

**From:** A. Randolph Blough  
**To:** "Dave Lochbaum" <dlochbaum@ucsusa.org>; Cohen, Norm; [REDACTED] 7C  
**Date:** 10/29/04 3:59PM  
**Subject:** Correspondence from PSEG to NRC, FYI.

NRC Region 1 has received a letter from PSEG providing metrics and a progress report on their efforts to improve SCWE at Salem and Hope Creek. Since our ADAMS external service is down, I am sending you a courtesy copy for your info.

The second file is very large and may take awhile to download and open.

Randy Blough

Information in this record was deleted  
in accordance with the Freedom of Information  
Act, exemptions 7C  
FOIA- 2005-194

T-234

October 29, 2004  
LR-N04-0481

Mr. Samuel Collins, Regional Administrator  
United States Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

**PSEG METRICS FOR IMPROVING THE WORK ENVIRONMENT  
SALEM AND HOPE CREEK GENERATING STATIONS  
QUARTERLY REPORT  
DOCKET NOS. 50-272, 50-311 AND 50-354**

- Reference: 1) NRC Letter dated January 28, 2004; Work Environment For  
Raising and Addressing Safety Concerns at the Salem and Hope  
Creek Generating Stations
- 2) PSEG Letter Dated February 27, 2004; PSEG Plan for  
Addressing and Improving the Work Environment to Encourage  
Identification and Resolution of Issues
- 3) PSEG Letter Dated June 25, 2004; PSEG Plan for Improving the  
Work Environment, Salem and Hope Creek Generating Stations
- 4) NRC Letter dated July 30, 2004; Work Environment at the Salem  
and Hope Creek Generating Stations

Dear Mr. Collins:

This letter provides a copy of the published PSEG Nuclear quarterly metrics used to objectively measure the effectiveness of the Safety Conscious Work Environment (SCWE) improvements at Salem and Hope Creek Generating Stations.

In response to the Nuclear Regulatory Commission (NRC) letter of January 28, 2004, (Reference 1), our letter of February 27, 2004, (Reference 2) provided the plan of Public Service Enterprise Group (PSEG) to conduct an in-depth assessment of the work environment for raising and addressing safety concerns at the Salem and Hope Creek Generating Stations. This effort was described in further detail at a public meeting on March 18, 2004. An Independent Assessment Team completed this in-depth assessment in April of 2004. The Independent Assessment Team also reviewed available data, including NRC inspection records, the comprehensive survey administered by Synergy in December 2003, and the results of the assessment conducted by the Utility Service Alliance (USA). Additionally, the independent assessment also included a review of the impact on the work environment of operational decision-making, the corporate/site interface, the problem identification and resolution process (including timeliness of corrective action and communication), and the work management process.

The Independent Assessment Team Report, along with the USA Assessment Report, and the executive summary of the Synergy survey, were submitted to the NRC in May of 2004. The USA Assessment and the Independent Assessment Team concluded that Salem and Hope Creek were safe for continued operation, but identified issues that needed to be addressed.

The issues identified by these reports and management reviews of these reports were used to revise our Business Plan for the remainder of 2004 and for 2005. We presented a summary of our action plans at a public meeting on June 16, 2004.

During that meeting we discussed a number of short-term actions we were taking in parallel with the development of our longer-term action plans and we stated that we would follow up with a written summary of our actions to improve the work environment, the identification and resolution of issues, and the work management process. In our follow up June 25 letter (Reference 3) we restated our actions and the commitments made during the public meeting. These commitments included implementing, monitoring and publishing quarterly metrics to objectively measure the effectiveness of our SCWE improvements at Salem and Hope Creek.

In a follow up response letter, dated July 30, 2004, (Reference 4) the NRC acknowledged receipt and review of the PSEG action plan and stated that the PSEG plan appeared to address the key findings of both the NRC and PSEG assessments. The July 30 letter made reference to a July 27 telephone conversation with PSEG wherein an additional commitment was agreed upon with respect to the quarterly submittals. PSEG Nuclear agreed to include a brief description of any significant changes to the PSEG action plan. At this time, there have been no substantive changes to the PSEG action plan.

The following is a discussion of the performance indicators and an analysis of progress to date.

### **Performance Metrics**

The metrics identified to the NRC in the June 25 letter are listed below, with minor title changes. Titles were modified to more accurately reflect the parameter being measured:

1. Knowledge of Alternative Avenues
2. Employee Perception of Management Commitment
3. Supervisor Communication Effectiveness
4. Trust and Respect Between Management & Site Personnel
5. SCWE Management Training Attendance
6. Executive Review Board (ERB) Action Approvals
7. Employee Concerns Program (ECP) Concerns Confidentiality/  
Anonymity Request
8. Total Notifications Generated
9. Online Corrective Maintenance Backlog
10. Online Elective Maintenance Backlog
11. Corrective Action Problem Resolution
12. Nuclear Condition Report Activities Overdue
13. Open Nuclear Condition Report Evaluations with Due Date Extensions
14. Repeat Maintenance Issues
15. Operational Challenges
16. Unplanned Limiting Condition of Operation (LCO) Entries
17. Safety System Unavailability

In the metric package (attached), we have included more than seventeen charts since some measurement areas require multiple charts to view a complete picture.

Fundamentally, these indicators address three principal areas: people, processes and plant.

#### **People:**

We have focused our efforts on the fair and consistent treatment of employees through the creation of an Executive Review Board (ERB). The ERB is serving its function of ensuring that proposed personnel actions (e.g. promotions and disciplinary actions) are conducted in a manner consistent with PSEG policy. The approval rate for the Board has shown improvement since the Board's inception in April. A near-term temporary decline in rate is expected as the result of the recent introduction of a broader range of supplemental personnel issues. Overall, a greater degree of management awareness of the process is required.

Therefore, formal training to address this awareness began in September and will be completed in the first quarter of 2005.

A number of the indicators that focus on the relationship between management and the work force (Knowledge of Alternative Avenues, Employee Perception of Management Commitment, Supervisor Communication Effectiveness and Trust and Respect Between Management & Site Personnel) rely on current survey data. Consistent with our Business Plan objectives, these survey and assessment tools are under development and will serve to establish an understanding of future areas of focus. Currently, the Synergy Assessment, a key component to this understanding, will be administered during the first quarter of 2005 and will assess employees' perception of management commitment, mutual trust and respect between management and associates, communication effectiveness, and associate knowledge of safety concern avenues.

#### Processes:

Process adherence is improving as evidenced by the results of the Corrective Action Closure Board and maintenance backlogs. Our principal focus this quarter on quality and completeness in evaluating our issues has resulted in improvement. Correspondingly, our focus on adhering to work week schedules has resulted in a steady reduction of items in our maintenance backlogs.

Our next process focus area will be on the timely response to fixing our problems. Improvements in evaluating both the quality and completeness of our issues have been achieved, in part, at the expense of timeliness. This is demonstrated by the lack of improvement in overdue items and extensions metrics. This was an expected outcome. Management attention is now being focused on the objective of improving our response time to issues. In parallel, we will work to ensure sustainable performance with the quality improvements recently achieved in the evaluation portion of the process.

#### Plant:

Overall, we have not experienced consistent improvement in equipment performance nor was this expected at this point in the plan. Equipment performance is anticipated to improve as a result of our first addressing the people and process issues. Specific information regarding individual performance of key systems for Salem and Hope Creek is included in the attached performance indicators. While equipment performance is meeting our goals in some areas, we have further work to do in other areas.

We extended the scope and duration of both the Salem Unit 1 refueling outage last spring as well as the current Hope Creek refueling outage in order to reduce

our backlogs and improve our plant performance. Major scope added includes extensive work on our control rod drive mechanisms. This was an item of concern identified in the USA assessment and by our operators. We also added maintenance to both outages that would normally be performed on line.

### **Management Assessment**

The overall performance represented by our key metrics demonstrates progress and improvement. The key to sustained improvement is to improve the foundation, which is why we have concentrated our efforts on our corrective action program and work management. It is not surprising that we have made the most measurable progress in those areas. That progress is represented by positive trends in backlog, schedule adherence and corrective action quality.

Additionally, we have improved our communications with employees, specifically as they relate to operational decision-making. While the results of our efforts will not be evident until our Synergy Assessment is conducted in the first quarter of 2005, I feel we are making progress. This is based on recent feedback I have received from our operating crews and other employees.

The area that is expected to require the most time to demonstrate marked improvement is equipment performance. These metrics have not shown consistent progress at this time. However, as we focus on our corrective action program and work management process, I expect improvement in our equipment performance will follow.

Over the last quarter, equipment performance has affected our operation and the impact is evident in our Unplanned LCO Metrics. Equipment performance issues have also affected unit reliability. In September, Salem Unit 2 automatically tripped offline due to loss of excitation in the main generator. More recently in October, Hope Creek was manually taken offline due to a pipe break in the Turbine Building. The causes of these events, as well as our response, demonstrate a gap still exists between our current organizational performance and excellence. However, the manner in which we responded demonstrates to me progress has been made relative to fostering a SCWE.

In closing, I want to reaffirm our commitment to operate our plants safely. Our fundamental responsibility for the safe operation of these facilities will not be compromised, and we continue to have the full resources and support of the Corporation. We are making measured progress in improving our performance and work environment. I expect that to continue. I also remain confident that should a safety issue arise, we will not hesitate to take timely, deliberate action to address such an issue up to and including plant shutdown. I feel we clearly demonstrated this most recently in our response to the pipe break at Hope Creek and our decision to transition directly into the scheduled refueling outage.

Mr. Samuel Collins  
LR-N04-0481

-6-

October 29, 2004

If you have any further questions please contact me.

Very truly yours,

A. Christopher Bakken, III  
President & CNO  
PSEG Nuclear, LLC

Attachments

Mr. Samuel Collins  
LR-N04-0481

-7-

October 29, 2004

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USNRC Senior Resident Inspector - HC (X24)

USNRC Senior Resident Inspector - Salem (X24)

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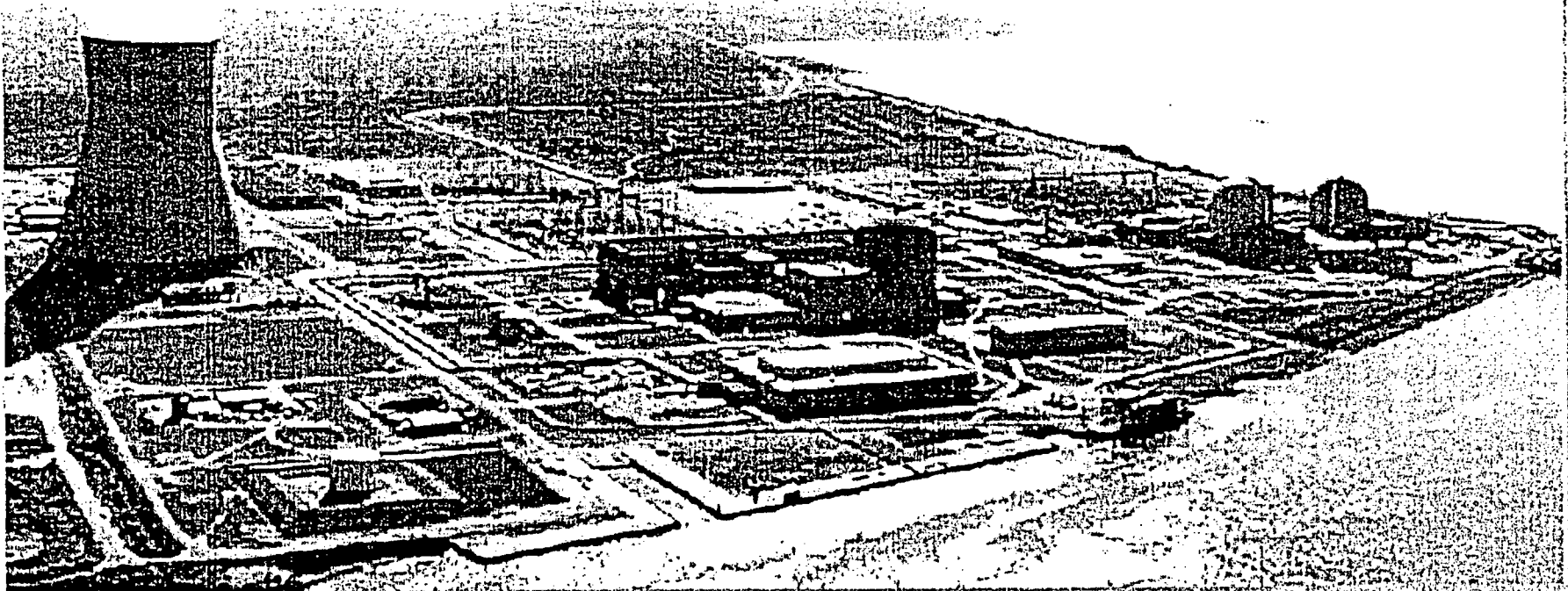


