



**Nebraska Public Power District**

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NLS2003103  
September 22, 2003



Thomas P. Gwynn  
Acting Regional Administrator, Region IV  
U.S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 400  
Arlington, Texas 76011-8084

Dear Mr. Gwynn:

Subject: Presentation Materials from September 8, 2003 Meeting  
Cooper Nuclear Station, NRC Docket 50-298, DPR-46

The purpose of this letter is to provide a copy of the materials presented by Cooper Nuclear Station at a meeting held with the Nuclear Regulatory Commission (NRC) on September 8, 2003. The meeting was held to discuss progress on the station's improvement plan in relation to the Confirmatory Action Letter.

To address comments discussed during the presentation, the following slides were revised/corrected:

1. The slide following Page 13, which contained errors, was corrected. The corrections were:
  - a. The color coding was reversed on "Human Performance Error Rate" (Proposed TIP PI #15) and "Human Performance Event Free Days" (Proposed TIP PI #16).
  - b. The color coding for "Management Ownership" (Existing TIP PI #23) and "On-Schedule Completion of Adverse Findings" (Existing TIP PI #29) was changed to a plum color as these performance indicators (PI's) were renamed.
  - c. The color coding for "On-Schedule Completion of QA Findings" (Proposed TIP PI #26) was changed to Red as this PI was revised.
2. The slide entitled "Human Performance Event Free Days" with the graph including the words "Using Entergy Threshold Values" was corrected. The thresholds in the legend at the bottom of the slide were changed to match the graph.

**COOPER NUCLEAR STATION**

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In addition, during the presentation the NRC noted that the July "Chemistry Performance" PI was different than one previously provided for the same month. The presentation slide had been updated because a data calculation error had been discovered and was correct as presented at the meeting on September 8, 2003.

Should you have any questions concerning this matter, please contact me at telephone no. (402) 825-2774.



Paul Fleming  
Manager, Licensing & Regulatory Affairs

/jrs  
Enclosure

cc: U.S. Nuclear Regulatory Commission (with enclosure)  
Att: Document Control Desk  
Washington, D.C. 20555-0001

Senior Project Manager (with enclosure)  
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector (with enclosure)  
USNRC

NPG distribution (with enclosure)

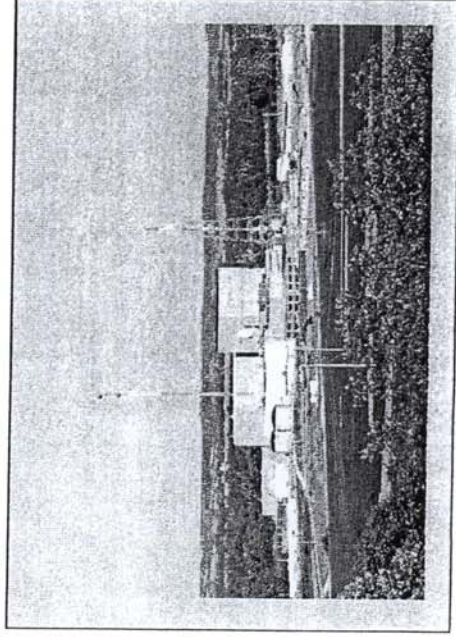
Records (with enclosure)

Enclosure  
NLS2003103

Presentation Materials  
from  
September 8, 2003 Meeting

# TIP NRC/NPPD Status Meeting

Cooper Nuclear Station  
September 8, 2003



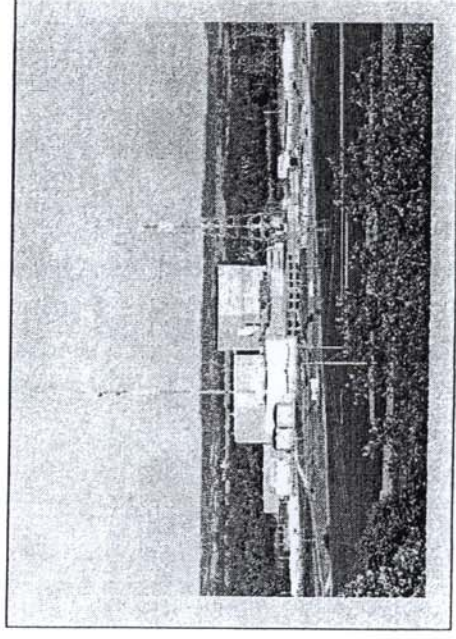
# Agenda

- |   |                                |
|---|--------------------------------|
| ◆ Opening Remarks   | Clay Warren                    |
| ◆ Meeting Objectives  | John Christensen               |
| ◆ Summary of Plant Status   | John Christensen               |
| ◆ Performance Assessment Tools  | John Christensen/<br>Dave Cook |
| ◆ CAL Strategy  |                                |
| ◆ Closing Remarks <ul style="list-style-type: none"><li>– Entergy Transition</li><li>– Path Forward</li></ul> | Clay Warren                    |



# Opening Remarks

Clay Warren  
Chief Nuclear Officer



# Meeting Objectives

- ◆ Performance Assessment
  - Corrective Action Program
  - QA Audits/Effectiveness Reviews/External Assessments
  - MPRM
  - Performance Indicators
- ◆ CAL Closure Readiness
  - Action Plan Progress
  - PI Trends
  - Effectiveness Reviews
  - NRC Inspections

# Summary of Plant Status

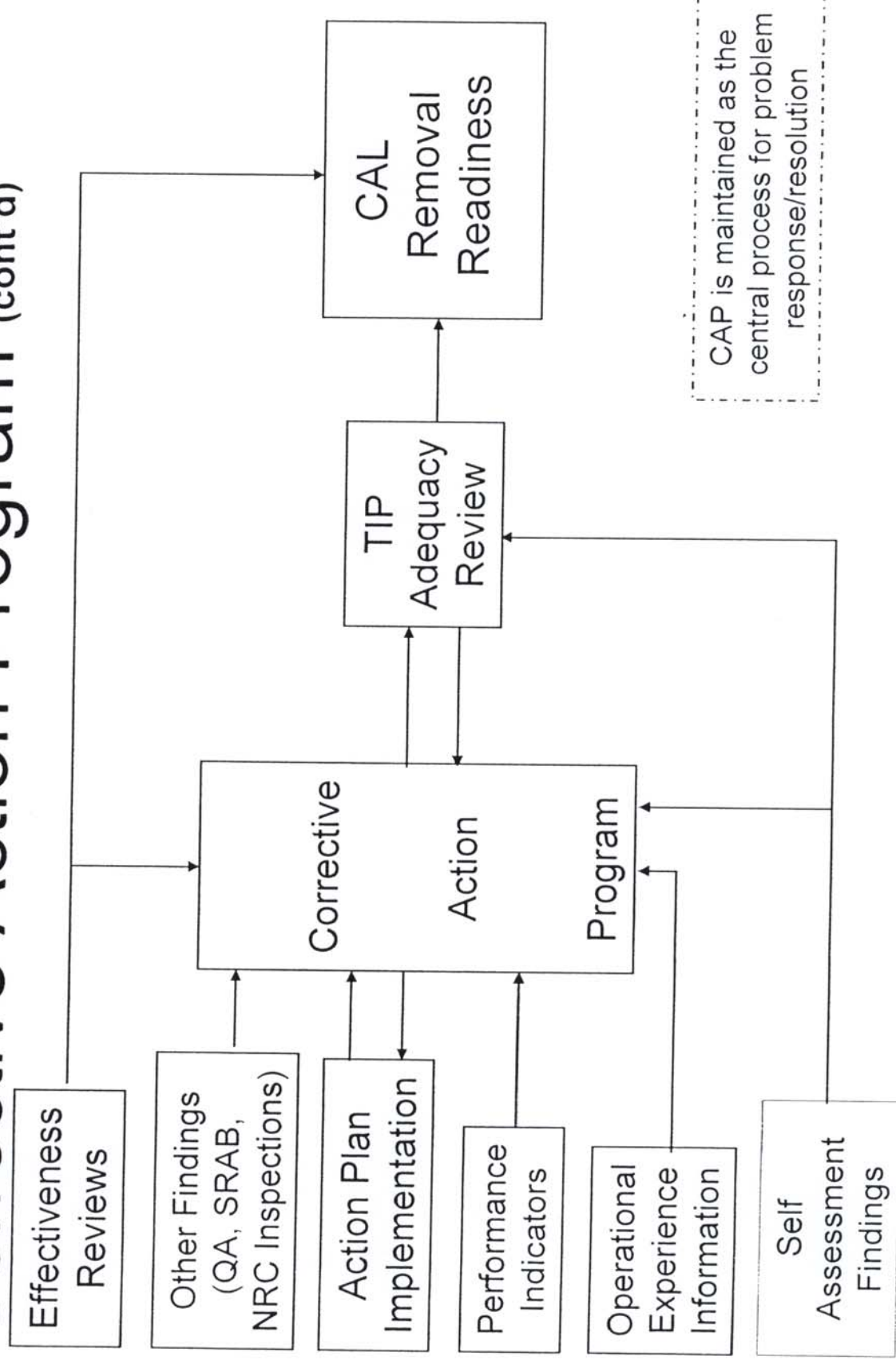
- ◆ Day 69 of continuous operation
- ◆ Day 63 since last human performance site clock reset
  - Focus on procedure use and pre-job briefs
- ◆ Improvements in Work Management Process
- ◆ Improved LCO maintenance performance
- ◆ Station Service Transformer repairs
- ◆ Chemistry Concerns
- ◆ Upcoming planned downpowers
  - Replace scram solenoid pilot valves
  - Repair condenser leak
  - Clean condenser



# Performance Assessment: Corrective Action Program

- ◆ TIP Interaction
  - Effectiveness Review Feedback
    - Use CAP to address Effectiveness Issues
  - Action Plans
    - Use CAP to address Action Plan implementation deficiencies
- ◆ Will modify TIP if an effectiveness review indicates that causal factors are not being appropriately addressed

# Performance Assessment: Corrective Action Program (cont'd)



# Performance Assessment: Effectiveness Reviews

- ◆ Formal Process
  - Self-Assessment Procedure + Template
  - Benchmarked with Industry
    - INPO part of benchmarking effort
- ◆ Key Elements
  - Scope
  - Team Composition
  - Effectiveness Criteria
  - Determine State of Performance
  - Draw Conclusions
  - Feedback to CAP (TIP if appropriate)

# Completed Interim Effectiveness/ Self-Assessment Reviews:

- ◆ EP
- ◆ Human Performance
- ◆ CAP
- ◆ Utilization of OER
- ◆ Outage Management & Monitoring
- ◆ Planning/Timeliness
- ◆ Scheduling/Monitoring
- ◆ Work Practices
- ◆ First Line Supervision (Work Implementation)
- ◆ Radiation Control Practices

