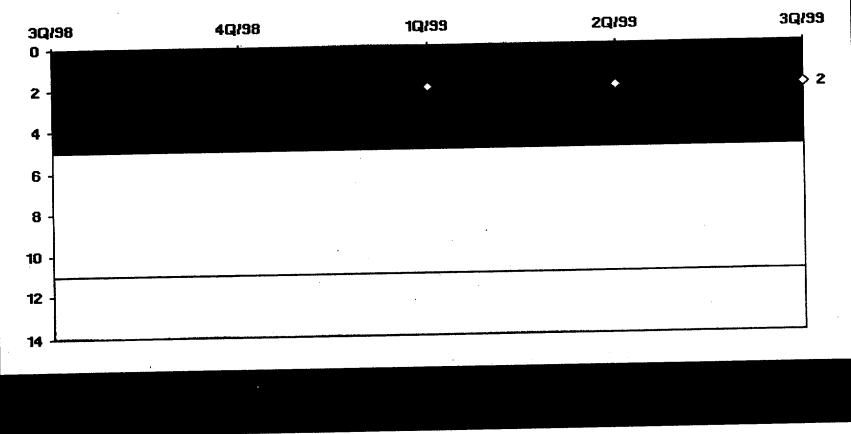


Reactor Oversight Process



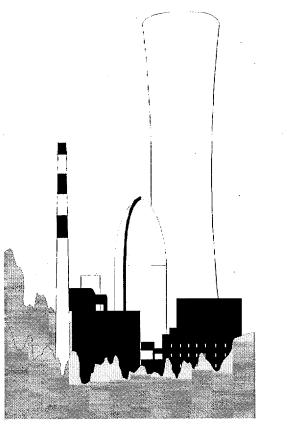
A <u>Performance Indicator</u> uses objective data to monitor performance in each <u>Cornerstone area</u>

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

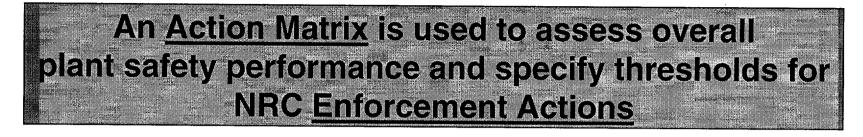
- Daily plant tours
- Daily control room tours
- Inspect maintenance of important equipment
- Inspect controls for radiation protection of plant workers
- Inspect controls for radiation releases
- Plant security inspections