September

SCWE Effectiveness Metrics

SCWE

# Salem and Hope Creek Generating Stations




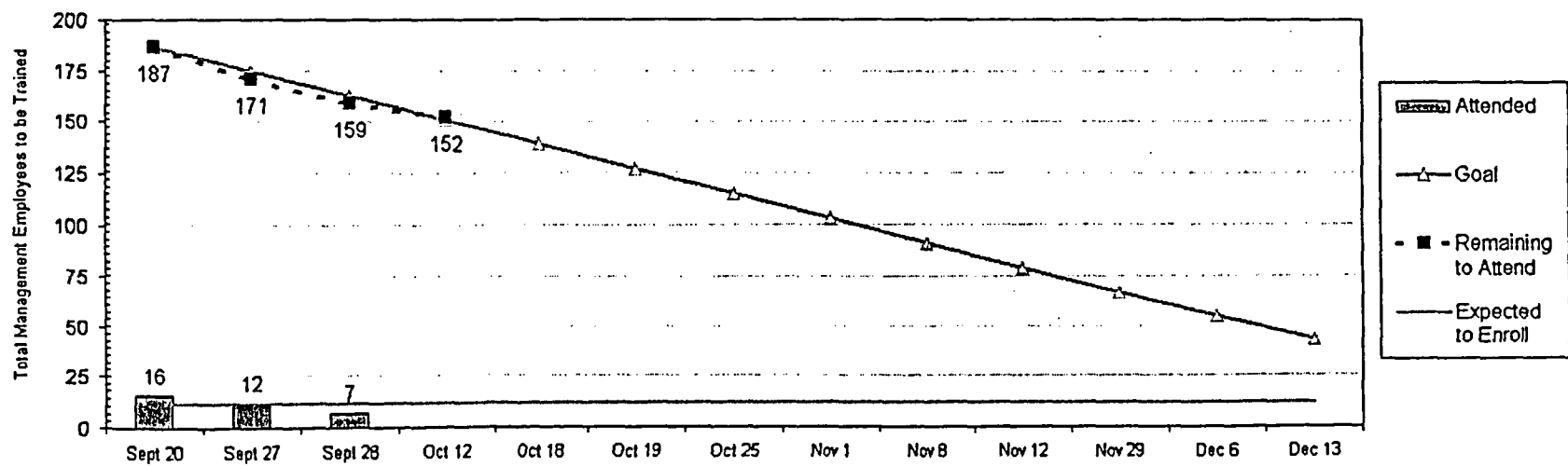
**PSEG**  
Nuclear




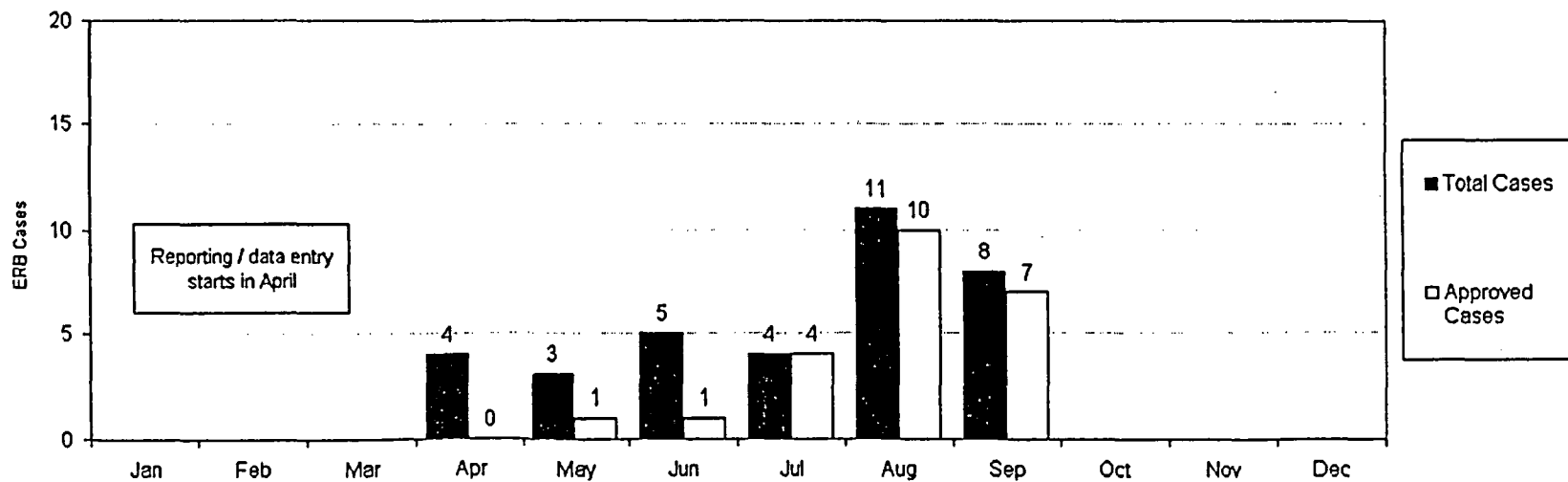
Metrics will be published following the first quarter 2005 Employee Survey for:

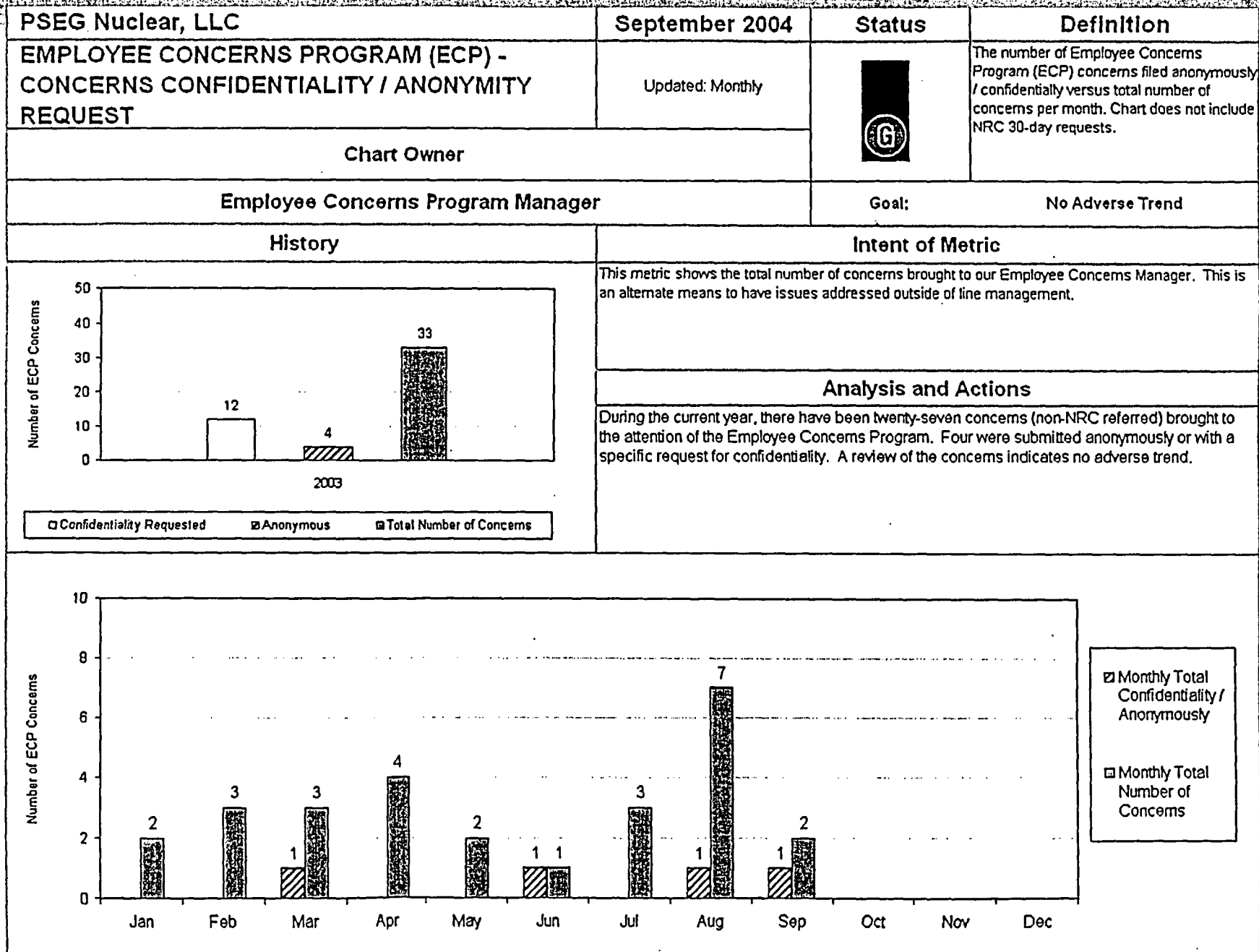
- \* KNOWLEDGE OF ALTERNATIVE AVENUES
- \* EMPLOYEE PERCEPTION OF MANAGEMENT COMMITMENT
- \* SUPERVISOR COMMUNICATION EFFECTIVENESS
- \* TRUST AND RESPECT BETWEEN MANAGEMENT & SITE PERSONNEL