# External Assessments

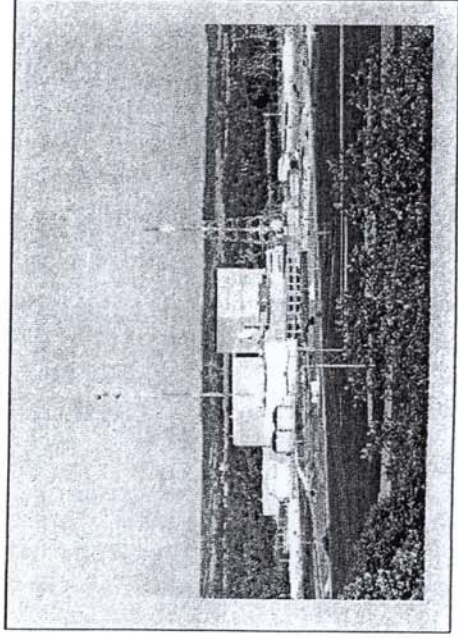
- ◆ Summary of Results/Key Actions Taken (To Date)
  - SRAB (Quarterly)
  - INPO
  - USA
  - ATV Operations Accreditation
  - Entergy Due Diligence
  - JUMA
  - INPO Performance Review (future)



# Performance Indicators Red/Yellow PI Assessment

John Christensen

Dave Cook



# Performance Assessment: Performance Indicators

- ◆ Bases for PI Adjustments:
  - New Focus Area Owners
  - Entergy association
- ◆ 68 original TIP PI's, 7 added, 23 deleted (for measuring TIP) for a total of 52. Some deleted due to:
  - Redundancy
  - Lower tier indicator of narrow focus
  - Not related to TIP performance or effectiveness
  - Slow response to performance change
  - External measure
- ◆ Minimize Subjectivity
- ◆ Examples of “over-conservatism”
  - Human Performance Event Free Clock
  - CAP Backlog
- ◆ Additional changes not anticipated through 1Q 2004

# Performance Indicator Changes



Existing TIP PI's		Proposed TIP PI's	
1	18 Month Collective Dose	1	18 Month Collective Dose
2	Alert and Notification System Reliability	2	Alert and Notification System Reliability
3	CAP Performance Index	3	CAP Performance Index
4	Chemistry Performance	4	<b>CAP Self Identification</b>
5	Components in Accelerated Testing	5	Chemistry Performance
6	Configuration Control Events	6	Components in Accelerated Testing
7	<b>Contaminated Floor Area</b>	7	Configuration Control Events
8	Control Room Deficiencies	8	Control Room Deficiencies
9	<b>Cost Center Budget Variance</b>		
10	<b>Drawing &amp; Vendor Manual Change Backlog</b>		
11	<b>Drawing Change Notice On-Time Completion</b>		
12	Emergency Response Organization (ERO) Drill/Exercise Performance	9	Emergency Response Organization (ERO) Drill/Exercise Performance
13	ERO Drill Participation	10	<b>Engineering Inventory</b>
14	ERO Position Staffing	11	ERO Drill Participation
15	Forced Loss Rate	12	ERO Position Staffing
16	Gaseous Effluent	13	<b>Forced Loss Rate (18 Month)</b>
17	Human Performance Event Free Days	14	<b>Gaseous Effluent</b>
18	<b>Industrial Safety Event Precursor Rate</b>	15	<b>Human Performance Error Rate</b>
19	INPO Performance Index	16	Human Performance Event Free Days
20	<b>Licensee Event Reports</b>	17	INPO Performance Index
21	Long Term Caution Orders	18	Long Term Caution Orders
22	Maintenance Rework	19	<b>Long Term Clearance Orders</b>
23	<b>Management Ownership</b>	20	Maintenance Rework
24	Modification Closeout Backlog	21	<b>Management Observation Program Quality</b>
25	<b>Monthly Training Absences</b>	22	Management Ownership of Training
26	<b>Monthly Training Schedule Changes</b>	23	Modification Closeout Backlog
27	On-Line Corrective Maintenance Backlog	24	On-Line Corrective Maintenance Backlog
28	On-Line Plant Leaks	25	On-Line Plant Leaks
29	<b>On-Schedule Completion of Adverse Findings</b>	26	<b>On-schedule Completion of QA Findings</b>
30	Operator Work Arounds	27	<b>Operator Challenges</b>
31	OSHA Recordable Injury Rate	28	Operator Work Arounds
32	Overdue PM's	29	OSHA Recordable Injury Rate
33	<b>Overtime (% Hours) Year to Date</b>	30	Overdue Preventive Maintenance (PMs)
34	<b>PCR Inventory</b>		
35	Pre Outage Milestone Schedule Adherence	31	Pre-Outage Milestone Schedule Adherence
36	<b>Preventive/Corrective Task Ratio</b>		
37	<b>Production Cost (YTD)</b>		
38	Program Health	32	Program Health
39	<b>Qualification Matrix Adherence</b>		
40	<b>RCS Leak Rate</b>		
41	Reactivity Management Performance	33	<b>Program Health – non-Engineering (not yet developed)</b>
42	Reactor Coolant System (RCS) Specific Activity	34	Reactivity Management Performance
43	<b>Reactor Oversight Program Index</b>	35	Reactor Coolant System (RCS) Specific Activity
44	RETS/ODCM Radiological Effluent Occurrences	36	RETS/ODCM Radiological Effluent Occurrences
45	Risk Significant Functional Failures	37	Risk Significant Functional Failures
46	Safety System Functional Failures	38	Safety System Functional Failures
47	Safety System Unavailability – Emergency A/C Power System	39	Safety System Unavailability – Emergency A/C Power System
48	Safety System Unavailability – High Pressure Coolant Injection System	40	Safety System Unavailability – High Pressure Coolant Injection System
49	Safety System Unavailability – Reactor Core Isolation Cooling System	41	Safety System Unavailability – Reactor Core Isolation Cooling System
50	Safety System Unavailability – Residual Heat Removal System	42	Safety System Unavailability – Residual Heat Removal System
51	<b>SCR On-Time Completion</b>		
52	<b>SCR Recurrence</b>		
53	<b>SOER Implementation</b>		
54	System Health	43	System Health
55	Temporary Modifications	44	Temporary Modifications
56	<b>Thermal Performance Index</b>		
57	Timeliness Of CNS Response to Industry Issues	45	Timeliness of CNS Response to Industry Issues
58	TIP Plan Schedule Adherence	46	TIP Schedule Adherence
59	<b>Total Accountable Solid Radwaste</b>		
60	Training Effectiveness	47	Training Effectiveness
61	<b>Training Observation Program Effectiveness</b>	48	<b>Training Observation Program</b>
62	<b>Turnover</b>		
63	<b>Unit Capability Factor</b>		
64	Unplanned Entries into Limiting Conditions for Operation (LCOs)	49	<b>Unplanned Entries into LCOs</b>
65	Unplanned Power Changes per 7000 Critical Hours	50	Unplanned Power Changes per 7000 Critical Hours
66	Unplanned Safety System Actuations	51	Unplanned Safety System Actuations
67	Unplanned Scrams per 7000 Critical Hours	52	Unplanned Scrams per 7000 Critical Hours
68	<b>Work Breakdown Structure (WBS) Budget Variance</b>		
<div> <div></div> PI's Deleted from TIP List (23) <div></div> New PI's to be developed (1) <div></div> Revise existing PI's (5) <div></div> Additional existing PI's (6) <div></div> Renamed PI's (3) </div>			

# Performance Indicators - Current & Projected



# TIP PI List

Printed Sep 05, 2003

Number	PI Description	Current Color 7/03	Predicted Value 3/04	Best Possible Value 3/04
1	18 Month Collective Dose		102	102
2	Alert and Notification System Reliability		99.33	100
3	CAP Performance Index		2.52	3.03
4	CAP Self Identification		90.2	95
5	Chemistry Performance		1.07	1.07
6	Components in Accelerated Testing		1	0
7	Configuration Control Events		1	0
8	Control Room Deficiencies		5	5
9	Emergency Response Organization (ERO) Drill/Exercise Performance		98.36	100
10	Engineering Inventory		1800	1400
11	ERO Drill Participation		98.08	100
12	ERO Position Staffing		0	0
13	Forced Loss Rate (18 Month)		10.2	10.2
14	Gaseous Effluent (Revise display)		9	2
15	Human Performance Error Rate		0.68	0.6
16	Human Performance Event Free Days		45.6*	60.8
17	INPO Performance Index		70	70
18	Long Term Caution Orders		18	13
19	Long Term Clearance Orders		13	8
20	Maintenance Rework		2	2
21	Management Observation Program Quality		4	4.25
22	Management Ownership of Training		90	100
23	Modification Closeout Backlog		5	0
24	On-Line Corrective Maintenance Backlog		75	60
25	On-Line Plant Leaks		5	0
26	On-schedule Completion of QA Findings		92	100
27	Operator Challenges		8	6
28	Operator Work Arounds		10	8
29	OSHA Recordable Injury Rate		0.24	0.24
30	Overdue Preventive Maintenance (PMs)		0	0
31	Pre-Outage Milestone Schedule Adherence		100	100
32	Program Health		89.5	93.3
33	Program Health – non-Engineering (Not Yet Developed)			
34	Reactivity Management Performance		94	94
35	Reactor Coolant System (RCS) Specific Activity		0.005	0.005
36	RETS/ODCM Radiological Effluent Occurrences		0	0
37	Risk Significant Functional Failures		10	8
38	Safety System Functional Failures		1	1
39	Safety System Unavailability – Emergency A/C Power System		0.8	0.8
40	Safety System Unavailability – High Pressure Coolant Injection System		1.1	1.1
41	Safety System Unavailability – Reactor Core Isolation Cooling System		1.2	1.2
42	Safety System Unavailability – Residual Heat Removal System		1	1
43	System Health		8.76	8.8
44	Temporary Modifications		10	5
45	Timeliness of CNS Response to Industry Issues		35	30
46	TIP Schedule Adherence		100	100
47	Training Effectiveness		95	100
48	Training Observation Program		95	100
49	Unplanned Entries into LCOs		9	6
50	Unplanned Power Changes per 7000 Critical Hours		3.08	1.03
51	Unplanned Safety System Actuations		0.33	0
52	Unplanned Scrams per 7000 Critical Hours		1	1

\* Per new Entergy criteria

# Current Red/Yellow PIs

## Red

- ◆ Chemistry Performance Index
- ◆ Components in Accelerated Testing
- ◆ Engineering Inventory
- ◆ Forced Loss Rate
- ◆ Gaseous Effluent
- ◆ INPO Performance Index
- ◆ Long Term Caution Orders
- ◆ Long Term Clearance Orders
- ◆ Management Ownership of Training
- ◆ On-Line Corrective Maintenance Backlog
- ◆ Overdue PM's
- ◆ Temporary Modifications
- ◆ Unplanned Entries into LCO's
- ◆ Unplanned Safety System Actuations

