

**NRC CY 2005**  
**Annual Assessment Meeting**

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**VIRGIL C. SUMMER NUCLEAR STATION**



**Jenkinsville, South Carolina**  
**March 31, 2006**

# Purpose of Today's Meeting

- A public forum for discussion of V. C. Summer's performance
- NRC will address V. C. Summer's performance issues identified in the annual assessment letter
- V. C. Summer management will be given the opportunity to respond to the information in the letter and inform the NRC of new or existing programs to maintain or improve their performance

# Meeting Agenda

- Introduction
- Reactor Oversight Process
  - Review
  - National Summary of Plant Performance
  - V. C. Summer's Plant Performance Results
- Remarks
  - V. C. Summer Management Response
  - NRC Closing Remarks
- Break
- NRC Available to Address Public Questions

# Region II Organization

**William Travers**  
Regional Administrator

**Loren Plisco**  
Deputy Regional Administrator

**Charles Casto**  
Director Division of Reactor Projects

**Joseph Shea**  
Deputy Director

**Kerry Landis**  
Branch Chief

**John Zeiler**  
**Mike Cain**  
Resident Inspectors

**Larry Garner**  
**Heather Gepford**  
Project Engineers

**Victor McCree**  
Director Division of Reactor Safety

**Harold Christensen**  
Deputy Director

**Regional Specialists**

# NRC Performance Goals

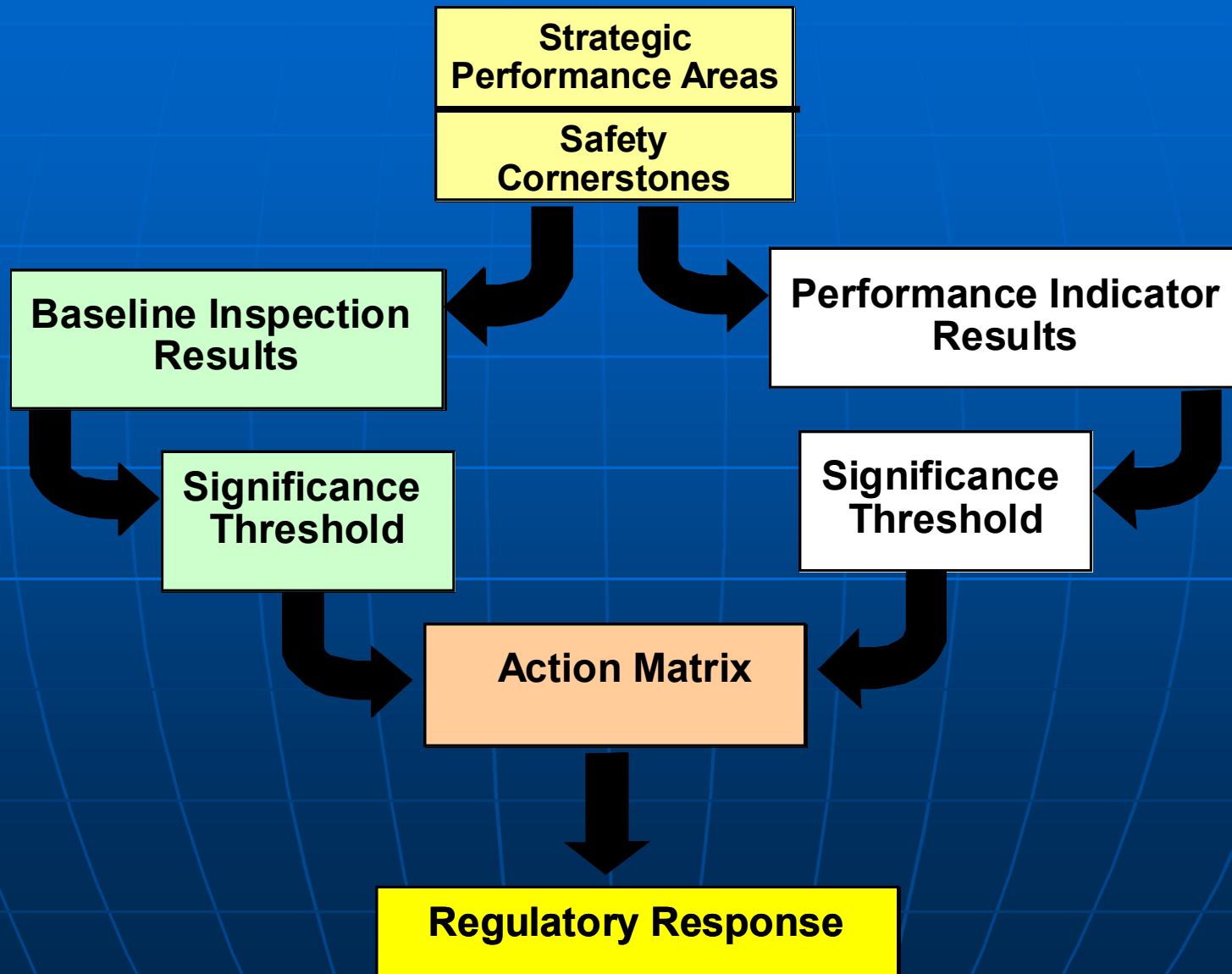
## PRIMARY GOALS

- **Ensure protection of public health and safety and the environment**
- **Ensure the secure use and management of radioactive materials**

## OTHER GOALS

- Ensure openness in NRC regulatory process
- Ensure that NRC actions are effective, efficient, realistic, and timely
- Ensure excellence in NRC management to carry out the NRC's strategic objective

# Reactor Oversight Process



# Examples of Baseline Inspections

- Equipment Alignment ~80 hrs/yr
- Triennial Fire Protection ~200 hrs every 3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Rad Release Controls ~110 hrs every 2 yrs
- Worker Radiation Protection ~90 hrs/yr