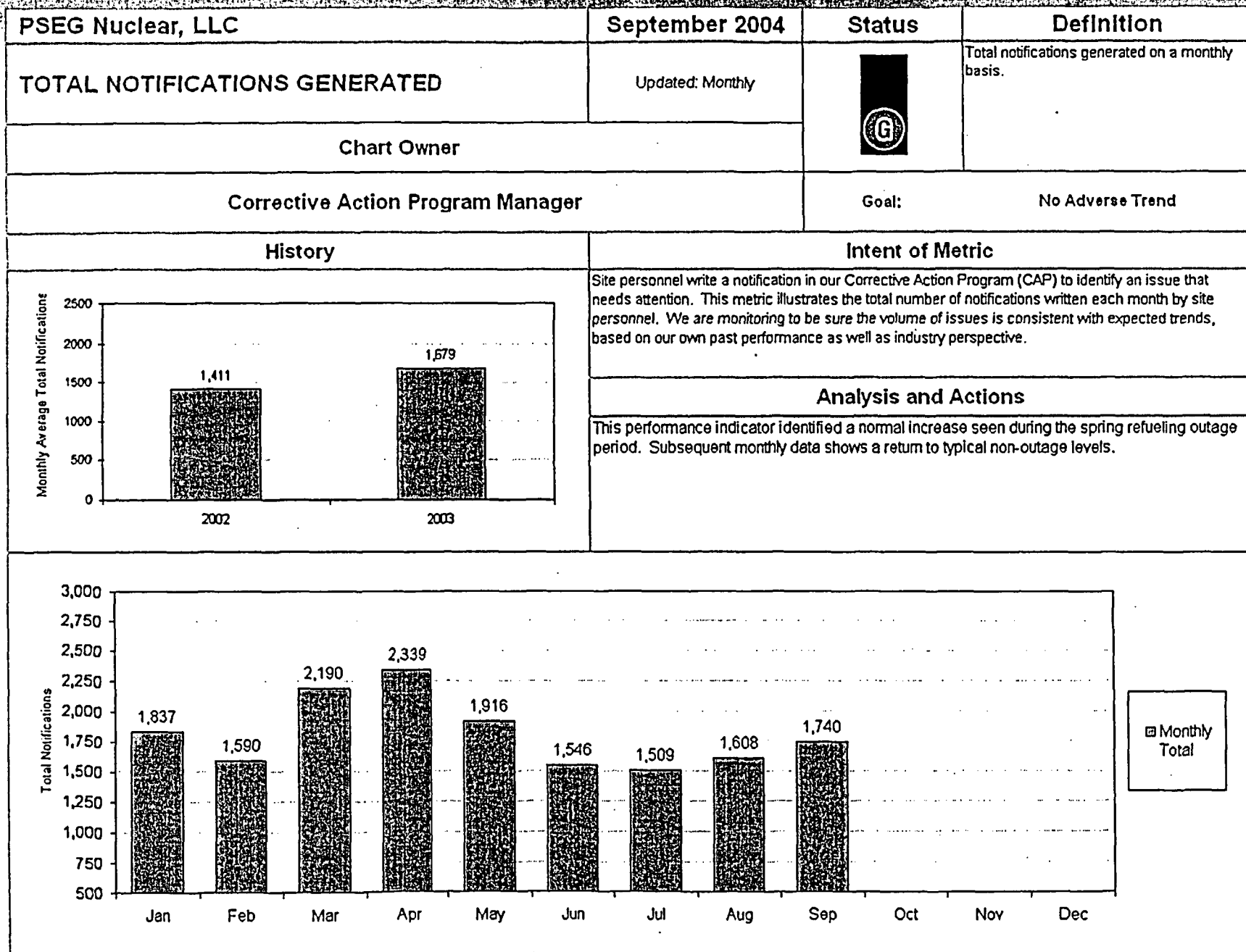
PSEG Nuclear, LLC	September 2004	Status	Definition
SCWE MANAGEMENT TRAINING ATTENDANCE	Updated: Monthly		Attendance for Safety Conscious Work Environment (SCWE) Training - PSEG Nuclear Management.
Chart Owner			
Nuclear Training Manager		Goal:	43 associates by year end
History	Intent of Metric		
New Indicator for 2004	Nuclear provides a significant amount of training on a broad range of subjects. This metric measures the training to enhance management's understanding of key Safety Conscious Work Environment (SCWE) policy attributes and our collective roles and responsibilities for proper implementation. This is a full day of training.		
	<b>Analysis and Actions</b> Safety Conscious Work Environment training for management is scheduled to be completed by the end of January 2005.		




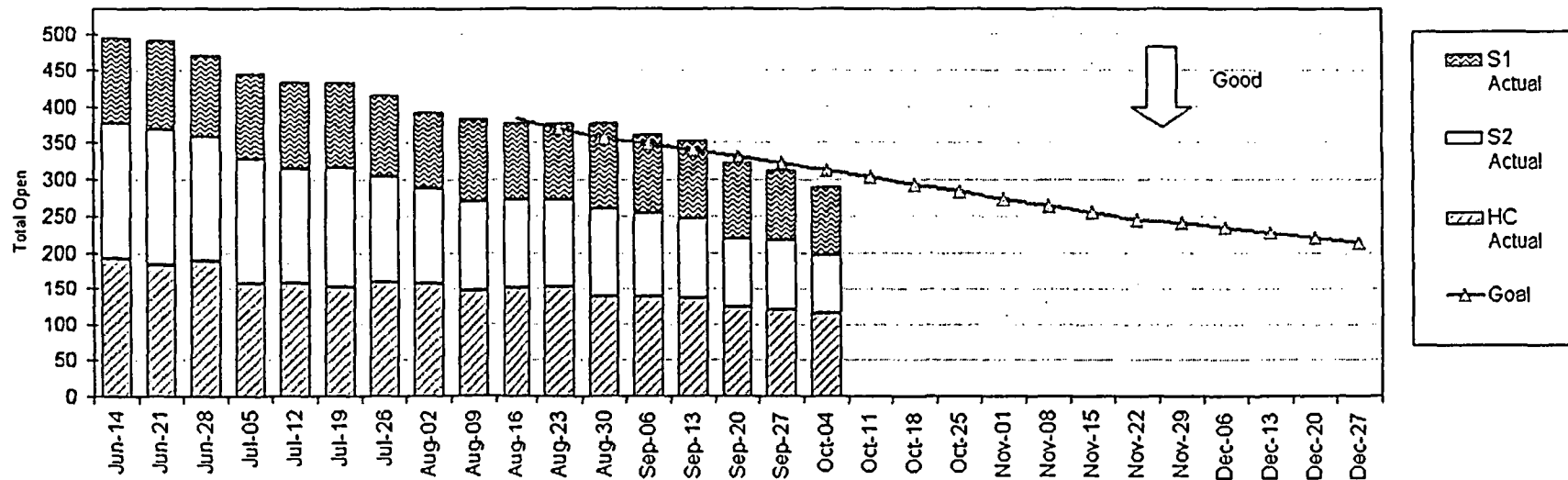
PSEG Nuclear, LLC	September 2004	Status	Definition
EXECUTIVE REVIEW BOARD (ERB) ACTION APPROVALS	Updated: Monthly		Executive Review Board (ERB) reviews proposed personnel actions to ensure no retaliation or chilling effect implications.
Chart Owner			
Safety Conscious Work Environment Manager		Goal:	No Adverse Trend
History	Intent of Metric		
New Indicator for 2004	The Executive Review Board (ERB) was established to ensure that no adverse action is taken or perceived to be taken against site personnel for raising nuclear safety issues. This Board reviews significant proposed discipline, promotions, transfers and terminations for PSEG employees and supplemental (contract) personnel.		
	<b>Analysis and Actions</b> The ERB process was initiated in April, with a follow-up letter sent to all supplemental (contractor) personnel vendors in July. As expected, initial approvals were low, however, the approval rate has significantly improved as management has become more knowledgeable and experienced in the process		




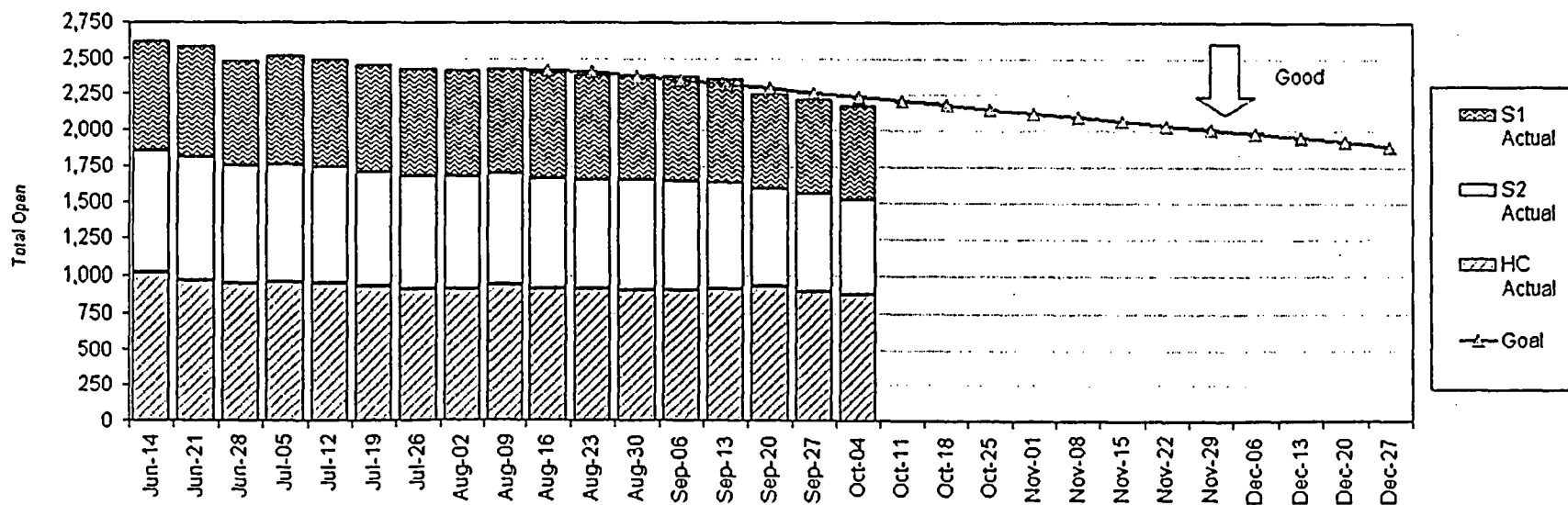





PSEG Nuclear, LLC	September 2004	Status	Definition
ONLINE CORRECTIVE MAINTENANCE BACKLOG	Updated: Monthly		The number of open online corrective maintenance work items.
Chart Owner			
Salem Maintenance Manager and Hope Creek Maintenance Manager		Goal:	215 by year end
History	Intent of Metric		
Historical Data Not Available	This metric measures our total backlog of on-line corrective maintenance. These are items that have an impact on plant operations and can be fixed while the unit is in service. Benchmarking indicates the industry median at 90, with top performance at 45 for our site. Our goal is to achieve top performance by the end of 2005.		
	Analysis and Actions		
	This indicator is on target to meet the year-end goal.		

