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Do not include proprietary materials.*

DATE OF MEETING
6/26/01

The attached document(s), which was/were handed out in this meeting, is/are to be placed in the public domain as soon as possible. The minutes of the meeting will be issued in the near future. Following are administrative details regarding this meeting:

Docket Number(s) 05000352 & 05000353

Plant/Facility Name Limerick Generating Station Units 1+2

TAC Number(s) (if available) _____

Reference Meeting Notice 01-029

Purpose of Meeting (copy from meeting notice) To discuss the result of NRC's assessment of the safety performance at Limerick

NAME OF PERSON WHO ISSUED MEETING NOTICE

M. Shanbaky

TITLE

Branch Chief

OFFICE

RI

DIVISION

DRP

BRANCH

BR 4

Distribution of this form and attachments:

Docket File/Central File
PUBLIC

ANNUAL ASSESSMENT MEETING



Nuclear Regulatory Commission

Agenda

- Introduction
- Review of Reactor Oversight Process
- Discussion of Plant Performance Results
- Licensee Remarks
- NRC Closing Remarks

NRC Representatives

- Mohamed Shanbaky, Chief Reactor Projects Branch
 - (mms1@nrc.gov (610) 337-5209)
- Don Florek, Senior Project Engineer
 - (djf1@nrc.gov (610) 337-5185)
- Art Burritt, Senior Resident Inspector
 - (alb1@nrc.gov (610) 327-1344)
- Blake Welling, Resident Inspector
 - (bdw@nrc.gov (610) 327-1344)

Reference Sources

Reactor Oversight Process

<http://www.nrc.gov/NRR/OVERSIGHT/index.html>

Public Electronic Reading Room

<http://www.nrc.gov/NRC/ADAMS/index.html>

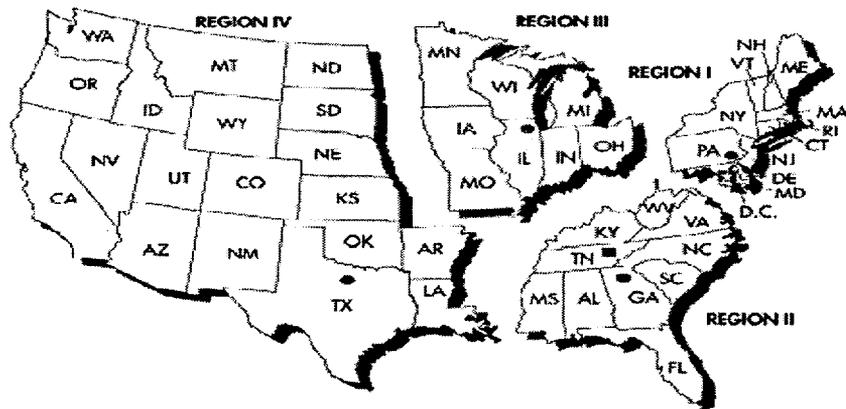
Public Document Room

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 REGIONAL OFFICES



- Regional Office (4)
- Technical Training Center (1)
- Headquarters (1)

