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DATE OF MEETING

3/14/02

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

Docket Number(s)

50-247

Plant/Facility Name

Indian Point 2

TAC Number(s) (if available)

Reference Meeting Notice

02-008

Purpose of Meeting  
(copy from meeting notice)

Conduct an end-of-cycle review meeting to review Entergy's performance in operating the IP-2 facility over the period 4/1/01 - 12/31/2001.

NAME OF PERSON WHO ISSUED MEETING NOTICE

Peter W. Eselgroth

TITLE

Chief, Projects Branch 2

OFFICE

Region I

DIVISION

Division of Reactor Projects

BRANCH

Projects Branch 4

Distribution of this form and attachments:

Docket File/Central File

PUBLIC

# **INDIAN POINT 2 ANNUAL ASSESSMENT MEETING**

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**PEEKSKILL, NEW YORK - MARCH 14, 2002**



***U.S. NUCLEAR REGULATORY COMMISSION - REGION I  
KING OF PRUSSIA, PA***

# AGENDA

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- **INTRODUCTION**
- **NRC RESPONSE TO 9/11**
- **BACKGROUND**
  - REACTOR OVERSIGHT PROGRAM
  - NRC REGULATORY APPROACH
- **ANNUAL ASSESSMENT LETTER**
  - SUMMARY (APRIL - DECEMBER 2001)
- **NRC CONTINUED OVERSIGHT**
- **LICENSEE PRESENTATION**
- **NRC AVAILABLE TO ADDRESS QUESTIONS FROM THE PUBLIC**

# NRC Response to 9/11

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- **Highest Level of Security Maintained**
- **Comprehensive Review of Security**
- **Closely Coordinated Response With:**
  - **Our Licensees**
  - **FBI**
  - **Military, State, and Local Agencies**
  - **Intelligence Communities**
- **Issued Security Advisories**
  - **Increased Patrols**
  - **Augmented Security Capabilities**
  - **Added Barriers and Posts**
  - **More Limited Access**
  - **Enhanced Security Awareness**
- **Issued Order on Security**
- **NRC Monitoring Enhanced Security**

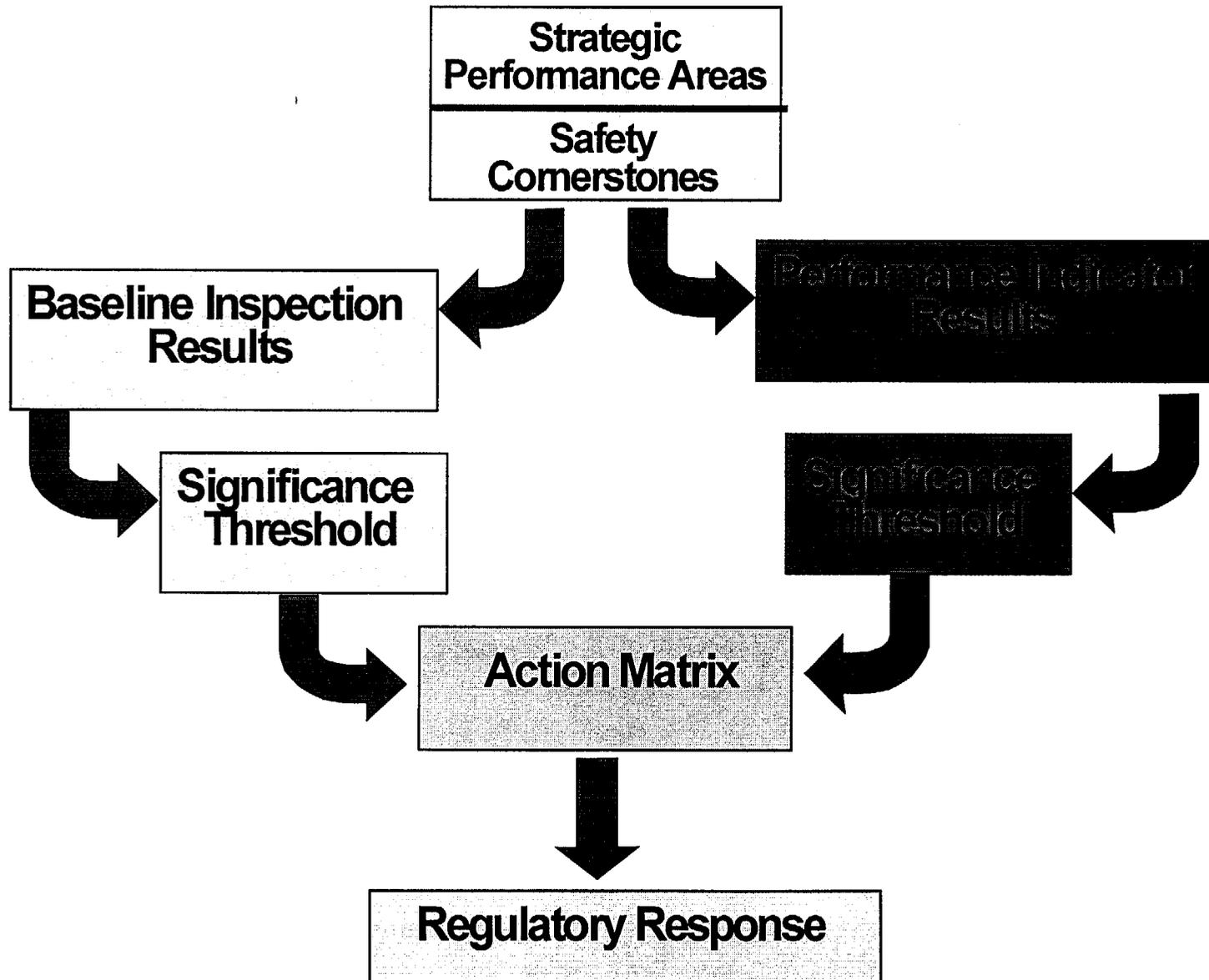
# **REACTOR OVERSIGHT PROGRAM**

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- **PROVIDES ASSURANCE PLANTS ARE OPERATING SAFELY AND IN ACCORDANCE WITH THE REGULATIONS**
- **RISK INFORMED PROCESS**
- **USES OBJECTIVE PERFORMANCE INDICATORS**
- **USES INSPECTIONS FOCUSED ON KEY SAFETY AREAS**
- **DEFINES EXPECTED NRC & LICENSEE ACTIONS**

# Reactor Oversight Process

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# PERFORMANCE INDICATORS & INSPECTION FINDINGS

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## DEFINITION

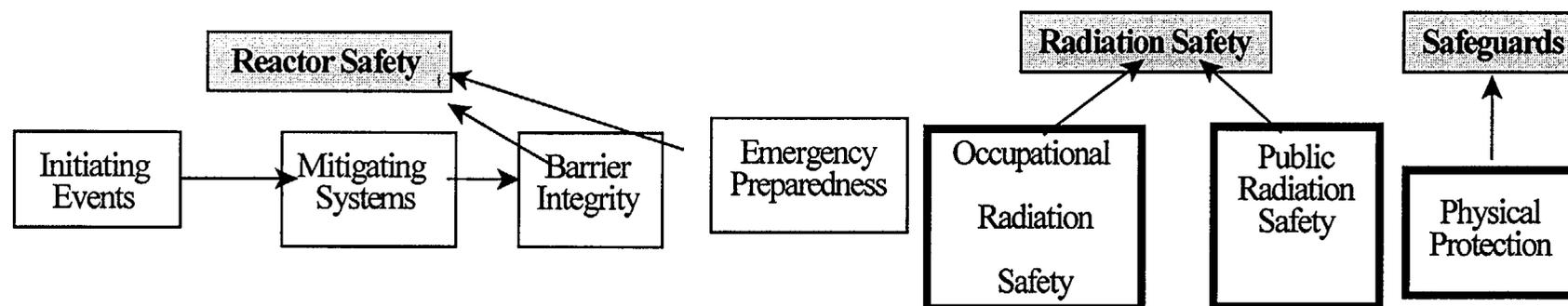
### ■ PERFORMANCE INDICATORS

- ▶ GREEN: NRC BASELINE INSPECTION
- ▶ WHITE: MAY RESULT IN INCREASED NRC OVERSIGHT
- ▶ YELLOW: MINIMAL REDUCTION IN SAFETY MARGIN AND REQUIRES ADDITIONAL NRC OVERSIGHT
- ▶ RED: REDUCTION IN SAFETY, BUT ADEQUATE PROTECTION TO PUBLIC HEALTH AND SAFETY IS MAINTAINED; FOCUSED NRC OVERSIGHT

### ■ INSPECTION FINDINGS

- ▶ GREEN: VERY LOW SAFETY ISSUE
- ▶ WHITE: LOW TO MODERATE SAFETY ISSUE
- ▶ YELLOW: SUBSTANTIAL SAFETY ISSUE
- ▶ RED: HIGH SAFETY ISSUE

# Inspection Areas



## Inspection Procedures

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

# National Summary of Plant Performance

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End of Calendar Year 2001

Licensee Response	74
Regulatory Response	24
Degraded Cornerstone	4
Multiple/Repetitive Degraded Cornerstone	1
Unacceptable	0
<hr/>	
Total Plants	103

# National Summary

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## ■ Performance Indicator Results 4th Qtr Calendar Yr 2001

▶ Green	1834
▶ White	8
▶ Yellow	0
▶ Red:	0

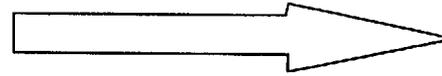
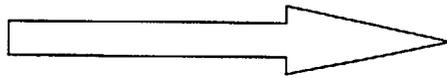
## ■ Total Inspection Findings (April 2001 - December 2001)

▶ Green	660
▶ White	23
▶ Yellow	2
▶ Red	0

# Action Matrix Concept

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

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions

# NRC ACTION MATRIX

		Licensee Response Column	Regulatory Response Column	Degraded Cornerstone Column	Multiple/ Repetitive Degraded Cornerstone Column	Unacceptable Performance Column
<b>RESULTS</b>		All Assessment Inputs (Performance Indicators (PIs) and Inspection Findings) Green; Cornerstone Objectives Fully Met	One or Two White Inputs (in different cornerstones) in a Strategic Performance Area; Cornerstone Objectives Fully Met	One Degraded Cornerstone (2 White Inputs or 1 Yellow Input) or any 3 White Inputs in a Strategic Performance Area; Cornerstone Objectives Met with Minimal Reduction in Safety Margin	Repetitive Degraded Cornerstone, Multiple Degraded Cornerstones, Multiple Yellow Inputs, or 1 Red Input; Cornerstone Objectives Met with Longstanding Issues or Significant Reduction in Safety Margin	Overall Unacceptable Performance; Plant Not Permitted to Operate Within this Band, Unacceptable Margin to Safety
<b>RESPONSE</b>	Regulatory Performance Meeting	None	Branch Chief (BC) or Division Director (DD) Meet with Licensee	DD or Regional Administrator (RA) Meet with Licensee	RA (or EDO) Meet with Senior Licensee Management	Commission meeting with Senior Licensee Management
	Licensee Action	Licensee Corrective Action	Licensee Corrective Action with NRC Oversight	Licensee Self Assessment with NRC Oversight	Licensee Performance Improvement Plan with NRC Oversight	
	NRC Inspection	Risk-Informed Baseline Inspection Program	Baseline and supplemental inspection procedure 95001	Baseline and supplemental inspection procedure 95002	Baseline and supplemental inspection procedure 95003	
	Regulatory Actions	None	Supplemental inspection only	Supplemental inspection only	-10 CFR 2.204 DFI -10 CFR 50.54(f) Letter - CAL/Order	Order to Modify, Suspend, or Revert Licensed Activities
<b>COMMUNICATION</b>	Assessment Reports	BC or DD review/sign assessment report (w/ inspection plan)	DD review/sign assessment report (w/ inspection plan)	RA review/sign assessment report (w/ inspection plan)	RA review/sign assessment report (w/ inspection plan)  Commission Informed	
	Annual Public Meeting	SRI or BC Meet with Licensee	BC or DD Meet with Licensee	RA (or designee) Discuss Performance with Licensee	EDO (or Commission) Discuss Performance with Senior Licensee Management	Commission Meet with Senior Licensee Management
	INCREASING SAFETY SIGNIFICANCE →					