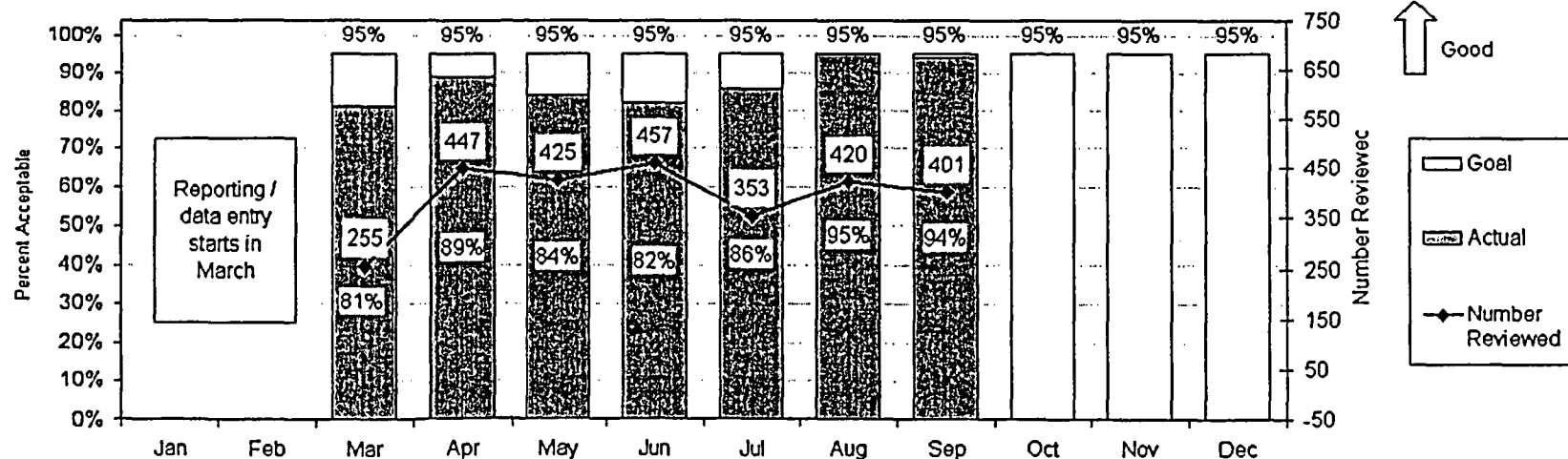


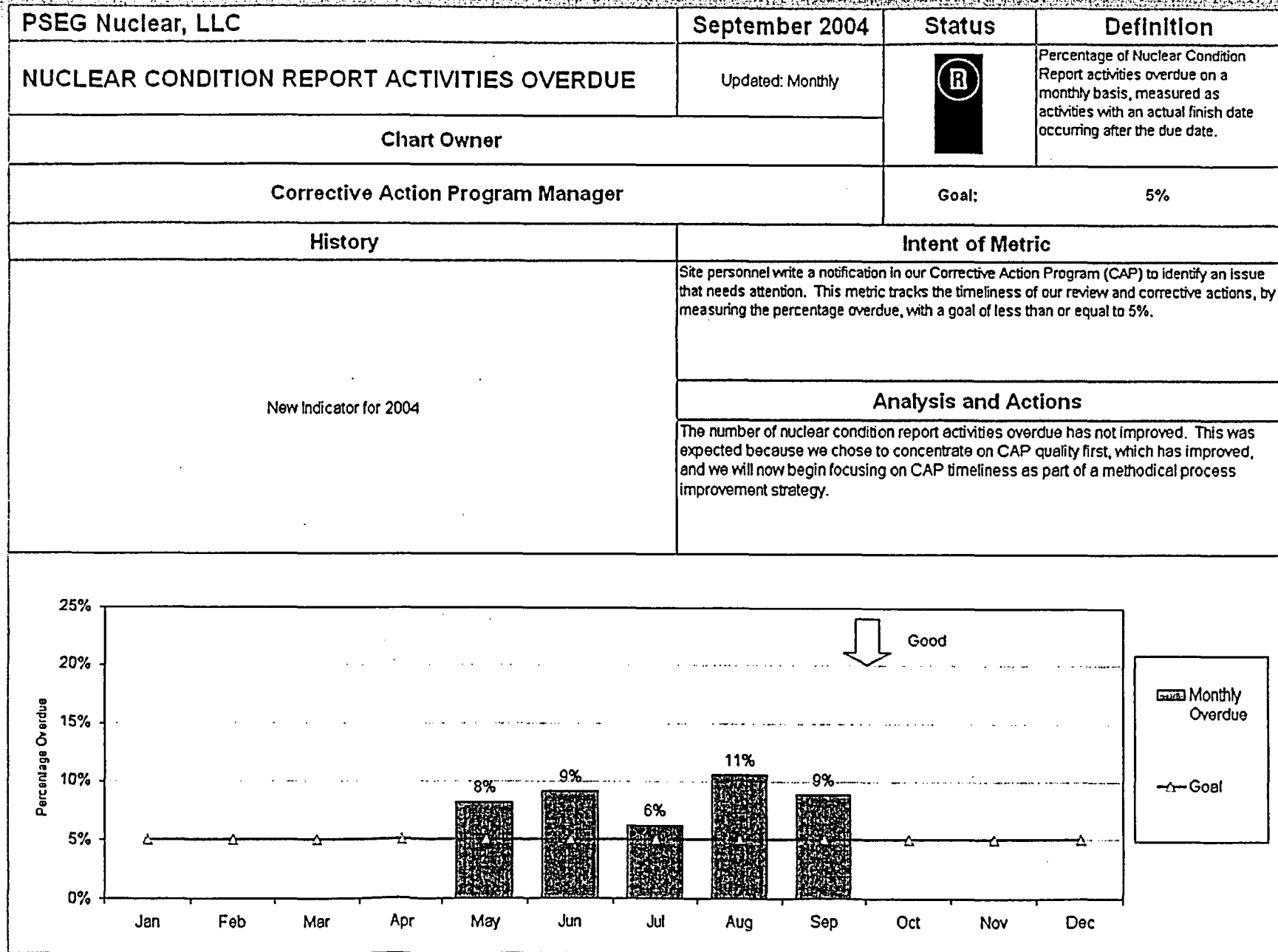
PSEG Nuclear, LLC	September 2004	Status	Definition
ONLINE ELECTIVE MAINTENANCE BACKLOG	Updated: Monthly		The number of open online elective maintenance work items.
Chart Owner			
Salem Maintenance Manager and Hope Creek Maintenance Manager		Goal:	1900 by year end
History	Intent of Metric		
Historical Data Not Available	This metric measures our total backlog of on-line elective maintenance. These are items that do NOT have an impact on plant operations and can be fixed while the unit is in service. Benchmarking indicates the industry median at 1450, with top performance at 1200 for our site. Our goal is to achieve top performance by the end of 2005.		
	Analysis and Actions		
	This indicator is on target to meet the year-end goal.		




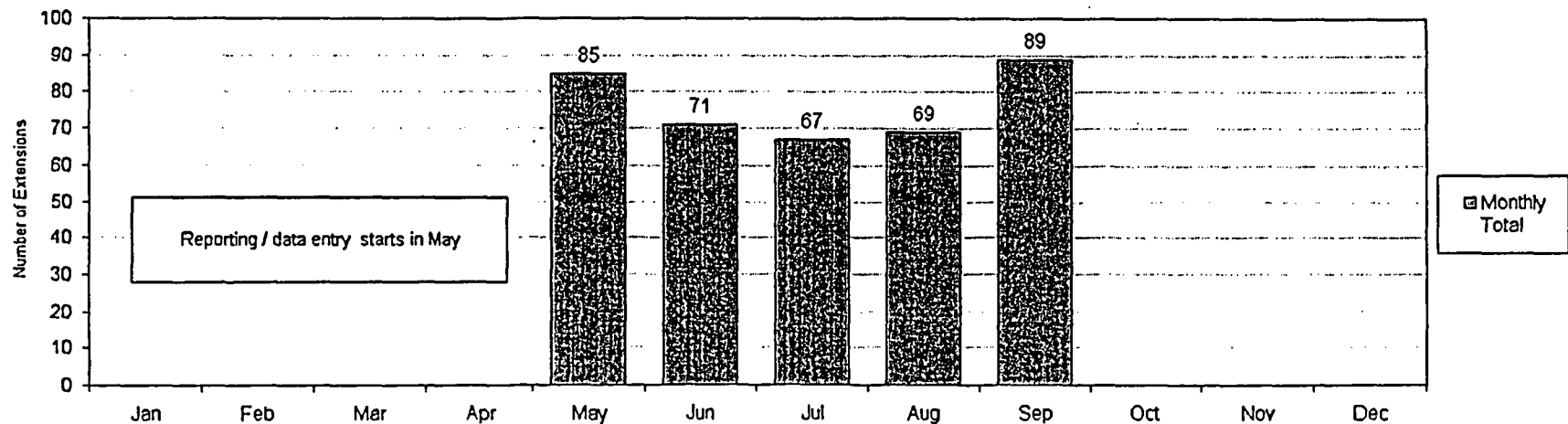


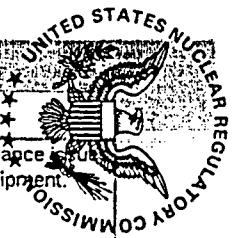
PSEG Nuclear, LLC	September 2004	Status	Definition
CORRECTIVE ACTION PROBLEM RESOLUTION	Updated: Monthly		The percent of corrective action closures determined to be acceptable by Corrective Action Closure Board review, based on the problem resolution criteria. The performance indicator is a monthly value.
Chart Owner			
Corrective Action Program Manager		Goal:	95%
History		Intent of Metric	
New Indicator for 2004		Site personnel write a notification in our Corrective Action Program (CAP) to identify an issue that needs attention. This metric tracks the quality of the corrective actions that resulted with a goal of greater than or equal to 95% Closure Board acceptance rate, meaning the correct actions resulted from the notification. Items that are not accepted by the Board are not closed until the issue is reworked and the Board approves.	
		Analysis and Actions	
		Improvement has been achieved in the quality and completeness of corrective action closures. This Indicator is trending to achieve the 95% acceptance goal.	







PSEG Nuclear, LLC	September 2004	Status	Definition
OPEN NUCLEAR CONDITION REPORT EVALUATIONS WITH DUE DATE EXTENSIONS	Updated: Monthly		The number of due date extensions approved for open Nuclear Condition Report evaluations.
Chart Owner			
Corrective Action Program Manager		Goal:	No Adverse Trend
History	Intent of Metric		
New Indicator for 2004	Site personnel write a notification in our Corrective Action Program (CAP) to identify an issue that needs attention. This metric looks at the timeliness of our review and corrective actions by tracking the number that have a due date extension, which is allowed by our process. By tracking those that are extended, we expect to see an improvement trend in overall timeliness.		
	Analysis and Actions		
	The trend for this indicator has not improved. This was expected because we chose to concentrate on CAP quality first, which has improved, and we will now begin focusing on CAP timeliness as part of a methodical process improvement strategy.		



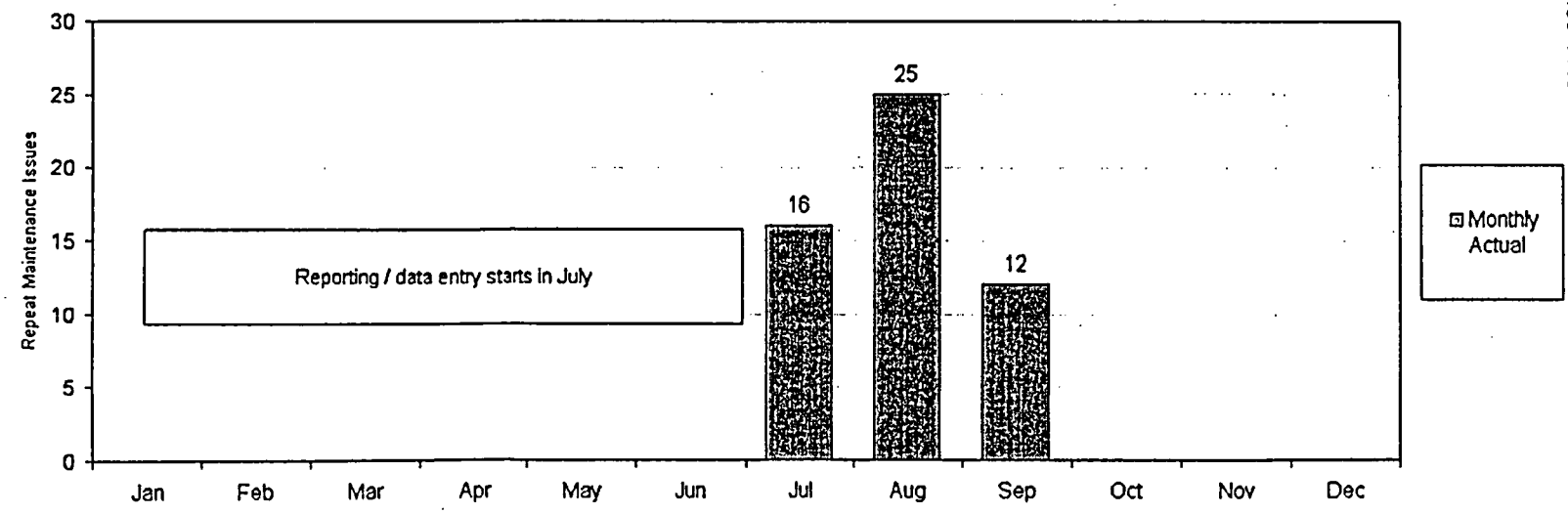


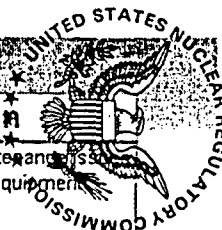
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NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

PSEG Nuclear, LLC	September 2004	Status	Definition
SALEM UNIT 1 REPEAT MAINTENANCE ISSUES	Updated: Monthly		The number of repeat maintenance issues identified on safety related equipment.
Chart Owner			
Corrective Action Program Manager		Goal:	No Adverse Trend
History	Intent of Metric		
New Indicator for 2004	This metric monitors the number of issues that were not fixed correctly the first time on safety-related equipment. We track items that have been fixed and need to be reworked within twelve months. This is a new metric to ensure we see a reduction as our corrective action program improves.		
	Analysis and Actions		
	Review of the data for the past quarter does not indicate an adverse trend. Analysis of the specific component challenges reported as repeat maintenance indicates that valve issue is the largest contributor. A review will be performed and corrective actions will be issued if required.		