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

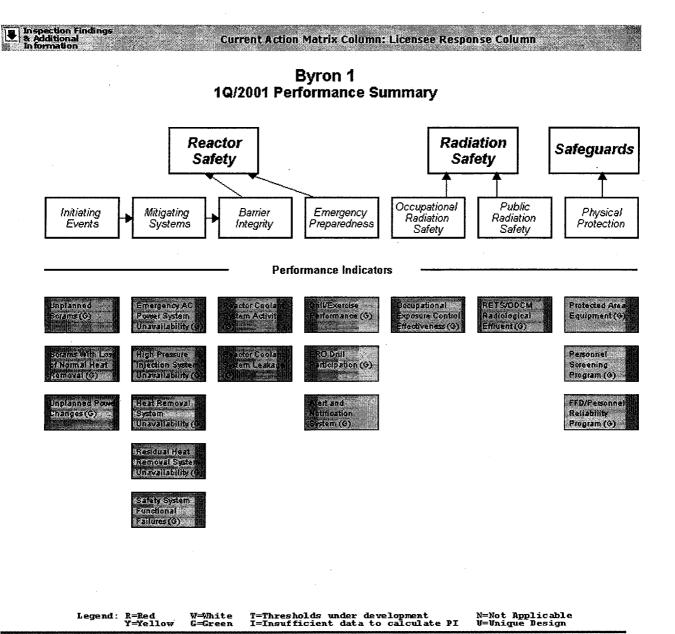


		Licensee Response Colum n	Regulatory Response Colum n	Degraded Cornerston Column	e Multiple/Repetitive Degraded Cornersto Colum n	U naccep table ne Performance Colum n
R E S U L T S		All Assessment Inputs (Performance Indicators (PIs) and Inspection Findings) Green; Cornerstone Objectives Fully Met	One 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 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
	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 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	SRIor BC Meet with Licensee	BC or DD Meetwith Licensee	RA (or designee) Discuss Performance with Licensee	EDO (or Commission) Discuss Performance with Senior Licensee Management	Commission Meeting with Senior Licensee Management
Ň	INCREASING SAFETY SIGNIFICANCE>					

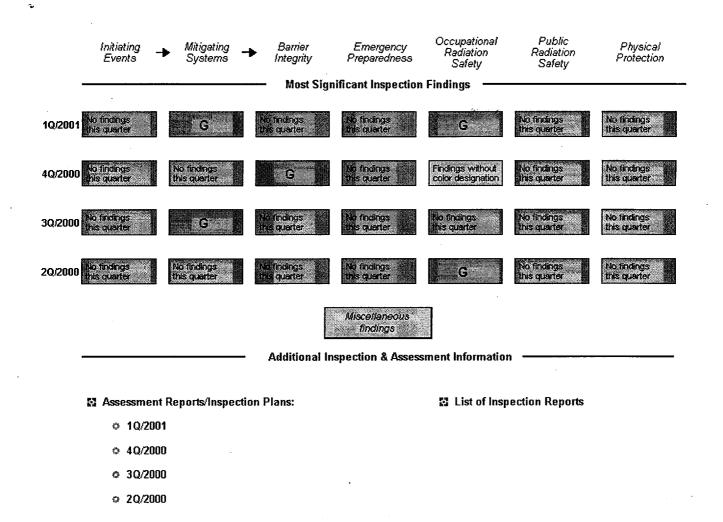
May 2001 Byron End of Cycle Performance Assessment Results

- All Performance Indicators Green
- All Inspection Findings were determined to be Green
- Safe Plant Operation
- Licensee Response Column

