UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

January 04, 2000

Mr. Oliver D. Kingsley
President, Nuclear Generation Group
Commonwealth Edison Company
ATTN: Regulatory Services
Executive Towers West III
1400 Opus Place, Suite 500
Downers Grove, IL 60515

SUBJECT: STATUS MEETING ON THE PERFORMANCE OF COMMONWEALTH EDISON COMPANY'S NUCLEAR GENERATION GROUP

Dear Mr. Kingsley:

This refers to the meeting conducted at the NRC Region III office in Lisle, Illinois, on December 10, 1999. The purpose of this meeting was to discuss Commonwealth Edison Company (ComEd) Nuclear Generation Group's performance. Attendees at the meeting are listed in Enclosure 1. Enclosure 2 is a copy of ComEd's presentation materials.

The ComEd presentation included an overview of the ComEd self-assessment process, station status and self-assessment focus areas for each of the five stations, outage performance, overtime management, and configuration management. Commonwealth Edison concluded that station performance and material condition are improving. Commonwealth Edison is working to strengthen its self-assessment process in preparation for the implementation of the new NRC oversite process in April 2000. The NRC concluded that the overall performance of ComEd has continued to improve.

Another status meeting will be scheduled in the Spring of 2000 prior to the implementation of the new NRC oversight process. Commonwealth Edison recommended that middle level management meetings be conducted at each of the stations during first quarter 2000 to ensure an active dialog between ComEd and the NRC. Additionally, as a result of the recent motor operated valve issues identified at Quad Cities, a separate meeting will be scheduled to discuss the status of ComEd's motor operated valve testing program.

In accordance with Section 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be placed in the NRC's Public Document Room.

PDR ADOCK

If you have any questions regarding this meeting or if our understanding of actions ComEd is taking, as discussed above, differs from yours, please contact me at (630) 829-9657.

Sincerely,
/s/ J. Dyer

J. E. Dyer
Regional Administrator

Docket Nos.: 50-456; 50-457; 50-454;
50-455; 50-237; 50-249;
50-373; 50-374; 50-254;
50-265

Enclosures: 1. Attendance List
2. Licensee Presentation

cc: D. Helwig, Senior Vice President, Nuclear Services
C. Crane, Senior Vice President, Nuclear Operations
H. Stanley, Vice President, Nuclear Operations
R. Krich, Vice President, Regulatory Services
DCD - Licensing
T. Tulon, Braidwood Site Vice President
W. Levis, Byron Site Vice President
M. Heffley, Dresden Site Vice President
J. Benjamin, LaSalle Site Vice President
J. Dimmette, Jr., Quad Cities Site Vice President
K. Schwartz, Braidwood Station Manager
R. Lopriore, Byron Station Manager
P. Swafford, Dresden Station Manager
J. Meister, LaSalle Station Manager
G. Barnes, Quad Cities Station Manager
T. Simpkin, Braidwood Regulatory Assurance Supervisor
B. Adams, Byron Regulatory Assurance Manager
D. Ambler, Dresden Regulatory Assurance Manager
F. Spangenberg, LaSalle Regulatory Assurance Supervisor
C. Peterson, Quad Cities Regulatory Affairs Manager
M. Aguilar, Assistant Attorney General
State Liaison Officer, State of Illinois
State Liaison Officer, State of Wisconsin
Chairman, Illinois Commerce Commission
W. Leech, Manager of Nuclear MidAmerican Energy Company

DOCUMENT NAME: G:\COMED\COM12109.SUM
To receive a copy of this document, indicate in the box "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	RIII	E	RIII	E	RIII		RIII	
NAME	PPelke:sb		Burgess		Grant		Dyer	
DATE	12/14/99		12/14/99		12/13/99		12/14/99 OO	

OFFICIAL RECORD COPY

If you have any questions regarding this meeting or if our understanding of actions ComEd is taking, as discussed above, differs from yours, please contact me at (630) 829-9657.

Sincerely,

J. E. Dyer
Regional Administrator

Docket Nos.: 50-456; 50-457; 50-454; 50-455; 50-237; 50-249; 50-373; 50-374; 50-254; 50-265

Enclosures: 1. Attendance List
2. Licensee Presentation

cc: D. Helwig, Senior Vice President, Nuclear Services
C. Crane, Senior Vice President, Nuclear Operations
H. Stanley, Vice President, Nuclear Operations
R. Krich, Vice President, Regulatory Services
DCD - Licensing
T. Tulon, Braidwood Site Vice President
W. Levis, Byron Site Vice President
M. Heffley, Dresden Site Vice President
J. Benjamin, LaSalle Site Vice President
J. Dimmette, Jr., Quad Cities Site Vice President
K. Schwartz, Braidwood Station Manager
R. Lopriore, Byron Station Manager
P. Swafford, Dresden Station Manager
J. Meister, LaSalle Station Manager
G. Barnes, Quad Cities Station Manager
T. Simpkin, Braidwood Regulatory Assurance Supervisor
B. Adams, Byron Regulatory Assurance Manager
D. Ambler, Dresden Regulatory Assurance Manager
F. Spangenberg, LaSalle Regulatory Assurance Supervisor
C. Peterson, Quad Cities Regulatory Affairs Manager
M. Aguilar, Assistant Attorney General
State Liaison Officer, State of Illinois
State Liaison Officer, State of Wisconsin
Chairman, Illinois Commerce Commission
W. Leech, Manager of Nuclear MidAmerican Energy Company

Distribution:
AJM (E-mail)
RPC (E-mail)
NRR Project Mgrs.
Braidwood, Byron,
Dresden, LaSalle,
Quad Cities w/encl
J. Caldwell, RIII w/encl
B. Clayton, RIII w/encl
M. Ring, RIII w/encl
M. Leach, RIII w/encl
M. Jordan, RIII w/encl
SRIs Braidwood, Byron,
Dresden, LaSalle,
Quad Cities w/encl
DRP w/encl
DRS w/encl
RIII PRR w/encl
PUBLIC IE-01 w/encl
Docket File w/encl
GREENS

Enclosure 1

ATTENDANCE AT THE DECEMBER 10, 1999 MEETING BETWEEN THE NRC AND COMED

COMED ATTENDEES

O. Kingsley, Jr.	President and Chief Nuclear Officer
D. Helwig	Senior Vice President
C. Crane	Senior Vice President, Operations
S. Perry	Vice President, Nuclear Oversight
H. Stanley	Vice President, Operations
R. Krich	Vice President, Regulatory Services
W. Bohlke	Vice President, Engineering
R. Landy	Vice President, Human Resources and Administration
T. Tulon	Site Vice President, Byron
M. Heffley	Site Vice President, Dresden
J. Benjamin	Site Vice President, LaSalle
J. Dimmette, Jr.	Site Vice President, Quad Cities
W. Levis	Site Vice President, Byron

NRC ATTENDEES

J. Dyer	Regional Administrator, Region III
G. Grant	Director, Division of Reactor Projects (DRP), Region III
M. Dapas	Deputy Director, DRP, Region III
S. Reynolds	Deputy Director, Division of Reactor Safety, Region III
M. Ring	Chief, Projects Branch 1, DRP, Region III
P. Pelke	Reactor Engineer, Technical Support Staff, DRP, Region III
M. Jordan	Chief, Projects Branch 3, DRP, Region III
P. Prescott	Acting Chief, Projects Branch 2, DRP, Region III
R. Lerch	Project Engineer, Projects Branch 1, DRP, Region III

NUCLEAR GENERATION GROUP PERFORMANCE STATUS MEETING

December 10, 1999

NRC Region III

Lisle, IL

ComEd
A Unicom Company

ENCLOSURE 2

Agenda

Opening Remarks	**O. D. Kingsley, Jr.**
Self-Assessment Process	**C. M. Crane**
Station Status	**Site Vice Presidents**
- Self Assessment Focus Areas	
Outage Performance	**D. R. Helwig**
Overtime Management	**R. J. Landy**
Configuration Management	**H. G. Stanley**
Closing Remarks	**O. D. Kingsley, Jr.**

ComEd
A Unicom Company

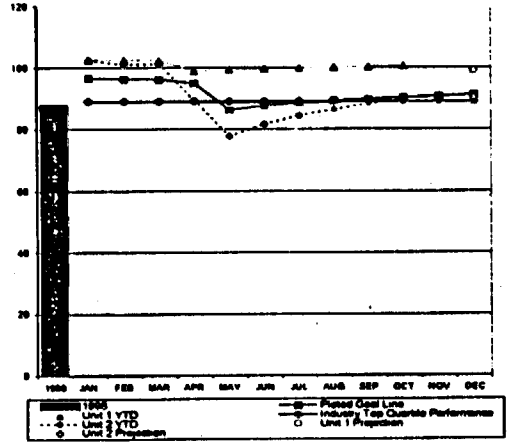
OPENING REMARKS

O. D. Kingsley, Jr.

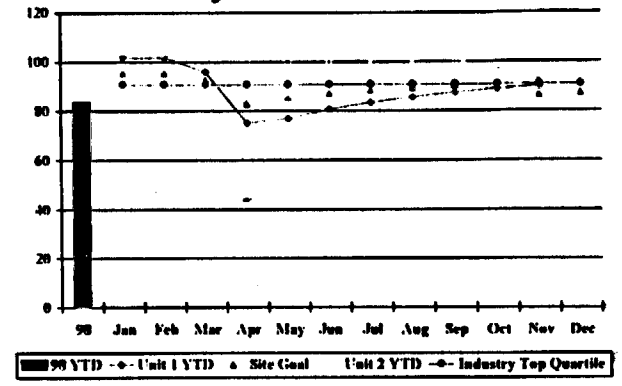
ComEd
A Unicom Company

Capacity Factors

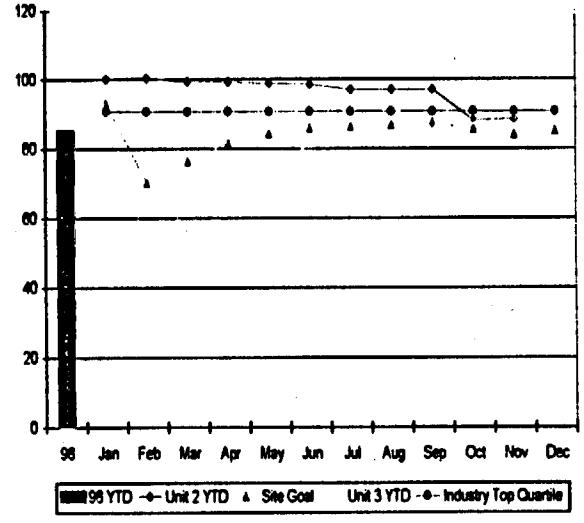
Braidwood Station



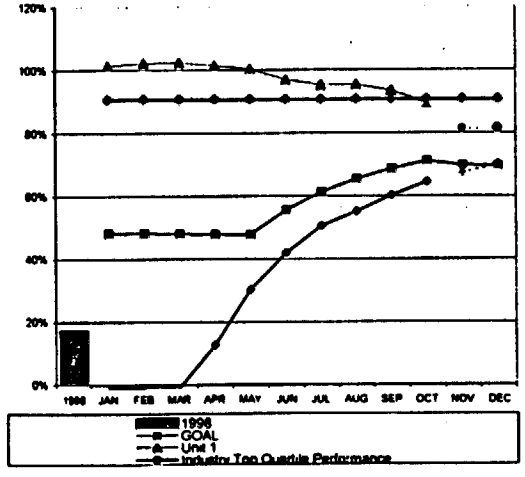
Byron Station



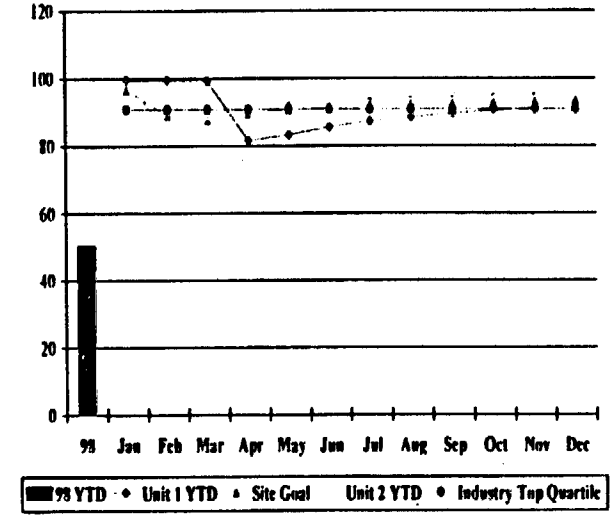
Dresden Station



LaSalle County Station



Quad Cities Station



SELF-ASSESSMENT PROCESS

C. M. Crane

ComEd
A Unicom Company

ComEd Self-Assessment Process

- **Continue to Raise the Bar**
- **Input from INPO, NRC, NSRB, NO, Corporate**
- **Focused Assessments**
- **Windows-Based**
- **Performed Quarterly**
- **Reviewed/Challenged/Corrective Action**
- **Sites and Corporate Support**

ComEd
A Unicom Company

Self-Assessment Process
Functional Area Categories

- **Operations**
  - Operations Management and Leadership
  - Conduct of Operations
  - Operator Knowledge and Skills
  - Operations Procedures and Documentation
  - Operations Facilities and Equipment
  - Plant Status and Configuration Control

- **Maintenance**
  - Maintenance and Management Leadership
  - Conduct of Maintenance
  - Maintenance Personnel Knowledge and Skills
  - Maintenance Procedures and Documentation
  - Maintenance Facilities and Equipment

- **Engineering**
  - Engineering Management and Leadership
  - Conduct of Engineering
  - Engineering Personnel Knowledge and Skills
  - Engineering Procedures and Documentation
  - Reactor Engineering and Fuel Management
  - Equipment Performance and Material Condition

- **Plant Support**
  - Radiological Protection
  - Chemistry
  - Emergency Preparedness
  - Security

ComEd
A Unicom Company

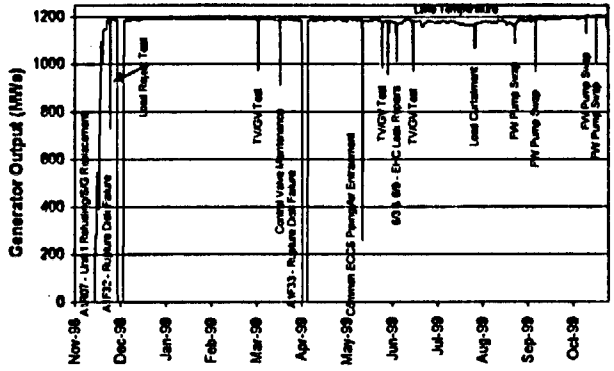
Station Status and Self Assessment Focus Areas

Site Vice Presidents

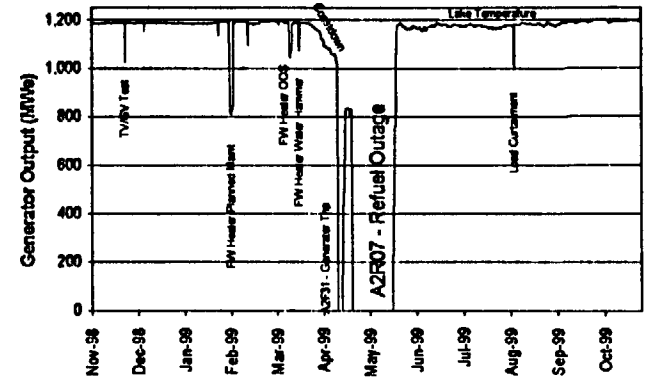
ComEd
A Unicom Company

Braidwood Plant Status

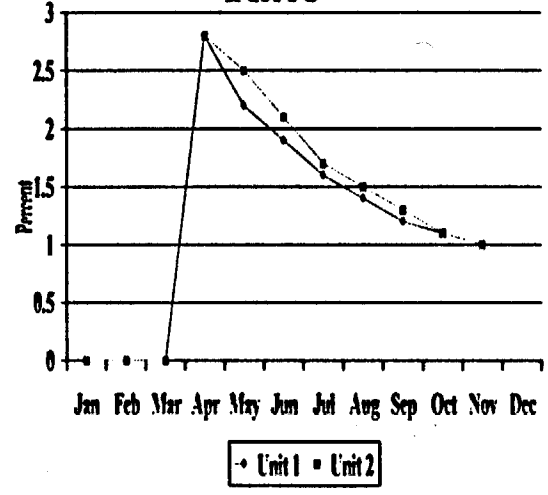
BRW-1



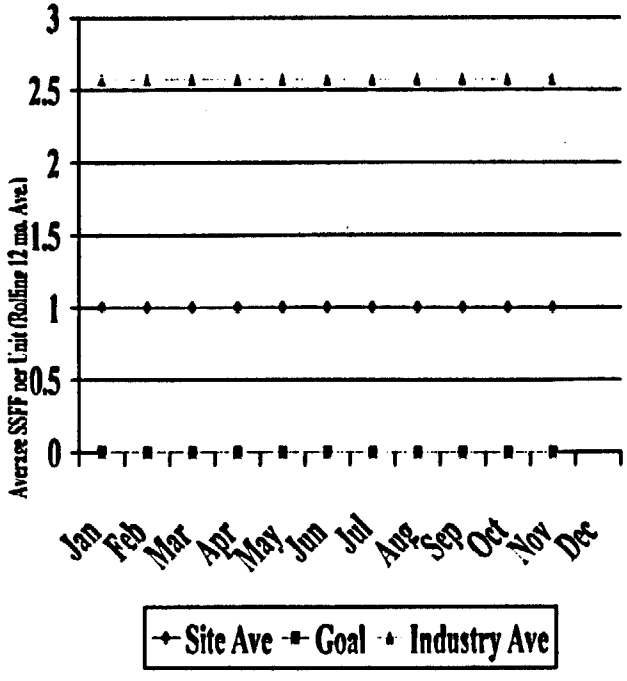
BRW-2



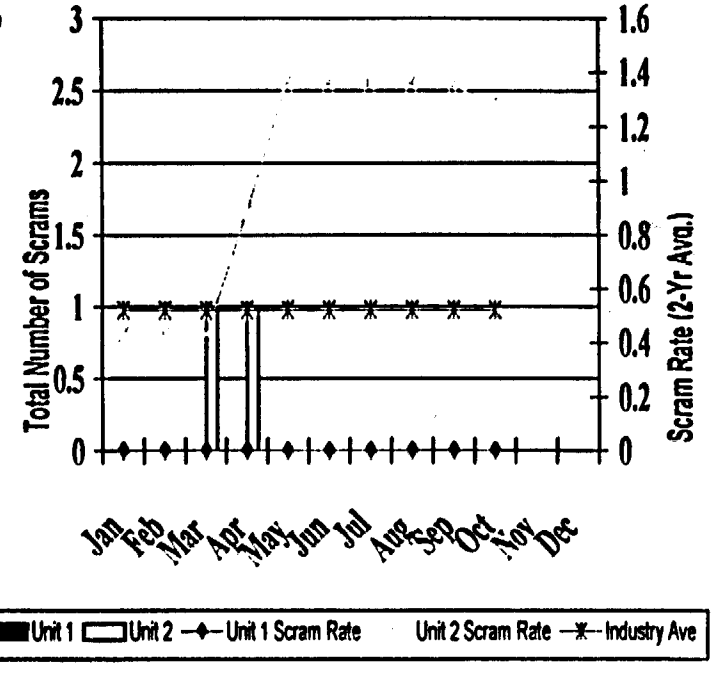
Forced Outage Rate



Safety System Functional Failures



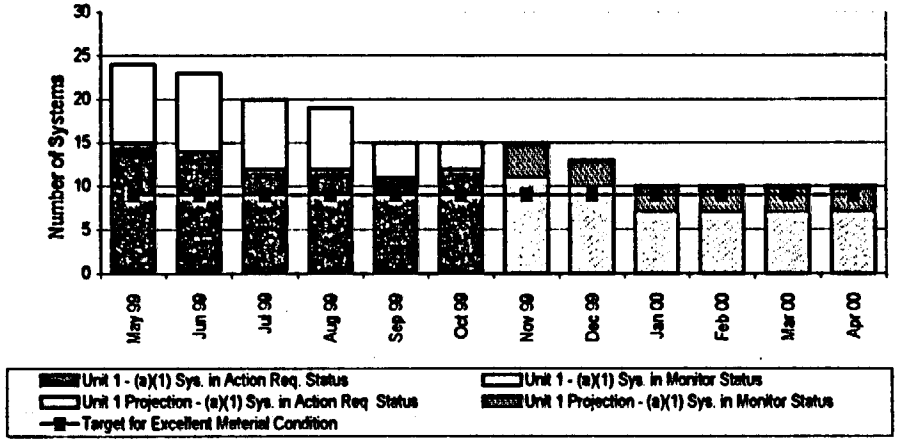
Number of Unplanned Automatic Scrams



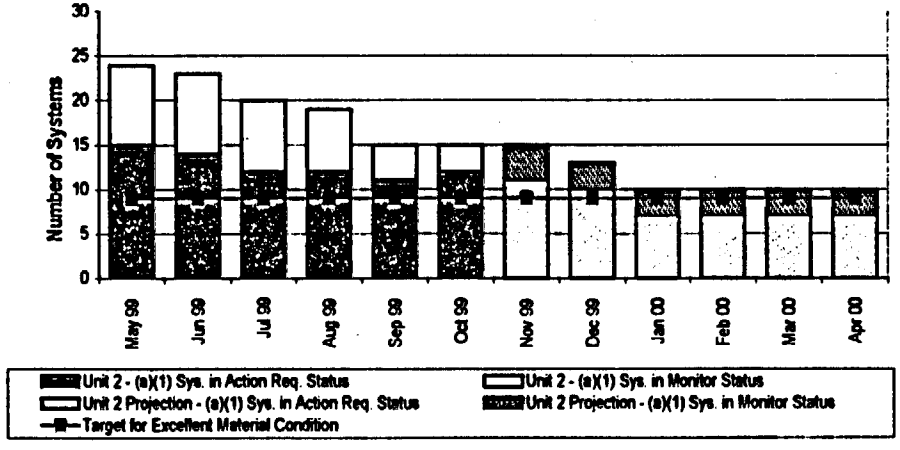
Material Condition - Braidwood Station

Maintenance Rule

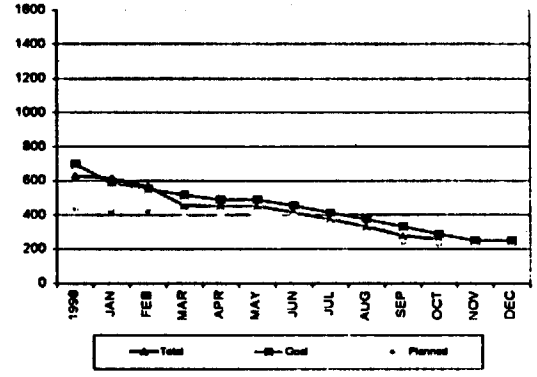
Unit 1



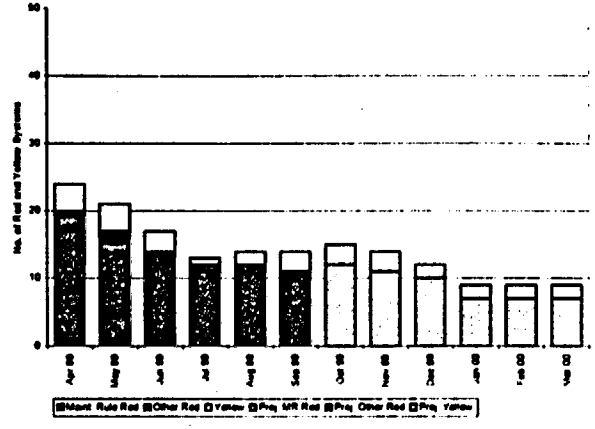
Unit 2



Non-Outage Corrective Maintenance Backlog



System Health Indicator Program (SHIP)