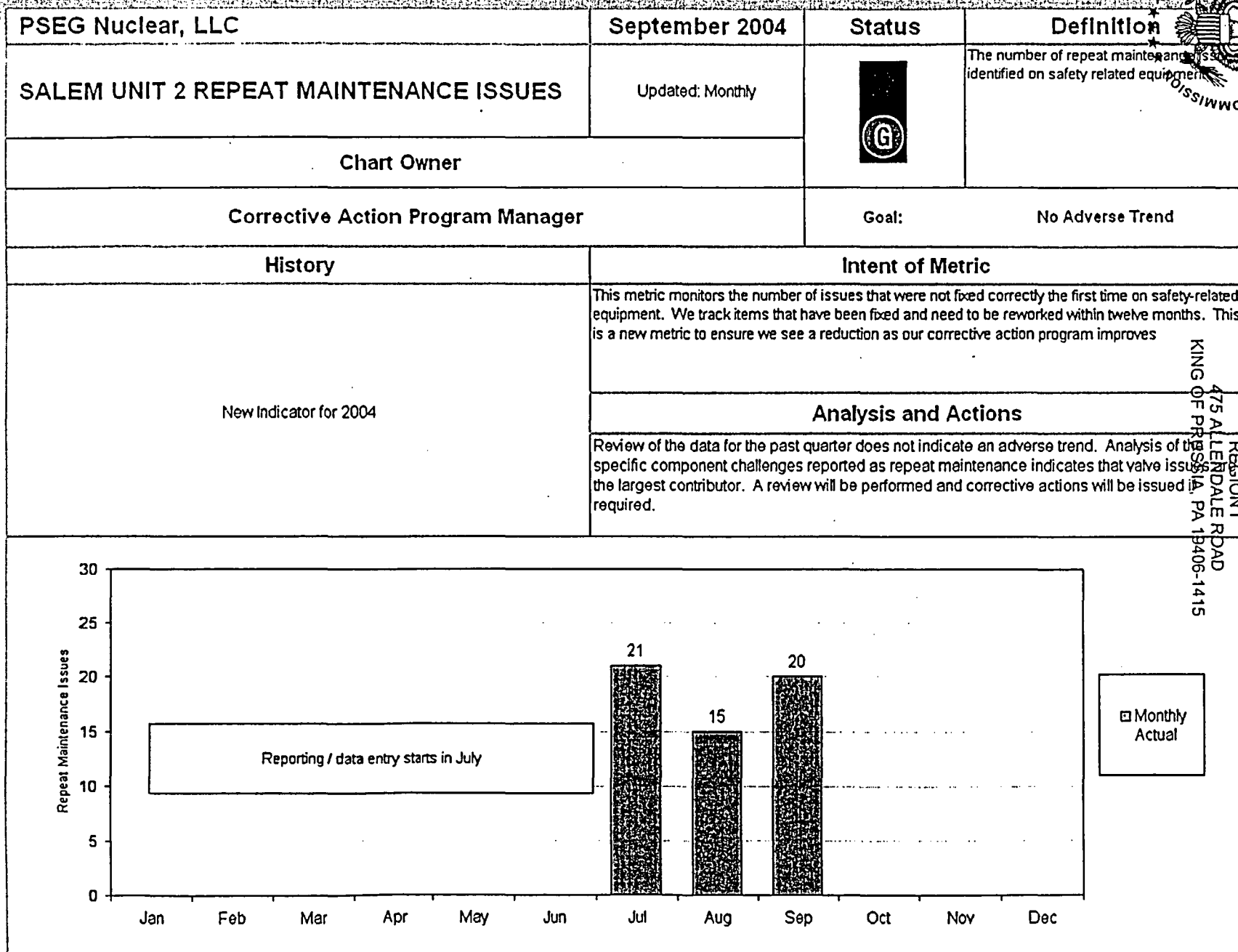


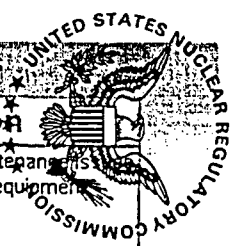
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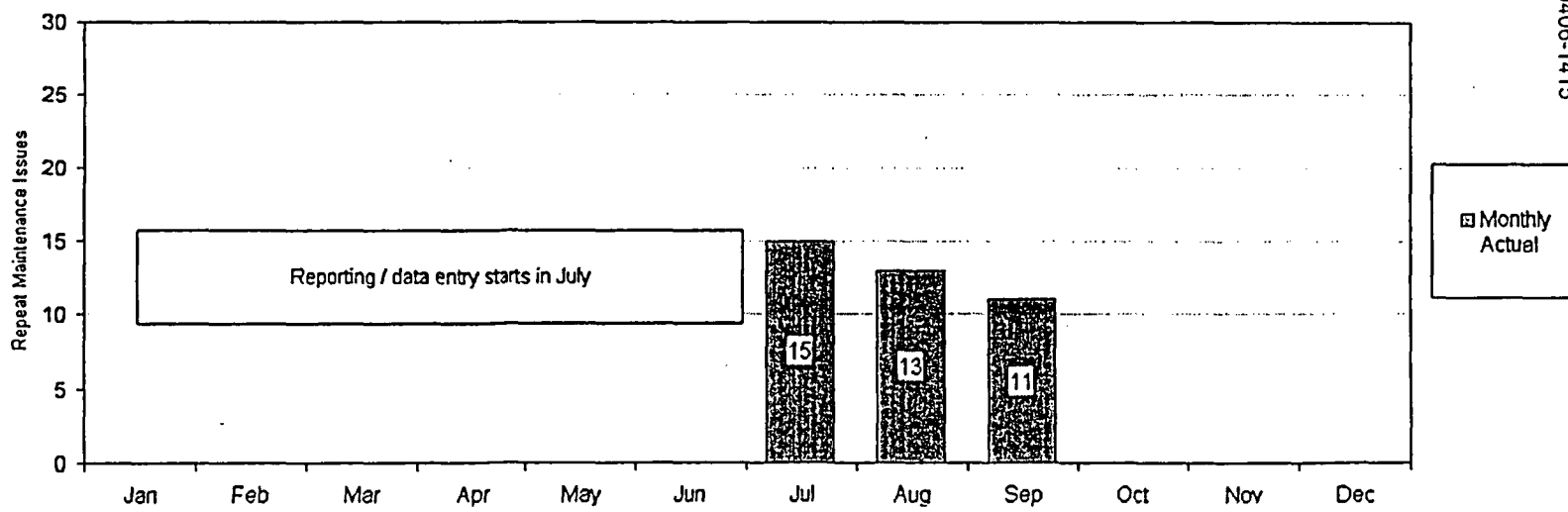
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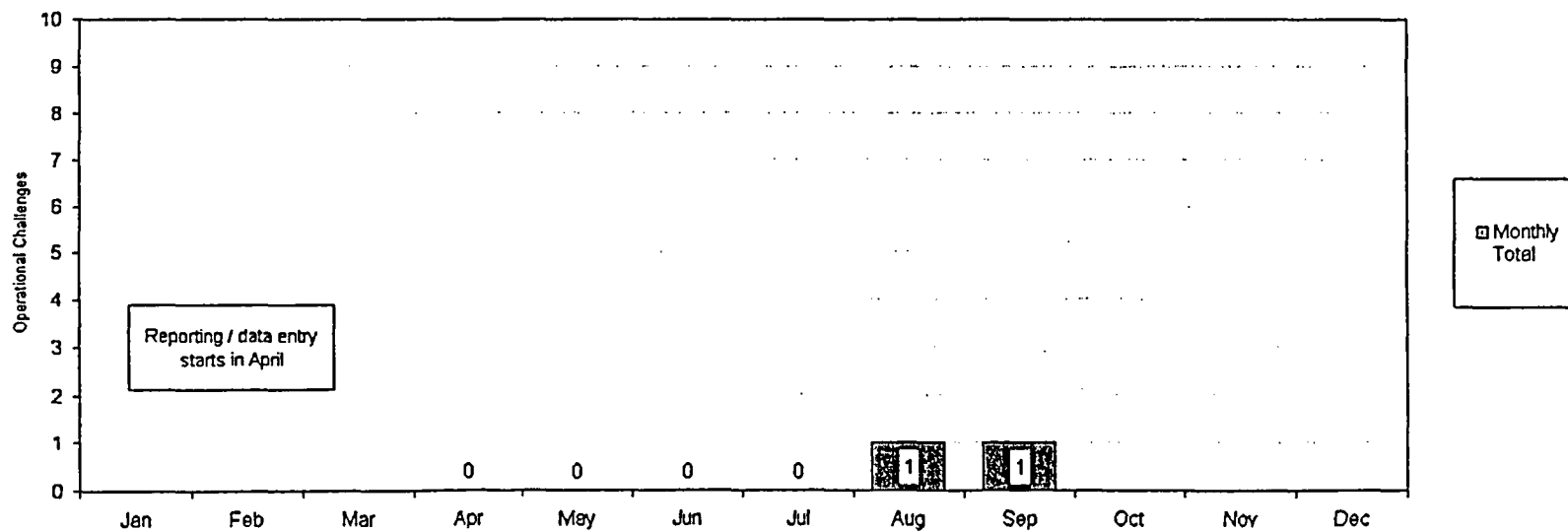



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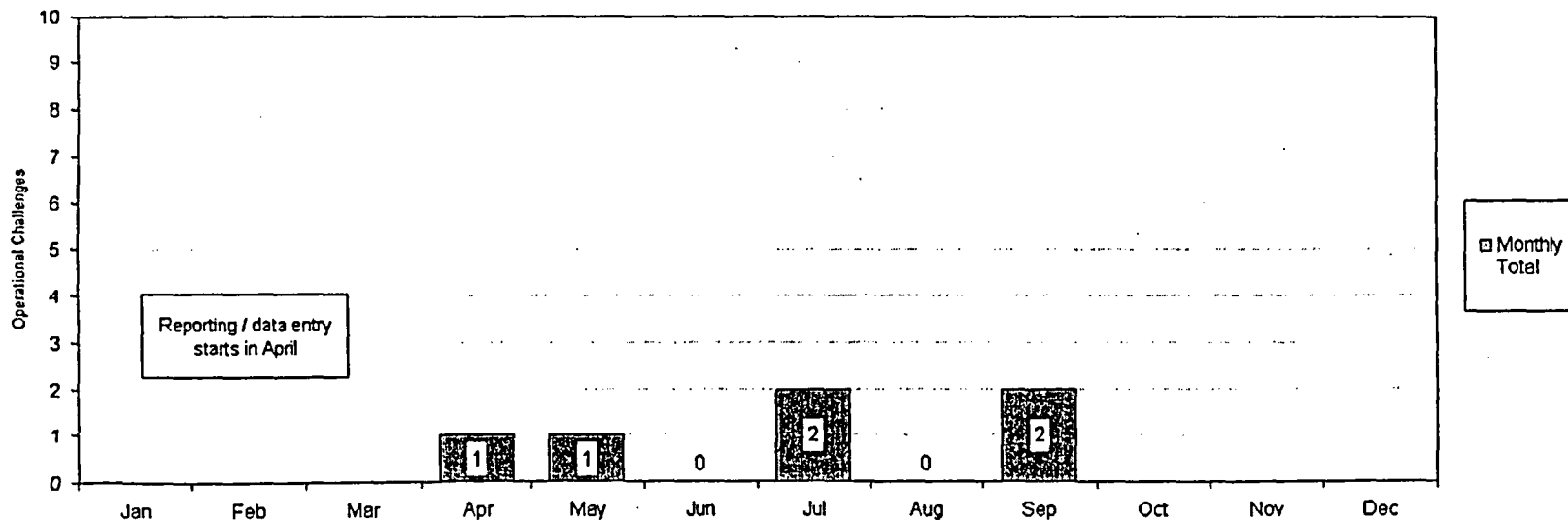
PSEG Nuclear, LLC	September 2004	Status	Definition
HOPE CREEK REPEAT MAINTENANCE ISSUES	Updated: Monthly		The number of repeat maintenance issues identified on safety related equipment
Chart Owner			
Corrective Action Program Manager		Goal:	No Adverse Trend
History	Intent of Metric		
New Indicator for 2004	This metric monitors the number of issues that were not fixed correctly the first time on safety-related equipment. We track items that have been fixed and need to be reworked within twelve months. This is a new metric to ensure we see a reduction as our corrective action program improves		
	Analysis and Actions		
	Review of the data for the past quarter does not indicate an adverse trend. Analysis of the specific component challenges reported as repeat maintenance indicates no specific component trends evident.		