## Yellow

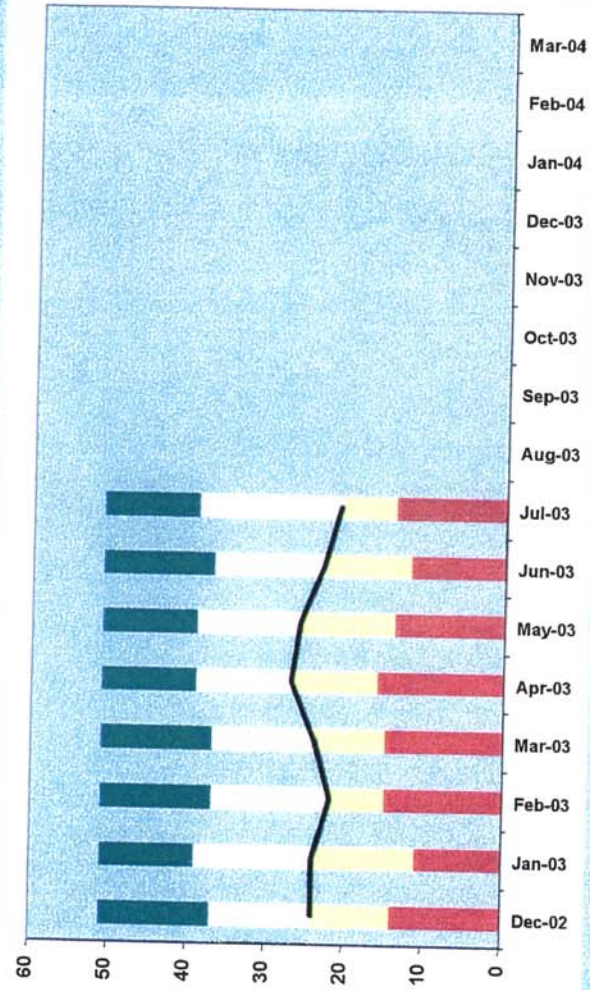
- ◆ Human Performance Error Rate
- ◆ Human Performance Event Free Days
- ◆ Program Health
- ◆ Risk Significant Functional Failures
- ◆ System Health
- ◆ TIP Schedule Adherence
- ◆ Unplanned Power Changes

# Performance Indicator Changes

## Roll-up Indicator Summary



## Overall TIP Indicator Summary

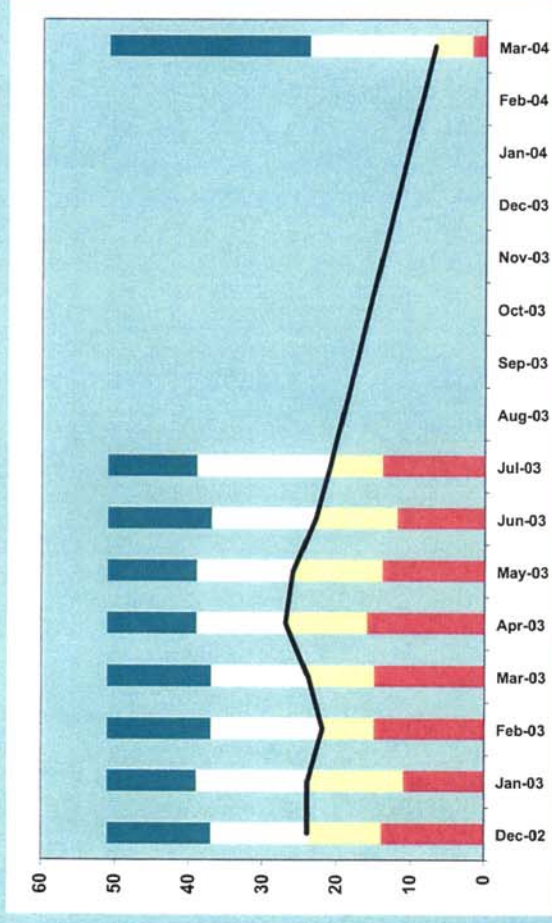


July, 2003

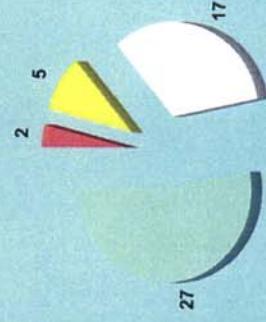


Number of unique TIP-related PI's = 51

## Overall TIP Indicator Predicted Value Summary



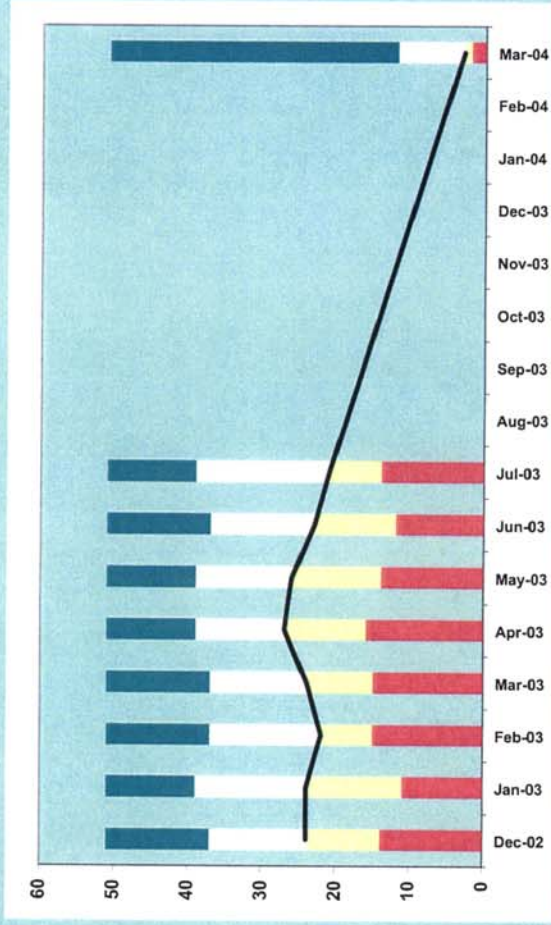
March, 2004



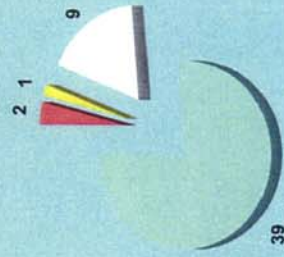
Number of unique TIP-related PI's = 51



# Overall TIP Indicator Best Possible Value Summary



March, 2004



Number of unique TIP-related PI's = 51

# Red/Yellow Performance Indicators

- ◆ General
  - Process Requirements Unique to Red/Yellow Indicator Status
  - New CAP-Related Actions Used to Re-Assess TIP (when appropriate)

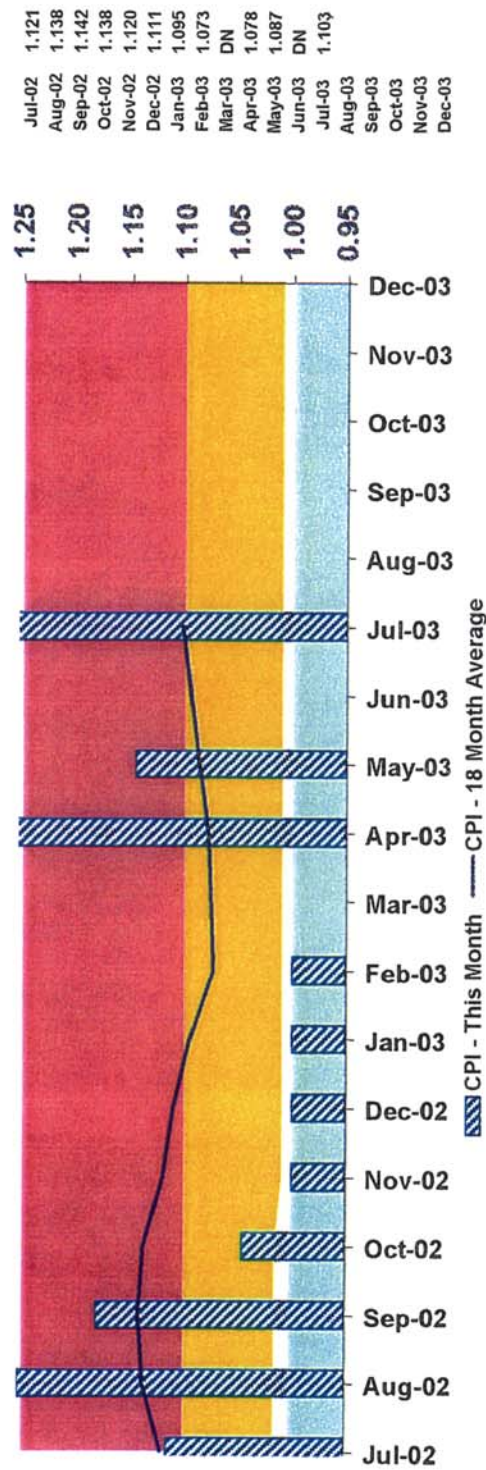
# Red/Yellow Performance Indicators

- ◆ Specific
  - Cause of Red/Yellow Status
  - Inputs
  - Impact on Effectiveness of Related Action Plan(s)
  - PI Applicability to CAL Issues
  - Actions Taken/Planned

Red/Yellow Pls



# Chemistry Performance Index 18 Month Average



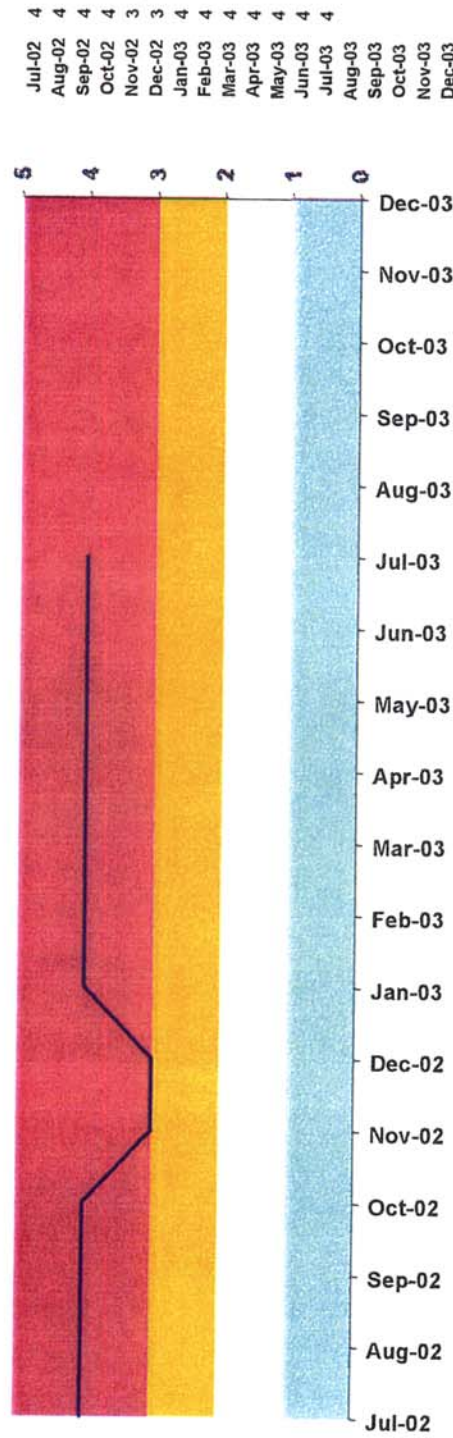
## THRESHOLD

GREEN	Excellent performance.	WHITE	Meets Goal.	YELLOW	Action required!	RED	Unsatisfactory!
	$\leq 1$ CPI - 18 Month Average		$\leq 1.01$ CPI - 18 Month Average		$\leq 1.1$ CPI - 18 Month Average		$> 1.1$ CPI - 18 Month Average