Braidwood Material Condition

POOR FAIR **GOOD** EXCELLENT

Accomplishments

- DRPI/CRDM Cabling Replacement (U2)
- ESF Battery Replacement (U1/U2)
- Seismic Monitor Replacement
- Condense Cleaning (U1/U2)
- Power Range Detector Replacement (U2)

Priorities

- DRPI/CRDM Cabling Replacement (U1)
- 1B SX Pump Rebuild
- Spent Fuel Pool Rerack
- PZR Spray and Heater Restoration

ComEd
A Unicom Company

Braidwood Self-Assessment
Focus Areas

- **Worker Practices**
- Configuration Control
- Tolerance for Lower Level Material Condition Issues
- Non-Outage Dose Management
- Work Package Execution

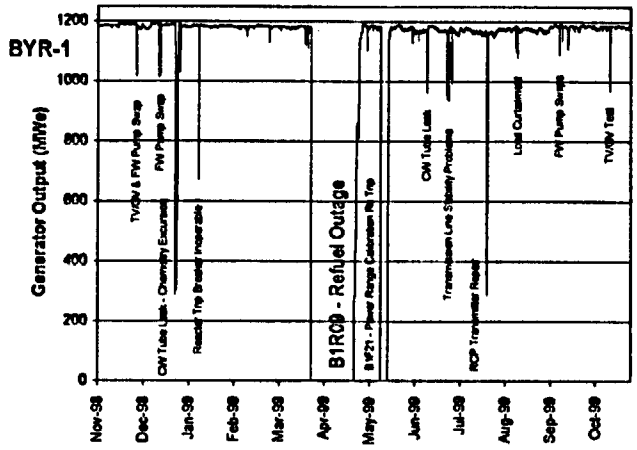
ComEd
A Unicom Company

Braidwood Worker Practices

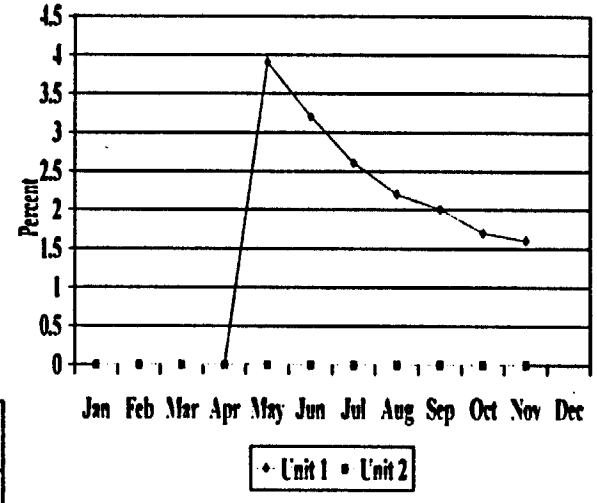
- Issue
  - Worker Practices - Rigor in Execution of Routine Activities
- Actions
  - Supervisor Assertiveness Training
  - Self Assessment Efforts
  - Paired Observations
  - Accountability
  - Increased Management Presence to Reinforce Expectations

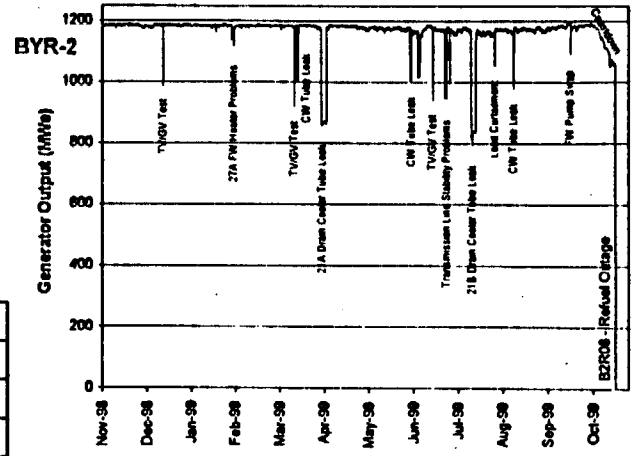
ComEd
A Unicom Company

Byron Plant Status

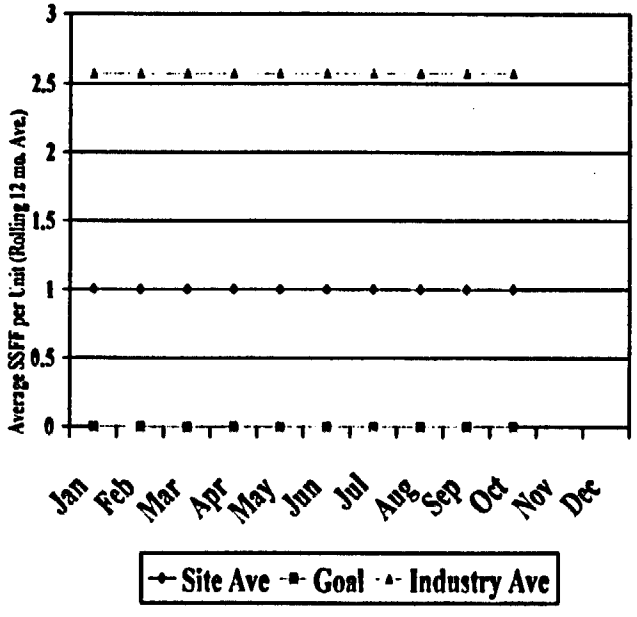


Forced Outage Rate

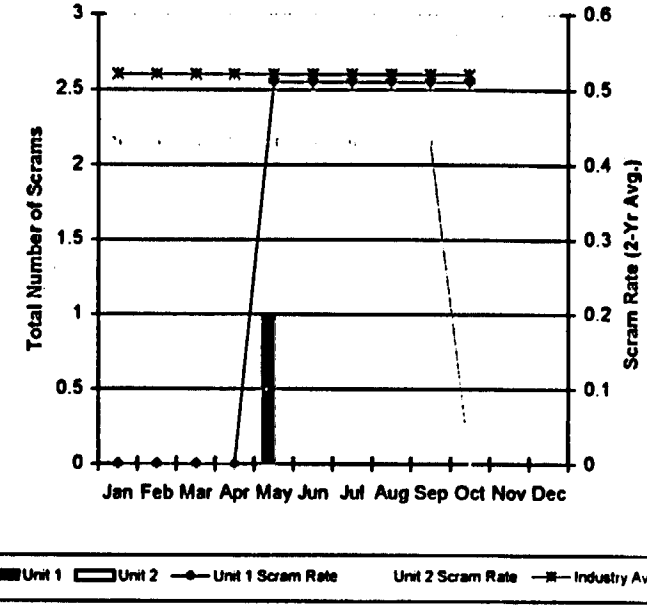




Safety System Functional Failures



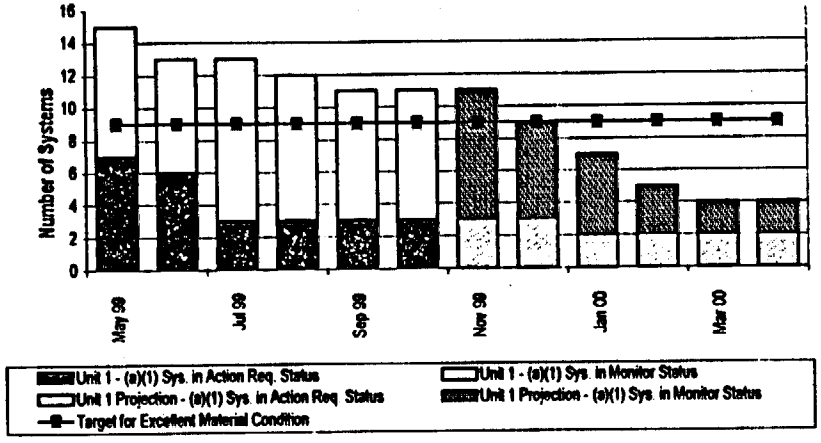
Number of Unplanned Automatic Scrams



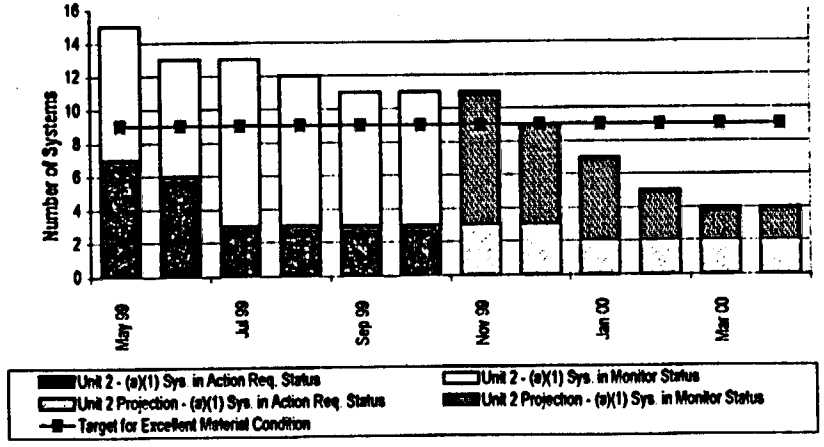
Material Condition - Byron Station

Maintenance Rule

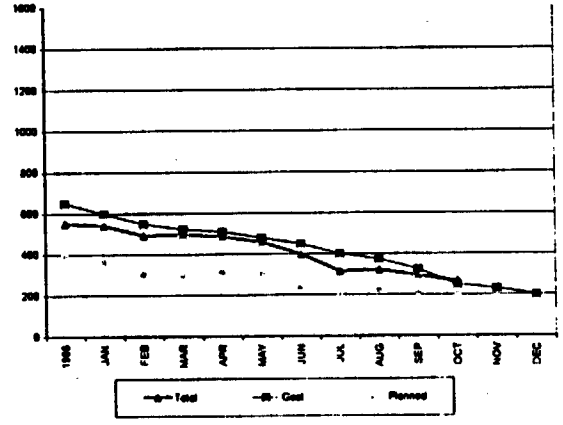
Unit 1



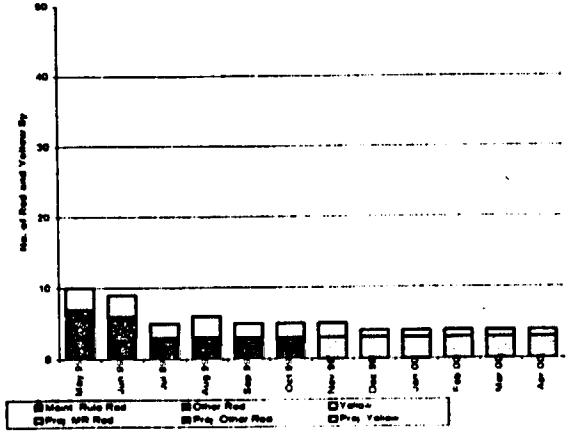
Unit 2



Non-Outage Corrective Maintenance Backlog



System Health Indicator Program (SHIP)



Byron Material Condition

POOR FAIR **GOOD** EXCELLENT

Accomplishments

- Condenser Water Box Coating (U1/U2)
- DRPI/CRDM Cabling Replacement (U1/U2)
- Pressurizer Spray and Heater Restoration (U2)
- SX Pump Rebuild (U2)
- Power Range Detector Replacement (U1)
- AFV-005 Valve Trim Mod (U1/U2)

Priorities

- Pressurizer Spray and Heater Restoration (U1)
- Spent Fuel Pool Rerack
- Loop Stop Isolation Valves (U1)
- Maintenance Rule (a)(1) SSCs (NR, PR, SA)
- Corrective WR Backlog Reduction
- SX Makeup Pump Vibrations

ComEd
A Unicom Company

Byron Self-Assessment Focus Areas

- **Operations - Human Performance**
- Plant Status and Configuration Control
- Procedures and Documentation
- Self Evaluation and Problem Identification/Corrective Action
- Management and Leadership Development

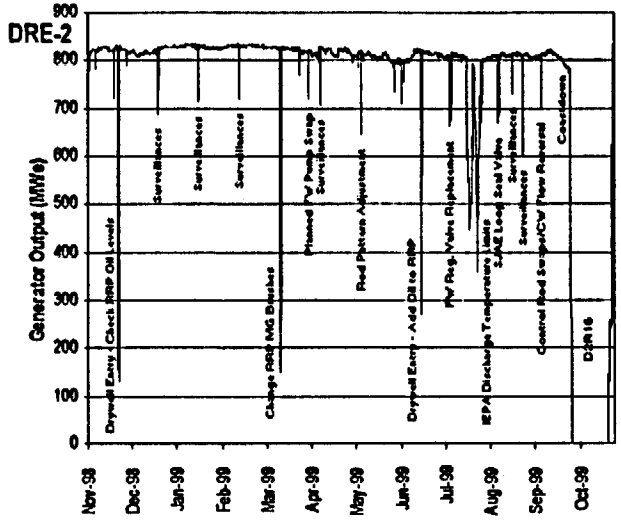
ComEd
A Unicom Company

Byron Self-Assessment

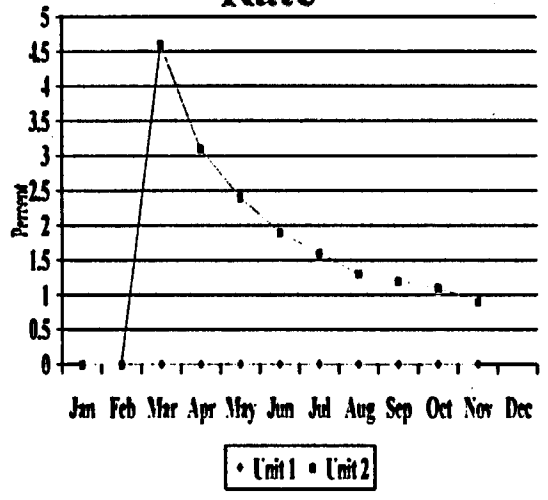
- ISSUE: Non-Licensed Operators (NLOs) Not Meeting Performance Expectation
- Actions Taken/Initiated
  - Developed NLO "Standards Set"
  - Revised Daily Rounds Based on NLO Feedback
  - Assigned a Staff SRO to Mentor Field Supervisors and Monitor NLO Standards
  - Requiring Each Field Supervisor to Conduct One Scorecard/Week Observing Rounds
  - Requiring Senior Management to Spend $\geq$ 4 Hours Per Week in Field

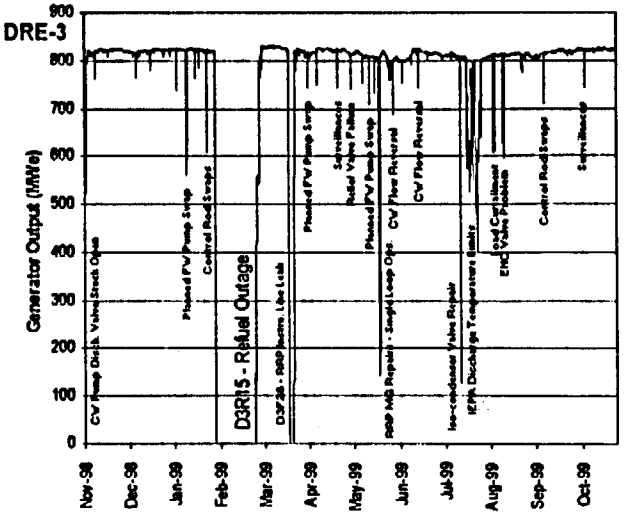
ComEd
A Unicom Company

Dresden Plant Status

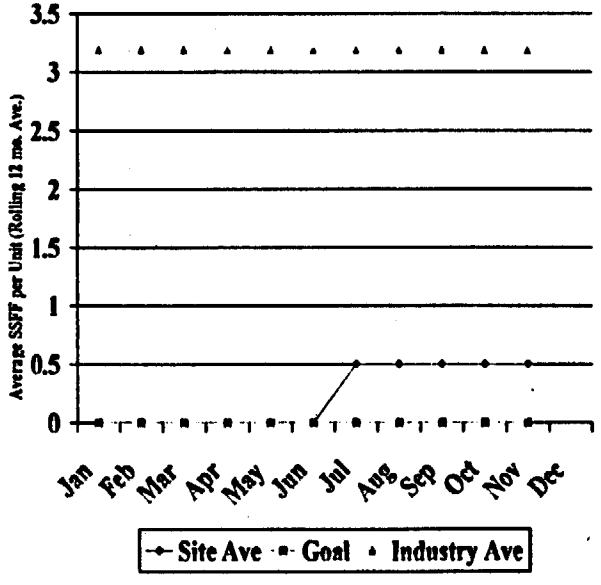


Forced Outage Rate

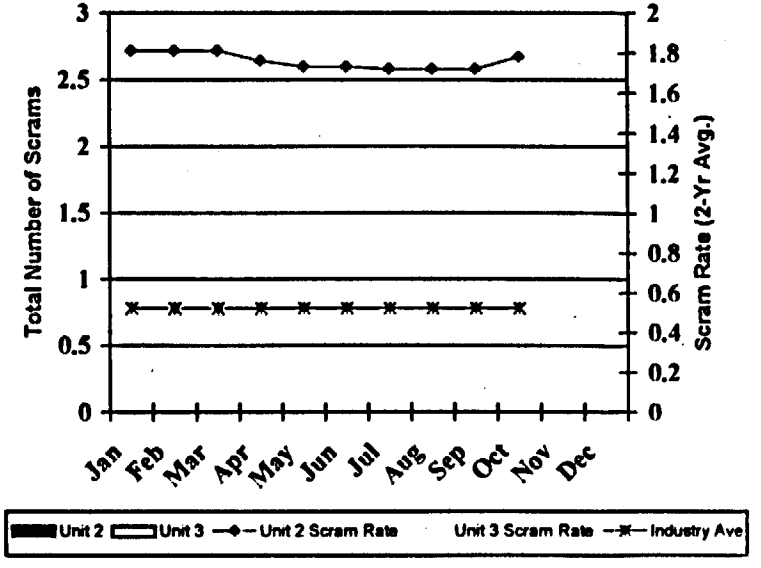




Safety System Functional Failures



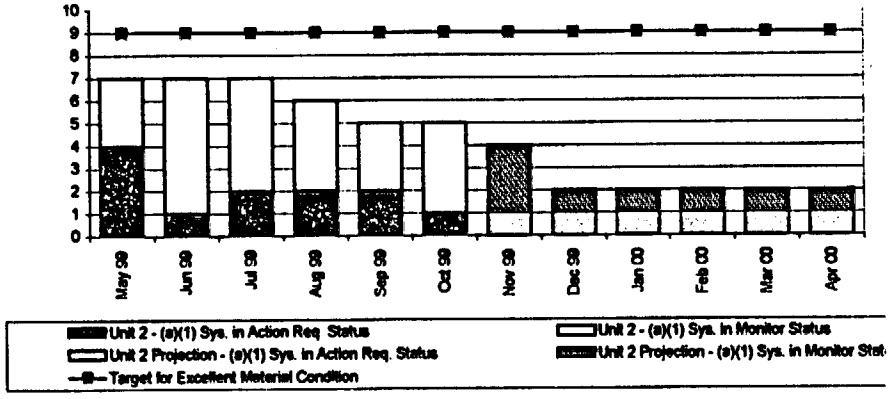
Number of Unplanned Automatic Scrams



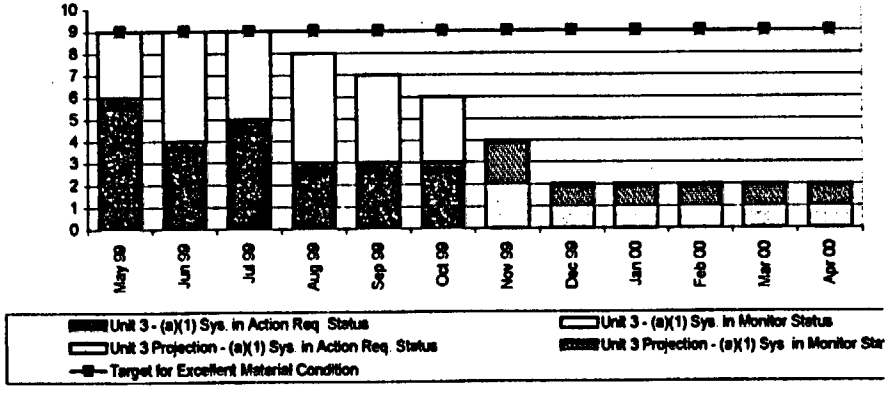
Material Condition - Dresden Station

Maintenance Rule

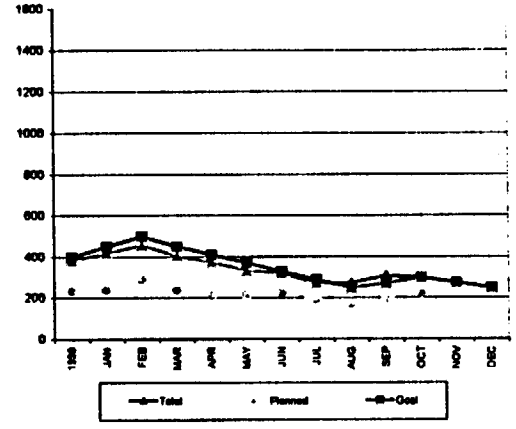
Unit 2



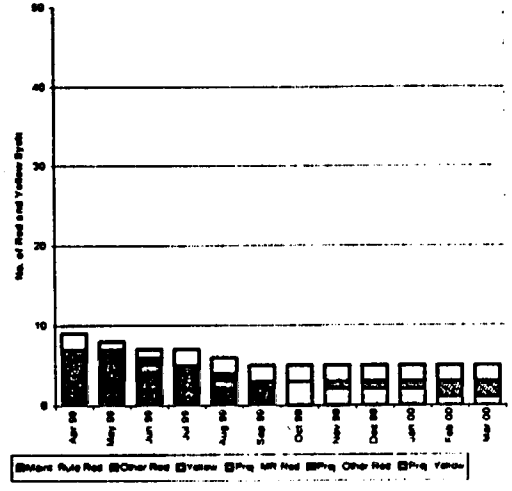
Unit 3



Non-Outage Corrective Maintenance Backlog



System Health Indicator Program (SHIP)