PSEG Nuclear, LLC	September 2004	Status	Definition
SALEM UNIT 1 OPERATIONAL CHALLENGES	Updated: Monthly		The number of plant operational issues that warrant implementation of the Operational Challenges Response Team.
Chart Owner			
Salem Plant Manager		Goal:	No Adverse Trend
History	Intent of Metric		
New Indicator for 2004	We established a procedure to allow our operating crews to request additional assistance to address emergent issues. These are called "Operational Challenges". This metric measures the number of times each month our operators engage this assistance. Our goal is to minimize the challenges to our operating crews. By tracking and reviewing the challenges, we can investigate common causes and potential trends.		
	Analysis and Actions		
	Two operational challenges were experienced year to date. The first involved a challenge to performance of station battery testing within the required frequency. The second challenge was common to both Salem Units 1 and 2 and consisted of reconfiguration of the control room air conditioning system. In both cases the events were reviewed and appropriate corrective actions were taken. No adverse trends were identified.		

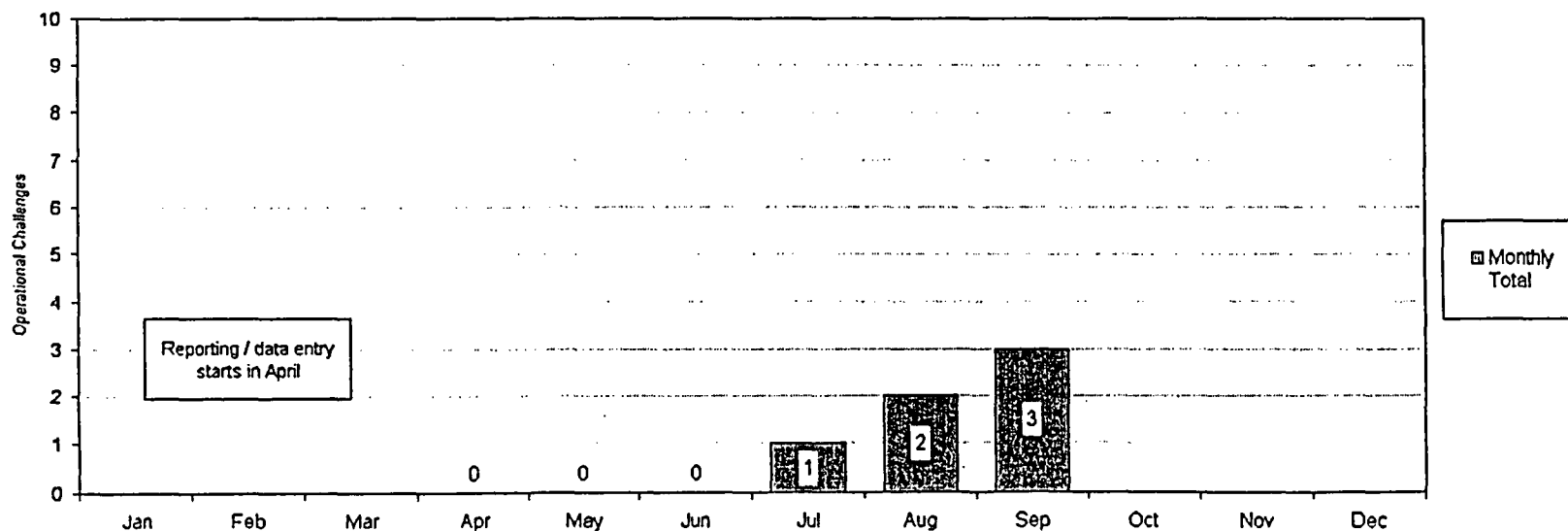



PSEG Nuclear, LLC	September 2004	Status	Definition
SALEM UNIT 2 OPERATIONAL CHALLENGES	Updated: Monthly		The number of plant operational issues that warrant implementation of the Operational Challenges Response Team.
Chart Owner			
Salem Plant Manager		Goal:	No Adverse Trend
History	Intent of Metric		
New Indicator for 2004	We established a procedure to allow our operating crews to request additional assistance to address emergent issues. These are called "Operational Challenges". This metric measures the number of times each month our operators engage this assistance. Our goal is to minimize the challenges to our operating crews. By tracking and reviewing the challenges, we can investigate common causes and potential trends.		
	Analysis and Actions		
	Six operational challenges were experienced year to date. Equipment issues caused four of the challenges and were corrected by repairs and or design improvements. The fifth challenge involved the cleanup of chemical residue. The leak was eliminated and residue removed. The final challenge was common to both Salem Units 1 and 2 and consisted of reconfiguration of the control room air conditioning system. In all cases, the events were reviewed and appropriate corrective actions were taken. No adverse trends were identified.		

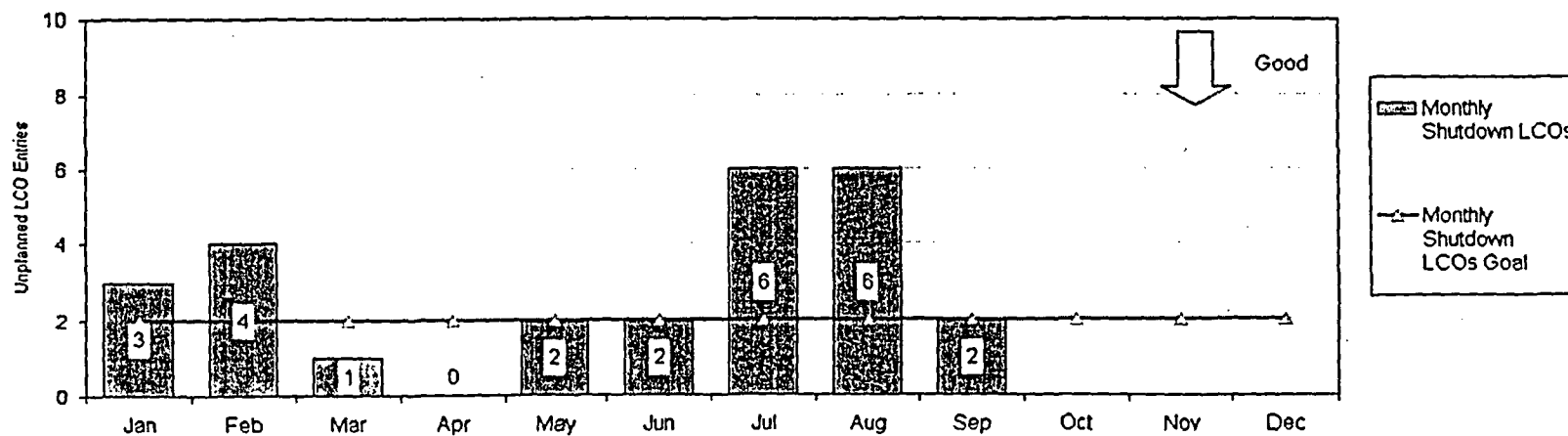





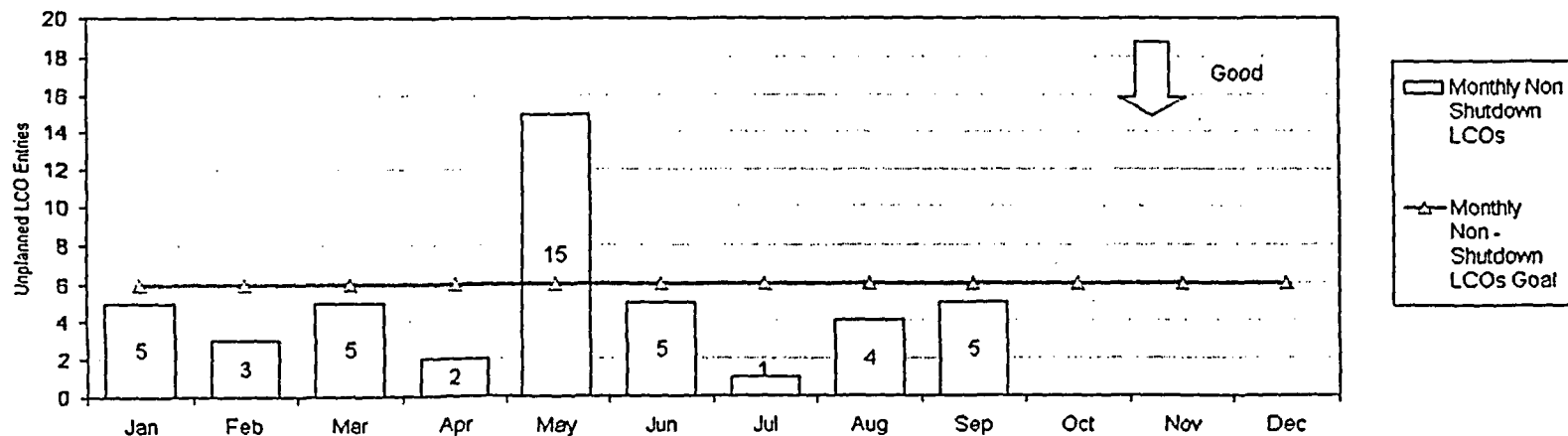
PSEG Nuclear, LLC	September 2004	Status	Definition
HOPE CREEK OPERATIONAL CHALLENGES	Updated: Monthly		The number of plant operational issues that warrant implementation of the Operational Challenges Response Team.
Chart Owner			
Hope Creek Plant Manager	Goal:		
History	Intent of Metric		
New Indicator for 2004	We established a procedure to allow our operating crews to request additional assistance to address emergent issues. These are called "Operational Challenges". This metric measures the number of times each month our operators engage this assistance. Our goal is to minimize the challenges to our operating crews. By tracking and reviewing the challenges, we can investigate common causes and potential trends.		
	Analysis and Actions		
	Six operational challenges were experienced year to date. Four challenges involved equipment deficiencies that were corrected by replacement or repair. One challenge involved instability of the transmission line, and the remaining challenge was due to diesel maintenance. Although a trend has been established, the events were reviewed and appropriate corrective actions were taken.		