July, 2003



## Components in Accelerated Testing



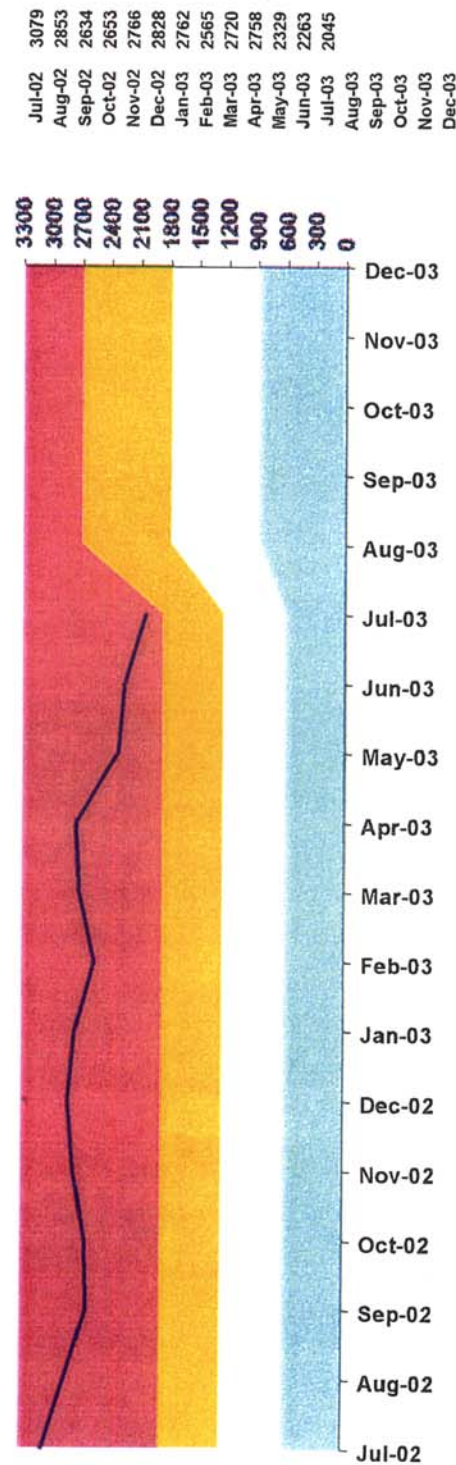
Components in Accelerated Testing

### THRESHOLD

<b>GREEN</b>	Excellent performance. ≤ 1 Components in Accelerated Testing	<b>WHITE</b>	Meets Goal. ≤ 2 Components in Accelerated Testing	<b>YELLOW</b>	Action required! ≤ 3 Components in Accelerated Testing	<b>RED</b>	Unsatisfactory! ≥ 3 Components in Accelerated Testing
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July, 2003

## Engineering Inventory



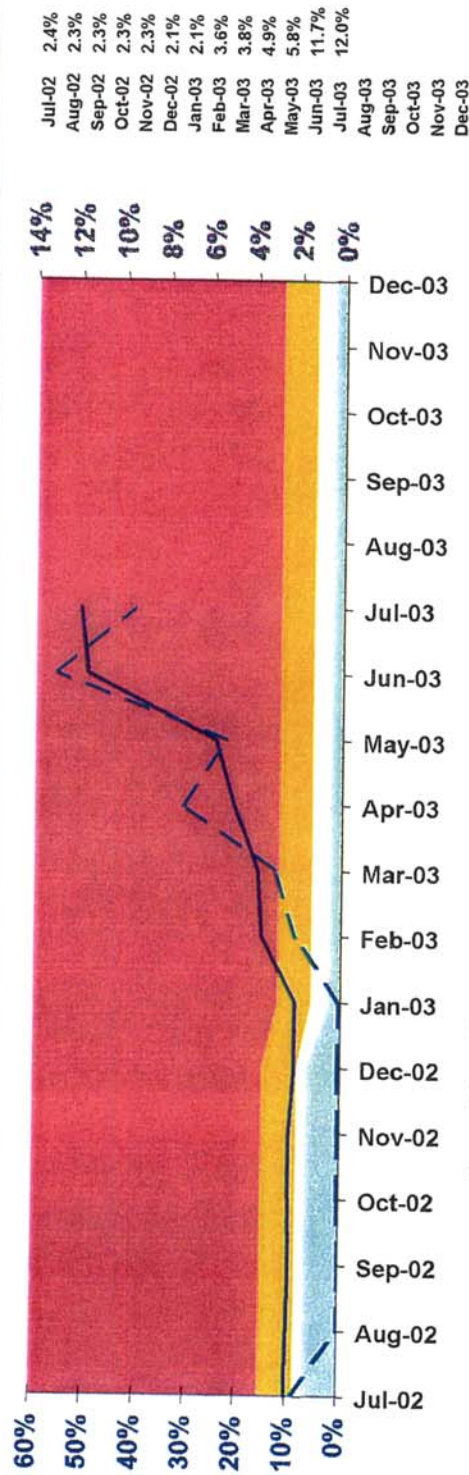
THRESHOLD

Color	Performance	Inventory
GREEN	Excellent performance.	<=625 Engineering inventory
WHITE	Meets Goal.	<= 1250 Engineering inventory
YELLOW	Action required	<=1875 Engineering inventory
RED	Unsatisfactory!	>1875 Engineering inventory

July, 2003



# Forced Loss Rate (18 Month)

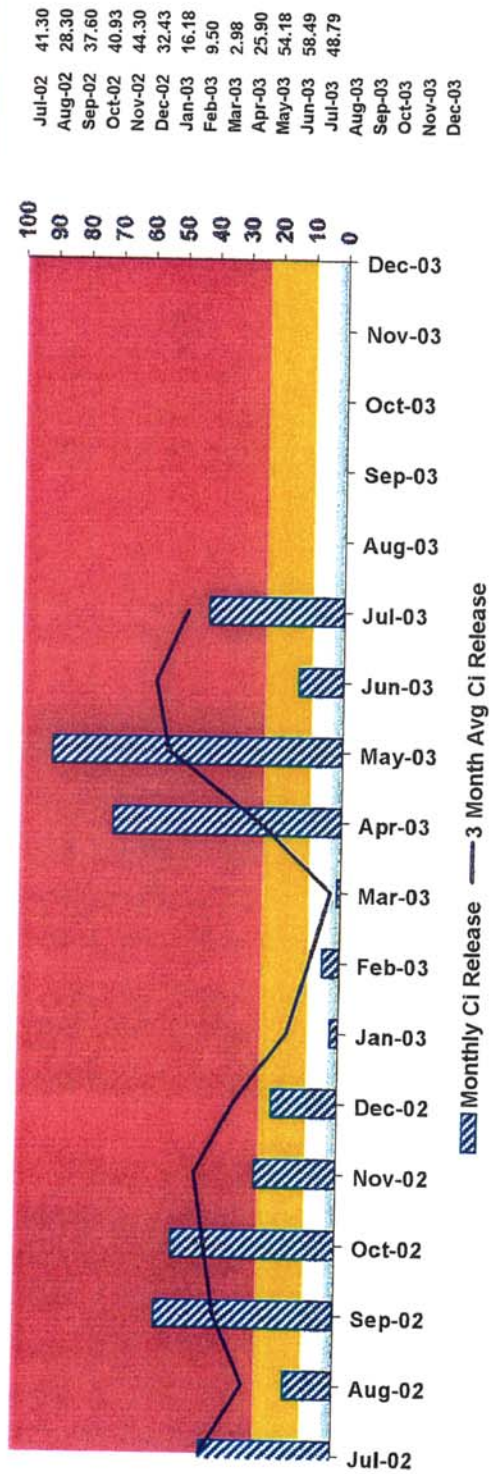


## THRESHOLD

GREEN	Excellent performance.	WHITE	Meets Goal.	YELLOW	Action required!	RED	Unsatisfactory!
<=0.56%	Forced Loss Rate (18 Months)	<=1.37%	Forced Loss Rate (18 Months)	<=2.87%	Forced Loss Rate (18 Months)	>2.87%	Forced Loss Rate (18 Months)

July, 2003

# Gaseous Effluent (3 Month Avg)



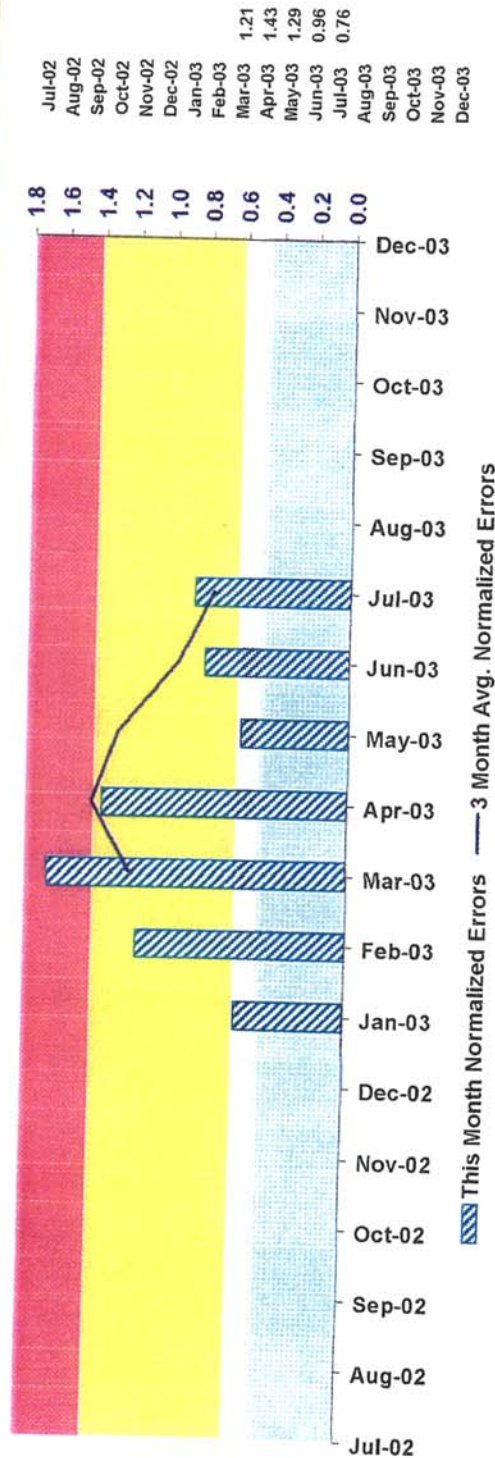
## THRESHOLD

GREEN	Excellent performance.	WHITE	Meets Goal.	YELLOW	Action required!	RED	Unsatisfactory!
<=2.9	3 Month Avg CI Release	<=10	3 Month Avg CI Release	<=24.3	3 Month Avg CI Release	>24.3	3 Month Avg CI Release