Dresden Material Condition

POOR FAIR **GOOD** EXCELLENT

Accomplishments

- 10° F Drywell Temp Reduction
- Main Gen. Voltage Regulator Mods
- Scram, Derate and Challenge Mods
- Condenser Cleaning and Bellows Replacement
- RR MG Set Brush Mods
- LPRM Replacements
- TIP Tubing Replaced
- Recirc Pump/Motor Improvements
- 1/2 Condenser Water Box Operation

Priorities

- Complete Condenser Bellows Replacement
- Noble Metal Injection
- Stator Water Cooler Mod
- Circ Water System Upgrades
- Dual Offgas Train Availability
- 36 Additional Cooling Towers

ComEd
A Unicom Company

Dresden Self-Assessment
Focus Areas

- **Radiation Protection**
- Operations Performance
- Safety-Electrical, Cranes and Forklifts
- Human Performance
- Change Management

ComEd
A Unicom Company

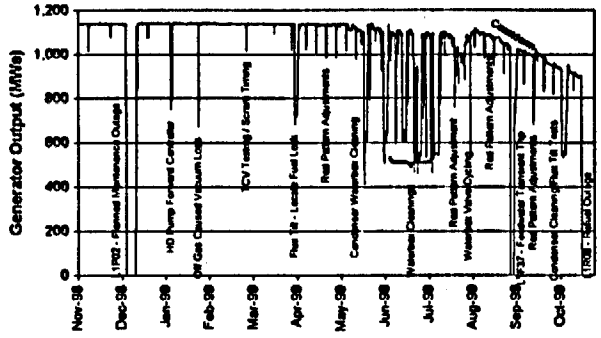
Dresden Radiation Protection

- Issue
  - Need to Improve Collective Radiation Exposure Control (Non-outage and Outage)
- Actions
  - Source Term Reduction
  - Workforce Engaged
  - Assign ISI PM
  - Benchmarking
  - Modular Scaffold and Teletower
  - Develop Permanent Scaffold Program
  - Obtain Appropriate Cameras for Fire Watch
  - Radworker/ALARA Workforce Training

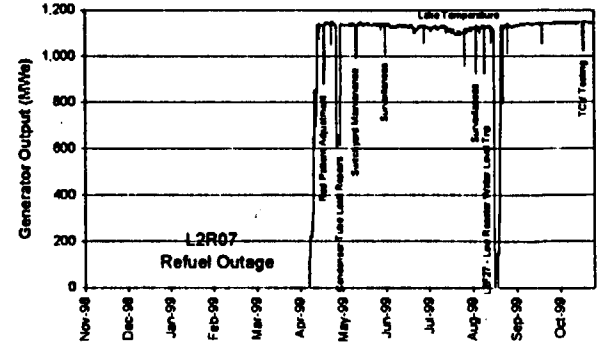
ComEd
A Unicom Company

LaSalle Plant Status

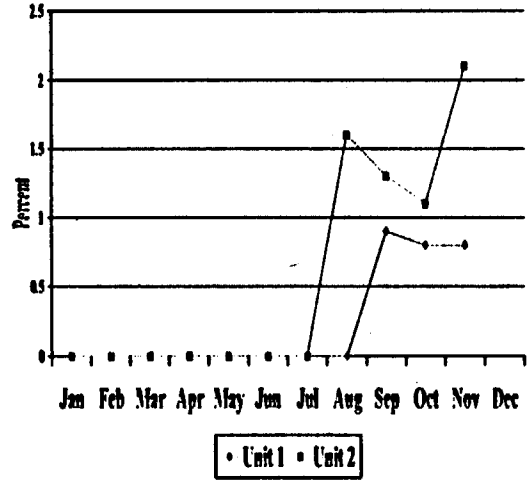
LAS-1



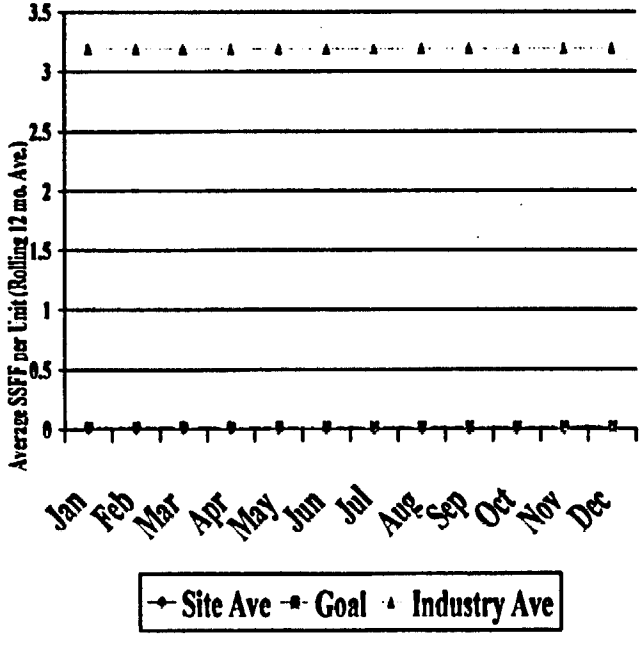
LAS-2



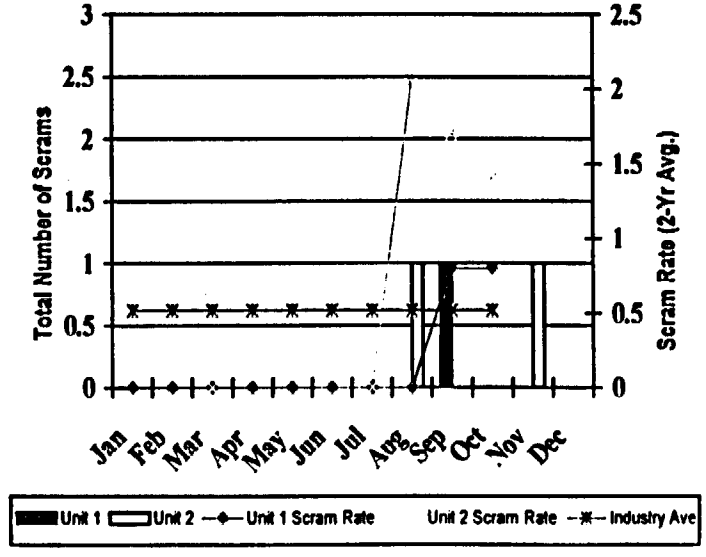
Forced Outage Rate



Safety System Functional Failures



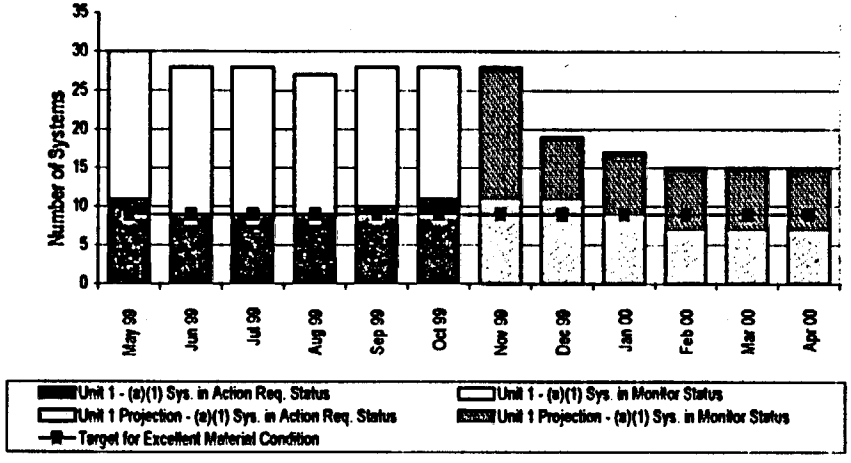
Number of Unplanned Automatic Scrams



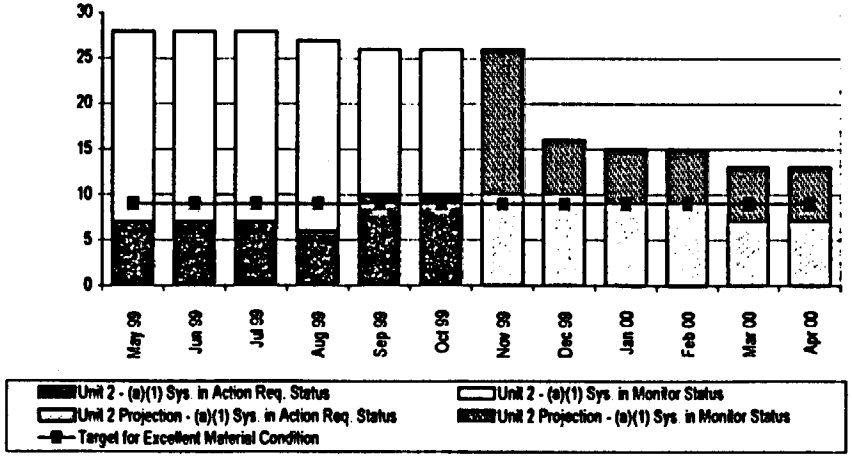
Material Condition - LaSalle Station

Maintenance Rule

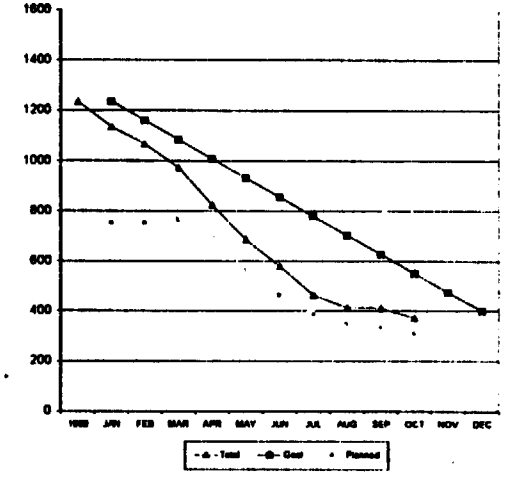
Unit 1



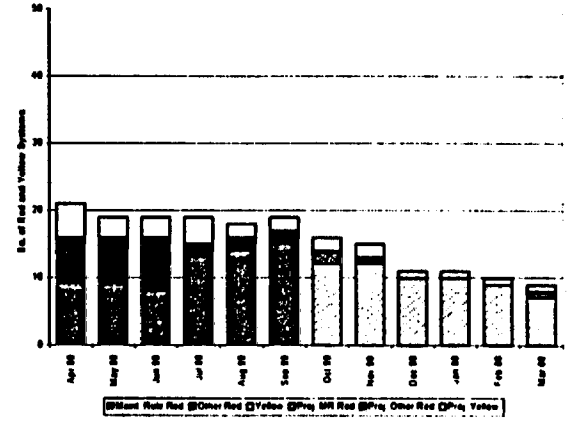
Unit 2



Non-Outage Corrective Maintenance Backlog



System Health Indicator Program (SHIP)



LaSalle Material Condition

POOR **FAIR** GOOD EXCELLENT

Accomplishments

- Reactor Recirculation System Upgrades
- Unit 1 Condenser Cleaning and Tube Plugging
- Unit 1 EHC System Scram Reduction Modifications
- Unit 1 Noble Metals Application

Priorities

- Control System Improvements (Recirculation, Feedwater)
- Correct Reactor Manual Control System Problems
- Containment Air Monitoring System
- Improve Reactor Water Chemistry
- Complete MR Rule (a) (1) Actions

ComEd
A Unicom Company

LaSalle Self Assessment
Focus Areas

- **Human Performance**
- Management Effectiveness
- Conduct of Operations
- Conduct of Maintenance
- Radiation Dose Control

ComEd
A Unicom Company

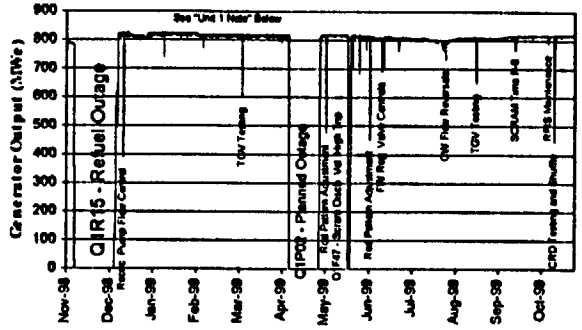
LaSalle Self-Assessment
Human Performance

- Issue
  - Human Performance Errors Led to Nine Station Event Free Clock Resets Since May 1999
- Actions
  - Rollout and Training on Fundamentals and Expectations
  - First Line Supervisor Initiatives
  - Strengthened Briefings
  - Trend Review and Actions for L1R08 Events
  - Ongoing Training and Communications on Human Performance Fundamentals

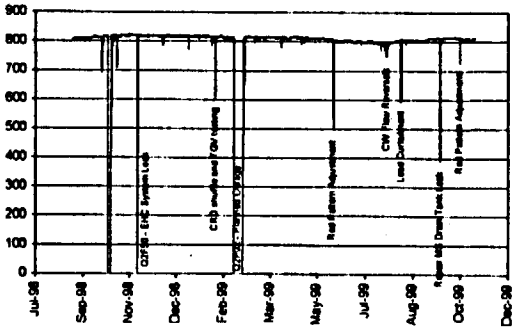
ComEd
A Unicom Company

Quad Cities Plant Status

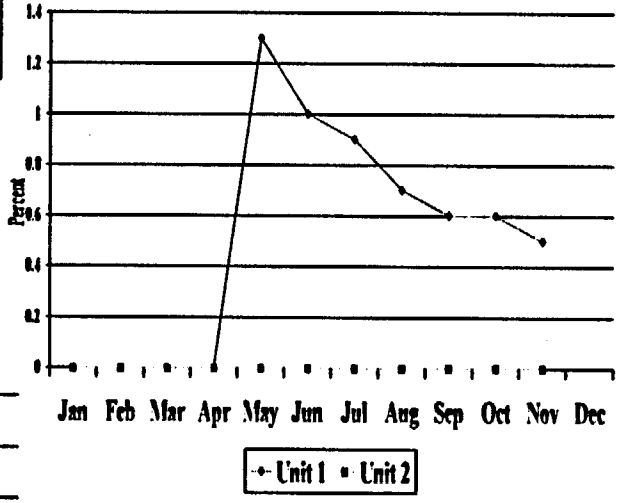
QDC-1



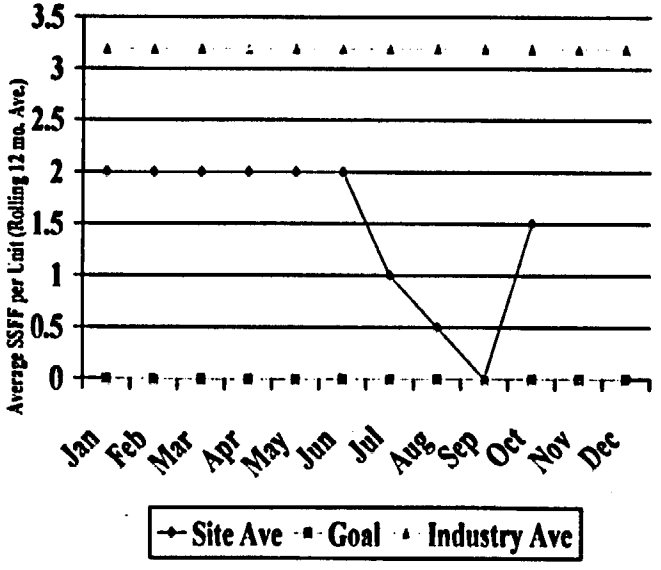
QDC-2



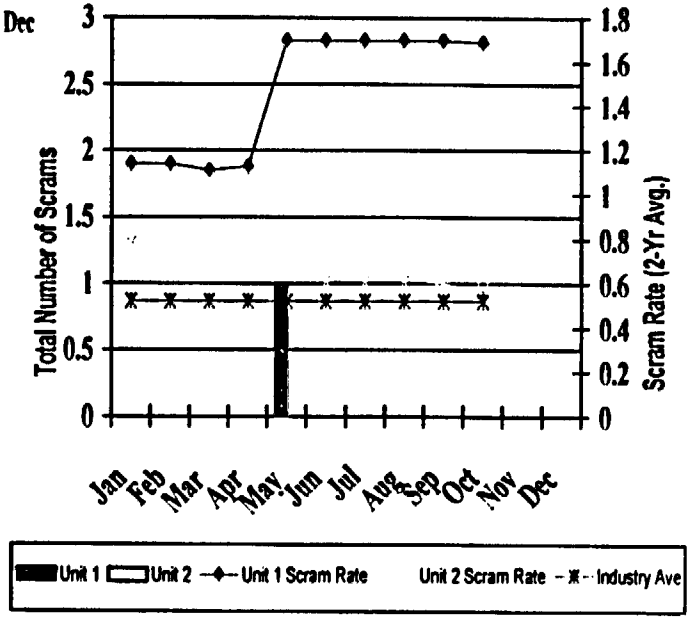
Forced Outage Rate



Safety System Functional Failures

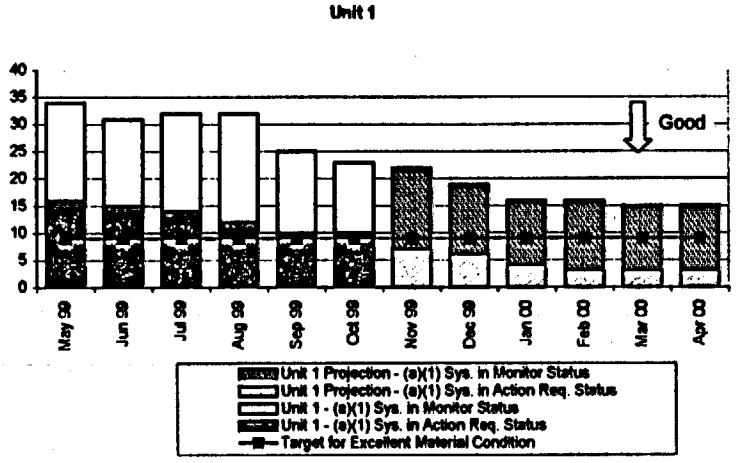


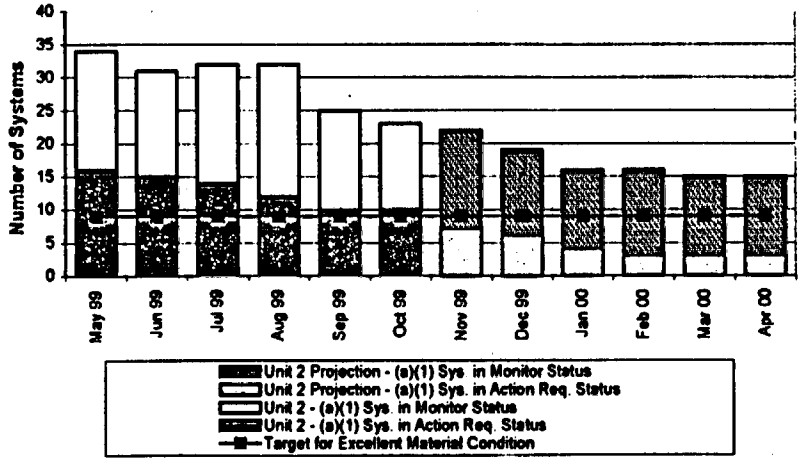
Number of Unplanned Automatic Scrams



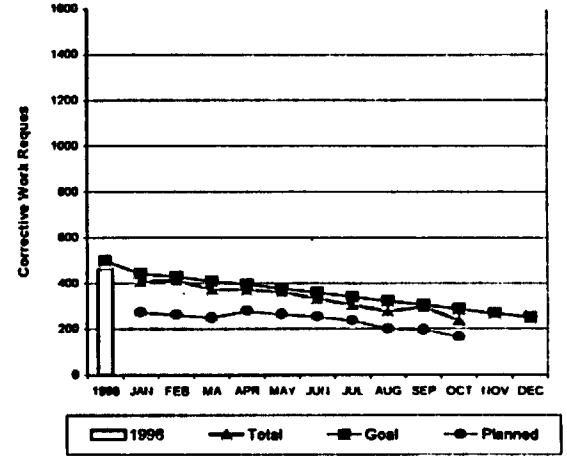
Material Condition - Quad Cities Station