# 2001 OVERVIEW

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- **95003 INSPECTION (JANUARY - FEBRUARY)**
- **REGULATORY PERFORMANCE MEETING (APRIL)**
  - 95003 RESULTS FOLLOWUP
- **ANNUAL PERFORMANCE MEETING (JUNE)**
- **EMERGENCY PREPAREDNESS INSPECTION (JUNE)**
- **LICENSE TRANSFER FROM CONED TO ENTERGY (SEPTEMBER)**
- **OPERATOR REQUAL CREW FAILURES (OCTOBER-NOVEMBER)**
- **REGULATORY PERFORMANCE MEETING (DECEMBER)**
  - ENTERGY SELF-ASSESSMENT SUMMARY

# **IP2 OVERSIGHT PROCESS**

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- **STRUCTURED, DISCIPLINE IMPLEMENTATION OF ROP ACTION MATRIX**
- **95003 INSPECTION - FOUNDATION FOR IP2 OVERSIGHT PLAN**
- **CONSISTENT FOCUS ON FUNDAMENTAL ISSUES**
- **CLOSE OVERSIGHT BY STANDING, INTER-OFFICE TECHNICAL COORDINATION AND COMMUNICATION TEAMS**
- **OPENNESS TO EXTERNAL STAKEHOLDERS**
- **APPROPRIATE ADJUSTMENTS IN NRC ACTIVITIES**

# 95003 INSPECTION

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## ■ WEAKNESSES IN:

- ▶ DESIGN CONFIGURATION CONTROL
- ▶ HUMAN PERFORMANCE
- ▶ EQUIPMENT RELIABILITY
- ▶ EMERGENCY PREPARDNESS
- ▶ PIR/CORRECTIVE ACTIONS

“We will continue heightened oversight of IP2 until we gain confidence that your performance improvement program has substantially addressed the performance weaknesses identified in this and previous NRC inspections”

# **Indian Point 2 Inspection Activities**

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(Jan 1 - Dec 31, 2001)

- **At about 11,000 hours of inspection related activity**
- **Two resident inspectors, many times augmented**
- **13 inspections by regional inspectors**
  - ▶ Includes 3 team inspections
- **Inspection Findings**
  - ▶ 44 GREEN findings
  - ▶ 1 YELLOW finding

# **ANNUAL ASSESSMENT LETTER**

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## **SUMMARY**

- **IP2 BEING OPERATED SAFELY AND AN ACCEPTABLE MARGIN OF SAFETY EXISTS**
- **IP2 REMAINS IN MULTIPLE/REPETITIVE DEGRADED CORNERSTONE COLUMN**
- **CROSS-CUTTING ISSUES**
  - ▶ PROBLEM IDENTIFICATION & RESOLUTION
  - ▶ HUMAN PERFORMANCE
- **CONTINUED HEIGHTENED OVERSIGHT AND INSPECTION**

# NEXT STEPS

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## INSPECTIONS

- **ENERGY SELF-ASSESSMENT INSPECTION (JANUARY)**
- **OPERATOR REQUAL SUPPLEMENTAL INSPECTION (MARCH/APRIL)**
- **SUPPLEMENTAL INSPECTION (JUNE/JULY)**
  - ▶ HUMAN PERFORMANCE
  - ▶ EQUIPMENT RELIABILITY
  - ▶ DESIGN CONFIGURATION CONTROL
  - ▶ CORRECTIVE ACTION
- **SUPPLEMENTAL INSPECTION - IF NECESSARY (DECEMBER)**
- **OTHER**
  - ▶ HEAT SINK (APRIL)
  - ▶ RADIOLOGICAL EFFLUENTS (DECEMBER)
  - ▶ PROB IDENT & RESOLUTION (DECEMBER)

# NEXT STEPS

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## OVERSIGHT & ASSESSMENT

- **FUNDAMENTALS IMPROVEMENT PLAN MEETING (FEBRUARY)**
- **REVIEW PERFORMANCE IMPROVEMENT**
  - ▶ PERIODIC MANAGEMENT MEETINGS
  - ▶ REVIEW PROGRESS AGAINST PERFORMANCE IMPROVEMENT METRICS
- **CONTINUED OVERSIGHT, INCLUDING SECURITY**
- **CONTINUED OPENNESS TO PUBLIC**

# QUESTIONS & ANSWERS

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PLEASE FEEL FREE TO PROVIDE ADDITIONAL COMMENTS THROUGH THE “NRC PUBLIC MEETING FEEDBACK” FORM

ADDITIONAL INFORMATION ON THE THE TOPICS DISCUSSED CAN BE FOUND AT : *www.nrc.gov*

Reactor Oversight Process

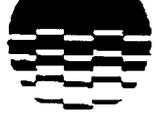
*<http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html>*

Public Electronic Reading Room

*<http://www.nrc.gov/reading-rm/adams.html>*

Public Document Room

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

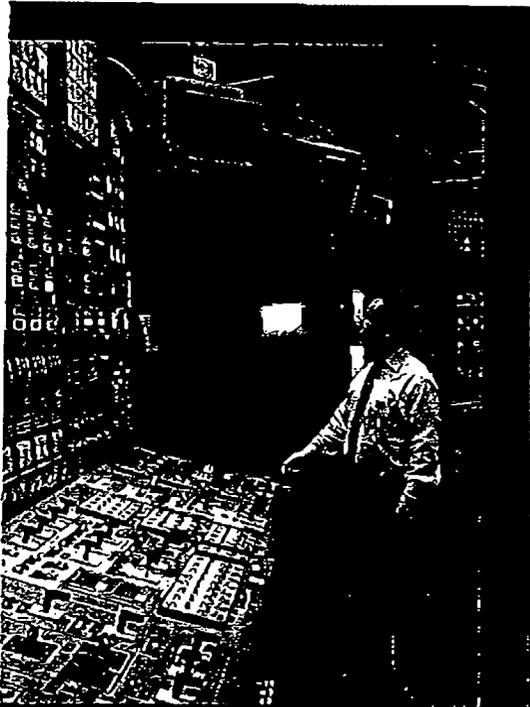


*Entergy*

Rev 12

**End of Cycle  
Plant Performance Review  
Indian Point Unit 2**

**March 14, 2002**



# Agenda

- **Overview**  
**Fred Dacimo, Vice President - Operations**
- **Performance Indicators**  
**Larry Temple, Plant General Manager**  
**Paul Rubin, Operations Manager**  
**Geoff Schwartz, Director of Engineering**



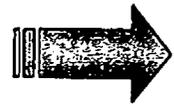
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# Overview of Performance

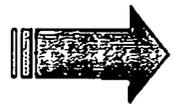
**Fred Dacimo**  
**Vice President, Operations**



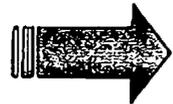
# Indian Point 2 Improvement Strategy



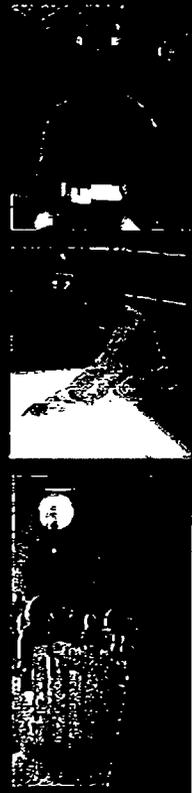
**Focus on Leadership**



**Focus on Operations**



**Leverage Corporate Support**

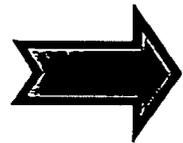


# Leadership is the Foundation of Improvement

- ✓ **Standards and Expectations**
- ✓ **Alignment**
- ✓ **Accountability**

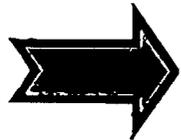


# Operational Focus



## **Operator Training**

- **High Impact Training**



## **Human Performance Program**

- **Observational Skills/ Simulator**



## **Effective Corrective Actions Program**



# Corporate Support



**Commitment to Indian Point**



**Bench Strength**



**Procedures and Practices**



**Peer Groups**



# Maintaining Operational Focus in an Era of Rapid Change

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## ★ New Processes

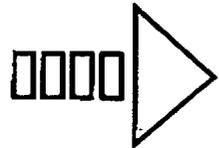
- Maximo – work control
- PCRS – problem identification and resolution

## ★ Post 9/11 Environment

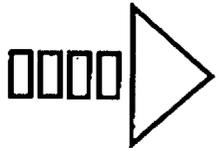
## ★ Site Integration



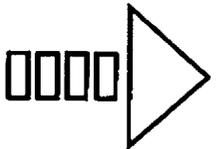
# Safety Conscious Work Environment



**Safety Culture Survey**



**Safety Conscious Work Environment Training**



**Fair, Square and Legal Training for managers**



# Fundamentals Improvement Plan

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**Extensive  
Self-Assessment  
Focused on Results**