July, 2003



## Human Performance Error Rate (3 Month Avg)

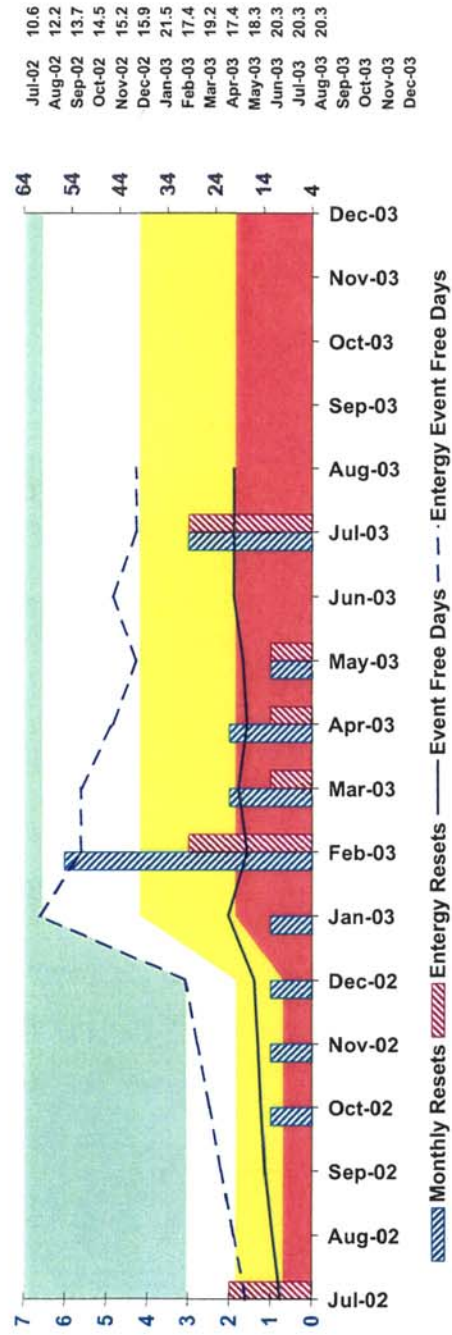


### THRESHOLD

GREEN	Excellent performance. ≤ 0.5 3 Month Avg. Normalized Errors	WHITE	Meets Goal. ≤ 0.63 3 Month Avg. Normalized Errors	YELLOW	Action required! ≤ 1.42 3 Month Avg. Normalized Errors	RED	Unsatisfactory! > 1.42 3 Month Avg. Normalized Errors
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July, 2003

# Human Performance Event Free Days (12 Month Avg)

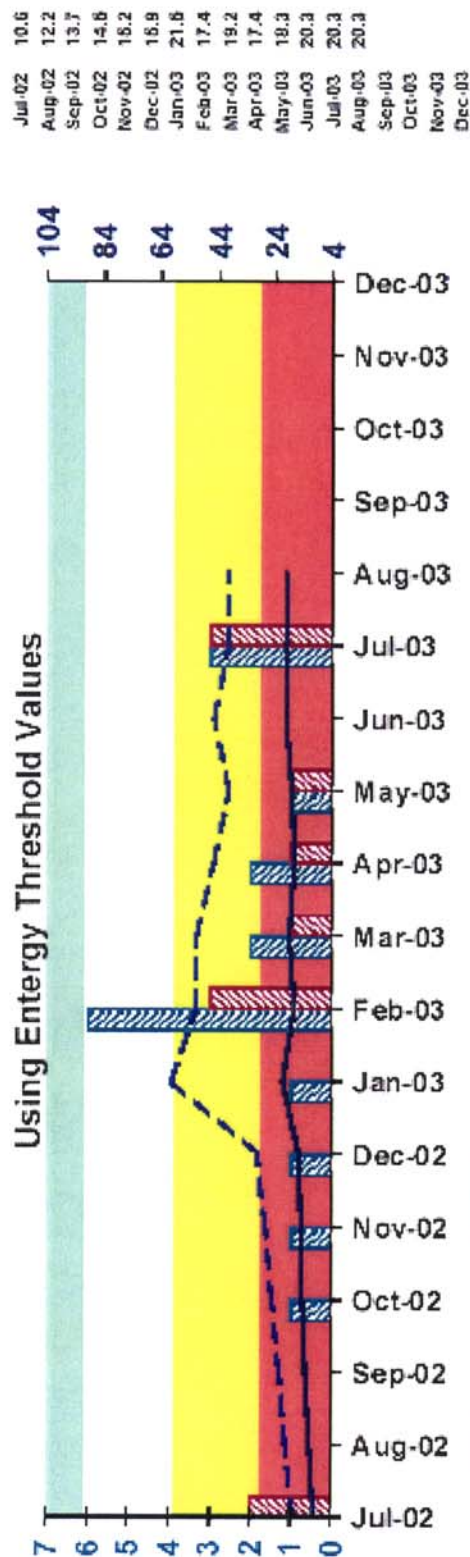


## THRESHOLD

GREEN Excellent performance. >=60 Event Free Days  
 WHITE Meets Goal. >=40 Event Free Days  
 YELLOW Action required! >=20 Event Free Days  
 RED Unsatisfactory! <20 Event Free Days

August, 2003

## Human Performance Event Free Days (12 Month Avg)



### THRESHOLD

<b>GREEN</b>	Excellent performance. >=50 Event Free Days	<b>WHITE</b>	Meets Goal. >=60 Event Free Days	<b>YELLOW</b>	Action required! >=90 Event Free Days	<b>RED</b>	Unsatisfactory! <30 Event Free Days
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### INDICATOR OWNER

Dave Montgomery

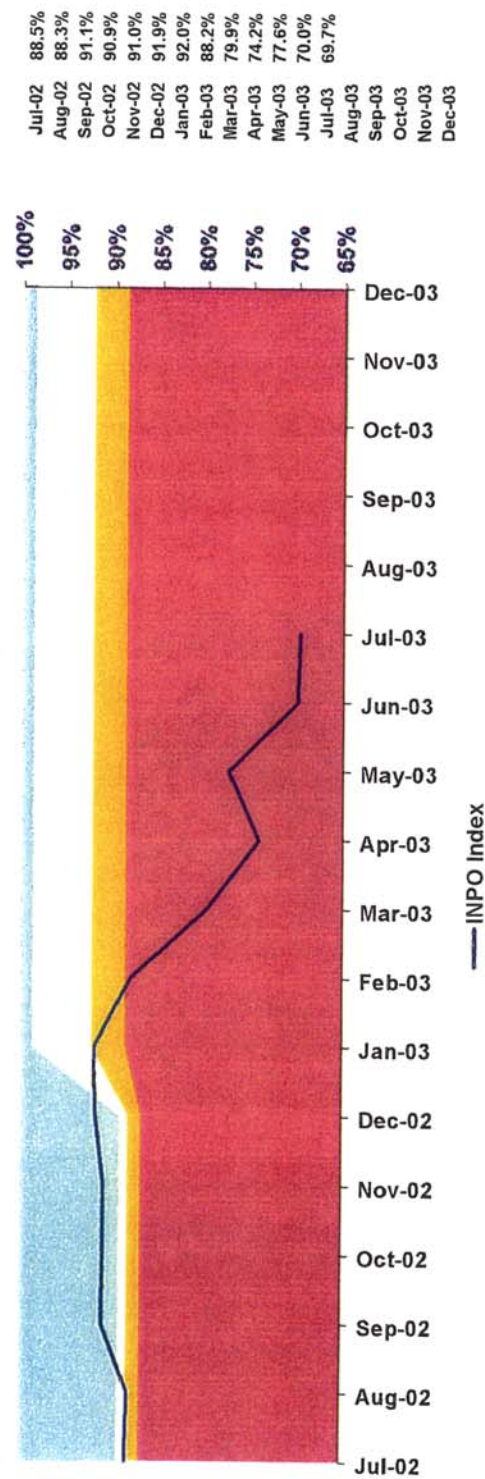
### PERFORMANCE MANAGER

Mike Boyce

August, 2003



## INPO Performance Index



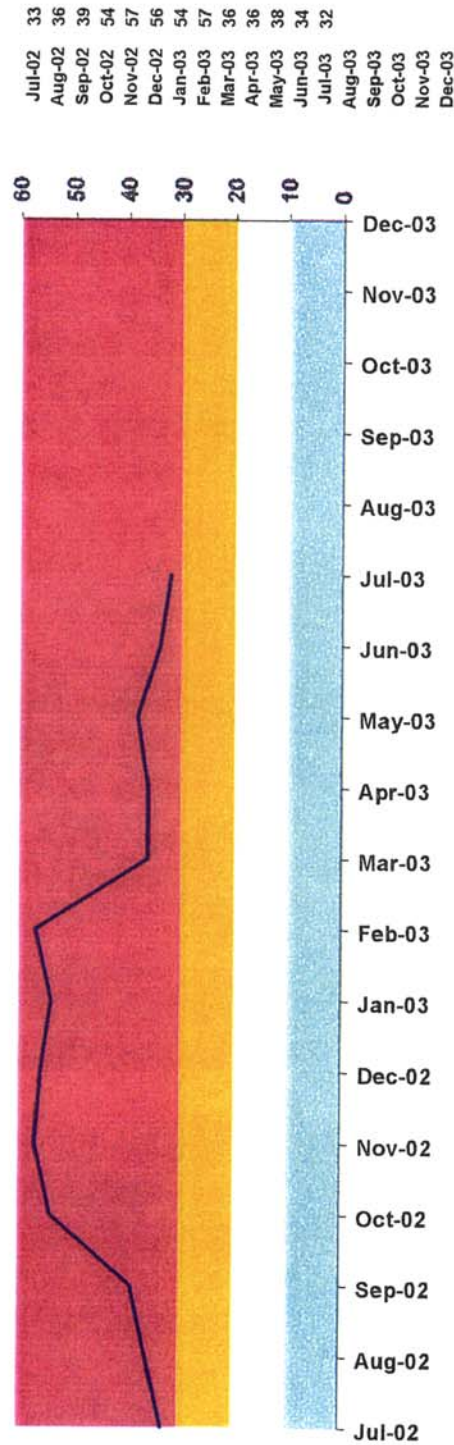
THRESHOLD

GREEN	Excellent performance.	WHITE	Meets Goal.	YELLOW	Action required!	RED	Unsatisfactory!
	>=98.7% INPO Index		>=92.5% INPO Index		>=88.7% INPO Index		<88.7% INPO Index