Maintenance Rule

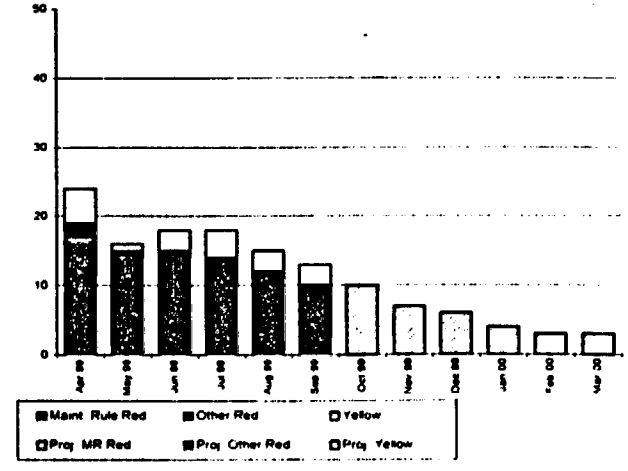




Non-Outage Corrective Maintenance Backlog



System Health Indicator Program (SHIP)



Quad Cities Material Condition

POOR **FAIR** GOOD EXCELLENT

Accomplishments

- Restored 1A Off Gas Train
- Replaced Computer UPS
- Upgraded Recirc Pump Seals
- Overhauled SSMP
- Upgraded RadWaste System
- 18 Scram Reduction Modifications
- Repaired Jet Pump 7/8 Riser Brace
- Noble Metal Injection (U1)
- Improved Understanding of the State of Material Condition

Priorities

- Restore 2A Off Gas Train
- Noble Metal Injection (U2)
- Complete OPRM Modification
- Complete Appendix R Modifications
- Implement Scram/Derate Modifications
- Reduce MR (a)(1) Systems
- Thermal Performance Improvement
- Increased Emphasis on Preservation and Leak Repairs
- Complete Implementation of Material Condition Findings

ComEd
A Unicom Company

Quad Cities Self-Assessment
Focus Areas

- **State of Material Condition**
- Work Management
- Engineering Weaknesses
- Maintenance
- Self Evaluation and Problem Identification/Corrective Action

ComEd
A Unicom Company

Quad Cities Self Assessment
Material Condition

- Issue
  - Uncertainty Regarding the State of Material Condition
- Action
  - Operating Experiencing Information Review
  - Review of Scrams - Derates - Challenges
  - Application of Performance Centered Maintenance (PCM) Templates to Plant Equipment

ComEd
A Unicom Company

Outage Performance

D. R. Helwig

ComEd
A Unicom Company

Outages

- Objective:
  - Improve Material Condition and Plant Operation
  - Work Efficiently
  - Improve our Processes
- Key Elements of Effective Outages
  - Knowledge of Material Condition
  - Contingencies
  - Plan and Execute Work
  - No Events
- A Test of Organization's Health and Capability
  - Puts High Stress on Systems, Processes and People
  - Keep Short, While Doing All Required Work

ComEd
A Unicom Company

Outage Performance

	Personal Safety		Human Performance		Radiation Exposure		Shutdown Safety Risk		Schedule Adherence	
	Lost Time OSHA Recordable		HP LERs				Unplanned Orange Unplanned Yellow			
	Actual	Goal	Actual	Goal	Actual	Goal	Actual	Goal	Outage Length	% Scope Completed
Braidwood (A2R07)	2 2	0 ≤4	0	0	121.6 Rem	<100 Rem	0 0	0 0	26 Days	98.7%
Dresden (D3R15)	0 5	0 ≤4	0	0	172.1 Rem	≤175Rem	0 0	0 ≤2	26 Days	98.1%
Byron (B1R09)	0 4	0 ≤4	1	0	132 Rem	≤110 Rem	0 0	0 0	29 Days	98.9%
Dresden (D2R16)	0 4	0 ≤4	0	0	259 Rem	<200	0 0	0 ≤2	25.5 Days	98%
Byron (B2R08)	0 1	0 ≤4	0	0	89.4 Rem	≤90 Rem	0 0	0 0	24 Days	99.1%
LaSalle	0 3	0 ≤4	1	0	214.9 Rem	≤250 Rem	0 0	0 ≤2	30.3 Days	99.2%

* Monitor for 6 months

1999 Outages
Material Condition Improvements

- **Braidwood A2R07**

- Four Systems Upgraded to (a)(1) Monitoring Due to Completion of Action Plans (PC, CV, AF, RD)
- DRPI/CRDM Cable Replacement
- 2B DG Governor Replacement
- Power Range Change-Out N41-44
- 2B CW Pump and Discharge Valve Replacement Rebuild

ComEd
A Unicom Company

1999 Outages

Material Condition Improvements

- **Byron B2R08**

- 4 systems to Window Color Reduction
  - CV, TO, SX, FW
  - Closed 5 Operability Evaluations - 3 Left >18 Months
- Temporary Modifications Removed - None >18 Months
- Derating Addressed
  - Condenser CW Tube Leaks, ES Bellows, Drain Cooler Inspections, Pressurizer Spray Valve Repairs

ComEd
A Unicom Company

1999 Outages
Material Condition Improvements

- **Dresden D2R16**

- 3 Operator Workarounds Eliminated
- 1 Maintenance Rule (a)(1) System to Monitoring Phase
- Closed 5 Operability Evaluations
- Removed 4 Temporary Modifications
- 2 SHIP Yellow Systems to White
- Thermal Performance Improvements (+15 MWe)

ComEd
A Unicom Company

1999 Outages

Material Condition Improvements

- **LaSalle L1R08**

- Noble Metals Injected to protect Reactor Internals from Stress Cracking
- Inlet Mixers for Jet Pumps 9 & 10 Replaced/Installed 5 Wedges to Address Jet Pump Set Screw Gaps
- Replaced Seals on both Reactor Recirculation Pumps
- Modified Main Turbine and Turbine Driven Reactor Feed Pumps to Support Power Uprate
- Implemented Six EHC Design Changes in Support of SCRAM Frequency Reduction
- Chemically Cleaned Unit 1 Condenser/ 85% Eddy Current Test/1160 Degraded Tubes Plugged (~6% of total tubes now plugged = 1.7 MWe))
- Installed Core Stability Monitoring (OPRM) Modification
- Cleared two operator work-arounds by installing design changes

ComEd
A Unicom Company

1999 Outages

Material Condition Improvements

Quad Cities

- Repair Jet Pump 7/8 Riser Brace
- Initiate Noble Metal Chemistry
- 8 Summer Reliability Correctives and PMs
- Switchyard Corrective Maintenance
- 7 Scram Reduction Modifications
- 14 Summer Reliability Correctives and PMs
- Upgrade Recirculation Pump Seals
- Switchyard Corrective Maintenance

ComEd
A Unicom Company

Overtime Management

R. J. Landy

ComEd
A Unicom Company

Overtime Management

- Actions
  - Published NGG Overtime Management Procedure
    - + Clear Assignment for Approval Responsibility
    - + Ensures Face-to-Face Assessments Prior to Exceeding Guidelines
    - + Process Flow Monitoring and Reportability
  - Implement Generic Letter 82-12
  - Standardize Overtime Management at All Sites
  - Ensure Personnel Effectiveness

ComEd
A Unicom Company

Overtime Management (cont'd.)

- **Monitoring**
  - Tracking Generic Letter 82-12 Deviations on a Weekly Basis
  - Conducted 30 Day Review
  - Conducted 60 and 90 Days Trend Analysis

ComEd
A Unicom Company

Overtime Management (cont'd.)

- Braidwood
  - Outage - N/A
  - Non-Outage - Averaged 1.5 deviations per day over 3 month period.
  - Primary Cause - Uninterrupted 8 hour rest period.
  - Solution - Improved vacation/time off planning and reduced use of 8 hour hold overs.
- Byron
  - Outage - 3.3 deviations per day during outages.
  - Non-Outage - 1.5 deviations per day.
  - Primary Cause - Current 12 hour shifts leads into >24 in 48
- Dresden
  - Outage 1
  - Non-Outage 0
- LaSalle
  - Outage - 2.2 deviation per day
  - Non- Outage - 2.7 deviation per day
  - Primary Cause - Plant recovery and stabilization effort and use of 12 hour shift
  - Solution - Recovery effort largely complete and implementation of 8 hour shifts and vacation/time off planning will improve performance.
- Quad Cities
  - Outage - N/A
  - Non-Outage - 0.3 per day during 3 month
  - Primary Cause - Two work issues that caused short periods of intense work activity.

ComEd
A Unicom Company

Deviations - Exceeding guidelines allowed by NRC Generic Letter 82-12 of >16 hours consecutive, >16 hours in 24 hours, >24 hours in 48 hours, >72 hours in 7 days, <8 hours between work periods.

Overtime Management (cont'd.)

- Corrective Actions/Next Step
  - Procedural Guidelines Review to Strengthen and Re-communicate Administrative Controls
  - Shift Schedule Changes in 2000 to Reduce Potential for Excessive Overtime and Need for Generic Letter 82-12 Deviations
  - Adopt a More Planful and Disciplined Approach to Vacation Scheduling to Reduce Need for Overtime
  - Continue Close NGG and Site Management Attention to Overtime Management

ComEd
A Unicom Company

Configuration Management

H. G. Stanley

ComEd
A Unicom Company

Configuration Management

- Discussed at July CPOP
  - ➢ Focused Actions Were Targeted at Operations
- Multi-Site NRC Inspection
  - ➢ Site and Corporate Team Reviews of Report Identified:
    - + Past Configuration Control Plans Not Totally Effective
    - + First Line Supervisors and Station Personnel Not Completely Aware of Configuration Control Issues
    - + First Line Supervisor Knowledge and In-Field Presence Insufficient to Improve Standards

ComEd
A Unicom Company

Configuration Management (cont'd.)

- **Corrective Actions**
  - Expanding Use of Human Performance Tools to Other Work Groups
  - Procedure to be Expanded for use by Other Work Groups
  - Clarification of Authorization to Operate Plant Equipment Developed and Communicated to Station Managers
  - Issue of FLS Time in Field is in Progress in Maintenance and Operations
  - Nuclear Oversight Assessment of Configuration Control Plan Effectiveness in Progress

ComEd
A Unicom Company

Closing Remarks

O. D. Kingsley, Jr.

ComEd
A Unicom Company

Conclusions

- Learning and Preparing for NRC Oversight Process
- Working to Strengthen Self-Assessment as Complement to Oversight Process
- Station Performance and Material Condition Improving
- More Work to be Done - Not Declaring Victory

ComEd
A Unicom Company

ComEd
Nuclear Generation Group

Regulatory Assessment Performance Indicators

November 1999

Rev. 0

REGULATORY ASSESSMENT PERFORMANCE INDICATORS
OVERVIEW

October 1999

		No.	INDICATOR TITLE	BRAIDWOOD		BYRON		DRESDEN		LASALLE		QUAD CITIES	
				UNIT 1	UNIT 2	UNIT 1	UNIT 2	UNIT 2	UNIT 3	UNIT 1	UNIT 2	UNIT 1	UNIT 2
REGULATORY ASSESSMENT STRATEGIC PERFORMANCE AREAS	REACTOR SAFETY		**Initiating Events Cornerstone**										
		S.4.1	Unplanned Automatic and Manual Scrams per 7,000 Critical Hours										
		S.4.1	Scrams with a Loss of Normal Heat Removal										
		S.21	Unplanned Power Changes per 7,000 Critical Hours										
			Mitigating Systems Cornerstone										
		S.6.2	Safety System Unavailability	HPSI		HPSI		HPCI		HPCS		HPCI	
				AFW		AFW		ISO COND		RCIC		RCIC	
				RHR		RHR		RHR		RHR		RHR	
				EDG		EDG		EDG		EDG		EDG	
		S.12.1	Safety System Functional Failures										
			Emergency Preparedness Cornerstone										
		S.18	Drill, Exercise and Event Performance										
		S.19	Emergency Response Organization Drill Participation										
		S.20	Alert and Notification System Reliability										
			Barrier Integrity Cornerstone										
		S.24	Reactor Coolant System (RCS) Specific Activity										
		S.25	Reactor Coolant System Leakage										
		S.26	Containment Leakage										
	RADIATION SAFETY		**Occupational Radiation Safety Cornerstone**										
		S.27	Occupational Exposure Control Effectiveness										
			Public Radiation Safety Cornerstone										
		S.28	RETS/ODCM Radiological Effluent Occurrence[1]										
	SAFEGUARDS		**Physical Protection Cornerstone**										
		S.29	Protected Area (PA) Security Equipment Performance Index										
		W.15	Personnel Screening Program Performance										
		W.16	Fitness-for-Duty (FFD)/Personnel Reliability Program Performance										

NGG Measurement

Tier 2	Business Plan
	Safety
	Production
	Cost
	Workforce
	INPO
x	NRC

Performance Standard:

All Green Windows

Performance Threshold Band (PTB):

Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

NQ - Data Not Qualified

Contacts:

NGG Responsible Manager:
Rod Krich (347) 7330

Contact Person:
Randy Mika (347) 7280

Comments:

[1]RETS/ODCM - Radiological Effluent Technical Specifications/Offsite Dose Calculation Manual.

Oct 99:

S.6.2

LaSalle: Previous system historical failures are keeping this indicator near the threshold. Corrective actions for the historical failures have been completed.

Quad Cities: A historical data correction was made to include Unit 2 RCIC Fault Exposure Hours for a system failure that occurred on August 25, 1999.

S.29

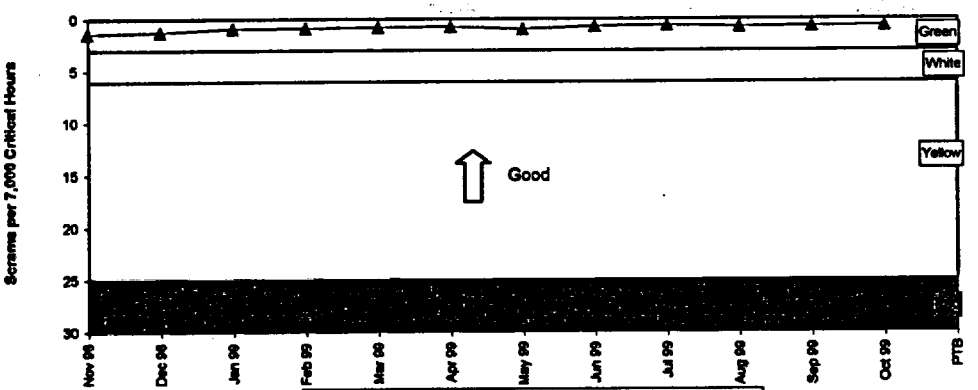
Byron: Historical data is maintaining this indicator in the "white" band.

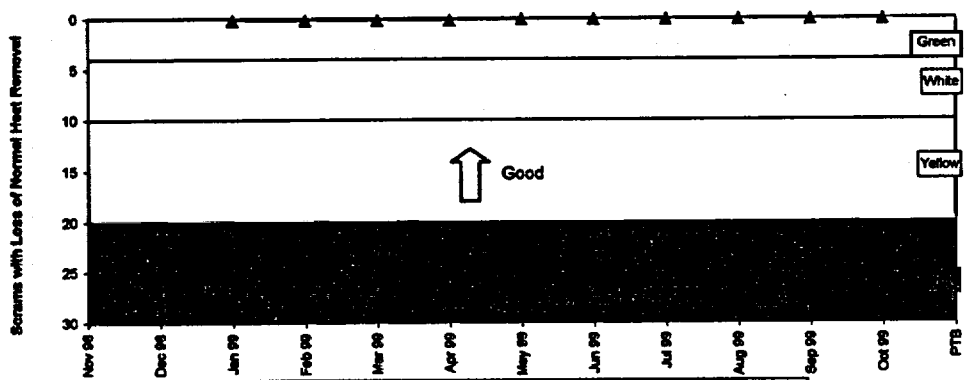
Dresden: The plan for addressing zone maintenance was put on hold during D2R16. However, maintenance did support Security for zones that failed during D2R16. The action plan for zone maintenance has been revised and the scheduled completion date is 12/10/99. Historical data is maintaining this indicator in the "yellow" band. Corrective actions are in progress.

LaSalle: Improvement in this area was noted during the month of October. Hardware replacement, trouble shooting and equipment adjustments have stabilized the Intrusion Detection System and camera systems, resulting in a reduction for required compensatory measures by approximately fifty percent. Historical data is maintaining this indicator in the "yellow" band.

ComEd Nuclear Generation Group

S.4.1: Unplanned Scrams per 7,000 Critical Hours and Scrams with a Loss of Normal Heat Removal





NGG Measurement

	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:

Green Band

Performance Threshold Band (PTB):
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Unplanned Scrams per 7000 Critical Hours Thresholds are:
Green ≤ 3
White > 3 and ≤ 6
Yellow > 6 and ≤ 25
Red > 25

Scrams with a Loss of Normal Heat Removal Thresholds are:
Green ≤ 4
White > 4 and ≤ 10
Yellow > 10 and ≤ 20
Red > 20

Contacts:

NGG Responsible Manager:
Robert Deppi (347) 7954

Contact Person:
Dennis Leggett (347) 6114

	4Q/98		1Q/99			2Q/99			3Q/99			
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
NGG Average	1.4	1.2	0.9	0.9	0.8	0.7	1.0	0.7	0.6	0.7	0.7	0.7
Unplanned Scrams per 7,000 Critical Hours over the last 12 months (4 quarters)												
BWD-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BWD-2	0.8	0.8	0.0	0.0	0.0	1.6	2.6	2.6	2.6	2.6	2.6	2.6
BYR-1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
BYR-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DRE-2	3.7	2.8	1.8	1.8	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
DRE-3	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LAS-1	2.5	2.1	1.7	1.5	1.3	1.1	1.0	0.9	0.8	0.0	0.8	0.8
LAS-2	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	0.0	2.0	1.7	1.4
QDC-1	3.3	3.2	2.7	2.4	2.1	2.1	2.8	1.9	1.9	1.9	0.9	0.9
QDC-2	1.6	1.3	1.2	1.1	1.0	0.9	0.8	0.0	0.0	0.0	0.0	0.0

	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99
NGG Average	*	*	0	0	0	0	0	0	0	0	0	0
Scrams with Loss of Heat Removal over the last 36 months (12 quarters)												
BWD-1	*	*	0	0	0	0	0	0	0	0	0	0
BWD-2	*	*	0	0	0	0	0	0	0	0	0	0
BYR-1	*	*	0	0	0	0	0	0	0	0	0	0
BYR-2	*	*	0	0	0	0	0	0	0	0	0	0
DRE-2	*	*	0	0	0	0	0	0	0	0	0	0
DRE-3	*	*	2	2	2	2	1	1	1	1	1	1
LAS-1	*	*	0	0	0	0	0	0	0	0	0	0
LAS-2	*	*	0	0	0	0	0	0	0	0	0	0
QDC-1	*	*	0	0	0	0	0	0	0	0	0	0
QDC-2	*	*	0	0	0	0	0	0	0	0	0	0

Comments:
* Historical data is not requested as part of initial historical data request.
NQ = Data not qualified.