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

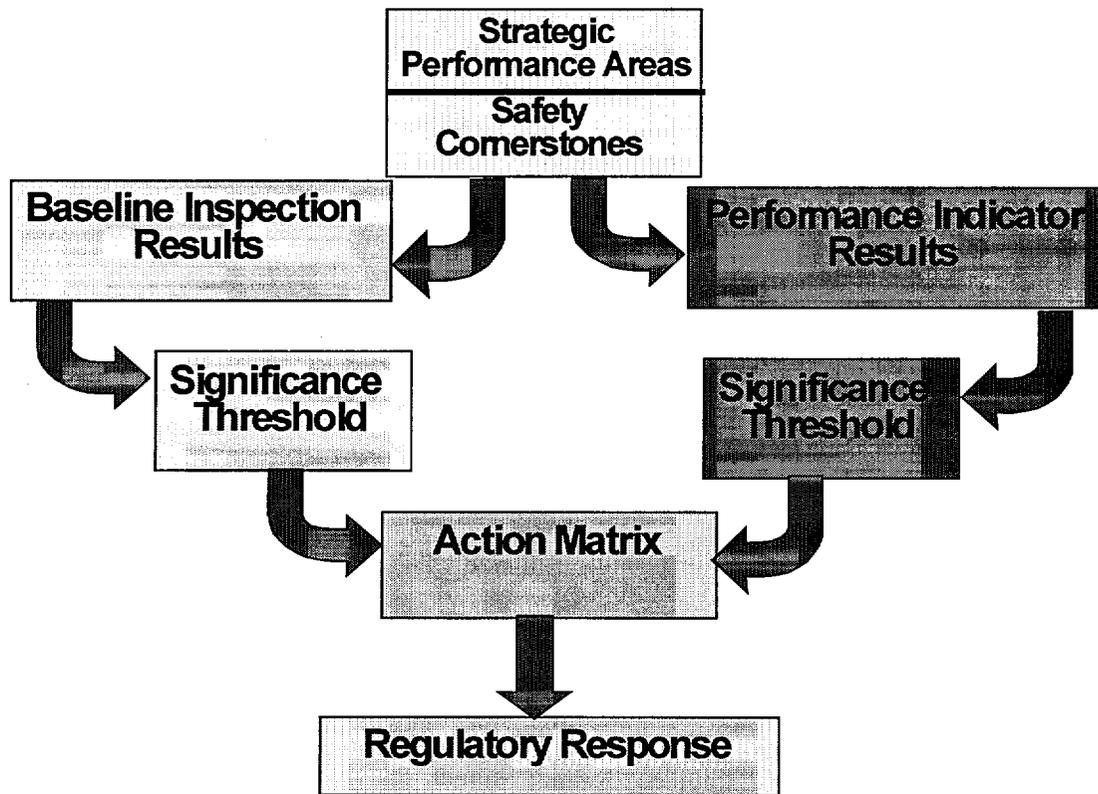
NRC Performance Goals

- 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

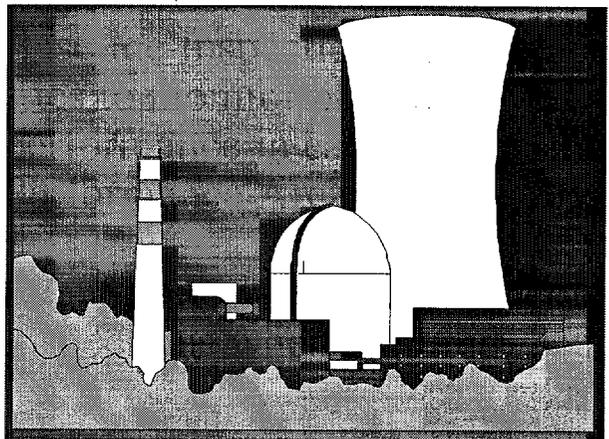
Safety Cornerstones

- 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
- Worker radiation protection
- Controls for radiation releases
- Plant security

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

Significance Threshold

Performance Indicators

- Green:** Performance requiring no NRC oversight beyond baseline Inspection
- White:** Performance may result in increased NRC oversight
- Yellow:** Performance that minimally reduces safety margin and requires more NRC oversight
- Red:** Performance that represents significant reduction in safety, requires more NRC oversight, but provides adequate protection to public health and safety

Inspection Findings

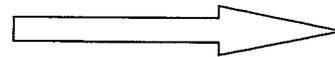
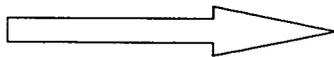
- Green:** Very Low safety issue
- White:** Low to moderate safety issue
- Yellow:** Substantial safety issue
- Red:** High safety issue

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

Action Matrix Concept

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Degraded Cornerstone	Unacceptable Performance
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Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions

National Summary

First Quarter Calendar Year 2001 Performance Indicator Results

Green: 1818
White: 14
Yellow: 0
Red: 0

Total Inspection Findings (April 2000 - March 2001)

Green: 1031
White: 20
Yellow: 1
Red: 1

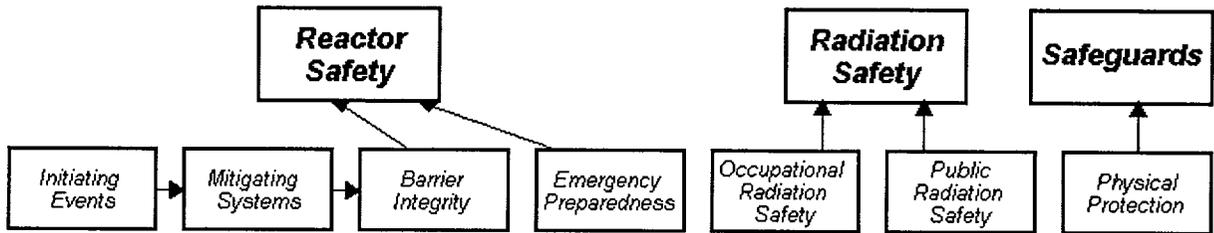
National Summary of Plant Performance - 102 Plants End of First Quarter Calendar Year 2001