July, 2003



# Long Term Caution Orders

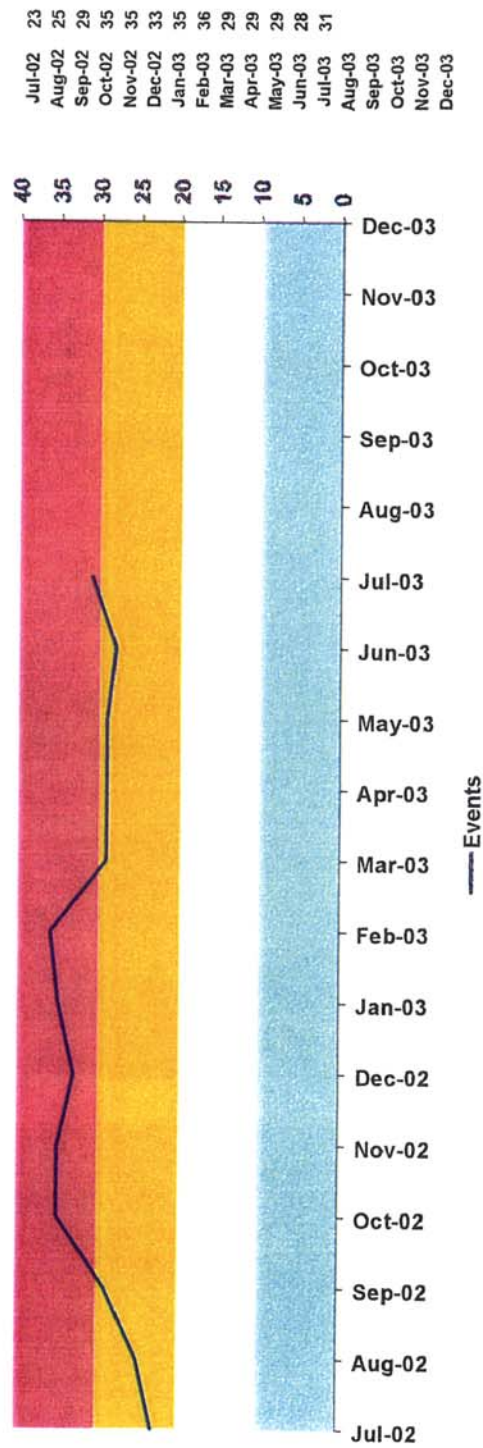


## THRESHOLD

GREEN	Excellent performance.	WHITE	Meets Goal.	YELLOW	Action required!	RED	Unsatisfactory!
≤ 10	Active Long Term Caution Orders	≤ 20	Active Long Term Caution Orders	≤ 30	Active Long Term Caution Orders	> 30	Active Long Term Caution Orders

July, 2003

# Long Term Clearance Orders

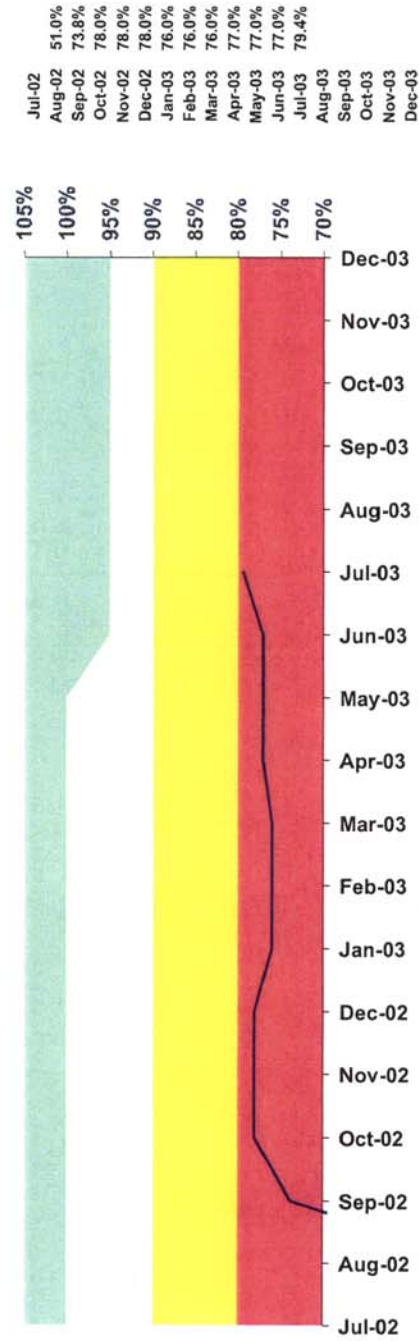


## THRESHOLD



July, 2003

## Management Ownership of Training



— Training Ownership Score

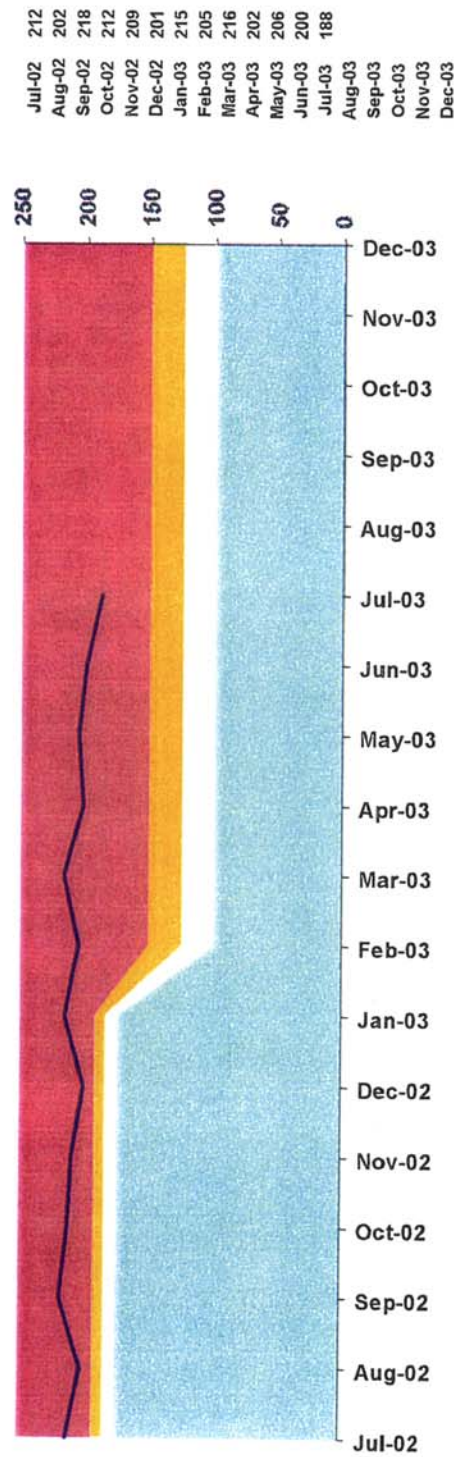
### THRESHOLD



July, 2003



# On-Line Corrective Maintenance Backlog



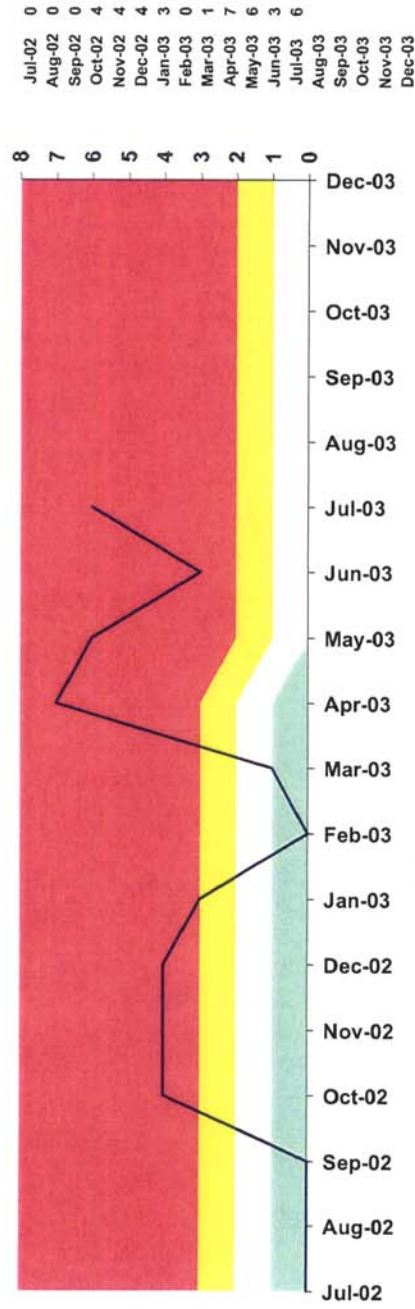
## THRESHOLD

**GREEN** Excellent performance. <=100 Backlog Orders  
**WHITE** Meets Goal. <=125 Backlog Orders  
**YELLOW** Action required! <=150 Backlog Orders  
**RED** Unsatisfactory! >150 Backlog Orders

July, 2003



# Overdue PM's



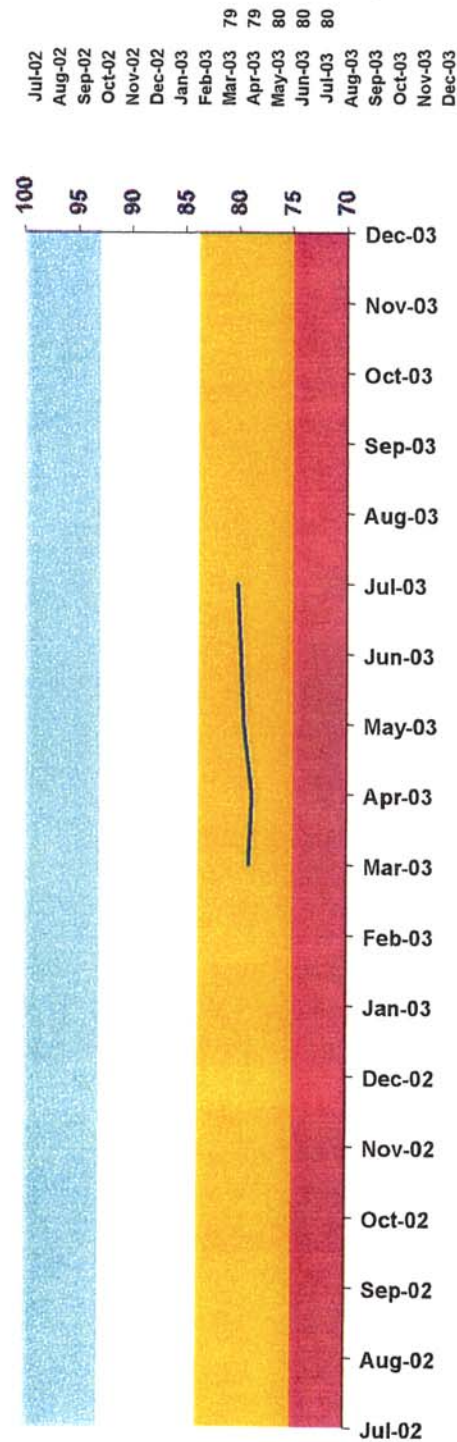
— Number of Overdue PM's

## THRESHOLD

<b>GREEN</b>	Excellent performance. <=0 Number of Overdue PMs	<b>WHITE</b>	Meets Goal. <=1 Number of Overdue PMs	<b>YELLOW</b>	Action required! <=2 Number of Overdue PMs	<b>RED</b>	Unsatisfactory! >2 Number of Overdue PMs
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July, 2003