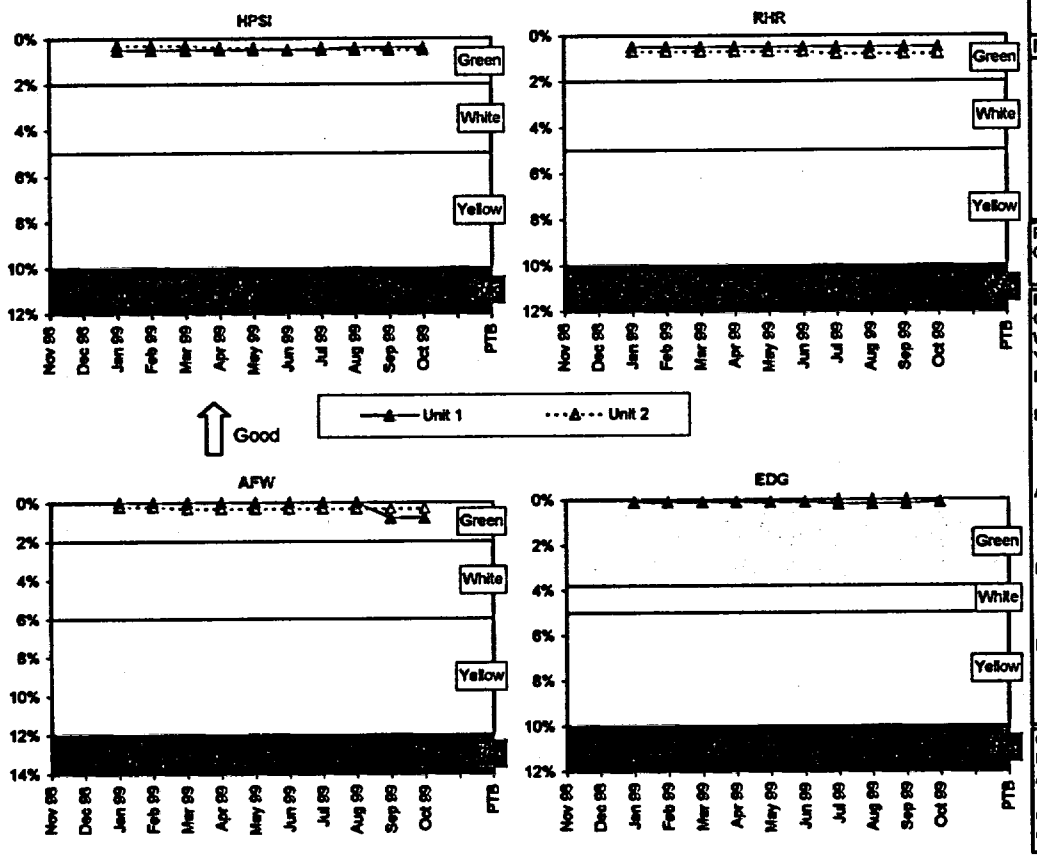
Definition:
Unplanned Scrams per 7000 Critical Hours: The number of unplanned scrams during the previous 12 months (4 quarters), both manual and automatic while critical per 7,000 hours.
Scrams with a Loss of Normal Heat Removal: The number of scrams while critical, both manual and automatic, during the previous 36 months (12 quarters) that also involved a loss of the normal heat removal path through the main condenser.

Graphs displays rolling average per unit NGG performance and associated thresholds. Table displays rolling unit performance.

Rev. 0

ComEd Nuclear Generation Group
S.6.2: Safety System Unavailability

Oct-99



Braidwood

NGG Measurement

	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:
Green Band

Performance Threshold Band:
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

HPSI: Green ≤ 2%
White > 2% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

AFW: Green ≤ 2%
White > 2% and ≤ 6%
Yellow > 6% and ≤ 12%
Red > 12%

RHR: Green ≤ 2%
White > 2% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

EDG: Green ≤ 3.8%
White > 3.8% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

Contacts:
NGG Responsible Manager:
Alex Javorik (343) 7647

Contact Person:
Gary Loeb (347) 7262

	4Q/98		1Q/99			2Q/99			3Q/99			
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
Unit 1 - 36-Month (12 Quarter) Average												
HPSI	*	*	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.4%	0.4%	0.4%
AFW	*	*	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	0.8%
RHR	*	*	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
EDG	*	*	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.1%
Unit 2 - 36-Month (12 Quarter) Average												
HPSI	*	*	0.3%	0.3%	0.3%	0.4%	0.4%	0.5%	0.4%	0.5%	0.5%	0.5%
AFW	*	*	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%
RHR	*	*	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.8%	0.8%	0.8%	0.8%
EDG	*	*	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%

Comments:
* Historical data is not required by the Regulatory Assessment Performance Indicator process described in NEI 99-02.

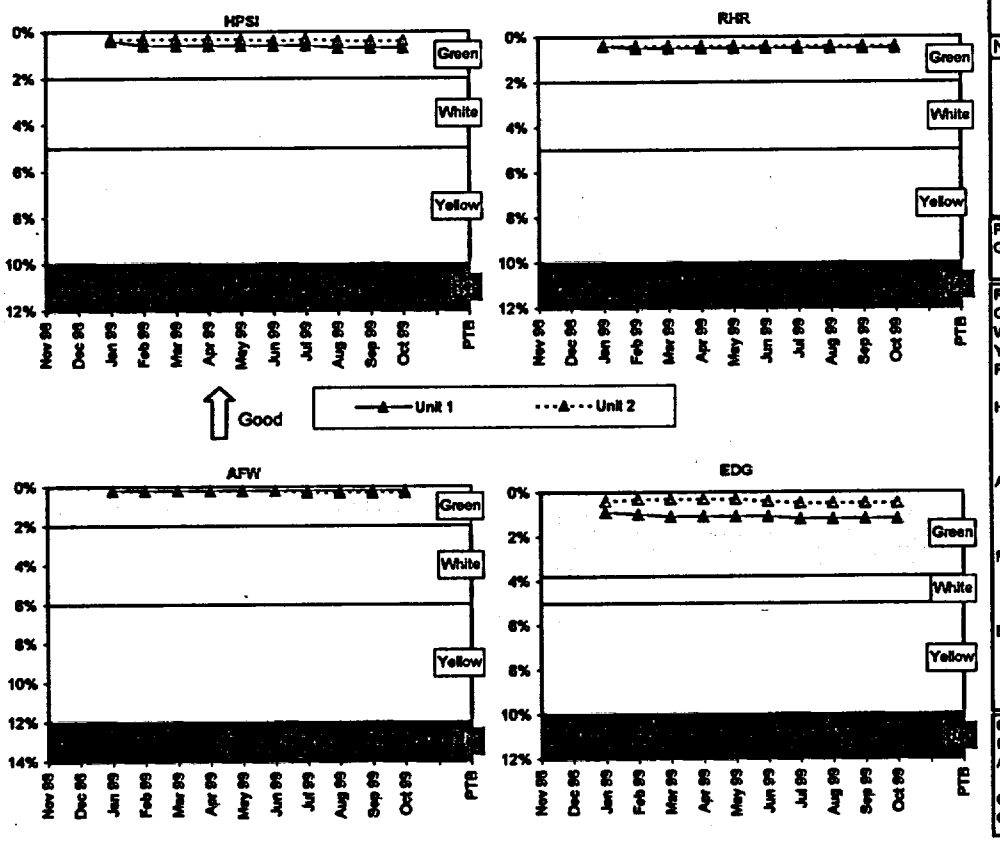
Definition: The 36-month (12 quarter) average of the individual train unavailabilities in the system. Train unavailability is the ratio of the hours the train is unavailable to the number of hours the train is required to be able to perform its intended safety function.

The graph displays the most recent 12 months of the 36-month average system unavailabilities for each unit and associated thresholds. The table displays the most recent 12 months of the 36-month average system unavailabilities for each unit.

Rev. 0

ComEd Nuclear Generation Group
S.6.2: Safety System Unavailability

Oct-99



Byron

NGG Measurement

	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:
Green Band

Performance Threshold Band:
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

HPSI: Green ≤ 2%
White > 2% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

AFW: Green ≤ 2%
White > 2% and ≤ 6%
Yellow > 6% and ≤ 12%
Red > 12%

RHR: Green ≤ 2%
White > 2% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

EDG: Green ≤ 3.6%
White > 3.6% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

Contacts:
NGG Responsible Manager:
Alex Javorik (343) 7647

Contact Person:
Gary Loeb (347) 7262

	4Q/98		1Q/99			2Q/99			3Q/99			
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
Unit 1 - 36-Month (12 Quarter) Average												
HPSI	*	*	0.4%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.7%	0.7%	0.7%
AFW	*	*	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
RHR	*	*	0.4%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
EDG	*	*	0.9%	1.0%	1.1%	1.1%	1.1%	1.1%	1.2%	1.2%	1.2%	1.2%
Unit 2 - 36-Month (12 Quarter) Average												
HPSI	*	*	0.3%	0.3%	0.3%	0.3%	0.3%	0.4%	0.3%	0.4%	0.4%	0.4%
AFW	*	*	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%
RHR	*	*	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
EDG	*	*	0.4%	0.3%	0.3%	0.3%	0.3%	0.4%	0.5%	0.5%	0.5%	0.5%

Comments:
* Historical data is not required by the Regulatory Assessment Performance Indicator process described in NEI 99-02.

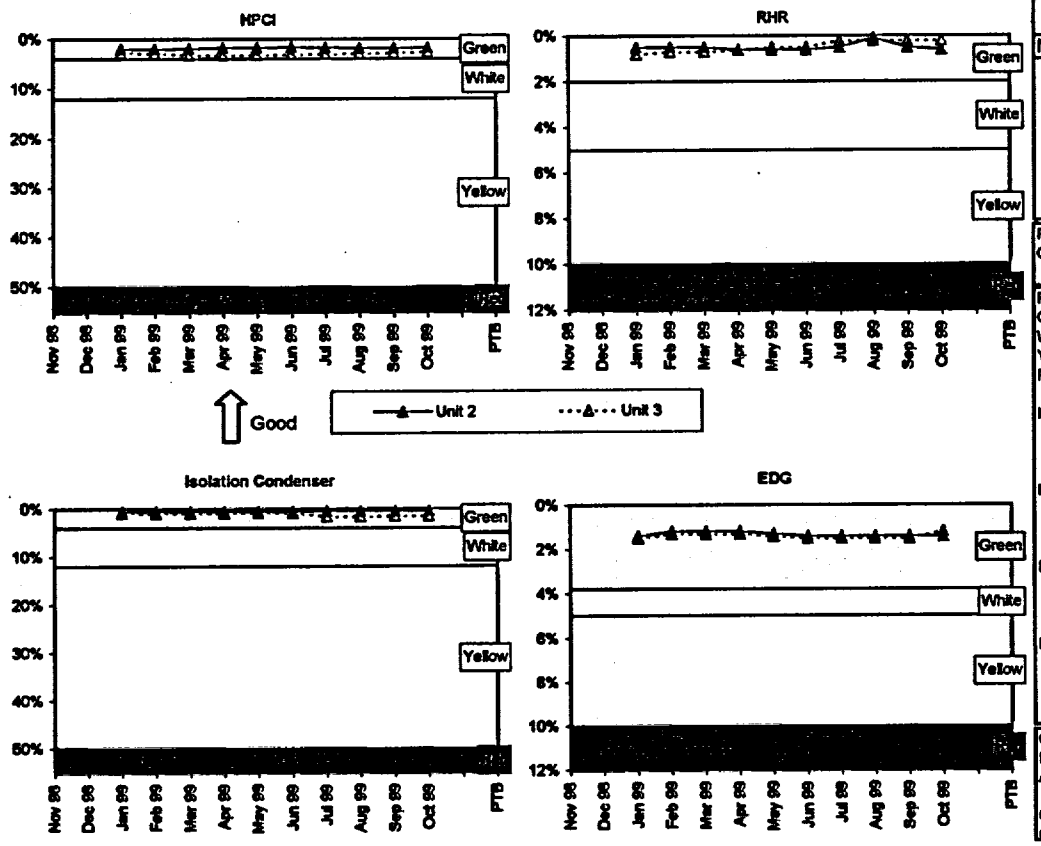
Definition: The 36-month (12 quarter) average of the individual train unavailabilities in the system. Train unavailability is the ratio of the hours the train is unavailable to the number of hours the train is required to be able to perform its intended safety function.

The graph displays the most recent 12 months of the 36-month average system unavailabilities for each unit and associated thresholds. The table displays the most recent 12 months of the 36-month average system unavailabilities for each unit.

Rev. 0

ComEd Nuclear Generation Group
S.6.2: Safety System Unavailability

Oct-99



Dresden

NGG Measurement

	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:
Green Band

Performance Threshold Band:
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

HPCI: Green ≤ 4%
White > 4% and ≤ 12%
Yellow > 12% and ≤ 50%
Red > 50%

Iso. Cond.: Green ≤ 4%
White > 4% and ≤ 12%
Yellow > 12% and ≤ 50%
Red > 50%

RHR: Green ≤ 2%
White > 2% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

EDG: Green ≤ 3.8%
White > 3.8% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

Contacts:
NGG Responsible Manager:
Alex Javorik (343) 7647

Contact Person:
Gary Loeb (347) 7262

	4Q/98		1Q/99			2Q/99			3Q/99			
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
Unit 2 - 36-Month (12 Quarter) Average												
HPCI	*	*	2.0%	2.0%	1.9%	1.7%	1.7%	1.6%	1.7%	1.8%	1.8%	1.7%
Isolation Condenser	*	*	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.5%	0.5%	0.5%	0.5%
RHR	*	*	0.5%	0.5%	0.5%	0.6%	0.6%	0.6%	0.5%	0.1%	0.5%	0.6%
EDG	*	*	1.4%	1.2%	1.2%	1.2%	1.3%	1.4%	1.4%	1.4%	1.4%	1.4%
Unit 3 - 36-Month (12 Quarter) Average												
HPCI	*	*	2.7%	2.8%	3.2%	3.2%	3.2%	3.1%	3.0%	2.9%	2.8%	2.6%
Isolation Condenser	*	*	0.8%	0.9%	0.9%	0.9%	0.8%	0.8%	1.6%	1.6%	1.5%	1.5%
RHR	*	*	0.8%	0.7%	0.7%	0.6%	0.5%	0.5%	0.2%	0.2%	0.2%	0.2%
EDG	*	*	1.5%	1.3%	1.3%	1.3%	1.4%	1.5%	1.5%	1.5%	1.5%	1.2%

Comments:
* Historical data is not required by the Regulatory Assessment Performance Indicator process described in NEI 99-02.

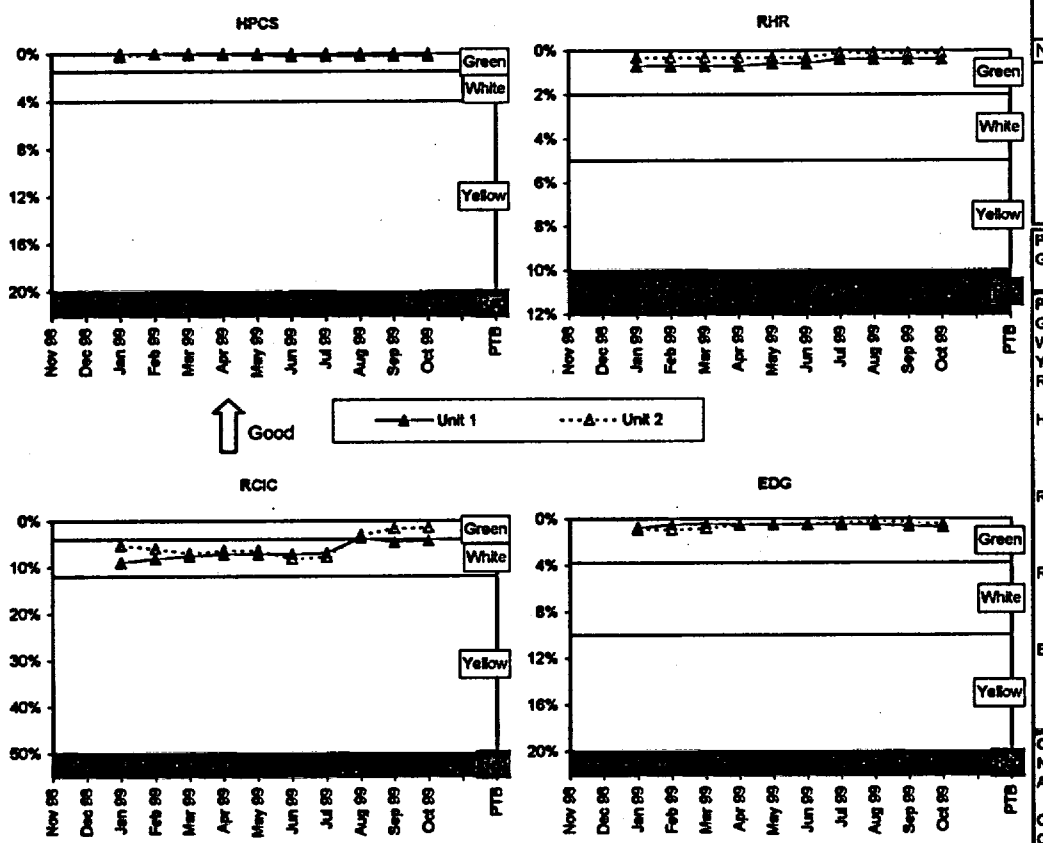
Definition: The 36-month (12 quarter) average of the individual train unavailabilities in the system. Train unavailability is the ratio of the hours the train is unavailable to the number of hours the train is required to be able to perform its intended safety function.

The graph displays the most recent 12 months of the 36-month average system unavailabilities for each unit and associated thresholds. The table displays the most recent 12 months of the 36-month average system unavailabilities for each unit.

Rev. 0

ComEd Nuclear Generation Group
S.6.2: Safety System Unavailability

Oct-99



LaSalle

NGG Measurement

	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:
Green Band

Performance Threshold Band:
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

HPCS: Green ≤ 1.5%
White > 1.5% and ≤ 4%
Yellow > 4% and ≤ 20%
Red > 20%

RCIC: Green ≤ 4%
White > 4% and ≤ 12%
Yellow > 12% and ≤ 50%
Red > 50%

RHR: Green ≤ 2%
White > 2% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

EDG: Green ≤ 3.8%
White > 3.8% and ≤ 10%
Yellow > 10% and ≤ 20%
Red > 20%

Contacts:
NGG Responsible Manager:
Alex Javorik (343) 7647

Contact Person:
Gary Loeb (347) 7262

	4Q/98		1Q/99			2Q/99			3Q/99			
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
Unit 1 - 36-Month (12 Quarter) Average												
HPCS	*	*	0.0%	0.0%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%
RCIC	*	*	9.0%	8.2%	7.6%	7.2%	7.2%	7.2%	7.0%	3.7%	4.6%	4.3%
RHR	*	*	0.7%	0.7%	0.7%	0.7%	0.6%	0.6%	0.4%	0.4%	0.4%	0.4%
EDG	*	*	0.8%	0.5%	0.4%	0.5%	0.5%	0.5%	0.5%	0.5%	0.6%	0.7%
Unit 2 - 36-Month (12 Quarter) Average												
HPCS	*	*	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
RCIC	*	*	5.3%	6.0%	7.0%	6.4%	6.4%	8.2%	7.7%	3.1%	1.6%	1.4%
RHR	*	*	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.1%	0.1%	0.1%	0.1%
EDG	*	*	0.9%	0.9%	0.8%	0.5%	0.4%	0.4%	0.3%	0.2%	0.3%	0.4%

Comments:
* Historical data is not required by the Regulatory Assessment Performance Indicator process described in NEI 99-02.

Oct 99: Unit 1 RCIC re-entered the white band (>4%) in September due to 93 hours of planned maintenance performed on-line to reduce L1R08 outage scope.

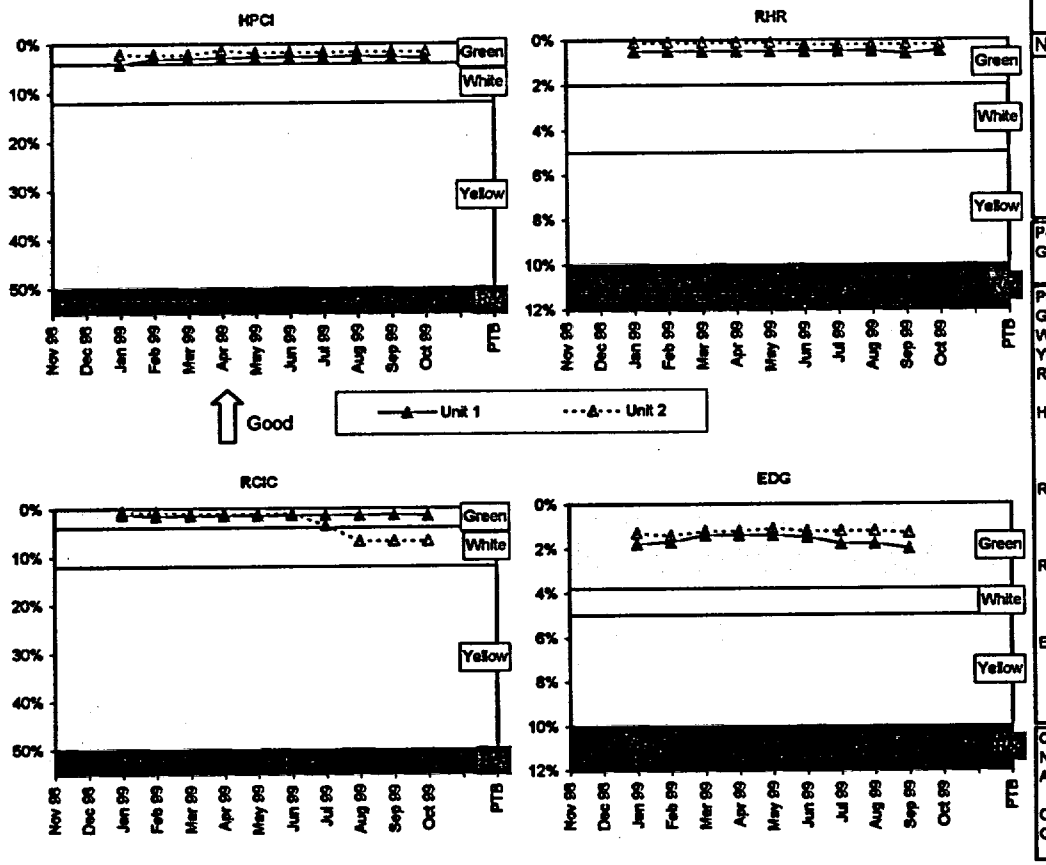
Definition: The 36-month (12 quarter) average of the individual train unavailabilities in the system. Train unavailability is the ratio of the hours the train is unavailable to the number of hours the train is required to be able to perform its intended safety function.