Licensee Response	83
Regulatory Response	15
Degraded Cornerstone	3
Multiple/Repetitive Degraded Cornerstone	1
Unacceptable	0

Limerick Annual Assessment

- Completed all baseline inspections but one
- No supplemental inspections were required
- Operated safely
- Fully met all cornerstone objectives
- Licensee Response Band of Action Matrix
 - All Inspection Findings of very low safety significance (Green)
 - All Performance Indicators requiring no additional NRC oversight (Green)
- NRC Plans to conduct baseline inspections

Limerick 1 1Q/2001 Performance Summary



Performance Indicators

Unplanned Scrams (Q)	Emergency AC Power System Unavailability (Q)	Reactor Cooling System Action (Q)	Drill Exercise Performance (Q)	Occupational Exposure Control Effectiveness (Q)	ES/ODCM Biological Plant (Q)	Protected Area Equipment (Q)
Scrams With Loss of Normal Heat Removal (Q)	High Pressure Injection System Unavailability (Q)	Reactor Cooling System Leaks (Q)	ARD Drill Participation (Q)			Personnel Training System (Q)
Unplanned Power Changes (Q)	Heat Removal System Unavailability (Q)		Exit and Identification System (Q)			D/P Control Viability System (Q)
	Residual Heat Removal System Unavailability (Q)					
	Safety System Functional Failures (Q)					

Initiating Events → Mitigating Systems → Barrier Integrity Emergency Preparedness Occupational Radiation Safety Public Radiation Safety Physical Protection

Most Significant Inspection Findings

	Initiating Events	Mitigating Systems	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Physical Protection
1Q/2001	No findings this quarter	G	No findings this quarter	G	No findings this quarter	No findings this quarter	No findings this quarter
4Q/2000	No findings this quarter	G	G	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
3Q/2000	No findings this quarter	G	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter	No findings this quarter
2Q/2000	No findings this quarter	No findings this quarter	No findings this quarter				

Miscellaneous findings

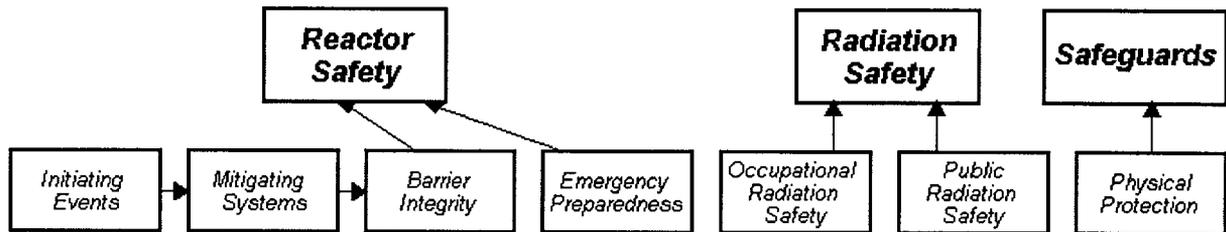
Additional Inspection & Assessment Information

Assessment Reports/Inspection Plans:

- 1Q/2001
- 4Q/2000
- 3Q/2000
- 2Q/2000

List of Inspection Reports

Limerick 2 1Q/2001 Performance Summary



Performance Indicators

Unplanned Scrams (0)	Emergency AC Power System Unavailability (0)	Reactor Cooling System Activity (0)	TRT Exercise Performance (0)	Occupational Exposure Control Effectiveness (0)	SR/DCM Biological Count (0)	Isolated Area Equipment (0)
Scrams With Loss of Normal Heat Removal (0)	High Pressure Injection System Unavailability (0)	Reactor Cooling System Leaks (0)	AC Drill Completion (0)			Isolation Monitoring System (0)
Unplanned Power Changes (0)	Heat Removal System Unavailability (0)		Test and Certification System (0)			SR Personnel Availability Program (0)
	Residual Heat Removal System Unavailability (0)					
	Safety System Functional Failures (0)					