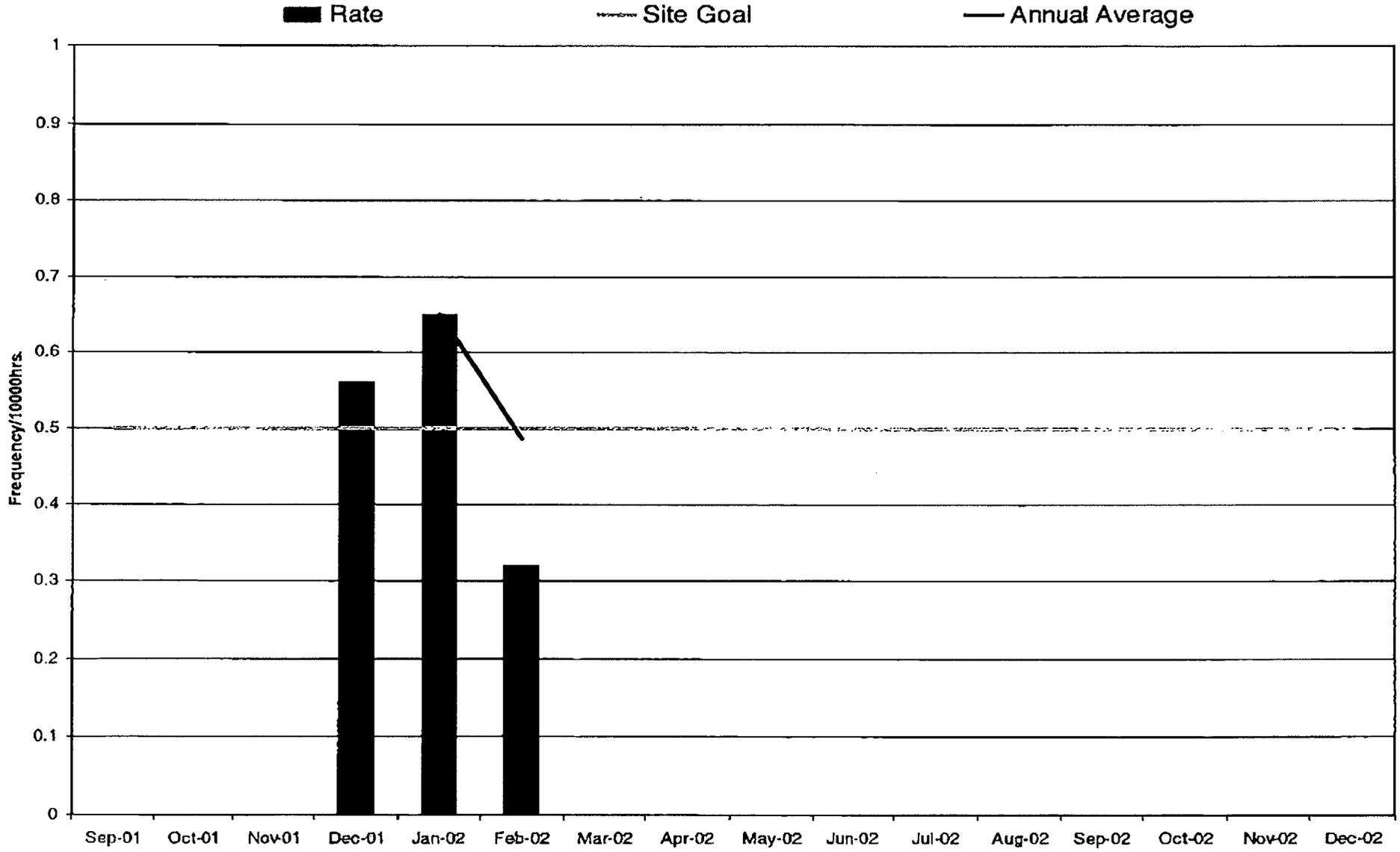
# Performance Indicators

**Larry Temple**  
**Plant General Manager**





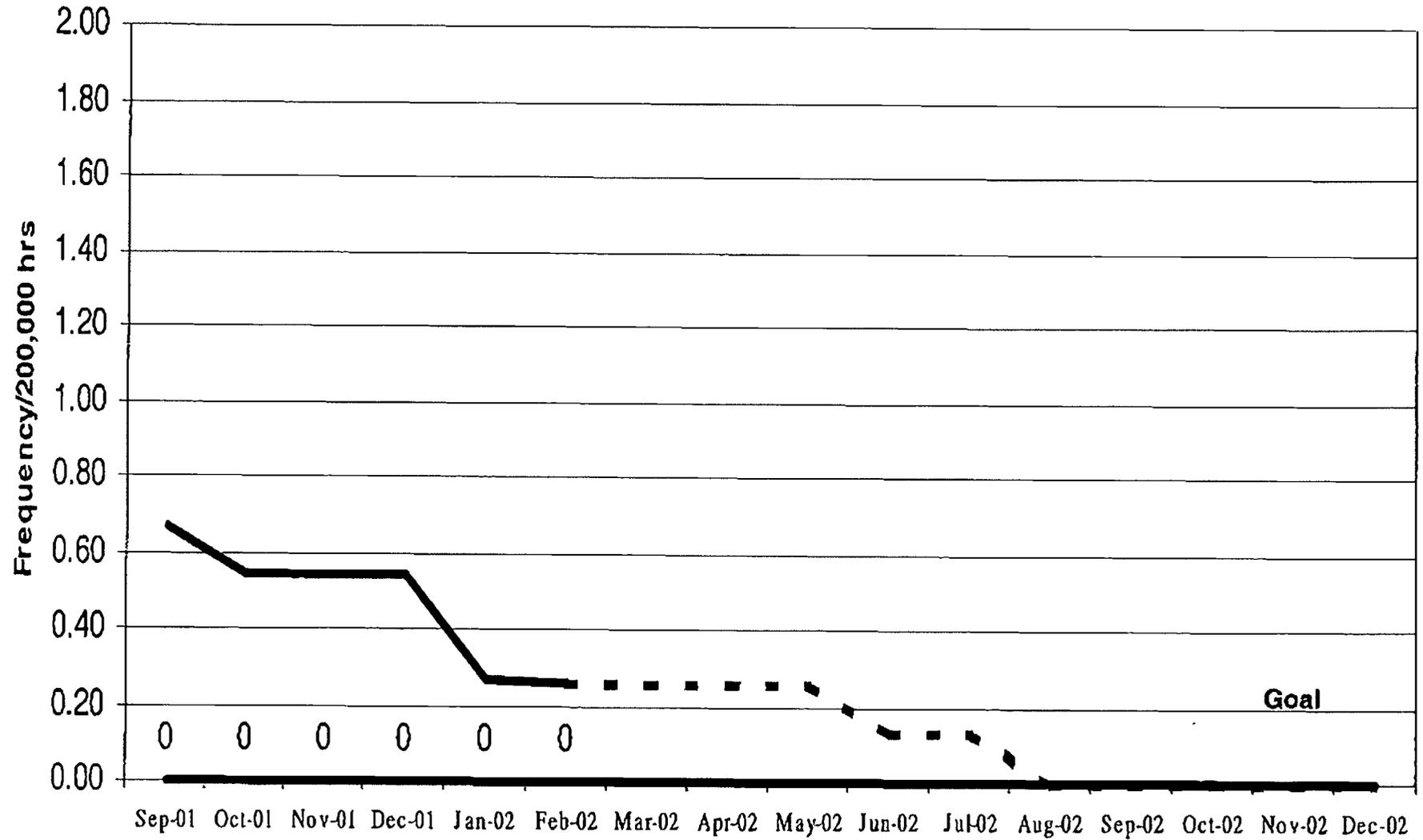
# Human Performance Error Rate

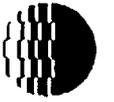




# Industrial Safety Accident Rate

■ Monthly      — Top Quartile/Decile      — 1-Year



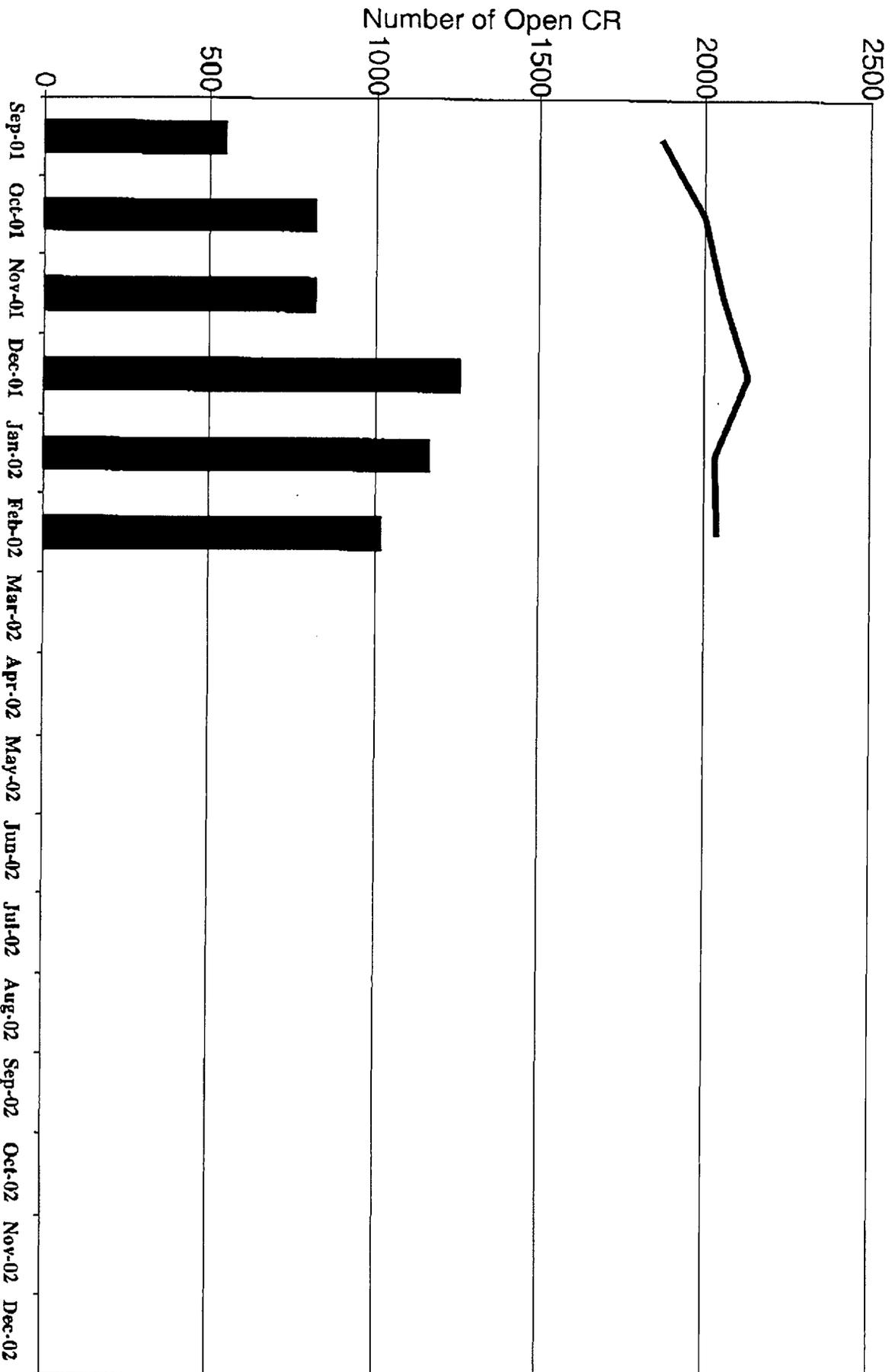