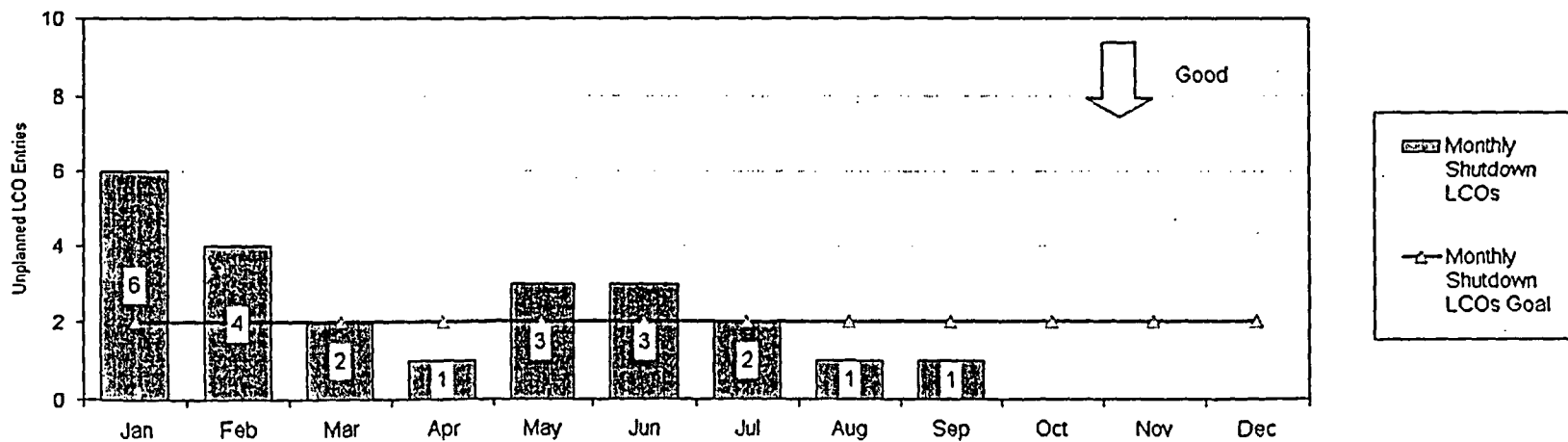
PSEG Nuclear, LLC	September 2004	Status	Definition
SALEM UNIT 1 UNPLANNED SHUTDOWN LIMITING CONDITION OF OPERATION (LCO) ENTRIES	Updated: Monthly		The number of Unplanned Shutdown Technical Specification Limiting Conditions of Operation (LCOs) entered during the month.
Chart Owner			
Salem System Engineering Manager		Goal:	2 per Month
History	Intent of Metric		
Historical Data Not Available	Nuclear plants are operated under a fundamental set of rules from the Nuclear Regulatory Commission (NRC) called Technical Specifications. Certain rules require operators to enter a shutdown LCO, meaning the equipment must be fixed in a defined period of time, or unit shutdown is required. This metric measures the unplanned entries made at Salem Unit 1, compared to the expected number at top performing nuclear units (less than or equal to 2/month).		
	Analysis and Actions		
	During the third quarter, there were fourteen shutdown limiting conditions of operation, including: five caused by issues associated with the containment fan cooling units (CFCUs) (factors that will be eliminated by the CFCU closed-loop cooling project); two associated with batteries; and seven other associated with maintenance.		

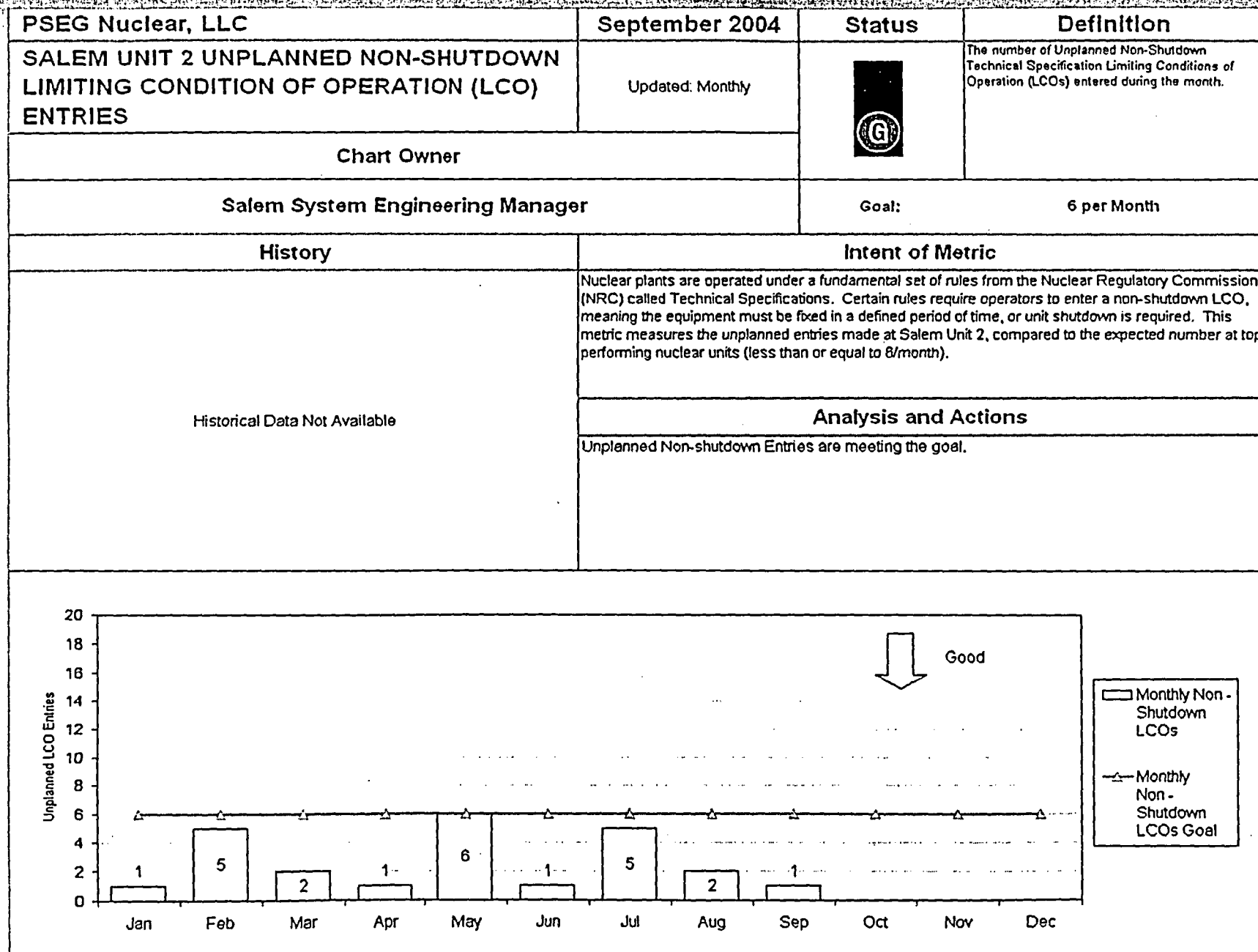



PSEG Nuclear, LLC	September 2004	Status	Definition
SALEM UNIT 1 UNPLANNED NON-SHUTDOWN LIMITING CONDITION OF OPERATION (LCO) ENTRIES	Updated: Monthly		The number of Unplanned Non-Shutdown Technical Specification Limiting Conditions of Operation (LCOs) entered during the month.
Chart Owner			
Salem System Engineering Manager		Goal:	6 per Month
History	Intent of Metric		
Historical Data Not Available	Nuclear plants are operated under a fundamental set of rules from the Nuclear Regulatory Commission (NRC) called Technical Specifications. Certain rules require operators to enter a non-shutdown LCO, meaning the equipment must be fixed in a defined period of time, or unit shutdown is required. This metric measures the unplanned entries made at Salem Unit 1, compared to the expected number at top performing nuclear units (less than or equal to 6/month).		
	Analysis and Actions		
	The unfavorable performance in May was primarily due to monitoring and instrumentation issues. A multi-year capital improvement project is underway to upgrade the monitors. Nuclear instrumentation issues were addressed during the refuel outage.		

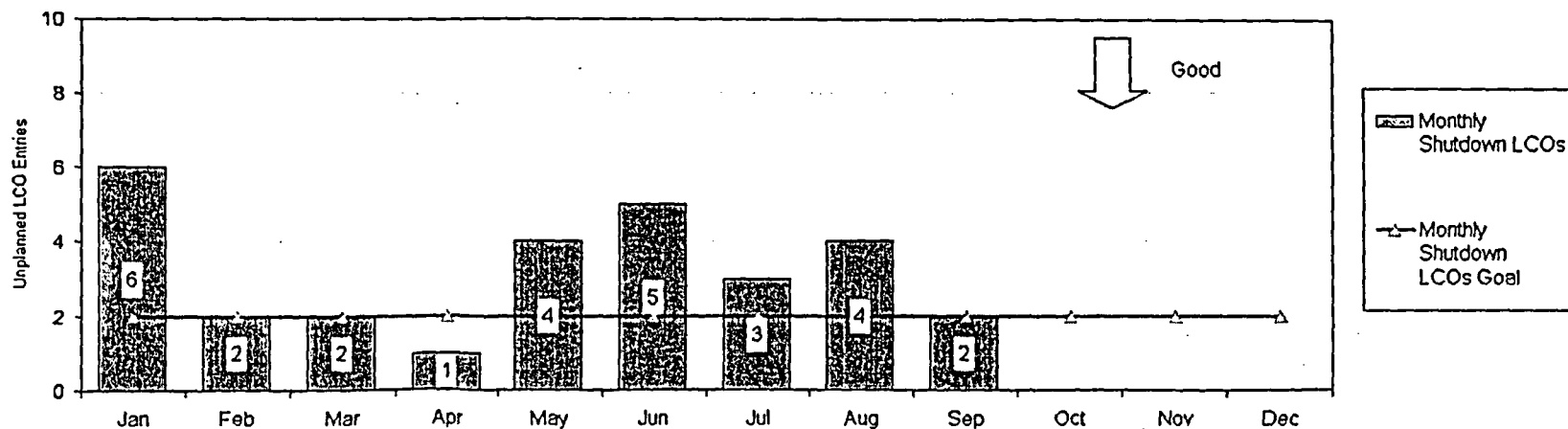



PSEG Nuclear, LLC	September 2004	Status	Definition
SALEM UNIT 2 UNPLANNED SHUTDOWN LIMITING CONDITION OF OPERATION (LCO) ENTRIES	Updated: Monthly		The number of Unplanned Shutdown Technical Specification Limiting Conditions of Operation (LCOs) entered during the month.
Chart Owner			
Salem System Engineering Manager		Goal:	2 per Month
History	Intent of Metric		
Historical Data Not Available	Nuclear plants are operated under a fundamental set of rules from the Nuclear Regulatory Commission (NRC) called Technical Specifications. Certain rules require operators to enter a shutdown LCO, meaning the equipment must be fixed in a defined period of time, or unit shutdown is required. This metric measures the unplanned entries made at Salem Unit 2, compared to the expected number at top performing nuclear units (less than or equal to 2/month).		
	Analysis and Actions		
	Performance outlined in the third quarter has met monthly goals.		