The graph displays the most recent 12 months of the 36-month average system unavailabilities for each unit and associated thresholds. The table displays the most recent 12 months of the 36-month average system unavailabilities for each unit.

Rev. 0

ComEd Nuclear Generation Group
S.6.2: Safety System Unavailability

Oct-99



Quad Cities

NGG Measurement

Tier 2	Business Plan
	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:
Green Band

Performance Threshold Band:
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

HPCI: Green ≤ 4%
White > 4% and ≤ 12%
Yellow > 12% and ≤ 50%
Red > 50%

RCIC: Green ≤ 4%
White > 4% and ≤ 12%
Yellow > 12% and ≤ 50%
Red > 50%

RHR: Green ≤ 2%
White > 2% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

EDG: Green ≤ 3.8%
White > 3.8% and ≤ 5%
Yellow > 5% and ≤ 10%
Red > 10%

Contacts:
NGG Responsible Manager:
Alex Javorik (343) 7647

Contact Person:
Gary Loeb (347) 7262

	4Q/98		1Q/99			2Q/99			3Q/99			
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
Unit 1 - 36-Month (12 Quarter) Average												
HPCI	*	*	4.1%	3.1%	3.0%	2.9%	2.8%	2.7%	2.7%	2.6%	2.7%	3.0%
RCIC	*	*	1.2%	1.6%	1.5%	1.5%	1.5%	1.4%	1.4%	1.4%	1.3%	1.5%
RHR	*	*	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.6%	0.5%
EDG	*	*	1.8%	1.7%	1.4%	1.4%	1.4%	1.5%	1.8%	1.8%	2.0%	(*)
Unit 2 - 36-Month (12 Quarter) Average												
HPCI	*	*	2.1%	2.2%	2.2%	1.3%	1.8%	1.7%	1.7%	1.6%	1.6%	1.6%
RCIC	*	*	0.6%	0.7%	1.0%	1.0%	1.0%	1.0%	3.5%	6.8%	6.8%	6.8%
RHR	*	*	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%
EDG	*	*	1.3%	1.4%	1.2%	1.2%	1.1%	1.2%	1.2%	1.2%	1.3%	(*)

Comments:
* Historical data is not required by the Regulatory Assessment Performance Indicator process described in NEI 99-02.

Oct 99: A historical data correction was made to include Unit 2 RCIC Fault Exposure Hours for a system failure that occurred on August 25, 1999.
(*) October 1999 EDG system values are in process of being re-validated and re-calculated, the revised values were not available.

Definition: The 36-month (12 quarter) average of the individual train unavailabilities in the system. Train unavailability is the ratio of the hours the train is unavailable to the number of hours the train is required to be able to perform its intended safety function.

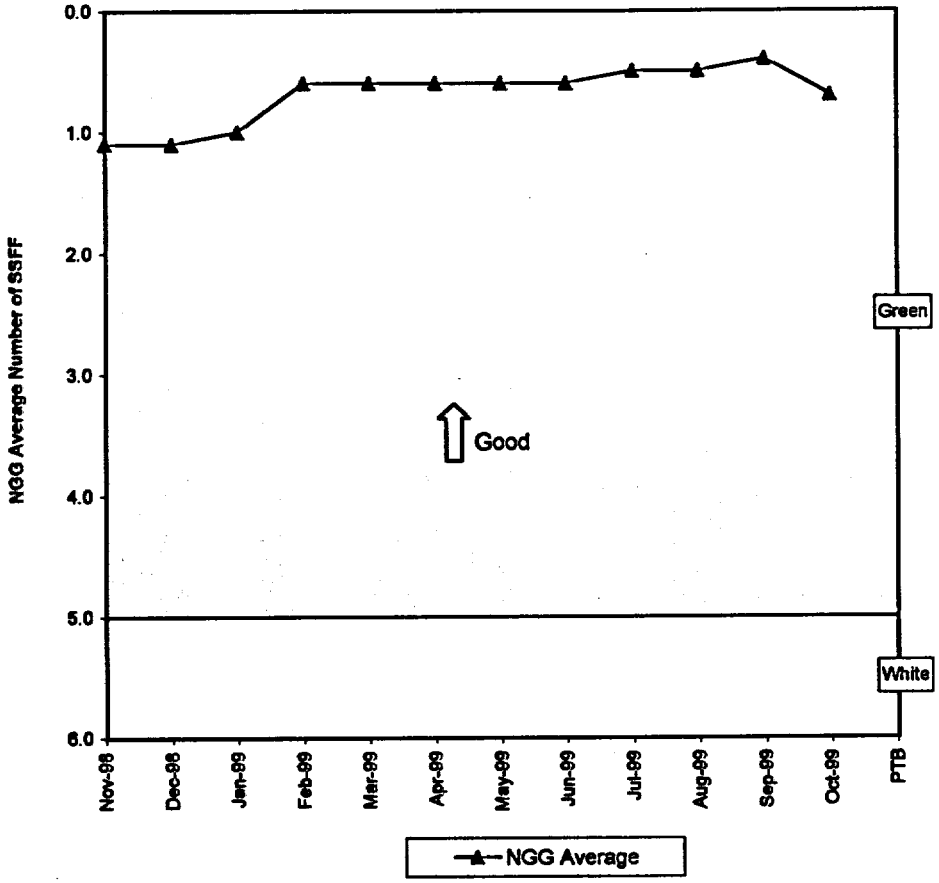
The graph displays the most recent 12 months of the 36-month average system unavailabilities for each unit and associated thresholds. The table displays the most recent 12 months of the 36-month average system unavailabilities for each unit.

Rev. 0

ComEd Nuclear Generation Group

Oct-99

S.12.1: Safety System Functional Failures



NGG Measurement	
	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
x	NRC

Performance Standard:
Green Band

Performance Threshold Band (PTB):
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green: ≤ 5
White: > 5
Yellow: - no performance threshold established
Red: - no performance threshold established

Contacts:
NGG Responsible Manager:
Alex Javorik (347) 7647

Contact Person:
Gary Loeb (347) 7262

	4Q/98			1Q/99			2Q/99			3Q/99		
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
NGG Avg	1.1	1.1	1.0	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.7
Unit 12-Month Totals												
BWD-1	0	1	1	1	1	1	1	1	1	1	1	1
BWD-2	0	1	1	1	1	1	1	1	1	1	1	1
BYR-1	0	0	0	0	0	0	0	0	0	0	0	0
BYR-2	0	0	0	0	0	0	0	0	0	0	0	0
DRE-2	0	0	0	0	0	0	0	0	0	0	0	0
DRE-3	0	0	0	0	0	0	0	0	1	1	1	1
LAS-1	1	0	0	0	0	0	0	0	0	0	0	0
LAS-2	1	0	0	0	0	0	0	0	0	0	0	0
QDC-1	6	6	5	3	3	3	3	3	2	2	1	3
QDC-2	3	3	3	1	1	1	1	1	0	0	0	1

Comments:
Oct 99:
Braidwood: LER 456-98007 was submitted on December 16, 1998 when the discovery of a non-conservative error in the vendor's analysis code which resulted in the Boron Dilution Prevention System being determined to be inoperable. A review of this LER conducted during the week of November 1,1999 determined that it should have been classified as a SSFF affecting Unit 1 and Unit 2. PIF# A1999-03401.
Quad Cities: LER 254/99003, Unit 1 HPCI inoperable due to manual closure of the redundant steam supply containment isolation valve upon failure of the other containment isolation valve (1-2301-5) to close when operated from the control room switch. This was a SSFF for Unit 1 only.
LER 254/99004, Control Room Emergency Ventilation System (CREVS) Air Filtration Unit inoperable due to an airflow rate in excess of allowable Tech Specs. The LER stated that CREVS was capable of performing its safety function, however, subsequent questions concerning the event with regard to the CREVS design basis have necessitated further analysis. This event is classified as a SSFF for both units until completion of additional analysis.

Definition: The number of events or conditions that have been reported in LERs that prevented, or could have prevented, the fulfillment of safety functions.

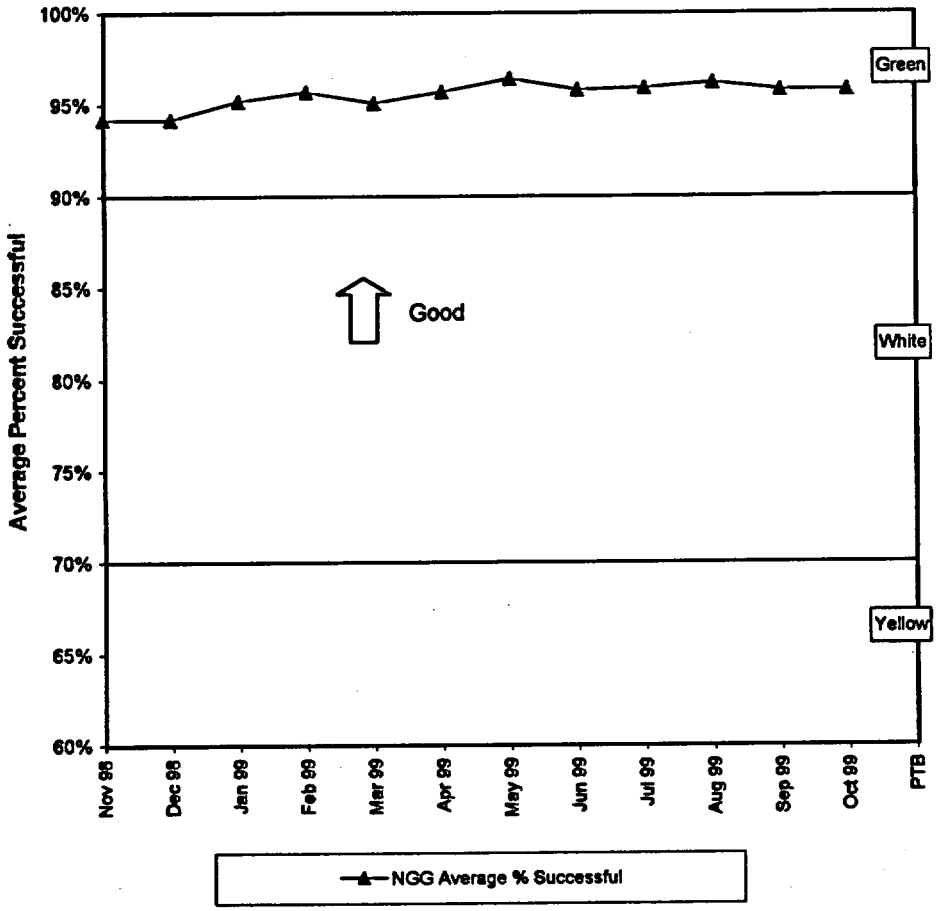
The graph displays the 12 most recent months of the NGG average of unit performance and associated thresholds. The table displays the 12 most recent months of unit performance and the NGG average.

Rev. 0

ComEd Nuclear Generation Group

Oct-99

S.18: Drill, Exercise and Actual Event Performance



NGG Measurement

	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:

Green Band

Performance Threshold Band (PTB):

Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green ≥ 90%
White < 90 % and ≥ 70 %
Yellow < 70%
Red No Performance Threshold

Contacts:

NGG Responsible Manager:
Marty Vonk (347) 6535

Contact Person:
David Stobaugh (347) 6480

	4Q/98			1Q/99			2Q/99			3Q/99		
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
NGG Average % Successful	94.2%	94.2%	95.2%	95.7%	95.1%	95.7%	96.4%	95.8%	95.9%	96.2%	95.8%	95.8%
Percent successful during the previous 24 months (8 quarters)												
BRW	90.9%	90.9%	92.3%	94.1%	94.1%	94.5%	95.7%	95.7%	95.7%	96.0%	97.6%	97.2%
BYR	94.4%	94.4%	94.4%	94.4%	96.3%	100.0%	100.0%	100.0%	100.0%	100.0%	97.4%	97.5%
DRE	100.0%	100.0%	100.0%	100.0%	93.3%	92.0%	94.4%	94.4%	94.4%	93.3%	91.2%	91.2%
LAS	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	95.7%	95.5%	96.9%	97.1%	97.1%
QDC	85.7%	85.7%	89.2%	89.8%	91.9%	91.9%	91.7%	93.3%	94.1%	94.9%	95.8%	96.2%

Comments:

Definition: The percentage of all drill, exercise and actual event opportunities that were performed accurately and on time during the previous 24 months (8 quarters).

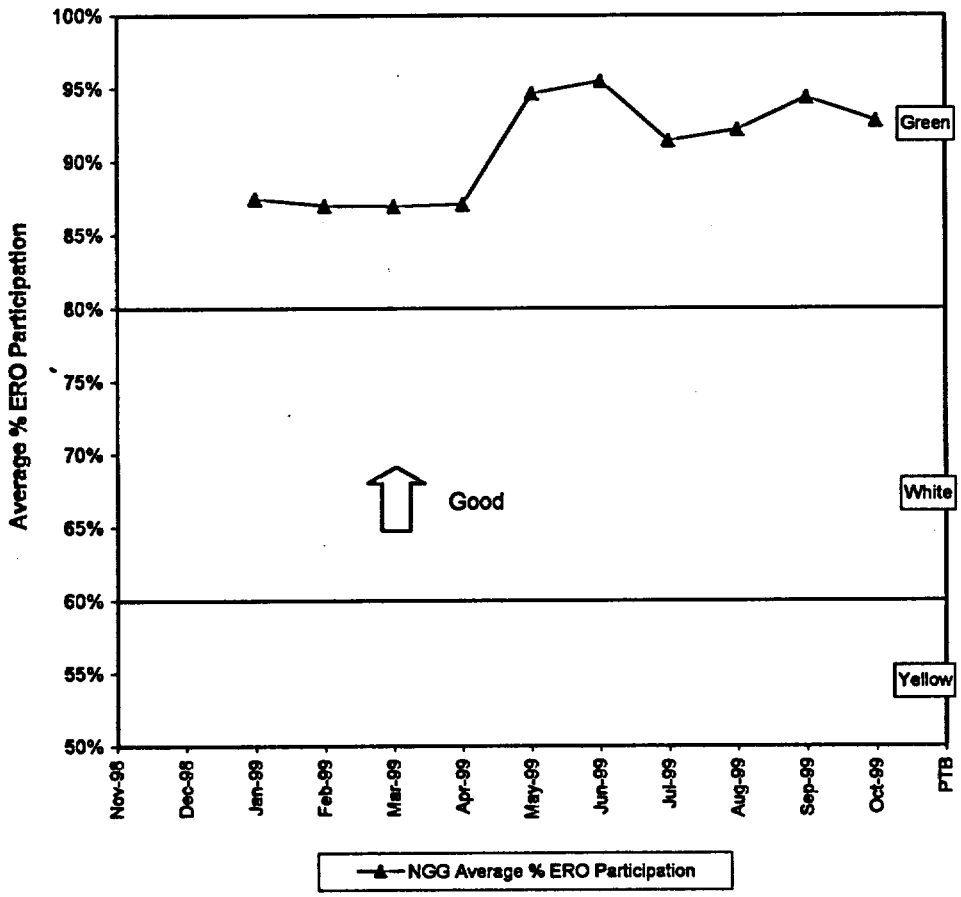
Graph displays the most recent 12 months average percent of drill, exercise and actual event opportunities that were performed in an accurate manner and on time across NGG. Table displays each sites drill, exercise and actual event opportunities that were performed in a timely and accurate manner expressed as a percent.

Rev. 0

ComEd Nuclear Generation Group

Oct-99

S.19: Emergency Response Organization Drill Participation



NGG Measurement

	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:

Green Band

Performance Threshold Band (PTB):

Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green ≥ 80%
White < 80 % and ≥ 60 %
Yellow < 60 %
Red No Performance Threshold

Contacts:

NGG Responsible Manager:
Marty Vonk (347) 6535

Contact Person:
David Stobaugh (347) 6480

	4Q/98		1Q/99			2Q/99			3Q/99			
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
NGG Average % ERO Participation	*	*	87.4%	87.0%	87.0%	87.1%	94.6%	95.5%	91.4%	92.2%	94.4%	92.8%
Percent ERO Participation effective the last day of the month												
BRW	*	*	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.4%	100.0%	100.0%	94.3%
BYR	*	*	87.5%	87.5%	87.5%	76.6%	97.9%	98.1%	98.2%	94.5%	94.5%	94.8%
DRE	*	*	87.2%	87.2%	87.2%	89.7%	89.7%	89.5%	84.3%	88.0%	90.4%	87.3%
LAS	*	*	71.7%	71.7%	71.7%	76.1%	89.1%	93.5%	91.1%	94.6%	100.0%	94.7%
QDC	*	*	90.7%	88.4%	88.3%	93.0%	96.5%	96.4%	85.0%	83.6%	86.9%	92.6%

Comments:

* Historical data is not required by the Regulatory Assessment Performance Indicator process described in NEI 99-02.

The EOF ERO participants are added to each station's total ERO and participation numbers each month to take credit for the corporate response organization.

Definition: The percent key ERO members that have participated in a drill, exercise, or actual event during the previous 24 months (8 quarters) effective the last day of the month.

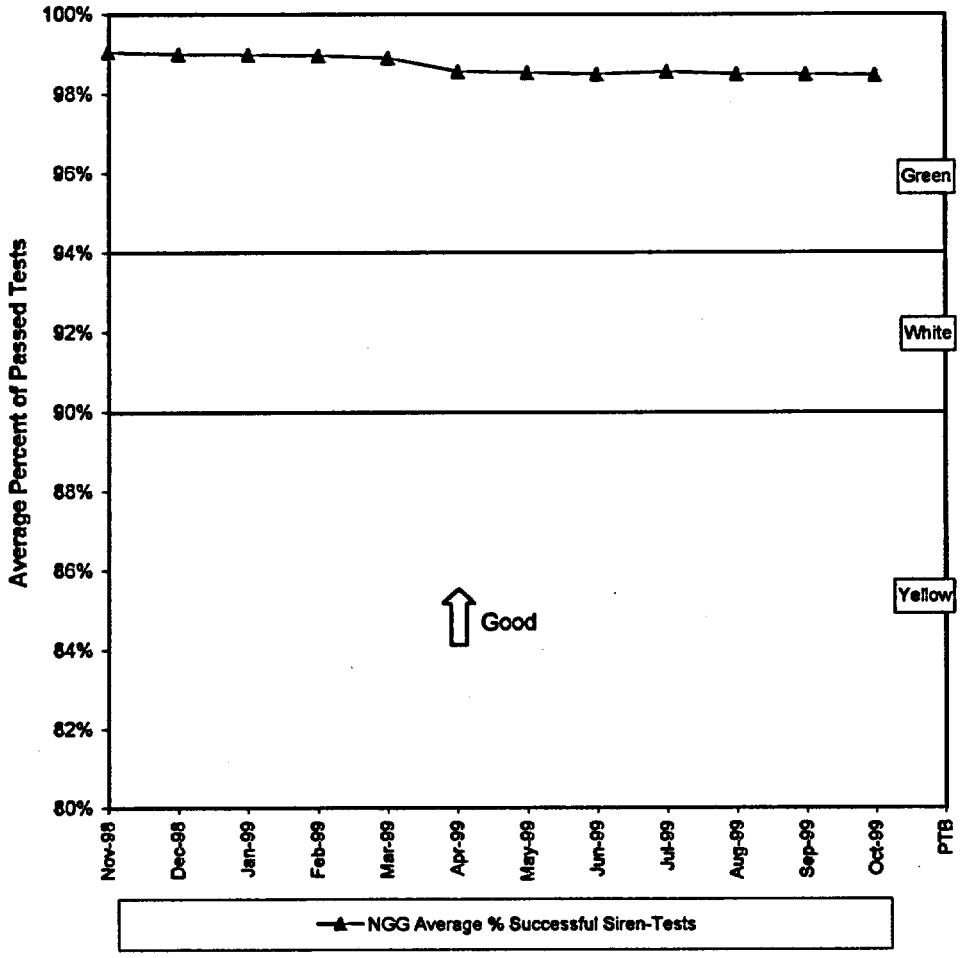
Graph displays the most recent 12 months average percent ERO participation across NGG. Table displays each sites ERO participation expressed in a percentage.