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# Open Condition Reports

■ CR's (SL1, 2, 3) Generated Each Month

— Total Open CR's



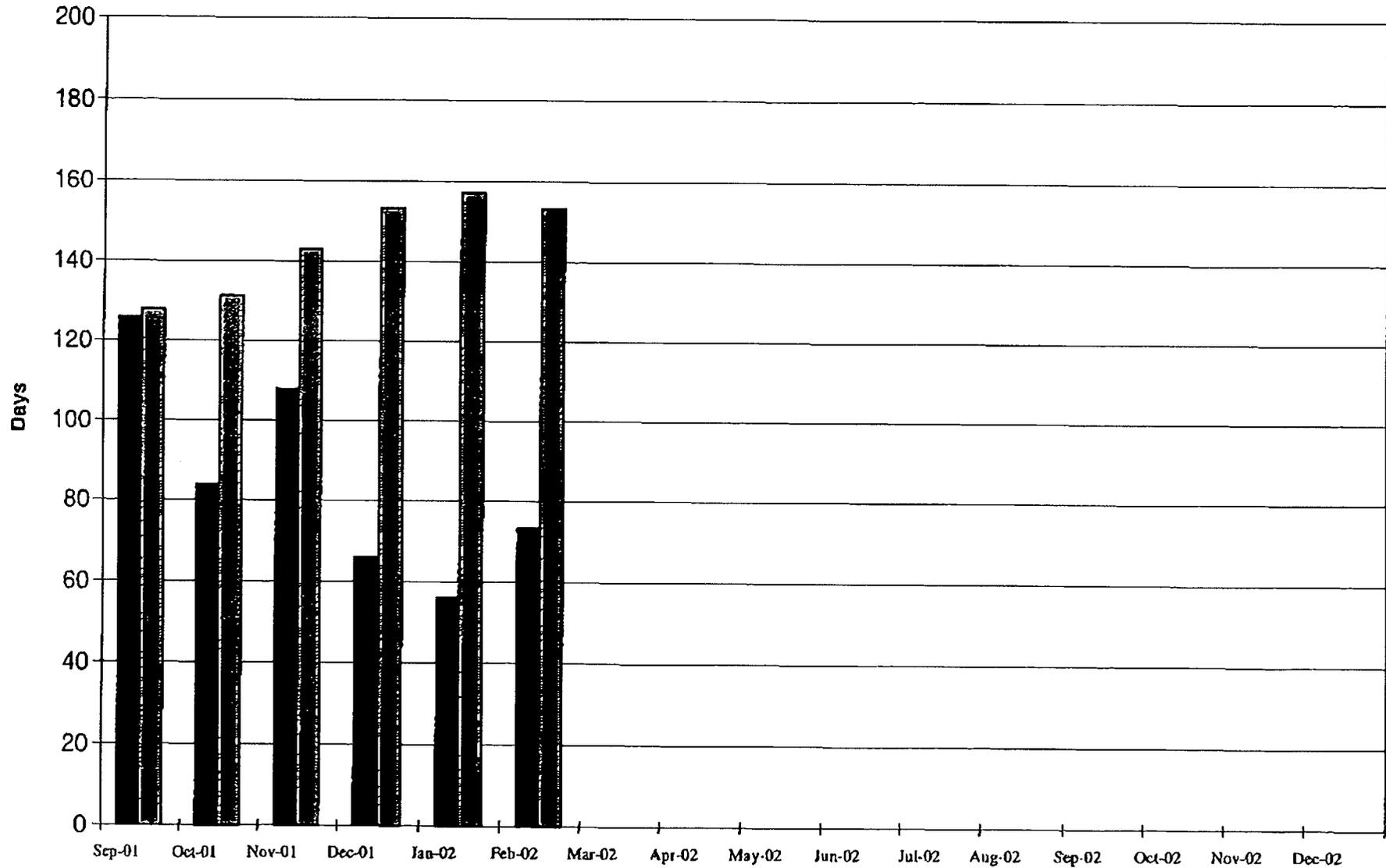


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# Average Age of Open Corrective Actions SL 1 & 2

■ SL1

■ SL2



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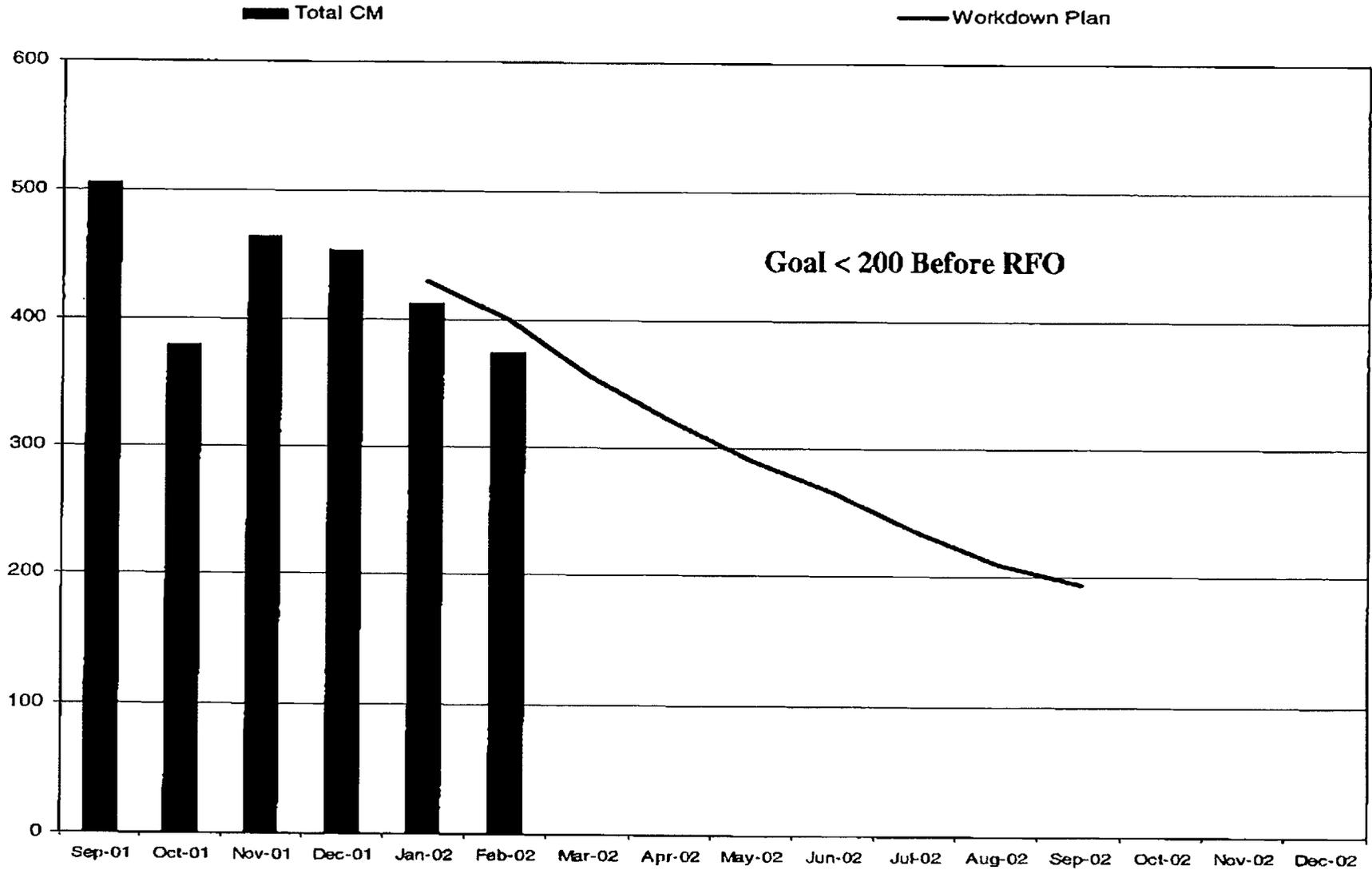
# Performance Indicators