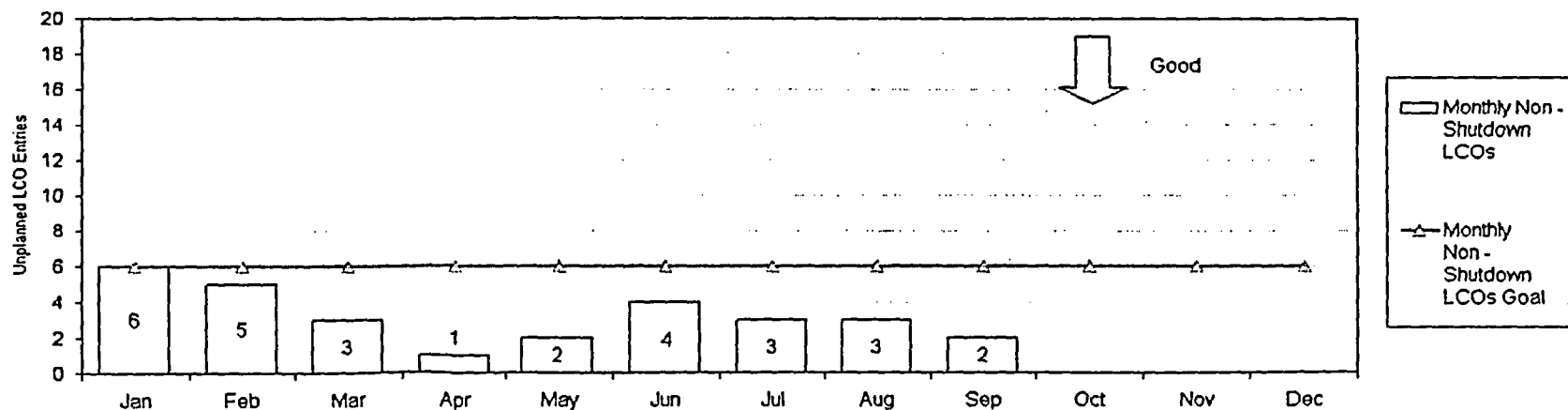


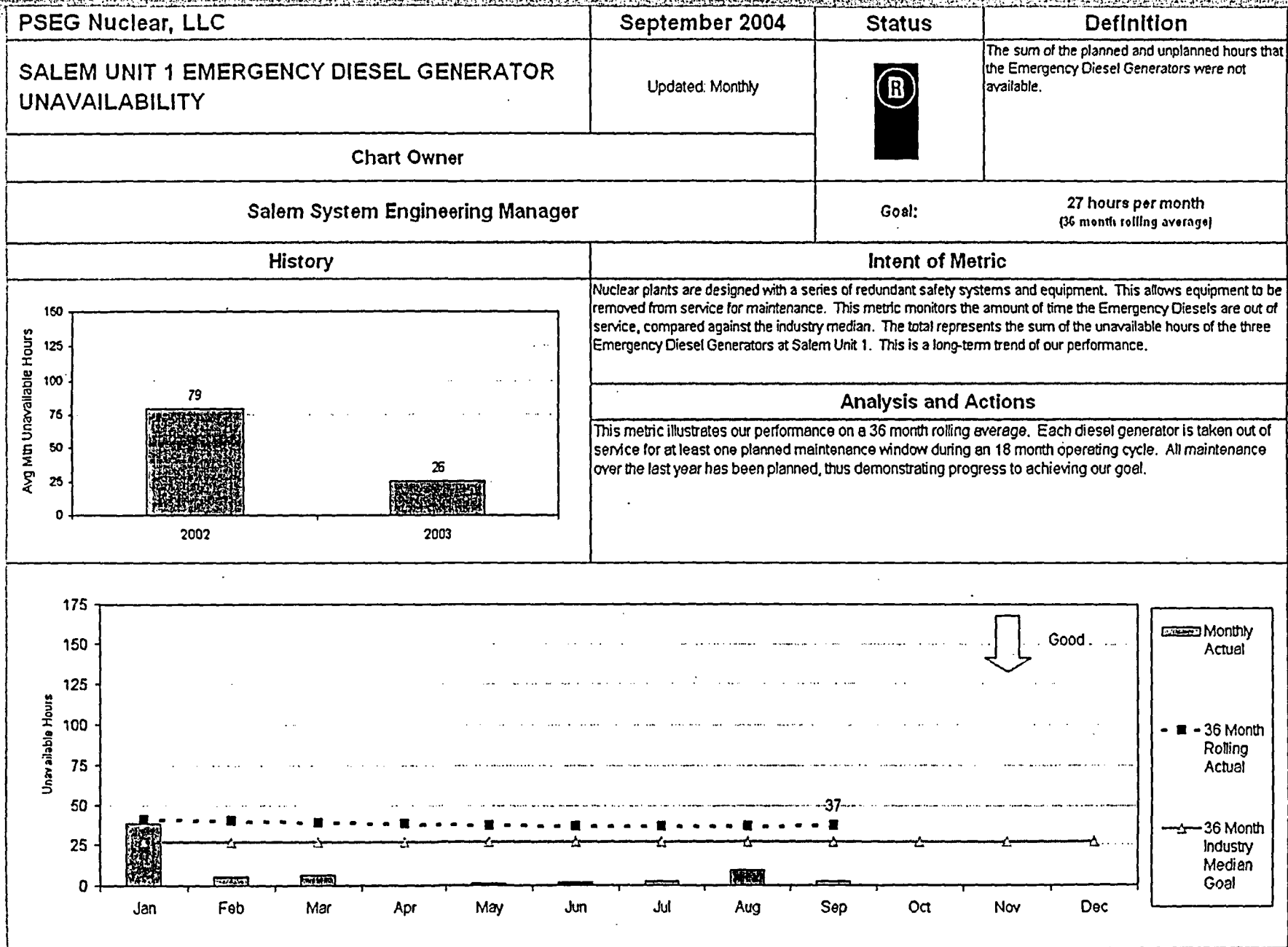


PSEG Nuclear, LLC	September 2004	Status	Definition
HOPE CREEK UNPLANNED SHUTDOWN LIMITING CONDITION OF OPERATION (LCO) ENTRIES	Updated: Monthly		The number of Unplanned Shutdown Technical Specification Limiting Conditions of Operation (LCOs) entered during the month.
Chart Owner			
Hope Creek System Engineering Manager		Goal:	2 per Month
History	Intent of Metric		
Historical Data Not Available	Nuclear plants are operated under a fundamental set of rules from the Nuclear Regulatory Commission (NRC) called Technical Specifications. Certain rules require operators to enter a shutdown LCO, meaning the equipment must be fixed in a defined period of time, or unit shutdown is required. This metric measures the unplanned entries made at Hope Creek, compared to the expected number at top performing nuclear units (less than or equal to 2/month).		
	Analysis and Actions		
	Challenges with the service water system were the primary cause of this metric being above goal. A multi-year capital improvement project for the service water system is being developed.		

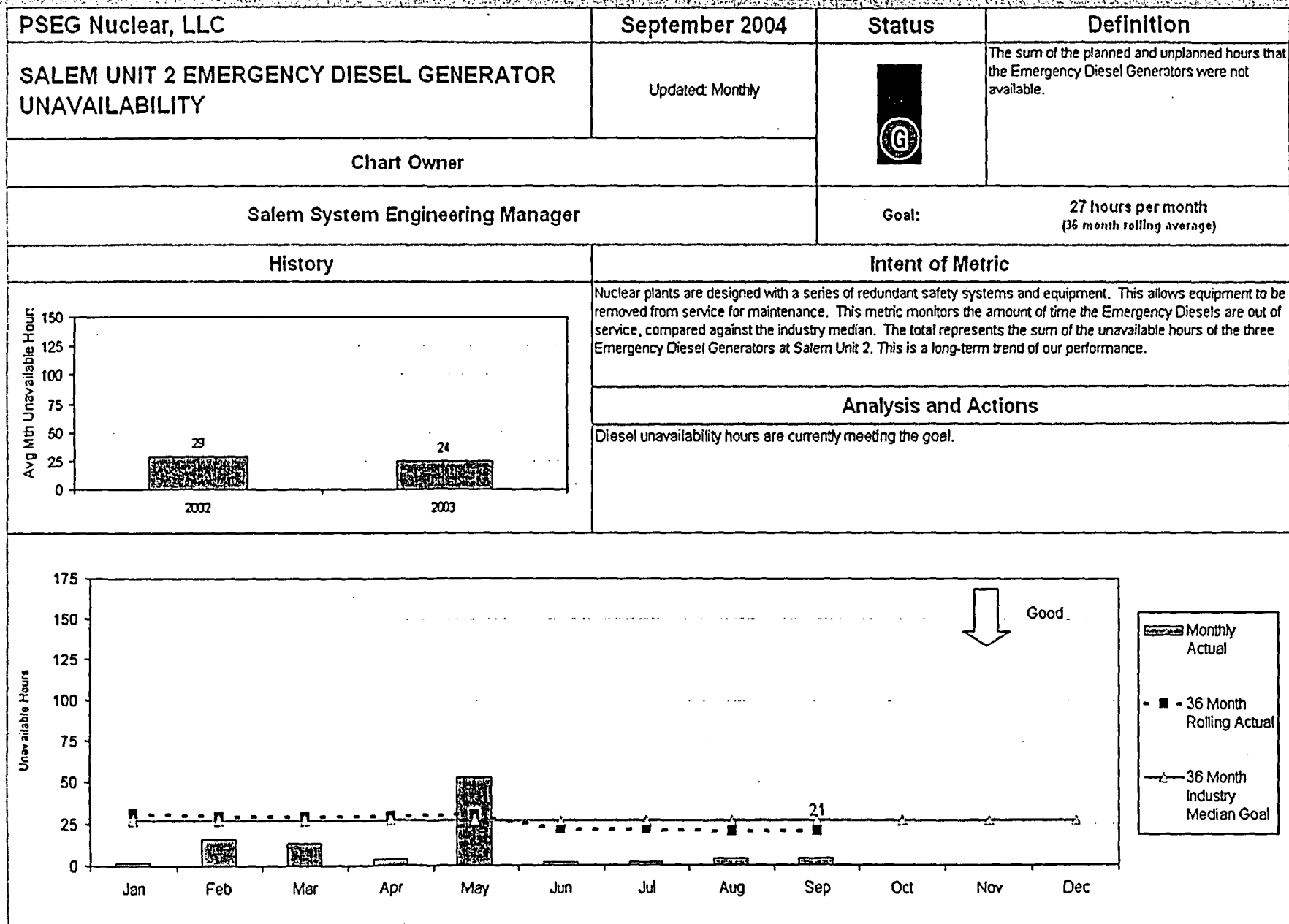



PSEG Nuclear, LLC	September 2004	Status	Definition
HOPE CREEK UNPLANNED NON-SHUTDOWN LIMITING CONDITION OF OPERATION (LCO) ENTRIES	Updated: Monthly		The number of Unplanned Non-Shutdown Technical Specification Limiting Conditions of Operation (LCOs) entered during the month.
Chart Owner			
Hope Creek System Engineering Manager		Goal:	6 per Month
History	Intent of Metric		
Historical Data Not Available	Nuclear plants are operated under a fundamental set of rules from the Nuclear Regulatory Commission (NRC) called Technical Specifications. Certain rules require operators to enter a non-shutdown LCO, meaning the equipment must be fixed in a defined period of time, or unit shutdown is required. This metric measures the unplanned entries made at Hope Creek, compared to the expected number at top performing nuclear units (less than or equal to 6/month).		
	Analysis and Actions		
	Unplanned Non-shutdown Entries are meeting the goal.		



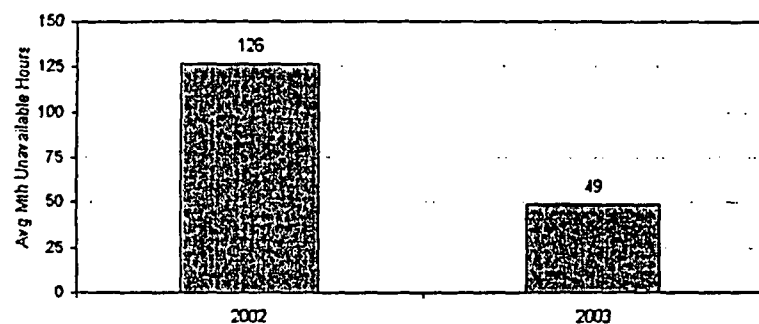






PSEG Nuclear, LLC	September 2004	Status	Definition
HOPE CREEK EMERGENCY DIESEL GENERATOR UNAVAILABILITY	Updated: Monthly		The sum of the planned and unplanned hours that the Emergency Diesel Generators were not available.
Chart Owner			
Hope Creek System Engineering Manager		Goal:	36 hours per month (36 month rolling average)

#### History



#### Intent of Metric

Nuclear plants are designed with a series of redundant safety systems and equipment. This allows equipment to be removed from service for maintenance. This metric monitors the amount of time the Emergency Diesels are out of service, compared against the industry median. The total represents the sum of the unavailable hours of the four Emergency Diesel Generators at Hope Creek. This is a long-term trend of our performance.

#### Analysis and Actions

This metric is tracking above goal due to three unplanned maintenance windows in 2002. All maintenance performed this year, with the exception of thirty hours, has been planned maintenance designed to improve system reliability.