Rev. 0

ComEd Nuclear Generation Group

Oct-99

S.20: Alert and Notification System Reliability



NGG Measurement	
	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:

Green Band

Performance Threshold Band (PTB):

Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green ≥ 94%
White < 94 % and ≥ 90 %
Yellow < 90 %
Red No Performance Threshold

Contacts:

NGG Responsible Manager:
Marty Vonk (347) 6535

Contact Person:
David Stobaugh (347) 6480

	4Q/98			1Q/99			2Q/99			3Q/99		
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
NGG Average % Successful Siren-Tests	99.0%	99.0%	99.0%	99.0%	98.9%	98.6%	98.5%	98.5%	98.6%	98.5%	98.5%	98.5%
Percent Successful Siren-Tests over the previous 12 months (4 quarters)												
BRW	98.9%	99.0%	99.0%	99.0%	99.0%	98.8%	98.8%	98.7%	98.9%	98.8%	98.6%	98.5%
BYR	99.0%	99.0%	99.0%	99.0%	98.9%	98.8%	98.8%	98.9%	98.8%	98.7%	98.8%	98.9%
DRE	99.5%	99.4%	99.4%	99.3%	99.2%	98.3%	98.3%	98.0%	98.0%	98.0%	98.1%	98.2%
LAS	98.9%	98.8%	98.8%	98.8%	98.9%	98.7%	98.7%	98.7%	98.8%	98.9%	98.8%	98.7%
QDC	98.9%	98.8%	98.7%	98.7%	98.5%	98.2%	98.1%	98.2%	98.3%	98.1%	98.1%	98.0%

Comments:

Definition: The percentage of ANS sirens that are capable of performing their function, as measured by periodic siren testing in the pervious 12 months (4 quarters). Periodic tests are regularly scheduled tests that are conducted to actually test the ability of the sirens to perform their function (e.g., silent, growl, siren sound test).

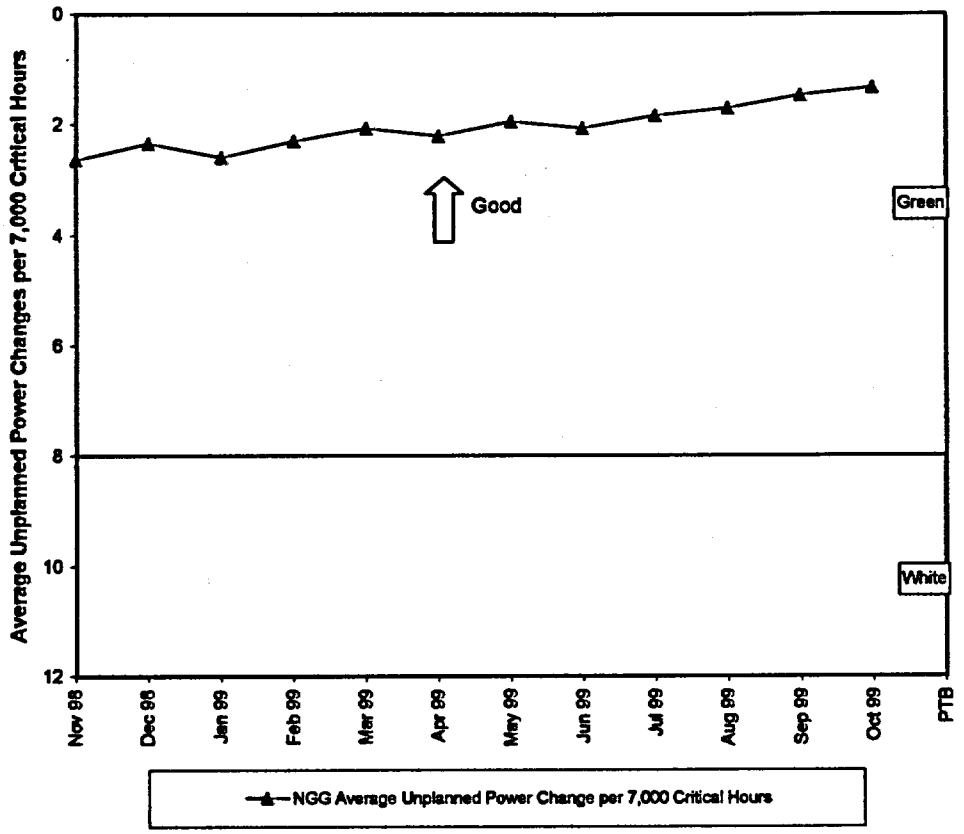
Graph displays the most recent 12 months average percentage of passed Siren-Tests across NGG and associated thresholds. Table displays each sites percentage of successful Siren-Tests.

Rev. 0

ComEd Nuclear Generation Group

Oct-99

S.21: Unplanned Power Changes per 7,000 Critical Hours



NGG Measurement

	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:

Green Band

Performance Threshold Band (PTB):

Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green ≤ 8
White > 8
Yellow No Performance Threshold
Red No Performance Threshold

Contacts:

NGG Responsible Manager:
Bob Deppi (347) 7954

Contact Person:
Dennis Leggett (347) 6114

	4Q/98			1Q/99			2Q/99				3Q/99	
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
NGG Average Rate	2.6	2.3	2.6	2.3	2.1	2.2	2.0	2.1	1.8	1.7	1.5	1.3
Unplanned Power Changes per 7,000 Critical Hours over the previous 12 months (4 quarters)												
BWD-1	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0	4.0	4.0	3.7	3.4
BWD-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BYR-1	3.3	3.9	4.4	4.1	4.0	4.3	3.5	4.4	5.3	4.4	3.5	3.5
BYR-2	4.4	4.4	4.4	3.6	2.7	3.4	3.2	3.2	2.4	1.6	0.8	0.8
DRE-2	2.8	2.8	2.7	1.8	1.7	1.6	1.6	1.6	1.6	0.0	0.0	0.0
DRE-3	4.3	3.4	2.6	2.8	2.8	2.7	0.9	0.9	0.9	0.9	0.9	0.0
LAS-1	0.0	0.0	3.4	2.9	2.5	2.2	2.0	1.8	2.5	2.4	2.4	2.5
LAS-2	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	0.0	2.0	1.7	1.4
QDC-1	3.3	1.6	1.4	1.2	1.1	1.0	0.9	1.9	0.9	0.9	0.9	0.9
QDC-2	4.7	4.0	3.5	3.3	2.9	2.7	2.5	.0.8	0.8	0.8	0.8	0.8

Comments:
NQ = Data not qualified

Definition:
The number of unplanned changes in reactor power of greater than 20% full-power, per 7,000 hours of critical operation over the previous 12 months (4 quarters). Excluding manual and automatic scrams.

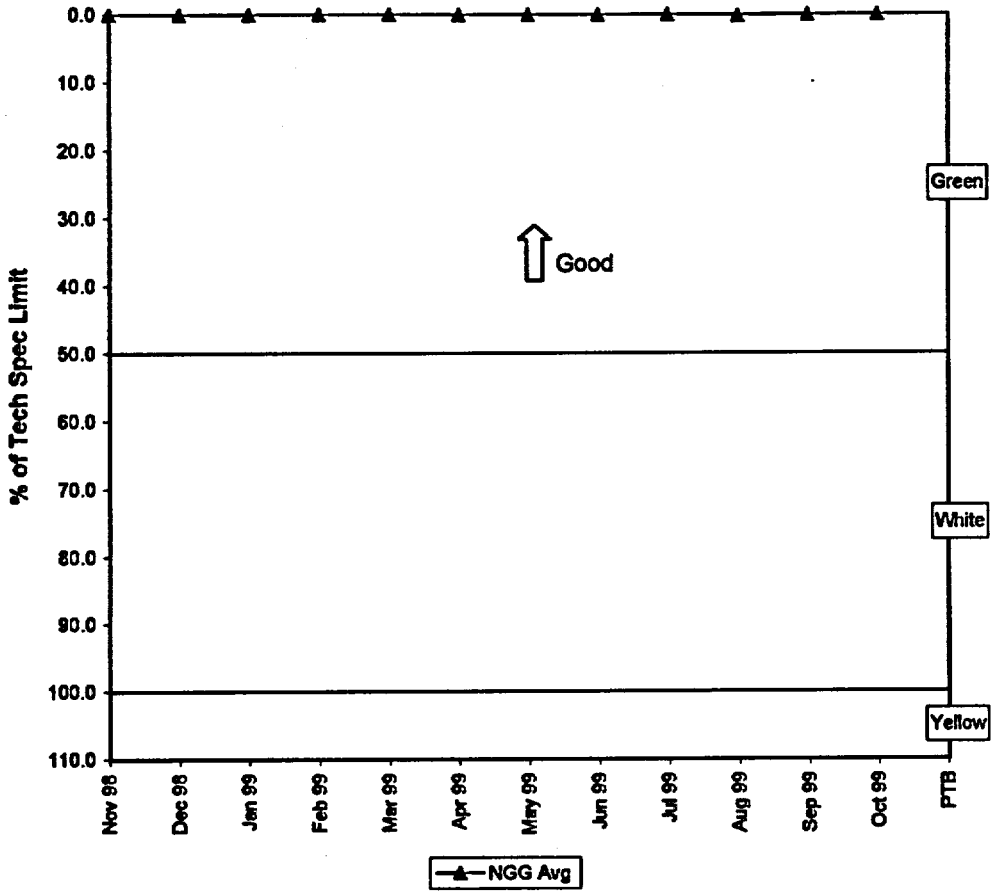
Graphs displays the most recent 12 months average performance per unit across NGG and associated thresholds. Table displays each unit's performance.

Rev. 0

ComEd Nuclear Generation Group

Oct-99

S.24: Reactor Coolant System Specific Activity



NGG Measurement	
	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:
Green Band

Performance Threshold Band (PTB):
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green: ≤ 50%
White: > 50% and ≤ 100%
Yellow: > 100%
Red: - no performance threshold established

Contacts:
NGG Responsible Manager:
Myra Burgess (347) 3840

Contact Person:
Dan Malauskas (347) 3806

	4Q/98			1Q/99			2Q/99			3Q/99		
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
NGG Avg	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1
Unit Monthly Performance - Percent of Tech Spec Limit												
BRW-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BRW-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BYR-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BYR-2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
DRE-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DRE-3	0.2	0.4	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
LAS-1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.6	0.8	0.8	0.8
LAS-2	NA	NA	NA	NA	NA	0.2	0.2	0.2	0.1	0.2	0.2	0.2
QDC-1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
QDC-2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1

Comments:
Values are reported as NA if, in the entire month, plant conditions did not require RCS activity to be calculated.

Definition: The maximum monthly reactor coolant system activity in micro-Curies per gram (μCi/gm) dose equivalent Iodine-131 per the technical specifications, and expressed as a percentage of the technical specification limit.

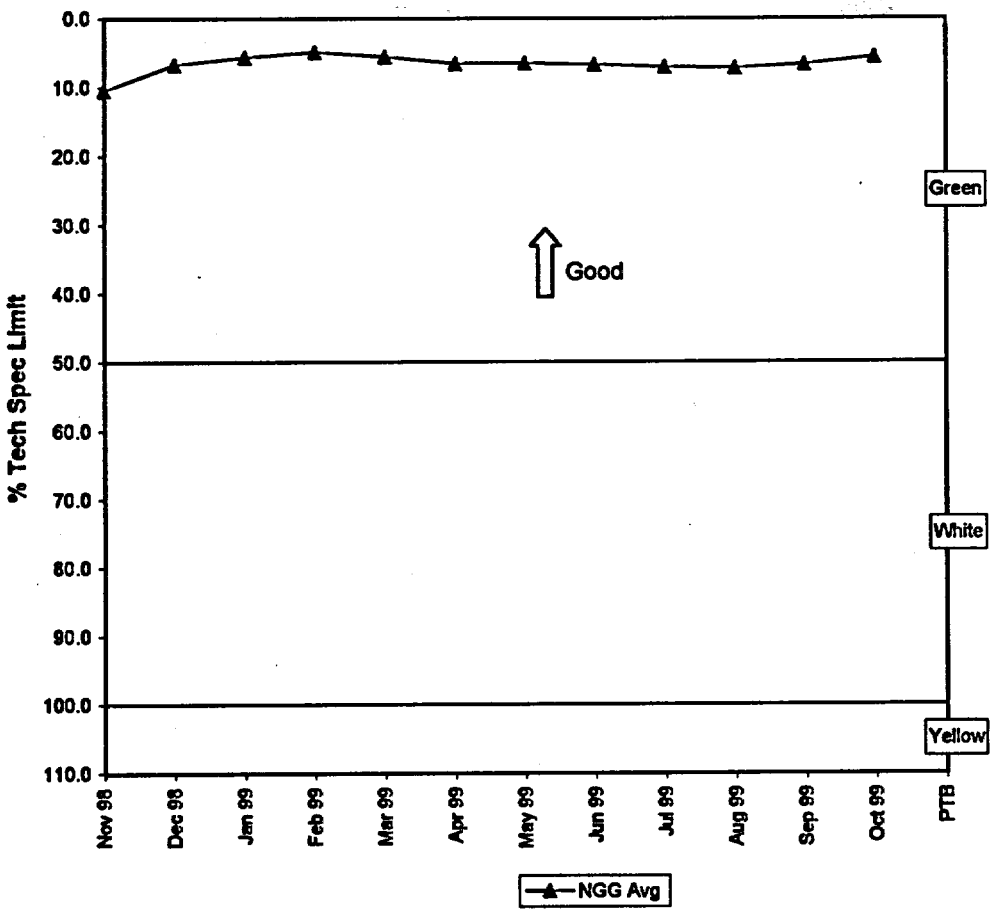
The graphs displays the NGG average of the highest Specific Activity monthly value for each unit and associated thresholds for the most recent 12 months (4 quarters). The table displays the highest Specific Activity monthly value for each unit and the NGG average for the most recent 12 months (4 quarters).

Rev. 1

ComEd Nuclear Generation Group

Oct-99

S.25: Reactor Coolant System Leakage



NGG Measurement	
	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:
Green Band

Performance Threshold Band (PTB):
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green: ≤ 50%
White: > 50% and ≤ 100%
Yellow: > 100%
Red: - no performance threshold established

Contacts:
NGG Responsible Manager:
Robert Deppi (347) 7954

Contact Person:
Dennis Leggett (347) 6114

	4Q/98			1Q/99			2Q/99			3Q/99		
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
NGG Avg	10.5	6.7	5.7	4.9	5.6	6.6	6.5	6.7	7.1	7.2	6.7	5.7
Unit Monthly Performance - Percent of Tech Spec Limit												
BRW-1	35.8	1.1	0.8	0.6	0.9	1.0	0.7	0.8	1.0	0.7	0.6	0.6
BRW-2	0.4	0.9	0.4	0.8	0.4	0.6	0.6	0.7	1.3	0.6	0.6	0.6
BYR-1	8.8	9.9	1.0	1.2	1.2	1.1	1.0	1.2	4.8	3.8	0.9	1.0
BYR-2	1.5	1.6	1.6	1.5	1.1	2.0	1.6	1.3	1.5	1.8	2.1	2.0
DRE-2	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	15.2	11.4	0.0
DRE-3	8.0	8.0	8.0	0.0	8.0	8.0	8.0	8.0	8.0	7.7	9.5	9.8
LAS-1	14.8	14.0	14.4	14.4	14.8	15.2	16.0	17.2	18.0	17.6	16.8	17.2
LAS-2	0.0	0.0	0.0	0.0	0.0	11.2	10.8	12.0	12.0	11.2	11.2	11.6
QDC-1	12.5	8.0	8.0	8.0	9.5	8.0	8.0	7.5	6.4	6.2	6.6	6.9
QDC-2	12.0	12.0	11.5	11.5	9.0	7.5	7.0	7.0	7.1	7.4	7.6	7.4

Comments:

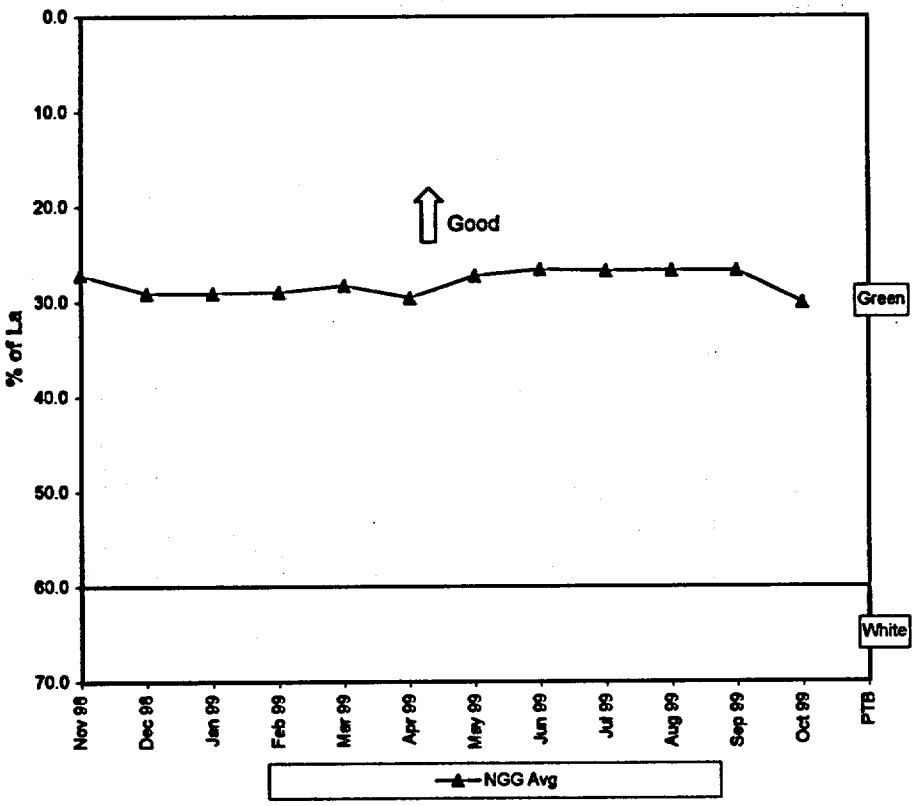
Definition: The maximum RCS Reactor Coolant System (RCS) Identified Leakage (Total Leakage for Dresden, LaSalle, and Quad Cities) in gallons per minute each month per the technical specifications and expressed as a percentage of the technical specification limit.

The graph displays the NGG average of the maximum Reactor Coolant System Leakage (Identified or Total) expressed as a percentage of the Technical Specification limit for each unit and associated thresholds for the most recent 12 months (4 quarters). The table displays the maximum Reactor Coolant System Leakage (Identified or Total) expressed as a percentage of the Technical Specification limit for each unit and the NGG average for the most recent 12 months (4 quarters).

Rev. 2

ComEd Nuclear Generation Group
S.26: Containment Leakage

Oct-99



NGG Measurement	
	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:
Green Band

Performance Threshold Band:
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green: ≤ 60%
White: > 60%
Yellow: - no performance threshold established
Red: - no performance threshold established

Contacts:
NGG Responsible Manager:
John Hutchinson
(347) 7916

Contact Person:
James Glover (347) 7228

	4Q/98			1Q/99			2Q/99			3Q/99		
	Nov 98	Dec 98	Jan 99	Feb 99	Mar 99	Apr 99	May 99	Jun 99	Jul 99	Aug 99	Sep 99	Oct 99
NGG Avg	27.2	29.1	29.1	29.0	28.3	29.6	27.3	26.6	26.8	26.7	26.7	30.1
Unit Monthly Performance - Percent of Tech Spec Limit												
BRW-1	21.1	21.2	21.2	20.2	20.9	20.9	20.9	20.9	22.0	21.4	21.4	19.7
BRW-2	26.1	26.1	26.2	26.2	26.4	30.5	25.3	25.3	25.3	25.3	25.3	24.9
BYR-1	36.9	37.0	37.0	37.0	36.9	39.8	39.8	32.8	32.8	32.8	32.8	32.8
BYR-2	39.5	39.5	39.5	39.7	41.1	41.1	40.9	40.9	40.9	40.9	40.9	40.9
DRE-2	30.9	30.9	30.9	30.9	31.2	31.2	31.2	30.8	30.8	30.8	30.8	23.4
DRE-3	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
LAS-1	10.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	57.2
LAS-2	26.5	44.8	44.9	44.9	35.4	41.2	24.1	24.1	24.1	24.1	24.1	24.1
QDC-1	25.7	23.6	23.6	23.6	23.6	23.6	23.5	23.5	23.8	23.9	23.9	23.9
QDC-2	24.1	24.1	24.1	24.1	23.6	23.6	23.6	23.6	24.5	23.6	23.6	23.4

Comments:
The following Sites are reporting Maximum Path Values: Braidwood and Byron
The following Sites are reporting Minimum Path Values: Dresden, LaSalle and Quad Cities

Oct 99:
Dresden:
Unit 3: FW, 3-0220-58A, 51.4 scfm, 11.1% of La; Purge, 3-1601-31A/B, 38.25 scfm, 8.2% of La; LPCI, 3-1501-25A, 17.2scfm, 3.7% of La; Purge, 3-1601-24, 22.5 scfm, 4.9% of La. These valves will be worked during D3R16.
LaSalle:
LaSalle has recorded high leakage from many tested valves on Unit 1. Action plan will be determined after all results from the current outage are evaluated.
Quad:
Unit One: 1-203-2D, 8scfh, 1.63% of total La; 1-1001-29A, 13.52 scfh, 2.76 %; 1-1001-50, 7 scfh, 1.42%; 1-3703, 7 scfh, 1.42%
Unit Two: 2-1001-29A, 12.48 scfh, 2.54%; 2-1301-55, 7.5 scfh, 1.53%; 2-1601-24,-63, 27.5 scfh, 5.56%.
All valves are within acceptable range with the exception of 2-1601-24 and -63. These valves will be worked during Q2R15.

Definition: Containment Leakage is the monthly highest total Type B and Type C leakage expressed as a percentage of the La leakage limits. These limits are calculated as specified in NEI 94-01 Rev 0 and ANS/ANSI 56.8 –1994 which are referenced by Regulatory Guide 1.11, which is endorsed by 10CFR50 Appendix J.