- Corrective Action Program ~250 hrs every 2 yrs
- Corrective Action Case Reviews ~60 hrs/yr

# Performance Thresholds

## Safety Significance

<b>Green:</b>	Very low safety issue
<b>White:</b>	Low-to-moderate safety issue
<b>Yellow:</b>	Substantial safety issue
<b>Red:</b>	High safety issue

## NRC Inspection Efforts

<b>Green:</b>	Only baseline inspections
<b>White:</b>	May increase NRC oversight
<b>Yellow:</b>	Increased NRC oversight
<b>Red:</b>	Increased NRC oversight and other NRC actions



# Action Matrix Concept

<b>Licensee Response</b>	<b>Regulatory Response</b>	<b>Degraded Cornerstone</b>	<b>Multiple/Rep. Degraded Cornerstone</b>	<b>Unacceptable Performance</b>
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**Increasing Safety Significance**

**Increasing NRC Inspection Efforts**

**Increasing NRC/Licensee Management Involvement**

**Increasing Regulatory Actions**

# National Summary of Plant Performance

Status at End of CY 2005

Licensee Response	84
Regulatory Response	12
Degraded Cornerstone	4
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
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<b>Total</b>	<b>103</b>

# V. C. Summer CY 2005 Inspection Activities

- 3940 hours of inspection related activities
- Radiation Protection inspections
- Emergency Preparedness inspections
- Pressurizer Penetration Nozzle inspection (TI 2515/160)
- Transportation of Reactor Control Rod Drives (TI 2515/161)
- Operational Readiness of Offsite Power (TI 2515/163)
- Baseline Security inspections and Force on Force Exercise
- B.5.B inspection (TI 2515/164)
- Steam Generator Inservice inspection
- Modification inspection
- Heat Sink inspection
- Reactor Operator Initial and Requalification inspections
- Refueling Outage related inspections

## V. C. Summer CY 2005 Assessment Results

- V. C. Summer's performance was within the Licensee Response Column of the NRC's Action Matrix
- All inspection findings were classified as very low safety significance (Green)
- All performance indicators were Green