**Paul Rubin**  
**Operations Manager**





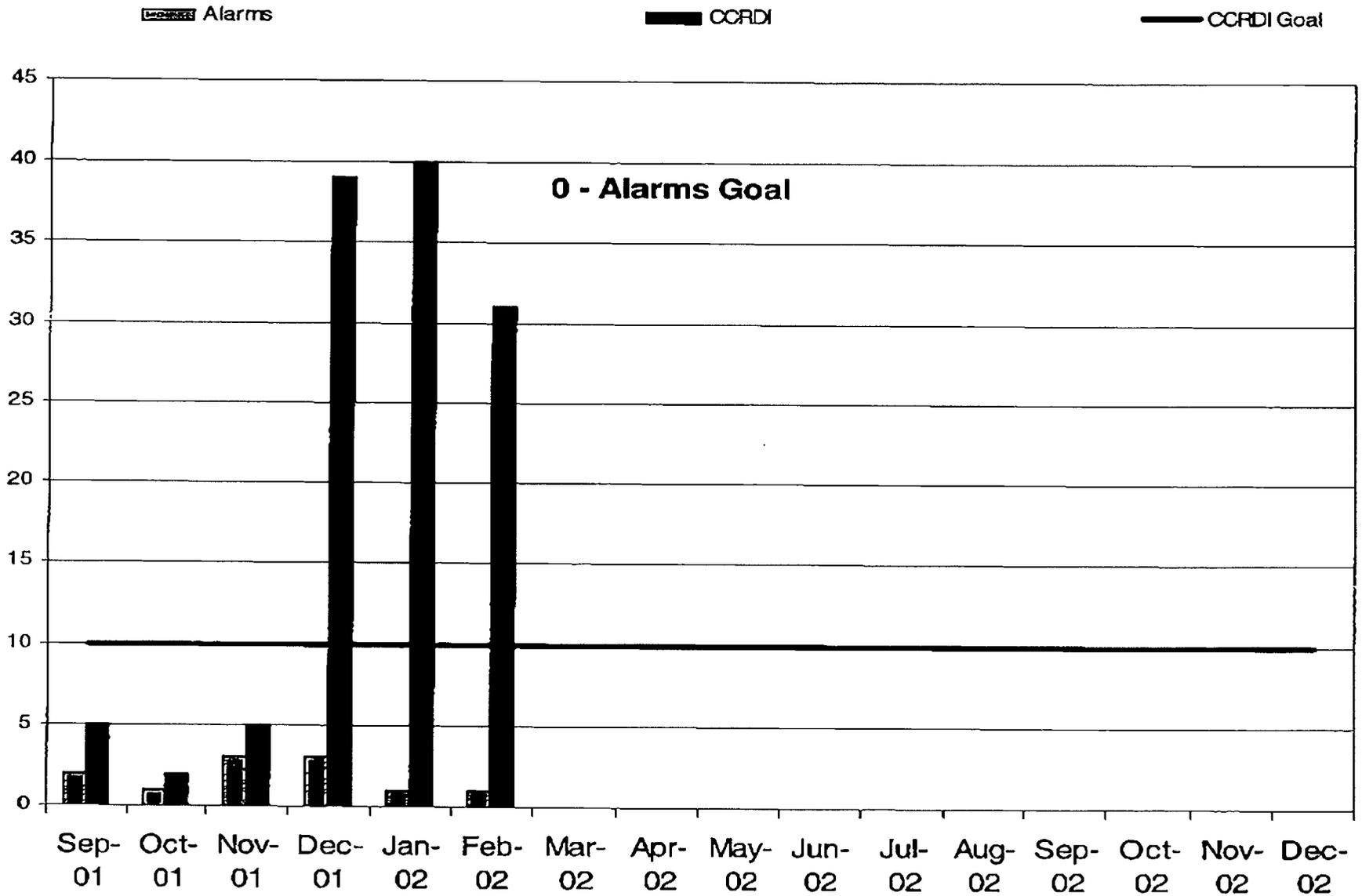
# Corrective Maintenance Backlog



Indicator is measured at the end of the month



# Central Control Room CCRDIs and Alarms

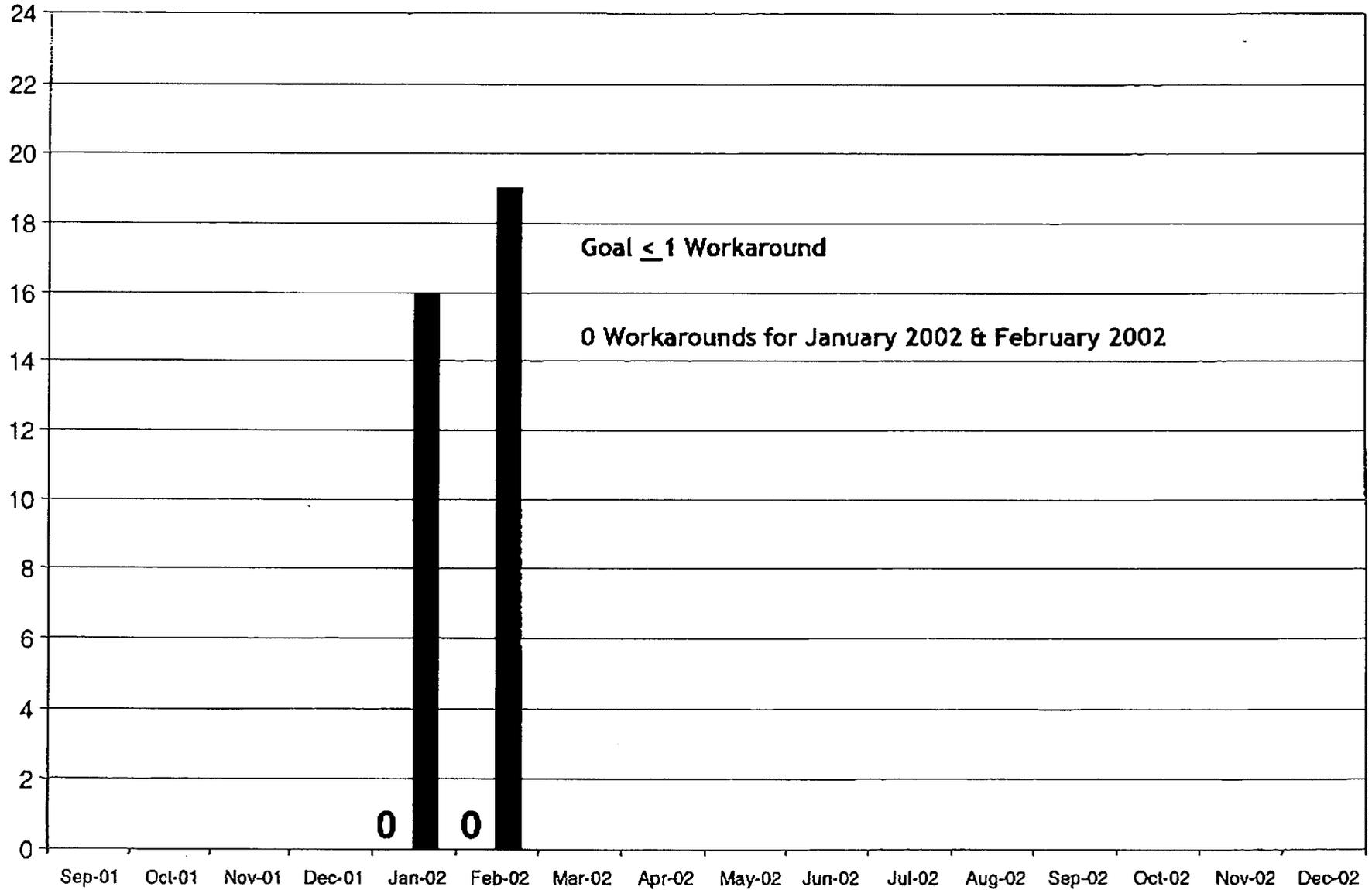




# Operator Compensatory Measures

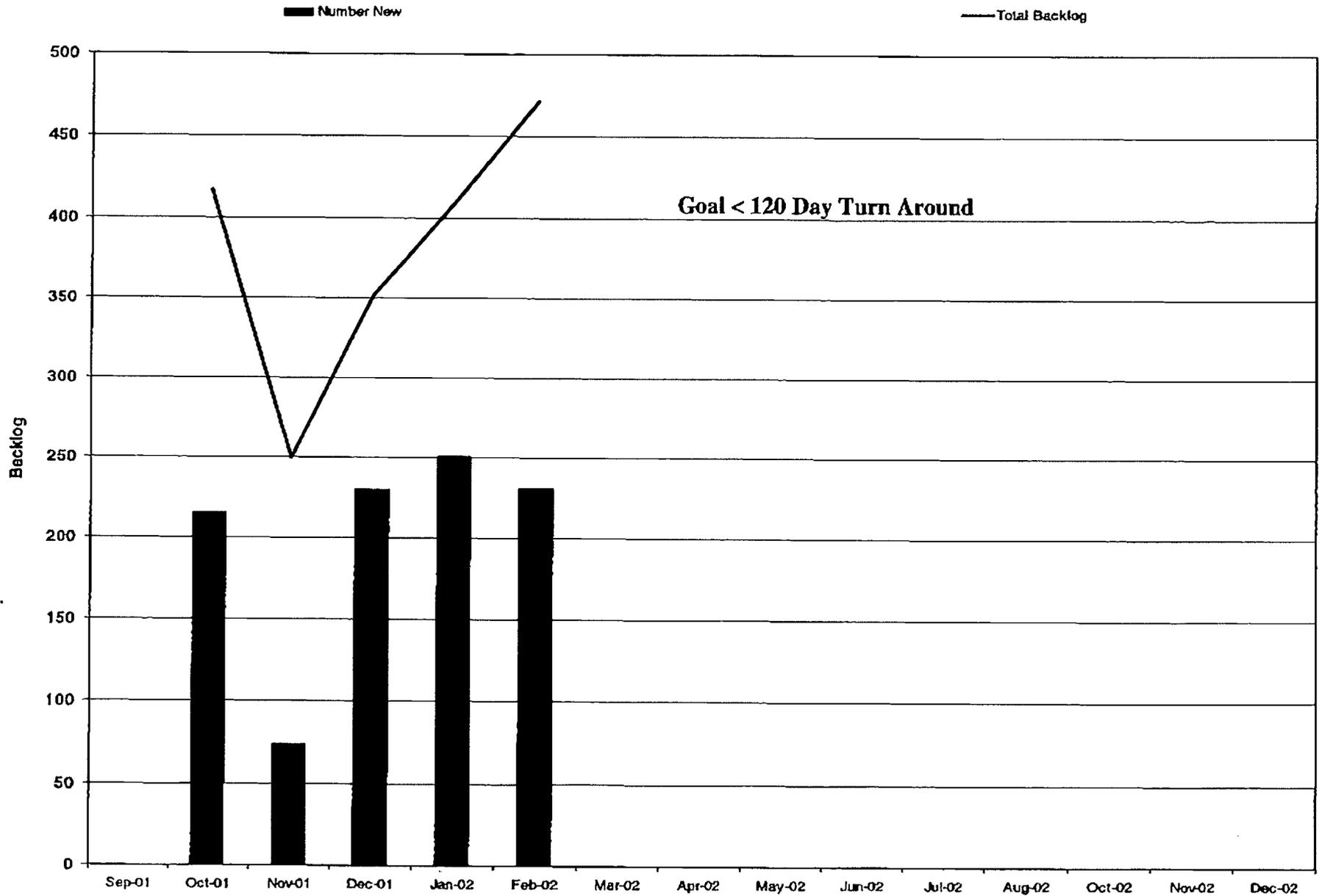
Workarounds

Burdens





# Procedure Feedback

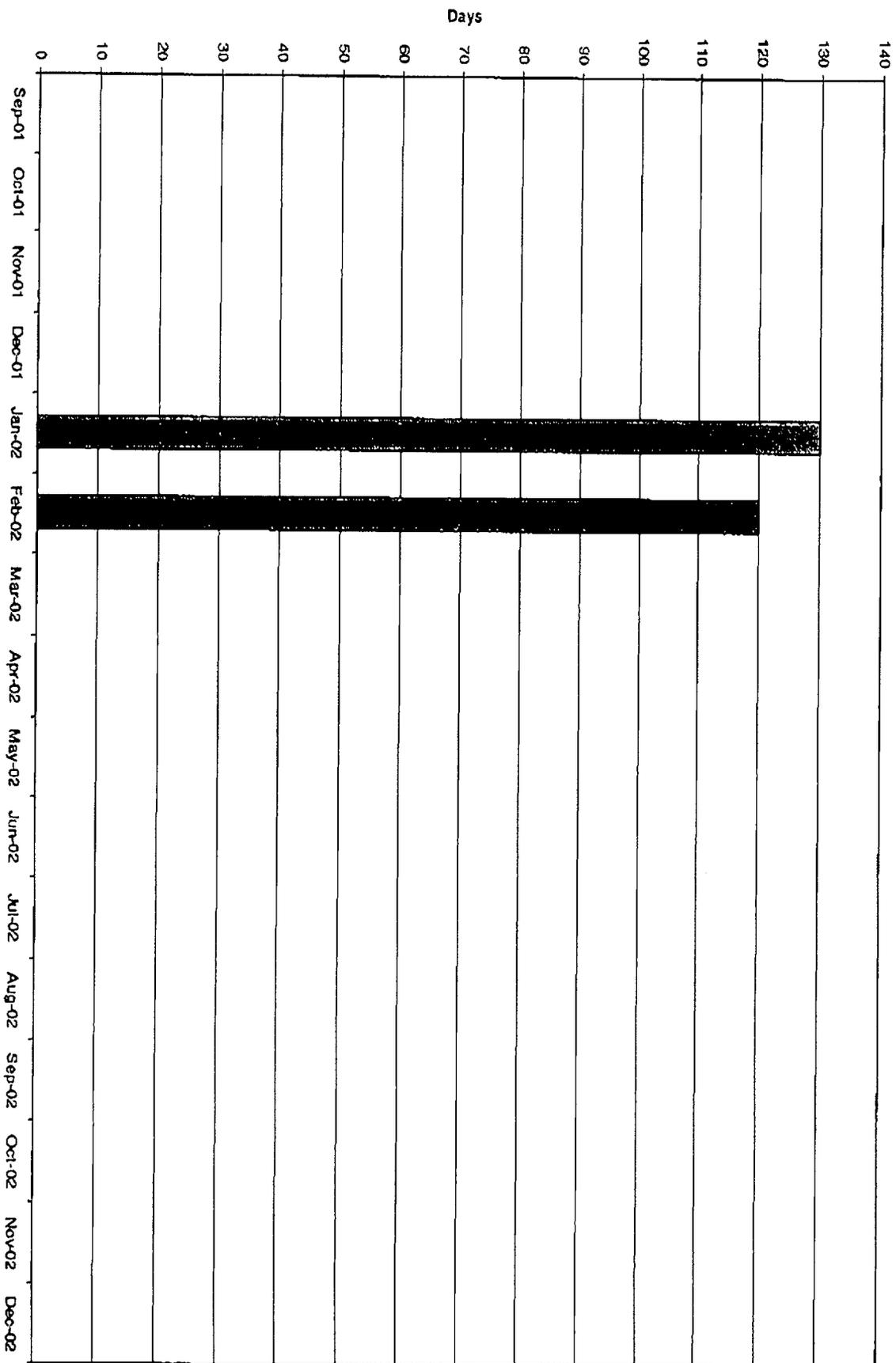




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# Procedure Feedback Average Age