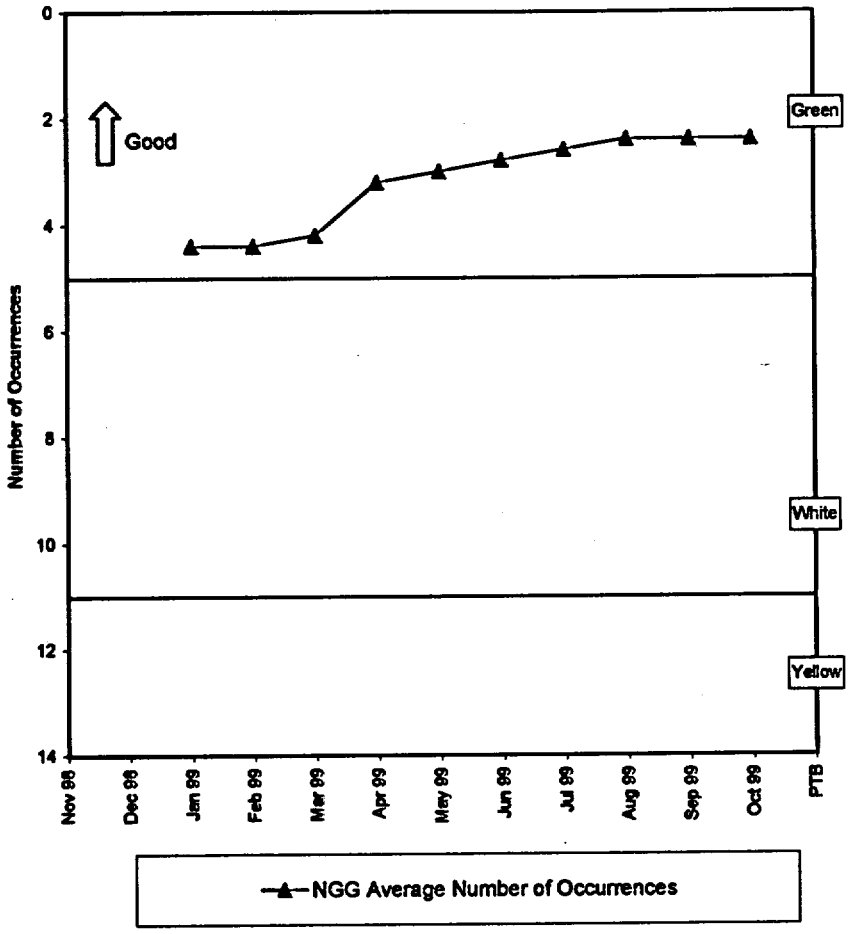
The graph displays the NGG average of the highest minimum pathway "as left" monthly value for each unit as a percentage of the design basis leak rate and associated thresholds for the most recent 12 months (4 quarters). The table displays the highest "as left" leakage as a percentage of the design basis leak rate for each unit and the NGG average for the most recent 12 months (4 quarters).

Rev. 0

ComEd Nuclear Generation Group

Oct-99

S.27: Occupational Exposure Control Effectiveness



NGG Measurement

	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
x	NRC

Performance Standard:

Green Band

Performance Threshold Band (PTB):

Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green: ≤ 5
White: > 5 and ≤ 11
Yellow: > 11
Red: None

Contacts:
NGG Responsible Manager:
Susan Landahl (347) 3860

Contact Person:
Cathy Heilbron (347) 3872

	4Q/98		1Q/99			2Q/99			3Q/99			
	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99
NGG Average Number of Occurrences	*	*	4.4	4.4	4.2	3.2	3.0	2.8	2.6	2.4	2.4	2.4
Site Performance												
BRW	*	*	3	3	3	2	2	2	2	2	2	2
BYR	*	*	8	8	7	5	4	3	3	3	3	2
DRE	*	*	7	7	7	5	5	5	5	5	5	5
LAS	*	*	2	2	2	2	2	2	1	0	0	1
QDC	*	*	2	2	2	2	2	2	2	2	2	2

Occurrences during the previous 36 months (12 quarters)

Comments:
* Historical data is not required by the Regulatory Assessment Performance Indicator process described in NEI 99-02.
Sep 99:
Byron: Historical data was revised due to reclassification of events.

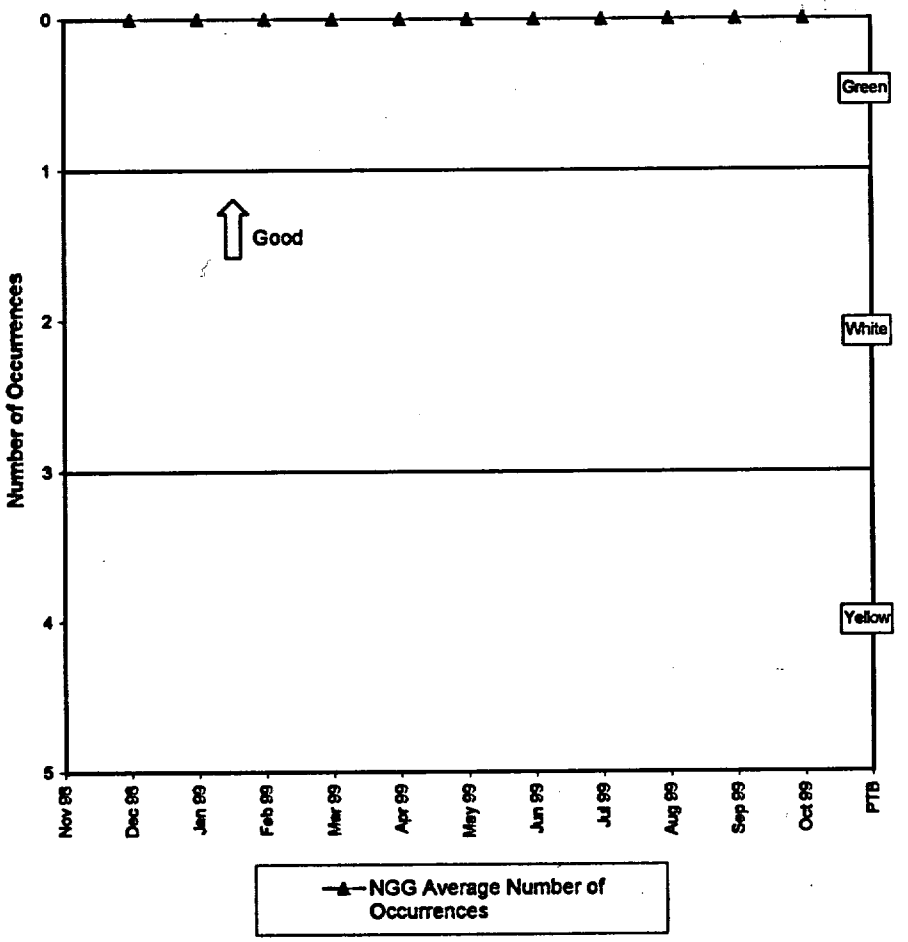
Oct 99:
LaSalle: On October 13, 1999, a high radiation door was left open and not properly checked following exit from the area. PIF L1999-04821.

Definition: The performance indicator is the sum of the following: Technical Specification high radiation area occurrences, very high radiation area occurrences and unintended exposure occurrences during the previous 36 months (12 quarters).

Graph displays the most recent 12 months of the NGG average of the sites' 3 year rolling total number of occurrences and associated performance threshold bands. Table displays NGG average and site 3 year rolling total number of occurrences.

ComEd Nuclear Generation Group

S.28: RETS/ODCM Radiological Effluent Occurrence



NGG Measurement

	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
x	NRC

Performance Standard:

Green Band

Performance Threshold Band (PTB):

Threshold is based on number of occurrences per site.

Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green: ≤ 1
White: > 1 and ≤ 3
Yellow: > 3
Red: None

Contacts:

NGG Responsible Manager:
Susan Landahl (347) 3860

Contact Person:
Cathy Heilbron (347) 3872

	4Q/98			1Q/99			2Q/99			3Q/99		
	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99
NGG Average Number of Occurrences	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Site Performance												
BRW	0	0	0	0	0	0	0	0	0	0	0	0
BYR	0	0	0	0	0	0	0	0	0	0	0	0
DRE	*	0	0	0	0	0	0	0	0	0	0	0
LAS	*	0	0	0	0	0	0	0	0	0	0	0
QDC	0	0	0	0	0	0	0	0	0	0	0	0

Occurrences during the previous 12 months (4 quarters)

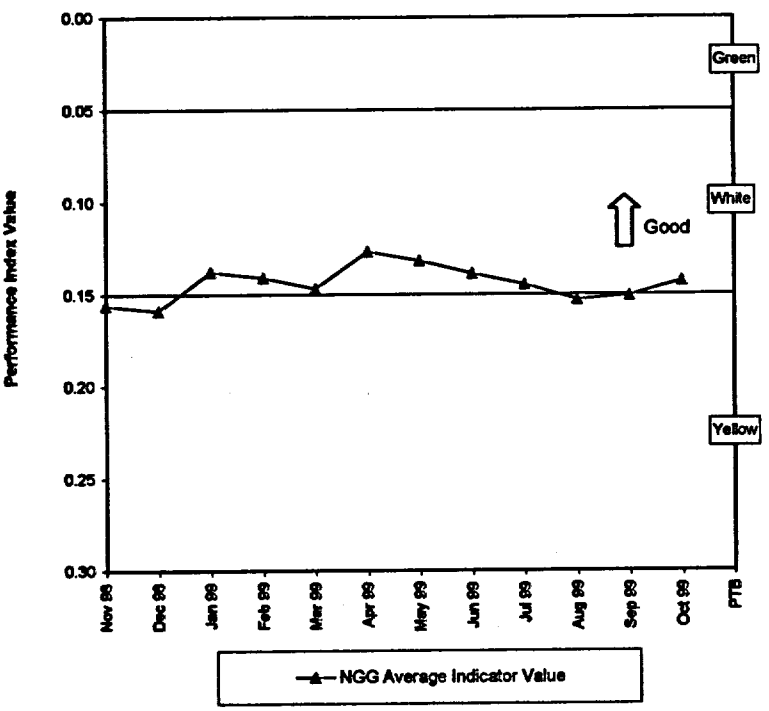
Comments:
*Historical data not available.

Definition: Radiological effluent release occurrences per reactor unit during the previous 12 months (4 quarters) that exceed the following values:
Liquid Effluents: Whole Body =1.5 mrem/qtr. Organ = 5 mrem/qtr.
Gaseous Effluents: Gamma Dose = 5 mrad/qtr. Beta Dose =10 mrad/qtr. Organ Doses from I-131, I-133, H-3 & Particulates = 7.5 mrem/qtr.

Graphs displays the most recent 12 months of NGG average number of occurrences and associated performance thresholds. Table displays NGG average and site number of occurrences.

Rev. 1 *ComEd Nuclear Generation Group* Oct-99

S.29: Protected Area Security Equipment Performance Index



NGG Measurement	
	Business Plan
Tier 2	Safety
	Production
	Cost
	Workforce
	INPO
X	NRC

Performance Standard:
Green Band

Performance Threshold Band (PTB):
Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green: ≤ 0.050
White: > 0.050 and ≤ 0.150
Yellow: > 0.150
Red: None

Contacts:
NGG Responsible Manager:
Roy Lane (347) 6170

Contact Person:
Dean Walker (347) 6140

	4Q/98			1Q/99			2Q/99			3Q/99		
	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99
NGG Average Indicator Value	0.156	0.159	0.138	0.141	0.147	0.127	0.132	0.139	0.145	0.153	0.151	0.143
Site Performance												
BRW	0.051	0.047	0.050	0.049	0.032	0.030	0.025	0.029	0.034	0.037	0.036	0.035
BYR	0.041	0.032	0.048	0.070	0.087	0.083	0.075	0.073	0.073	0.085	0.085	0.081
DRE	0.166	0.184	0.193	0.191	0.193	0.221	0.229	0.226	0.254	0.249	0.219	0.214
LAS	0.412	0.422	0.294	0.319	0.351	0.235	0.271	0.294	0.299	0.331	0.352	0.355
QDC	0.109	0.110	0.105	0.077	0.074	0.064	0.062	0.071	0.064	0.064	0.061	0.032

Indicator Value during the previous 12 months (4 quarters)

Comments:
Oct 99:
Byron: Many of the issues stem from equipment in need of upgrade. An assessment is underway to identify equipment in need of upgrade and is scheduled to be completed by the end of the year. Systems that were recently added to the assessment include SAS (Secondary Alarm System) and CAS (Central Alarm System). Many of the equipment issues have been caused by lightning strikes, therefore an effort is also underway to better ground and insulate equipment.

Dresden: During the month of October, there was a total of 26.02 hours attributed to the Protected Area Security Performance Index. The plan for addressing zone maintenance was put on hold during D2R16. Electrical Maintenance department resources assigned to Security were dedicated to D2R16. However, maintenance did support Security for zones that failed during D2R16. The action plan for zone maintenance has been revised and the scheduled completion date is 12/10/99.

LaSalle: Improvement in this area was noted during the month of October. There were twenty-two CCTV failures with an average down time of 6.1 hours. CCTV 16 contributed to 17 of the failures which is a lingering problem from the August cable cutting problem. In the area of the IDS system there were twenty-three failures with an average down time of 16.23 hours. Hardware replacement, trouble shooting and equipment adjustments have

Definition: PA Security equipment performance is measured by an index that compares the amount of the time CCTVs and IDS are unavailable, as measured by compensatory hours, to the total hours during the previous 12 months (4 quarters). A normalization factor is used to take into account site variability in the size and complexity of the systems.
The performance indicator value is not an indication that the protection afforded by

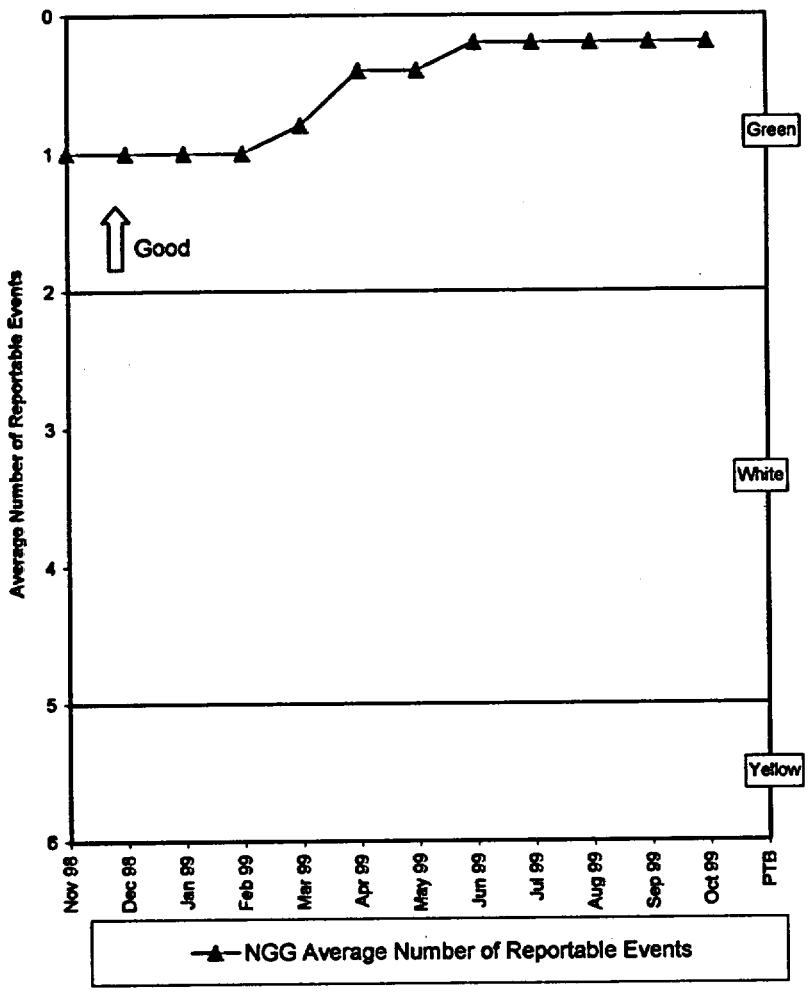
Graph displays the most recent 12 months of NGG average indicator value and performance threshold bands. Table displays NGG average and site indicator value.

Rev. 0

ComEd Nuclear Generation Group

Oct-99

W.15: Personnel Screening Program Performance



NGG Measurement

- Business Plan
- Safety
- Production
- Cost
- Tier 2 Workforce
- INPO
- x NRC

Performance Standard:
Green Band

Performance Threshold Band (PTB):

Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green: ≤ 2
White: > 2 and ≤ 5
Yellow: > 5
Red: None

Contacts:
NGG Responsible Manager:
Roy Lane (347) 6170

Contact Person:
Dean Walker (347) 6140

	4Q/98			1Q/99			2Q/99			3Q/99		
	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99
NGG Average	1.0	1.0	1.0	1.0	0.8	0.4	0.4	0.2	0.2	0.2	0.2	0.2
Site Performance												
BRW	0	0	0	0	0	0	0	0	0	0	0	0
BYR	0	0	0	0	0	0	0	0	0	0	0	0
DRS	1	1	1	1	0	0	0	0	0	0	0	0
LAS	3	3	3	3	3	2	2	1	1	1	1	1
QDC	1	1	1	1	1	0	0	0	0	0	0	0

Reportable Events during the previous 12 months (4 quarters)

Comments:

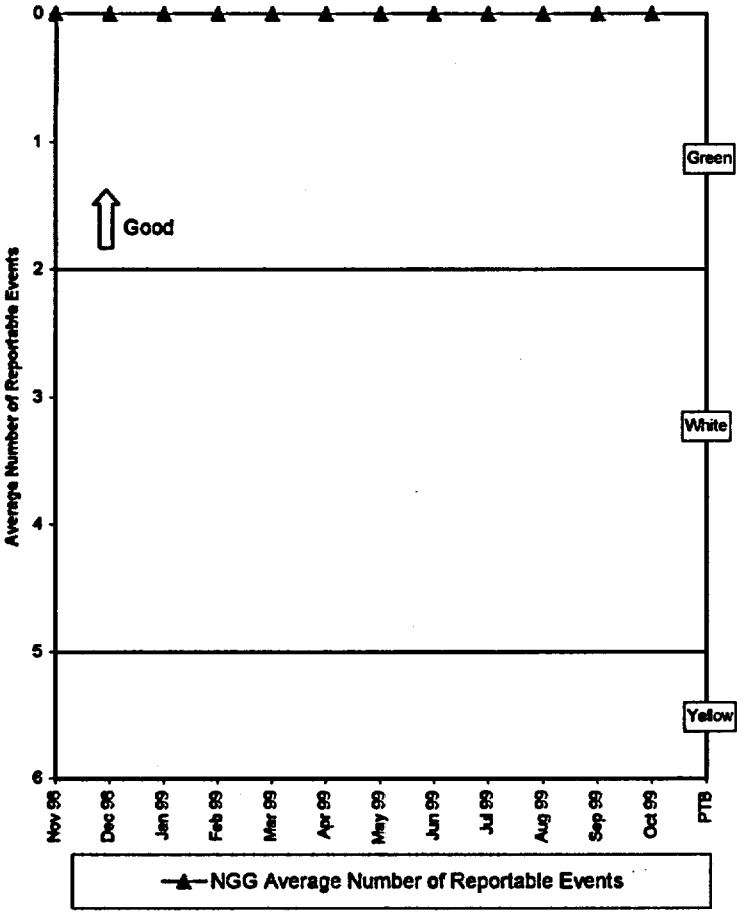
Definition: The number of failures to implement requirement(s) of 10 CFR Part 73 that were reportable during the previous 12 months (4 quarters). This indicator does not include any reportable events that result from the program operating as intended.

Graph displays the most recent 12 months of NGG average number of reportable events and associated performance thresholds. Table displays NGG average and site number of reportable events.

Rev. 0

ComEd Nuclear Generation Group
W.16: Fitness For Duty/
Personnel Reliability Program Performance

Oct-99



NGG Measurement

	Business Plan
	Safety
	Production
	Cost
Tier 2	Workforce
	INPO
x	NRC

Performance Standard:

Green Band

Performance Threshold Band (PTB):

Green: Baseline Inspections
White: Increased Regulatory Response
Yellow: Required Regulatory Response
Red: Unacceptable Performance

Green: ≤ 2
White: > 2 and ≤ 5
Yellow: > 5
Red: None

Contacts:

NGG Responsible Manager:
Roy Lane (347) 6170

Contact Person:
Dean Walker (347) 6140

	4Q/98			1Q/99			2Q/99			3Q/99		
	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99
NGG Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Site Performance												
BRW	0	0	0	0	0	0	0	0	0	0	0	0
BYR	0	0	0	0	0	0	0	0	0	0	0	0
DRS	0	0	0	0	0	0	0	0	0	0	0	0
LAS	0	0	0	0	0	0	0	0	0	0	0	0
QDC	0	0	0	0	0	0	0	0	0	0	0	0

Reportable Events during the previous 12 months (4 quarters)

Comments:

Definition: The number of reportable failures to properly implement the requirements of 10 CFR Part 26 and 10 CFR 73.56 during the previous 12 months (4 quarters). This indicator does not include any reportable events that result from the program operating as intended.

Graph displays the most recent 12 months of NGG average number of reportable events and associated performance thresholds. Table displays NGG average and site number of reportable events.