## V. C. Summer Assessment Summary

- South Carolina Electric and Gas Company operated V. C. Summer in a manner that preserved public health and safety
- All cornerstone objectives were met
- NRC plans baseline inspections at V. C. Summer for the remainder of CY 2006

# V. C. Summer CY 2006 Scheduled Inspection Activities

- Resident Inspector Baseline inspections
- Radiation Protection inspections
- Emergency Preparedness inspections
- Inservice inspection
- Reactor Operator Requalification inspection
- Component Design Bases inspection
- Refueling Outage related inspections
- Containment Sump inspection (TI 2515/166)
- Reactor Pressure Vessel Head and Head Penetration Nozzle inspection (TI 2515/150)

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# Contacting the NRC

- Report an emergency
  - Phone: (301) 816-5100 (*call collect*)
- Report a safety concern
  - Phone: (800) 695-7403
  - Email: [Allegation@nrc.gov](mailto:Allegation@nrc.gov)
- General information or questions
  - Website: [www.nrc.gov](http://www.nrc.gov)  
Select: **“What We Do”** for Public Affairs



# Reference Sources

- Reactor Oversight Process

- [www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html)

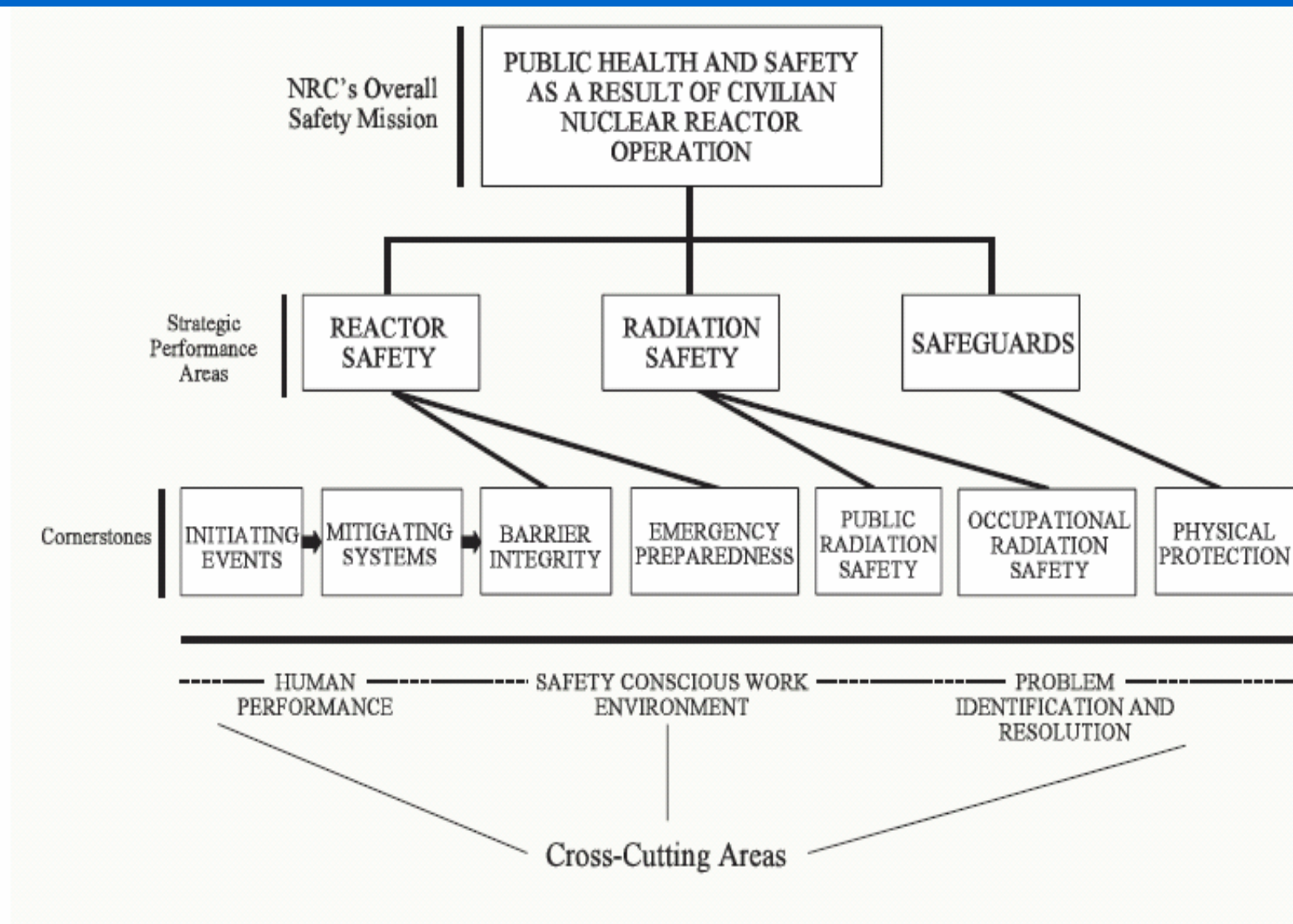
- Public Electronic Reading Room

- [www.nrc.gov/reading-rm.html](http://www.nrc.gov/reading-rm.html)