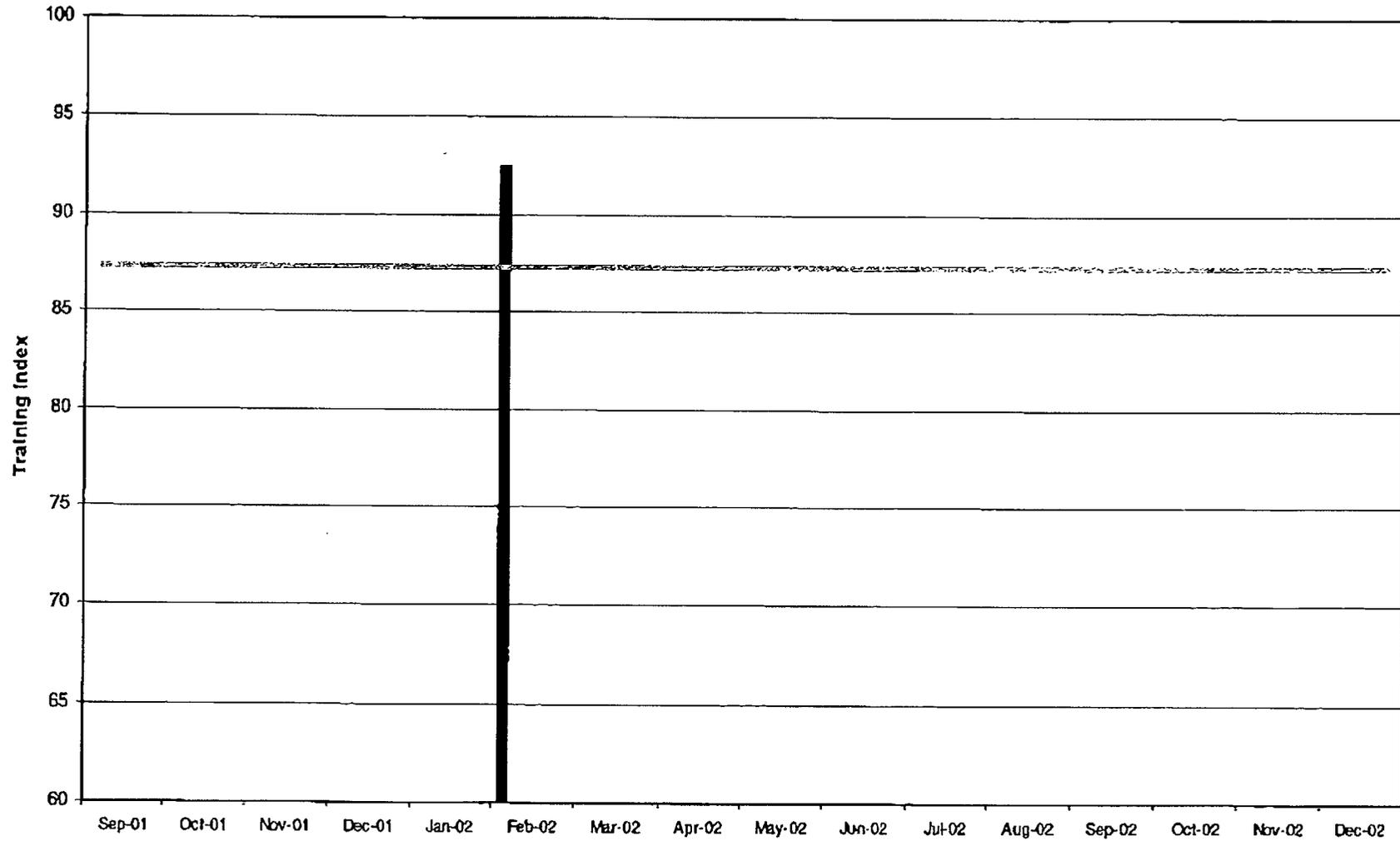
□ Average Age





# Licensed Operator Re-qualification Success Index

■ A Training Index   ■ C Training Index   ■ D Training Index   □ E Training Index   ■ F Training Index   ■ Staff X Index   ■ Staff Y Index



# Performance Indicators

**Geoff Schwartz**  
**Director, Engineering**



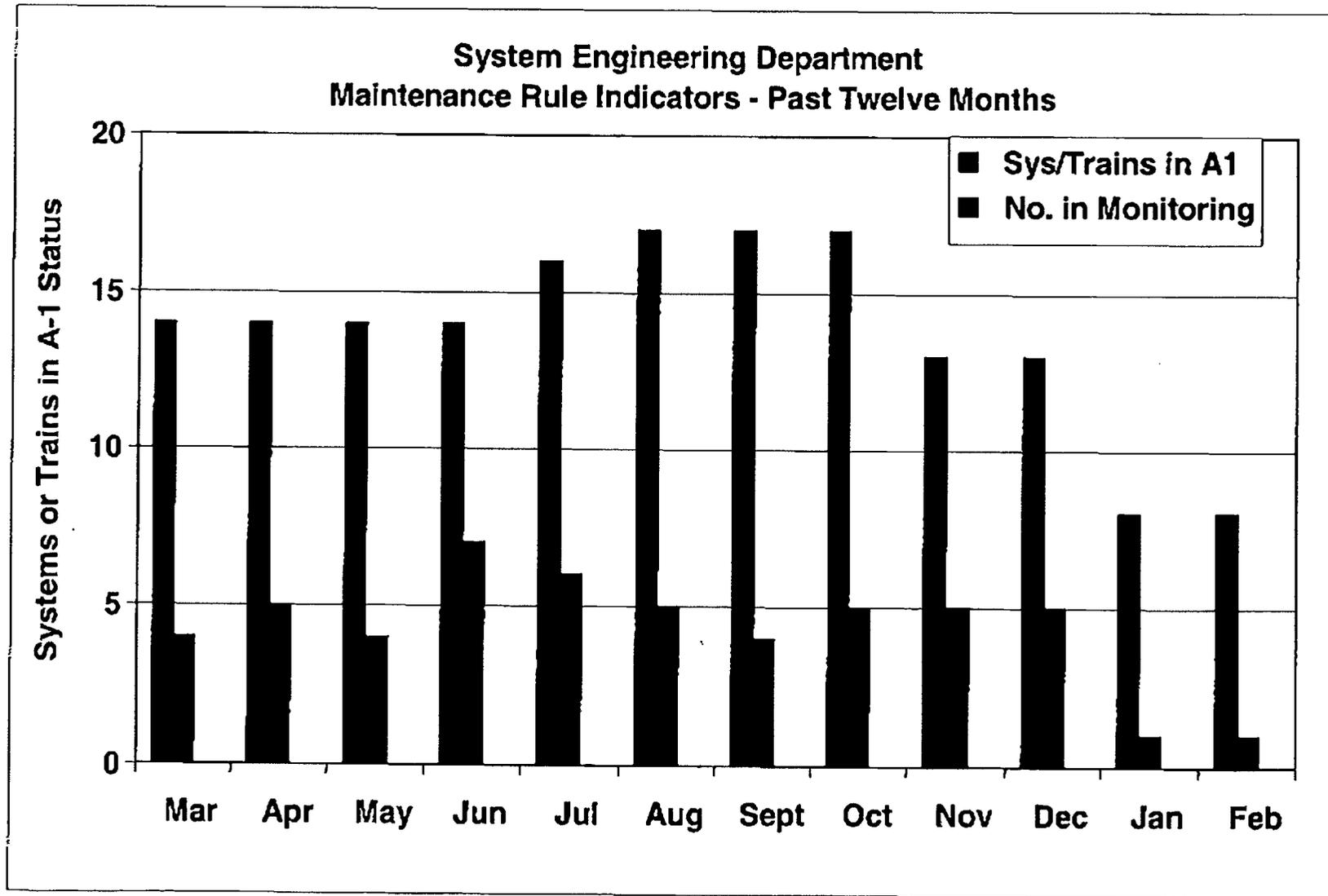
# Engineering Focus Items

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- Equipment performance and reliability**
- Design Basis projects**