Initiating
Events →

Mitigating
Systems →

Barrier
Integrity

Emergency
Preparedness

Occupational
Radiation
Safety

Public
Radiation
Safety

Physical
Protection

Most Significant Inspection Findings

1Q/2001

Findings without
color designation

G

No findings
this quarter

G

No findings
this quarter

No findings
this quarter

No findings
this quarter

4Q/2000

No findings
this quarter

G

G

No findings
this quarter

No findings
this quarter

No findings
this quarter

No findings
this quarter

3Q/2000

No findings
this quarter

G

No findings
this quarter

2Q/2000

No findings
this quarter

Miscellaneous
findings

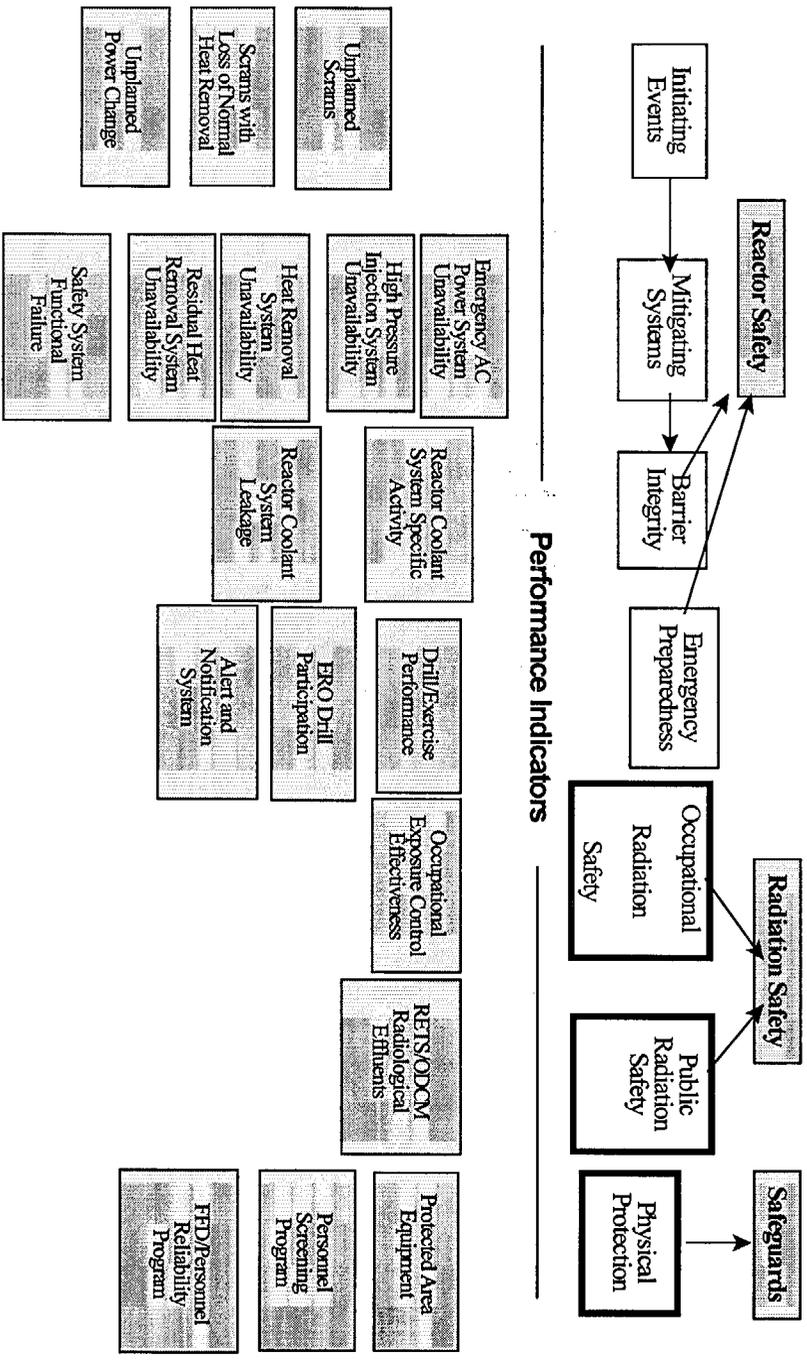
Additional Inspection & Assessment Information

Assessment Reports/Inspection Plans:

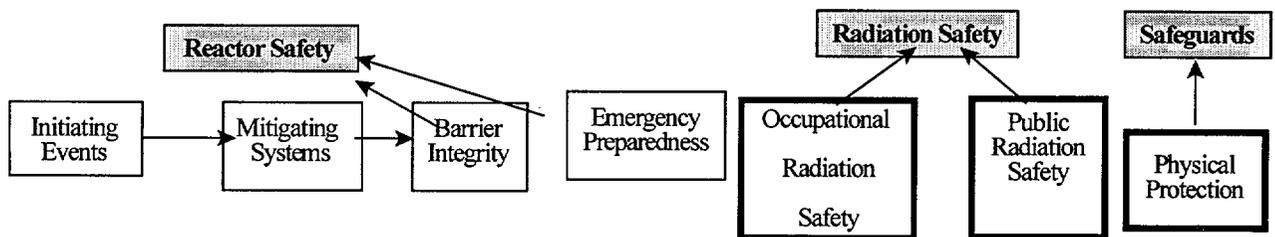
- 1Q/2001
- 4Q/2000
- 3Q/2000
- 2Q/2000

List of Inspection Reports

Relationship of Strategic Performance Areas, Safety Cornerstones and Performance Indicators



Inspection Areas



Inspection Procedures

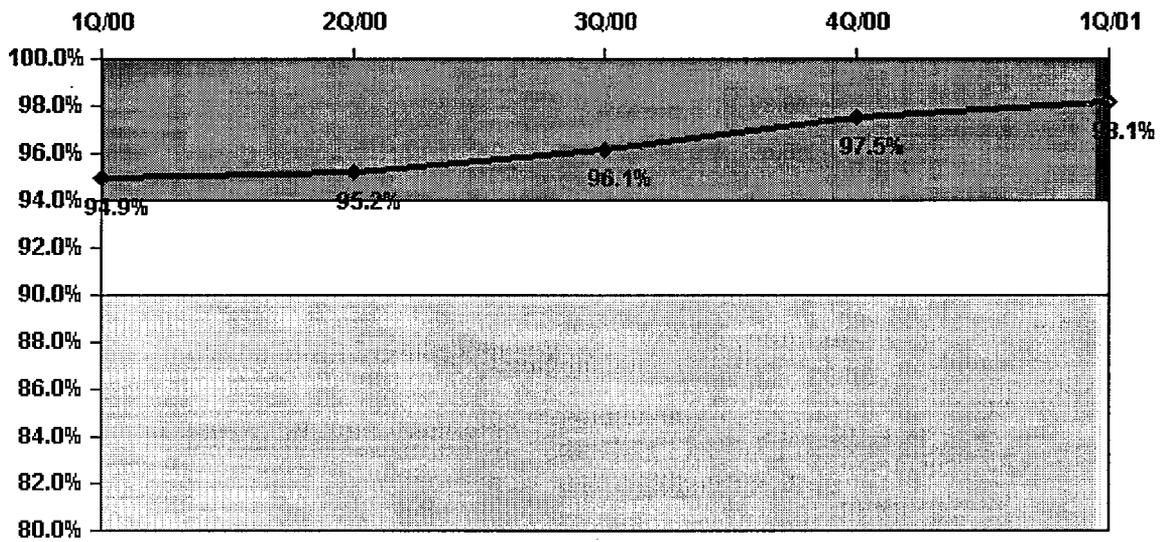
- | | | | |
|-------------------------------|---------------------------|-----------------------|----------------------------|
| ● Adverse Weather | ● Operability Evaluation | ● Exercise Evaluation | ● Sec Authorization Access |
| ● Evaluation of Changes | ● Operator Workarounds | ● Alert and Notice | ● Sec Search |
| ● Equipment Alignment | ● Permanent Mods-Online | ● ERO Augment | ● Sec Response |
| ● Fire Protection | ● Permanent Mods | ● EAL | ● Sec Plan change |
| ● Flood Protection | ● Post Maintenance Test | ● EP Preparation | |
| ● Heat Sink | ● Refueling Outage | ● Drill Evaluation | |
| ● In Service Inspection | ● SSDI | ● RAD Access | |
| ● Operator Requalification | ● Surveillance Testing | ● ALARA Plan | |
| ● Maintenance Rule Imp | ● Temporary Modifications | ● RAD monitoring | |
| ● Maintenance Risk Assessment | ● PI&R | ● RAD Effluents | |
| ● Non-Routine Events | ● Event Follow-up | ● RAD Transport | |
| | ● PI Verification | ● RAD Environmental | |

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	
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 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
RESPONSE	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
COMMUNICATION	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 →						