1



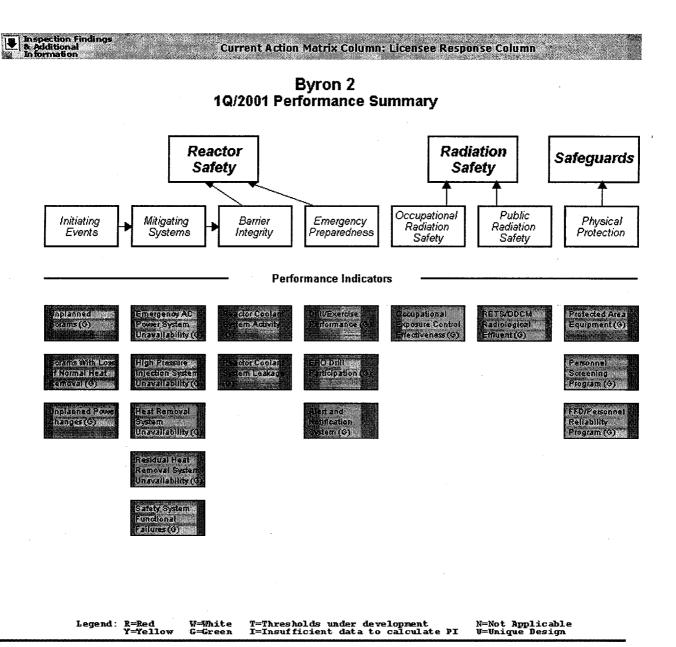
1Q/2001 Performance Summary - Byron 1



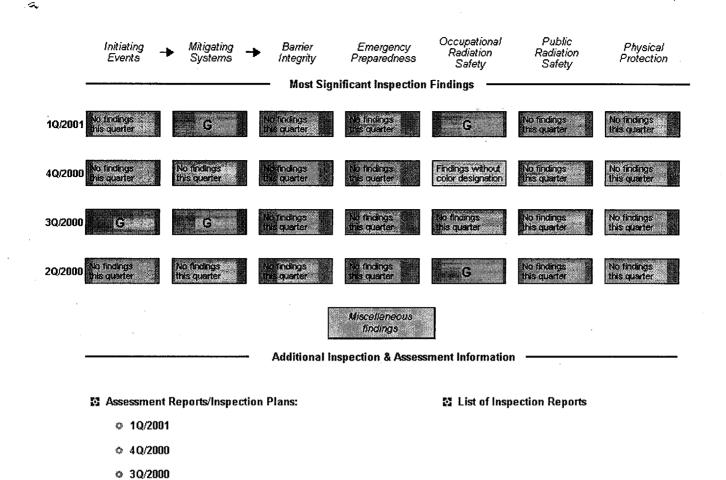
PI Summary | Inspection Findings Summary | Action Matrix Summary | Plant Assessment Results

Last Modified: June 12, 2001

3



1Q/2001 Performance Summary - Byron 2



© 2Q/2000

PI Summary | Inspection Findings Summary | Action Matrix Summary | Plant Assessment Results

Last Modified: June 12, 2001

JAN STRASMA -> 630 - 829 - 9613 - 800 - 522 - 3025

· · ·

AGENDA

Introduction

- NRC
- Reactor Oversight Process

Current End of Cycle Assessment Results

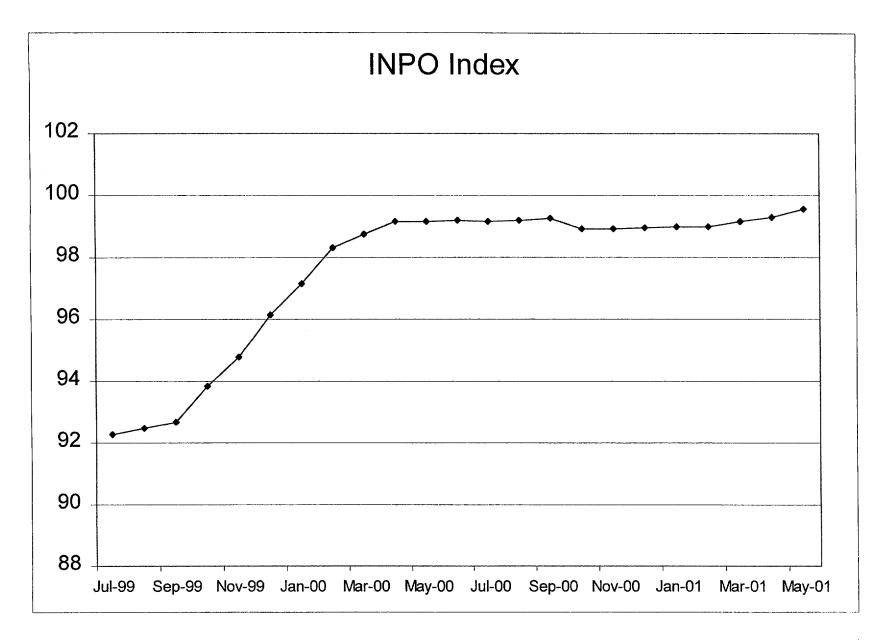
- Performance Indicators
- Inspection Results
- Discussion of Current Plant Performance
- Concluding Remarks

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

Exelon Nuclear Byron Generating Station NRC Public Meeting July 10, 2001

Byron Generating Station July 10, 2001

e a state de la state de la state



Byron Generating Station July 10, 2001

2

Performance Issues

- NRC Findings
 - Entered into the Station Corrective Action Program
 - Low Safety Significance
 - Supplement the Station Self
 Assessment Initiatives

Byron Focus Areas

- Human Performance
- Corrective Action Process
- Plant Material Condition