# Systems in a(1) Status

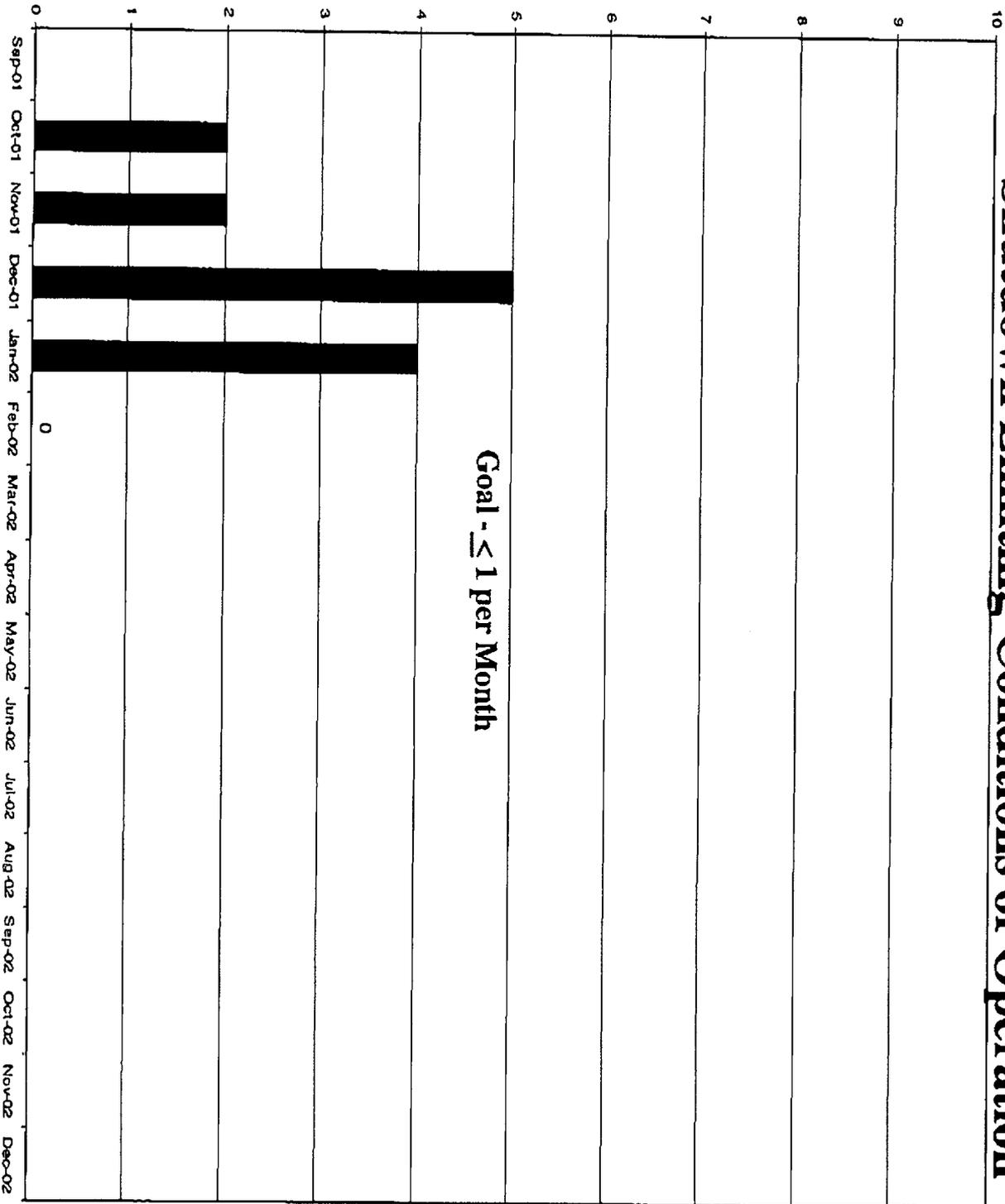




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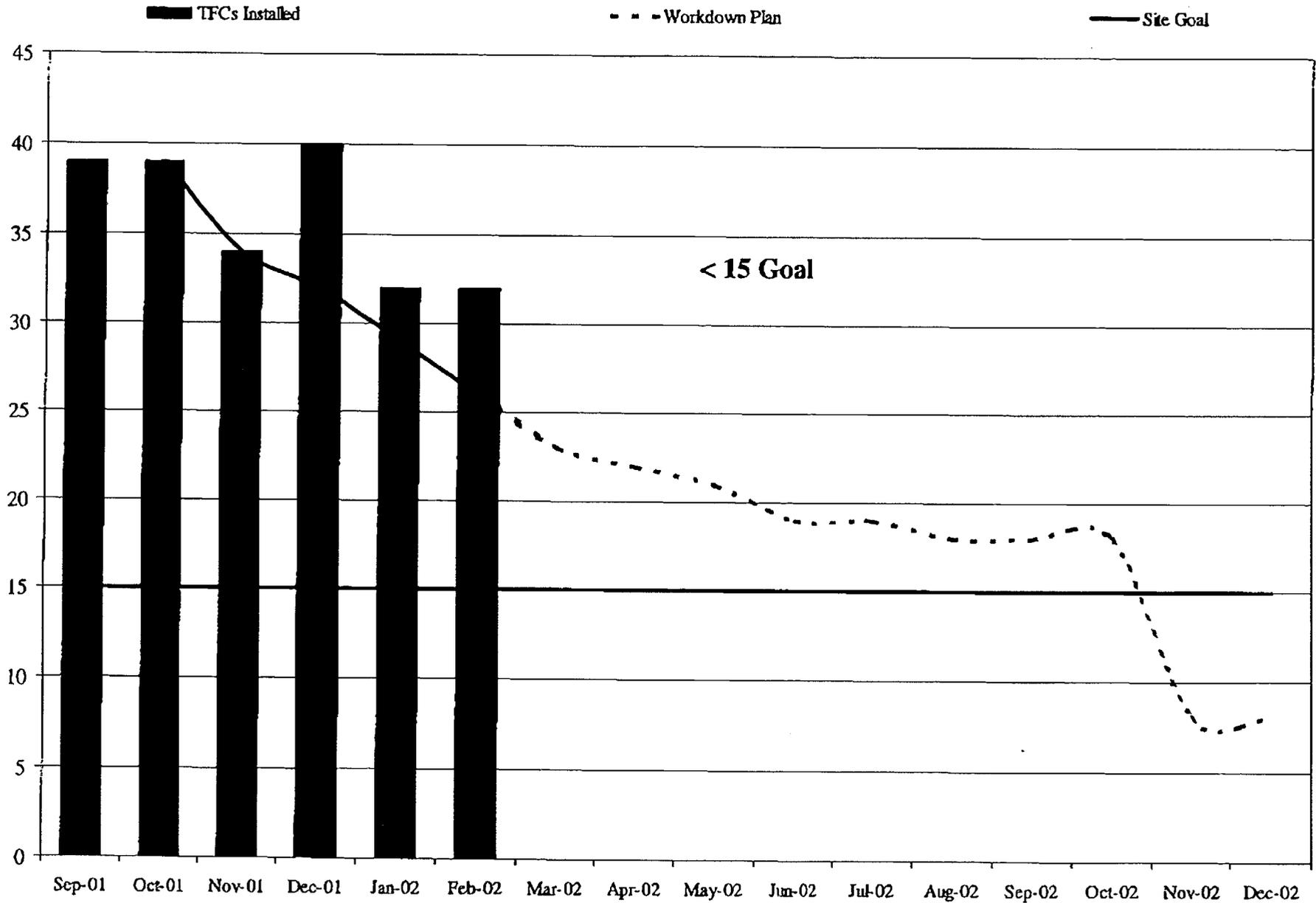
# Unplanned Equipment Entries Into Shutdown Limiting Conditions of Operation