# CNS Program Health

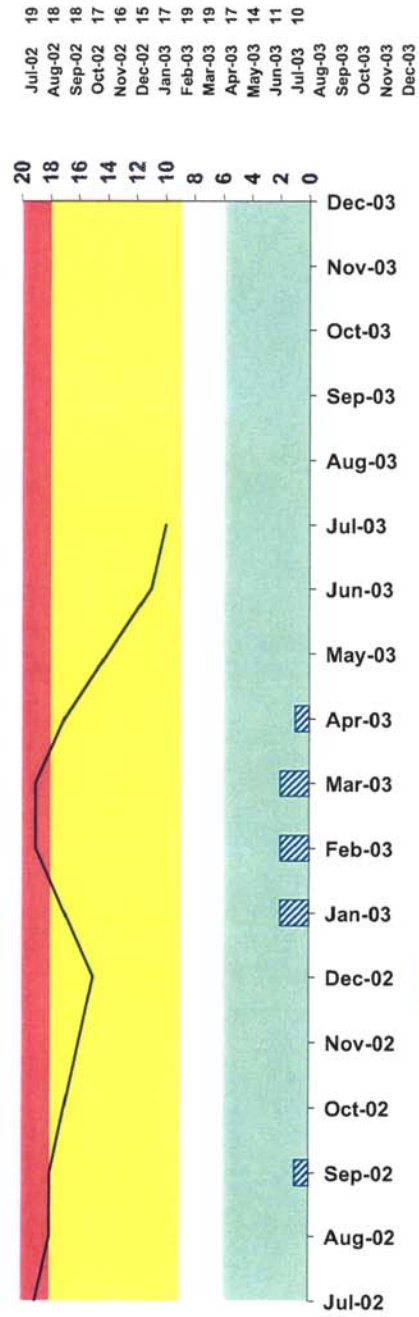


## THRESHOLD



July, 2003

# **Risk Significant Functional Failures (18 Month Total)**



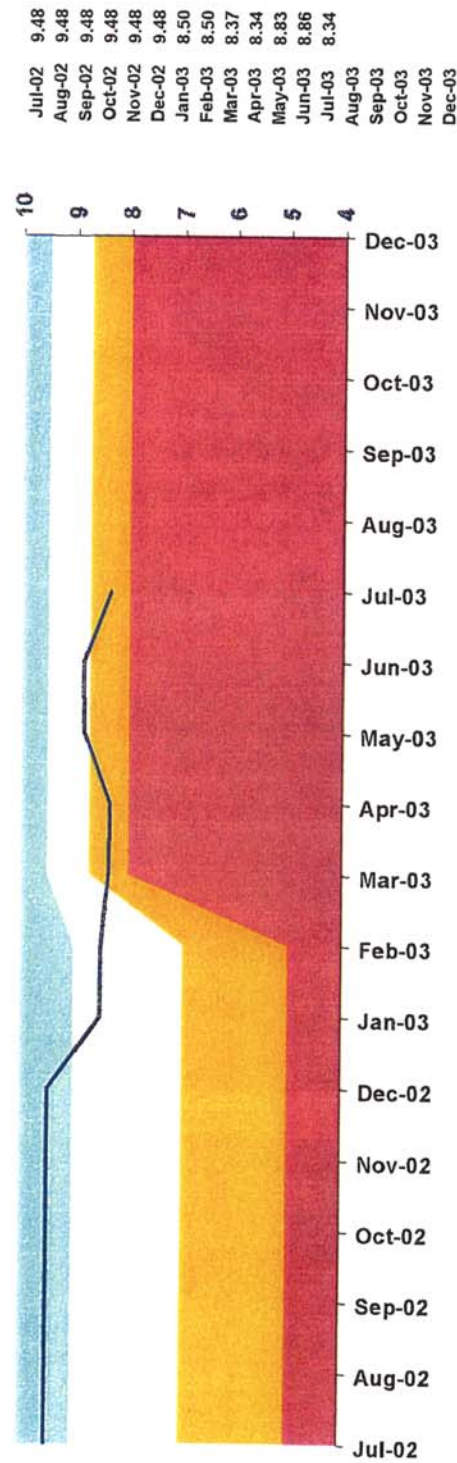
## **THRESHOLD**

**GREEN** Excellent performance. <=6 Failures in 18 Months  
**WHITE** Meets Goal. <=9 Failures in 18 Months  
**YELLOW** Action required! <=18 Failures in 18 Months  
**RED** Unsatisfactory! >18 Failures in 18 Months

**July, 2003**



# System Health



## THRESHOLD



July, 2003



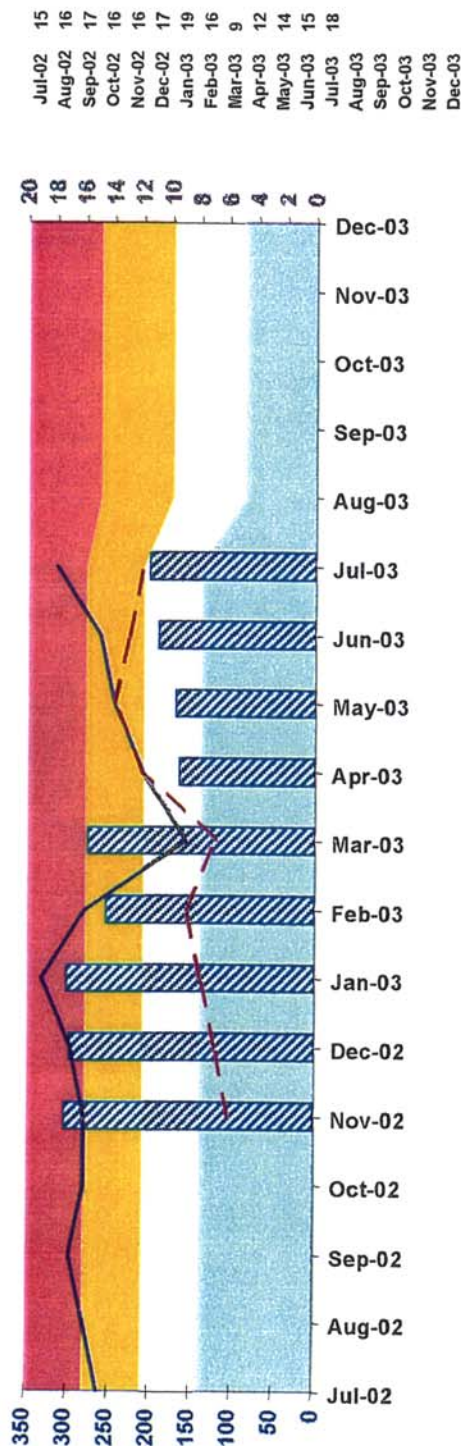
# System Health Summary

July 2003

AS WHITE	CF GREEN	CRD WHITE	CRV GREEN	CS GREEN	CW YELLOW	DG RED
EE-AC RED	EE-DC YELLOW	EE-SY RED	ES RED	FP YELLOW	HPCI WHITE	HV RED
IA/SA YELLOW	MC YELLOW	MI WHITE	MS(RB) WHITE	MS(TB) WHITE	NBI WHITE	NM WHITE
OG YELLOW	OWC YELLOW	PC WHITE	RCIC GREEN	REC WHITE	RF GREEN	RFC YELLOW
RHR WHITE	RM RED	RPS GREEN	RR GREEN	RW WHITE	RWCU WHITE	SGT WHITE
SLC GREEN	SW RED	TEC GREEN	TG RED	TGC GREEN	TGE YELLOW	TGF GREEN