Performance Indicator

Alert & Notification System



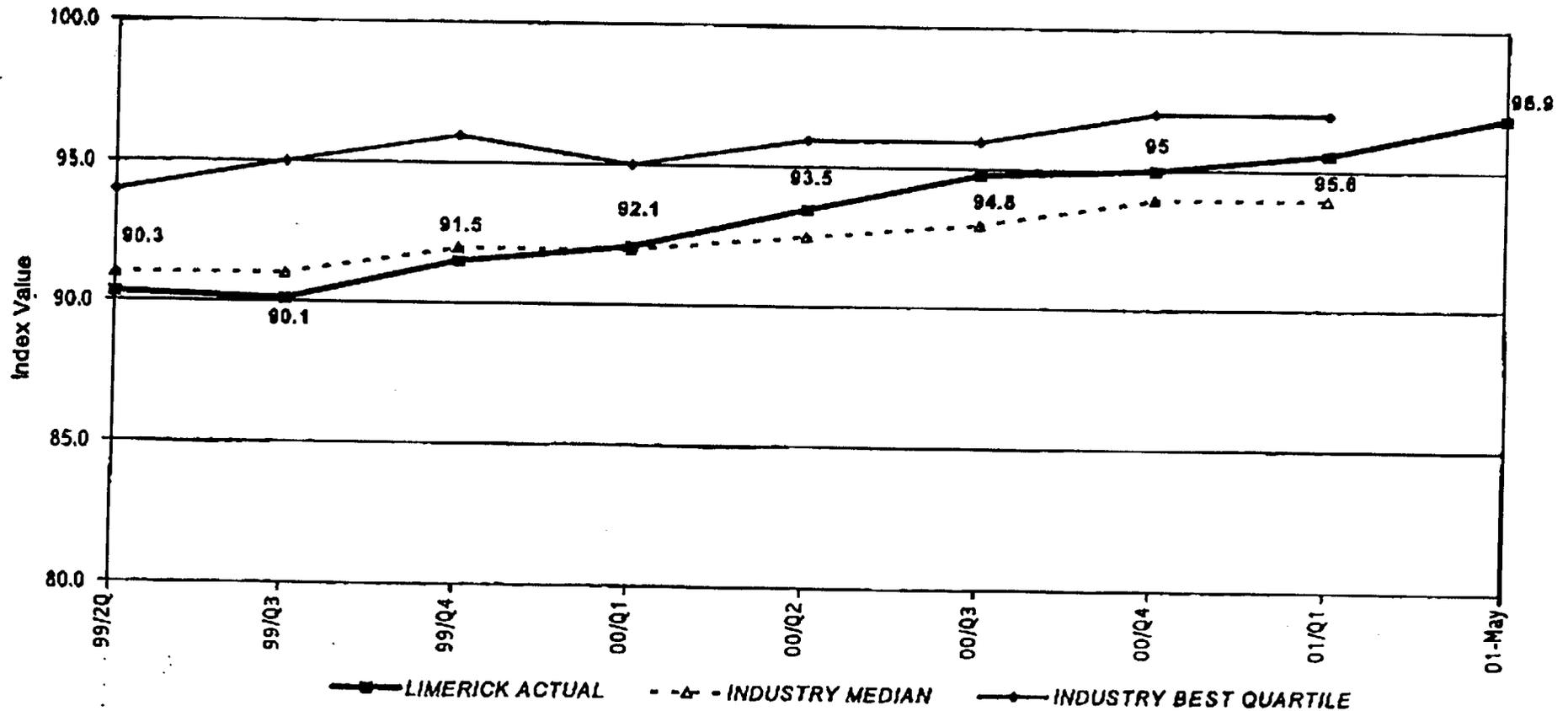
Thresholds: White < 94.0% Yellow < 90.0%



Limerick Generating Station

NRC Public Meeting
June 26, 2001

PERFORMANCE INDICATOR INDEX TREND

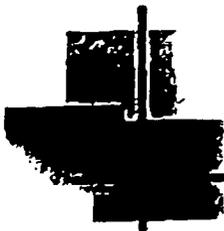


Limerick Generating Station June 26, 2001



Performance Issues

- NRC Findings
 - entered into station corrective action program
 - low safety significance
 - supplement station self assessment initiatives



LGS Focus Areas

- Human Performance
- Plant Equipment Reliability
- Corrective Action Program
- Excellence Plan Implementation