Frequency per Month



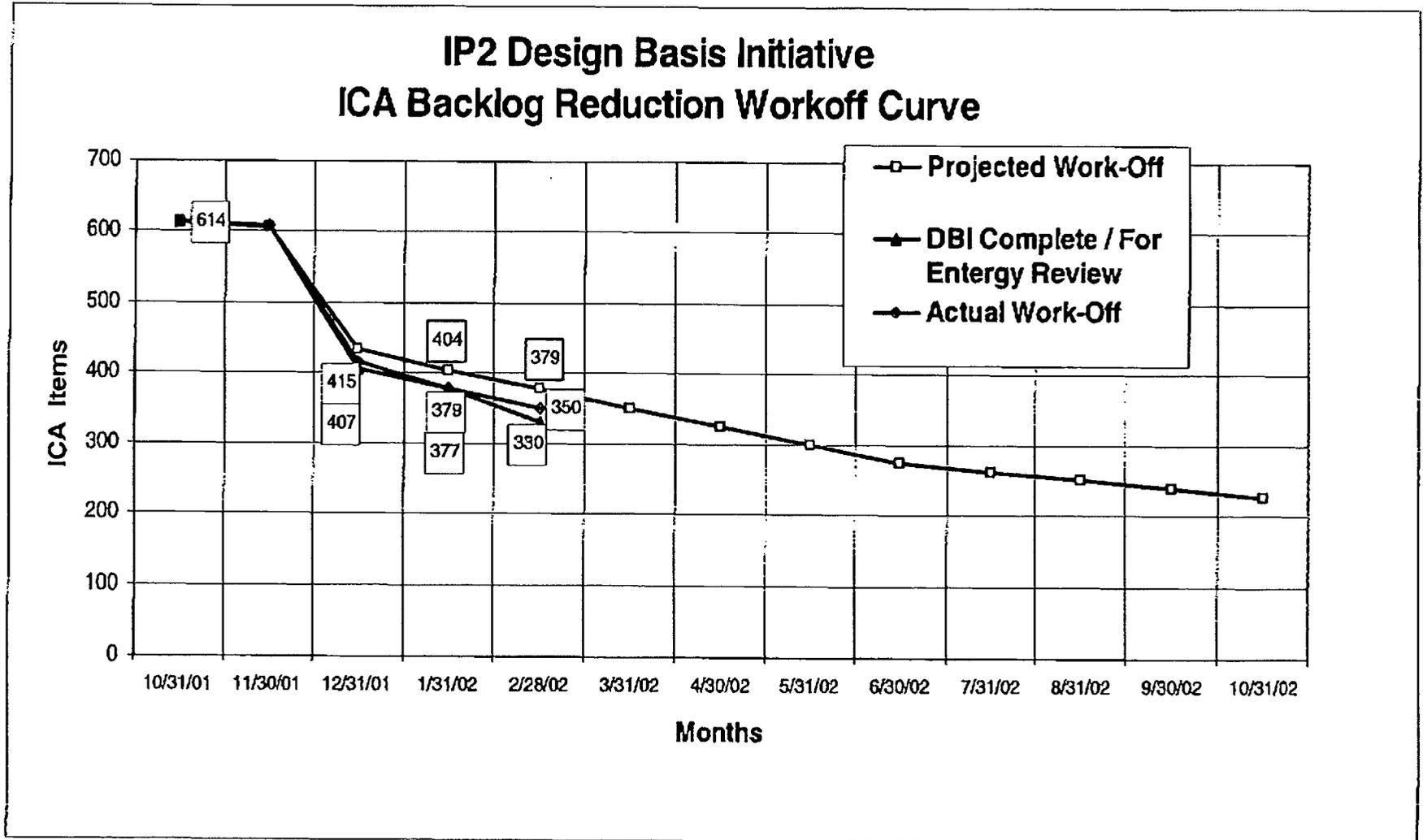


# Temporary Facility Changes



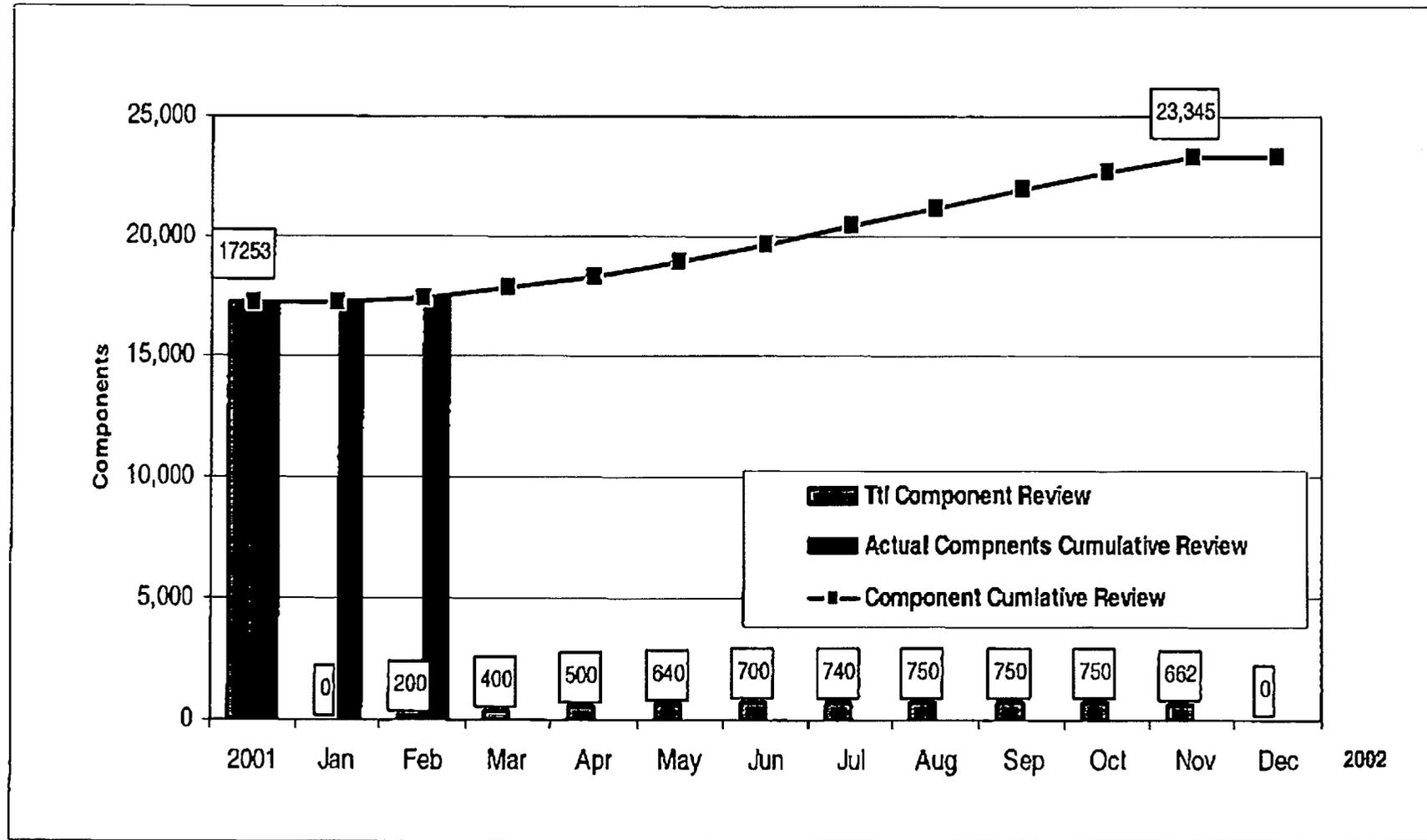


# Design Basis Project Corrective Action Backlog



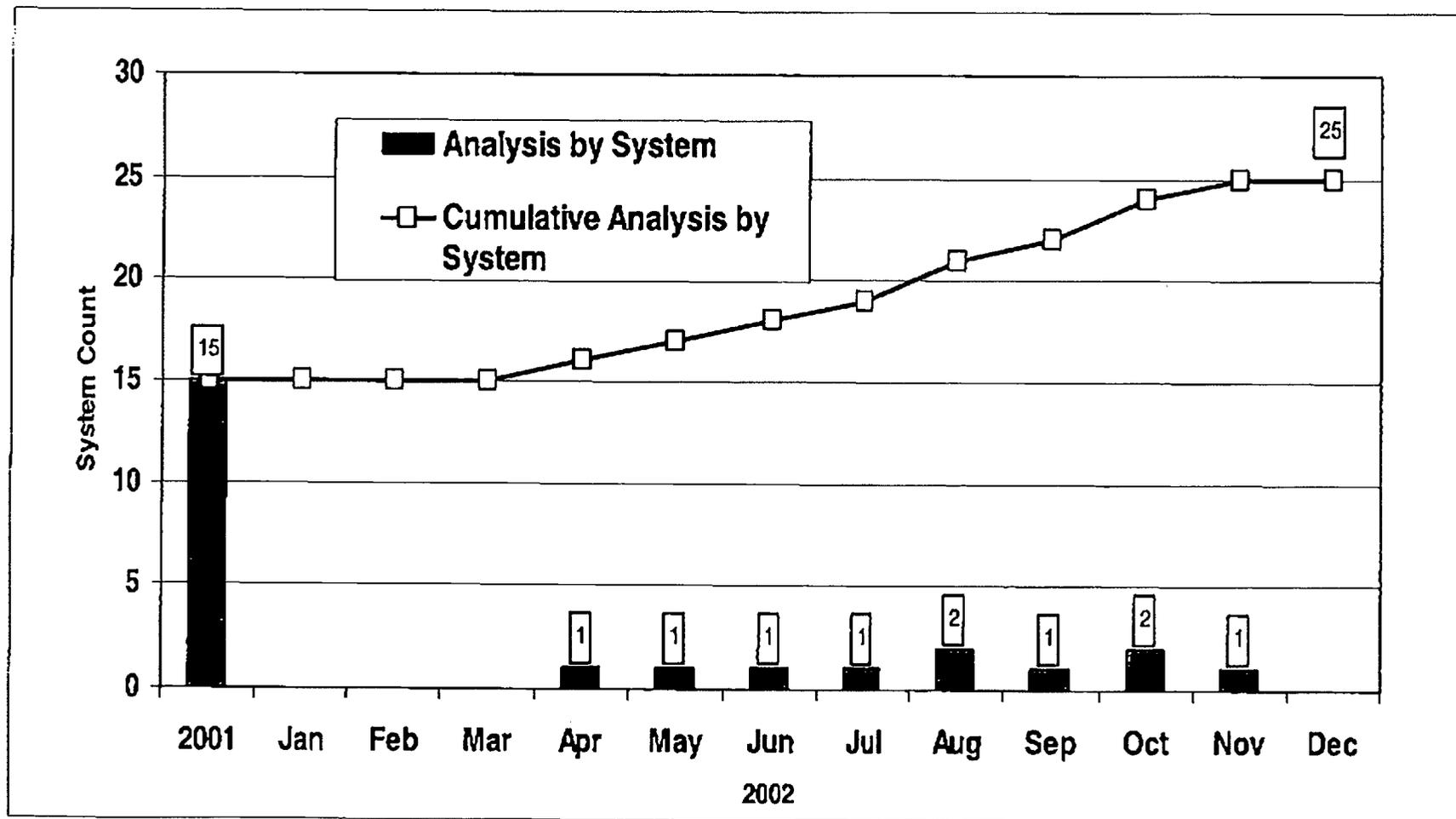


# Design Basis Project Preventive Maintenance Optimization (Component)



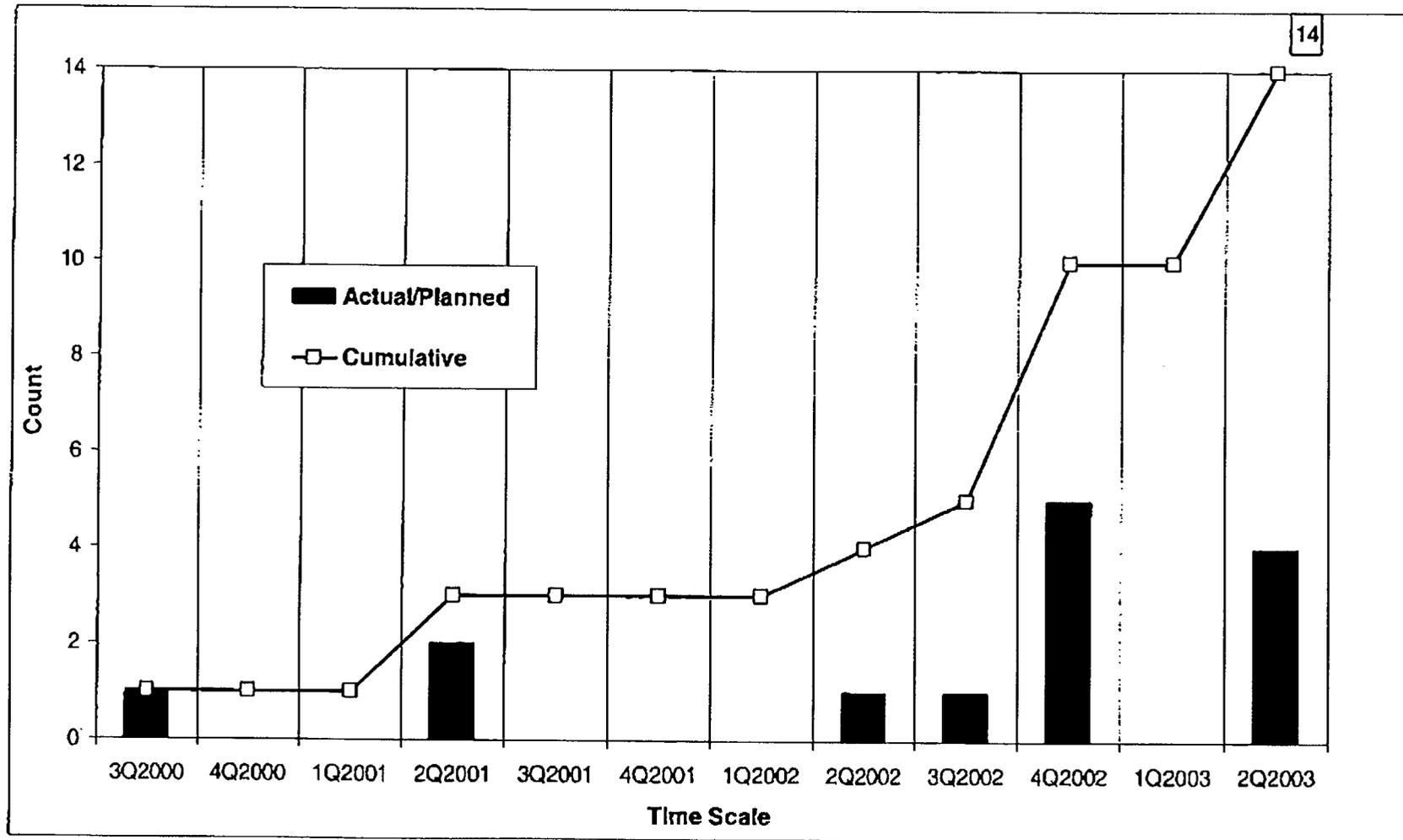


# Design Basis Project Preventive Maintenance Optimization (Systems)



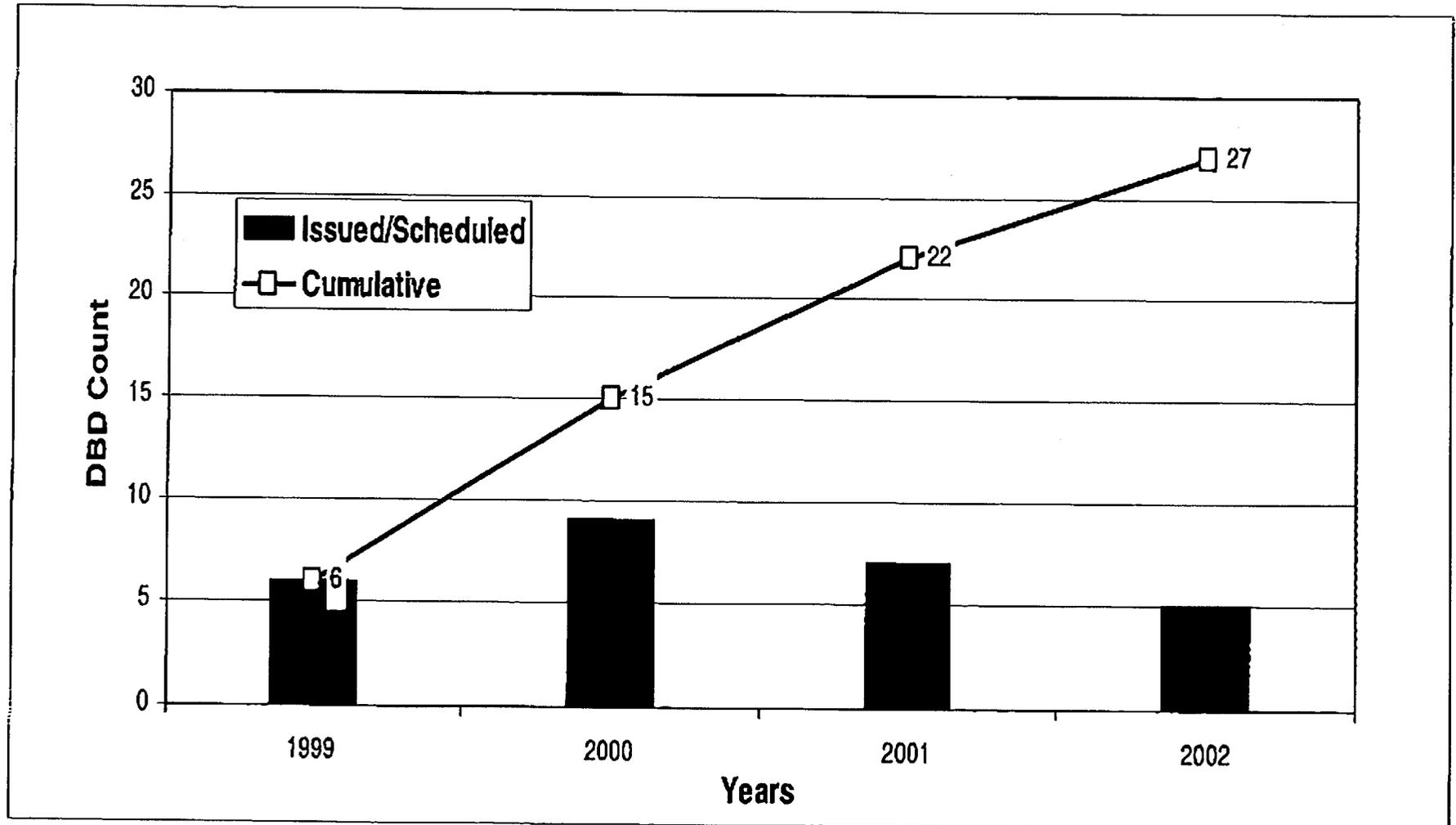


# Design Basis Project Calculation/Specification Roadmap





# Design Basis Project Design Basis Documents



# Closing Remarks

**Fred Dacimo**  
**Vice President, Operations**



# Performance Indicators