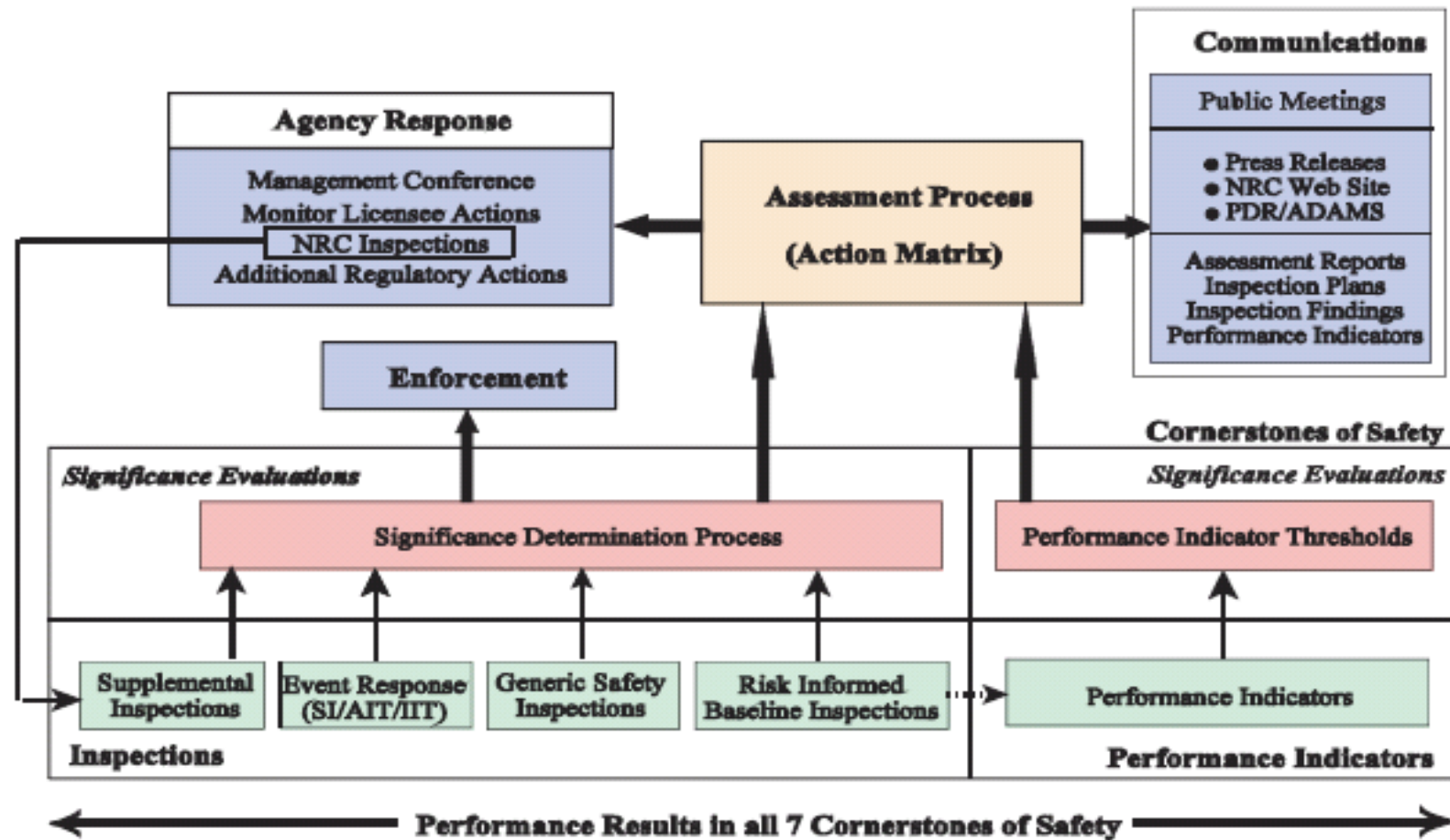
- Public Document Room

- 1-800-397-4209 (Toll Free)





## Exhibit 2: REACTOR OVERSIGHT PROCESS



## Exhibit 4 - ACTION MATRIX

		Licensee Response column	Regulatory Response column	Degraded Cornerstone column	Multiple/ Repetitive Degraded Cornerstone column	Unacceptable Performance column	IMC 0350 Process
RESULTS		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 Moderate Degradation in Safety Performance	Repetitive Degraded Cornerstone, Multiple Degraded Cornerstones, Multiple Yellow Inputs, or 1 Red Input; Cornerstone Objectives Met with Longstanding Issues or Significant Degradation in Safety Performance	Overall Unacceptable Performance; Plants Not Permitted to Operate Within this Band, Unacceptable Margin to Safety	Plants in a shutdown condition with performance problems placed under the IMC 0350 process
RESPONSE	Regulatory Performance Meeting	None	Branch Chief (BC) or Division Director (DD) Meet with Licensee	DO or Regional Administrator (RA) Meet with Licensee	RA (or EDO) Meet with Senior Licensee Management	Commission meeting with Senior Licensee Management	RA (or EDO) Meet with Senior Licensee Management
	Licensee Action	Licensee Corrective Action	Licensee root cause evaluation and corrective action with NRC Oversight	Licensee cumulative root cause evaluation with NRC Oversight	Licensee Performance Improvement Plan with NRC Oversight		Licensee Performance Improvement Plan / Restart 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		Baseline and supplemental as practicable, plus special inspections per restart checklist.
	Regulatory Actions <sup>1</sup>	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	CAL/order requiring NRC approval for restart.
COMMUNICATION	Assessment Letters	BC or DD review/sign assessment report (w/ inspection plan)	DO review/sign assessment report (w/ inspection plan)	RA review/sign assessment report (w/ inspection plan)	RA review/sign assessment report (w/ inspection plan)		N/A. RA (or 0350 Panel Chairman) review/ sign 0350-related correspondence
	Annual Public Meeting	SRI or BC Meet with Licensee	BC or DO Meet with Licensee	RA (or designee) Discuss Performance with Licensee	RA or EDO Discuss Performance with Senior Licensee Management		N/A. 0350 Panel Chairman conduct public status meetings periodically
	Commission Involvement	None	None	None	Plant discussed at AARM	Commission Meeting with Senior Licensee Management	Commission meetings as requested, restart approval in some cases.
		INCREASING SAFETY SIGNIFICANCE ----->					

Note 1: Other than the CAL, the regulatory actions for plants in the Multiple/Repetitive Degraded Cornerstone column and IMC 0350 column are not mandatory agency actions. However, the regional office should consider each of these regulatory actions when significant new information regarding licensee performance becomes available.

Note 2: The IMC 0350 Process column is included for illustrative purposes only and is not necessarily representative of the worst level of licensee performance. Plants under the IMC 0350 oversight process are considered outside the auspices of the ROP Action Matrix. See IMC 0350, "Oversight of Operating Reactor Facilities in a Shutdown Condition with Performance Problems," for more detail.