8.34

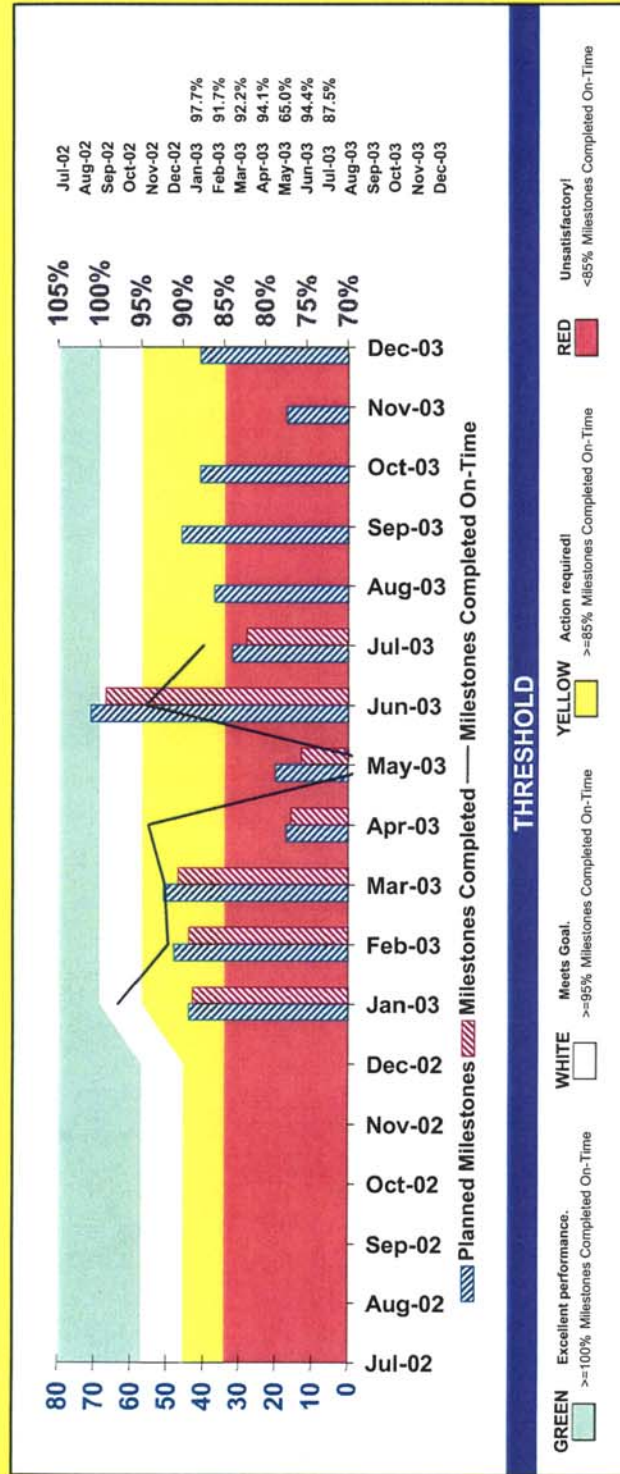
# Temporary Modifications



## THRESHOLD

July, 2003

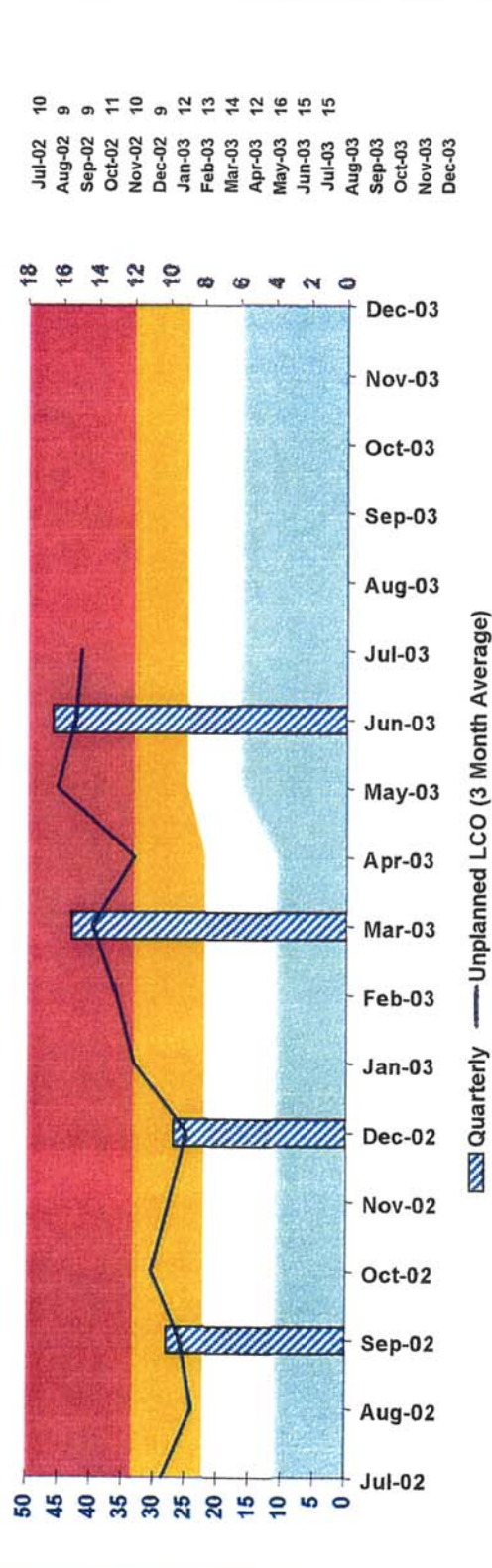
## Strategic Improvement Plan (TIP) Schedule Adherence



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## Unplanned Entries Into LCO's

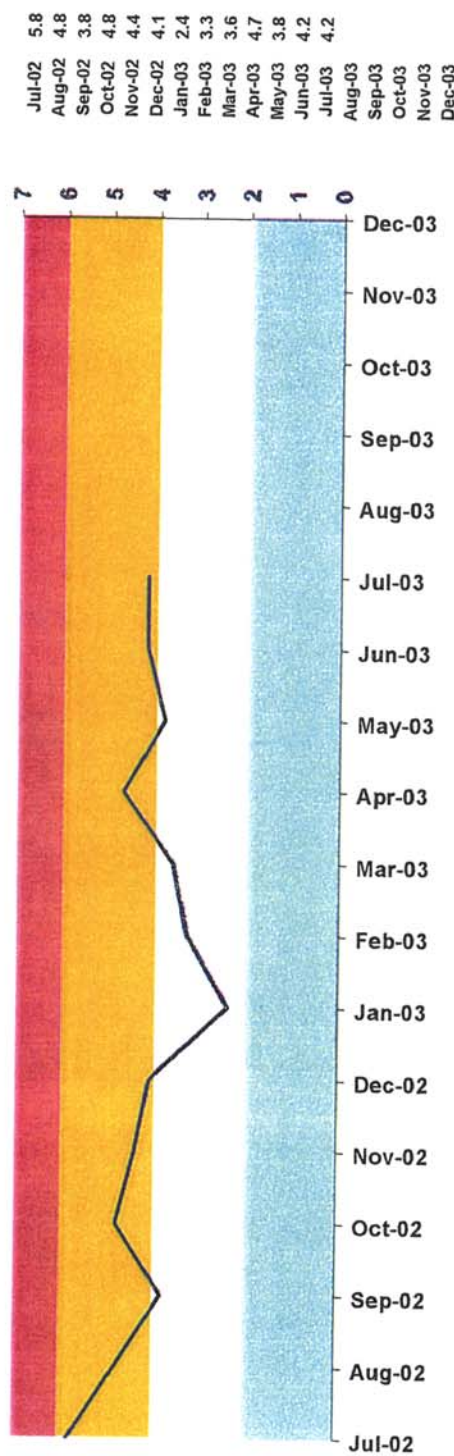


### THRESHOLD



July, 2003

## Unplanned Power Changes per 7000 Critical Hours



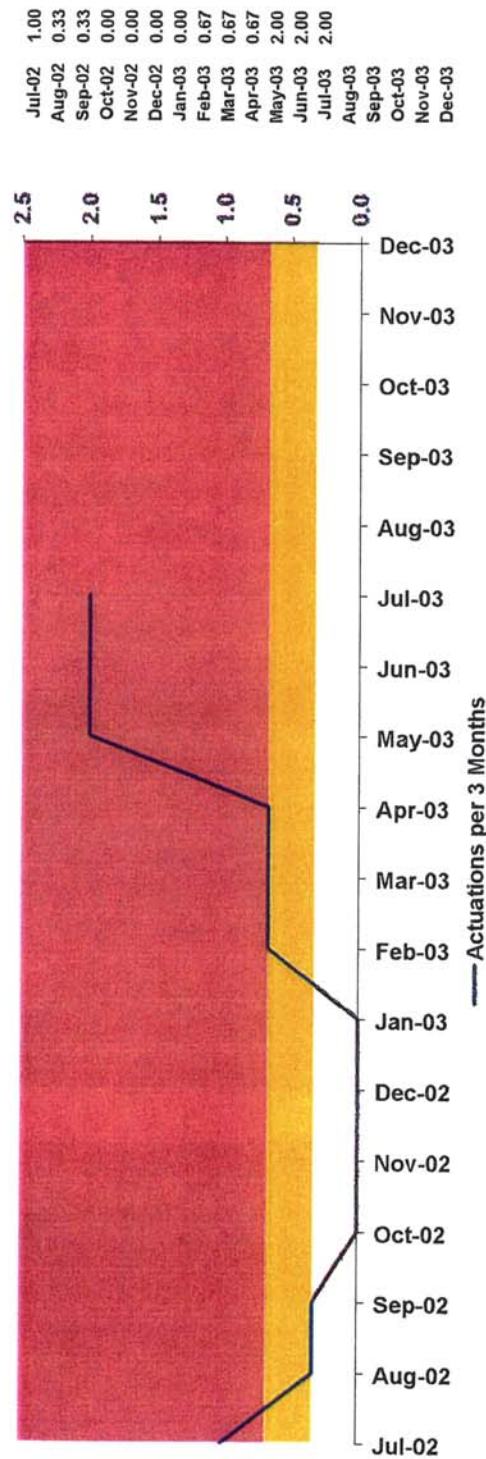
### THRESHOLD



July, 2003



# Unplanned Safety System Actuations



## THRESHOLD

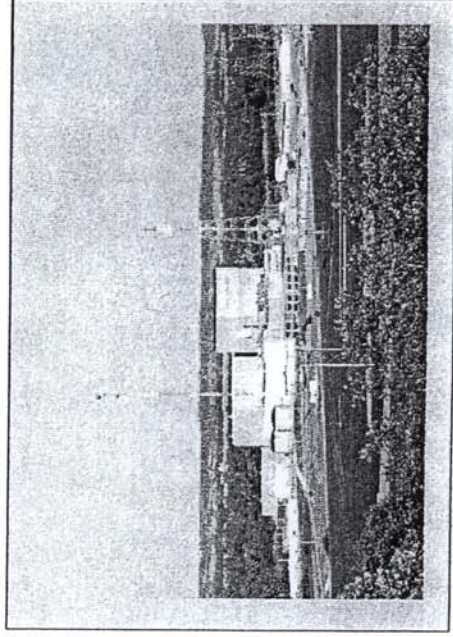
GREEN	Excellent performance. ≤ 0 Actuations per 3 Months	WHITE	Meets Goal. ≤ 0.33 Actuations per 3 Months	YELLOW	Action required! ≤ 0.67 Actuations per 3 Months	RED	Unsatisfactory! > 0.67 Actuations per 3 Months
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July, 2003



# CAL Strategy

Clay Warren

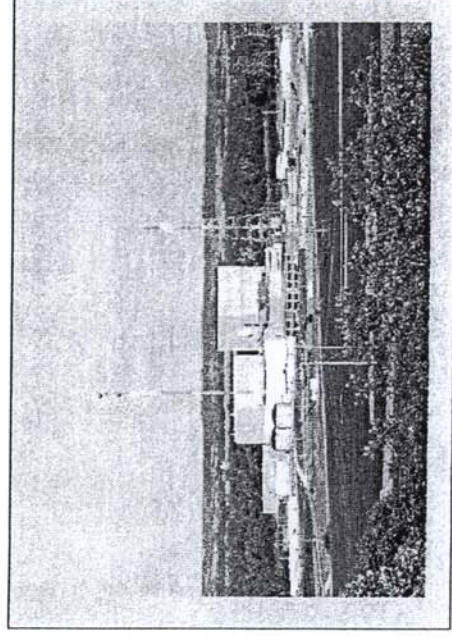


# CAL Closure Readiness

- ◆ NPPD
  - Structured CAL Closure Review Process
    - Effectiveness Reviews
      - CAP used to address effectiveness issues
    - Roll-up of detailed indicators to assess overall performance
      - Focus on performance trend; ability of process to achieve/maintain improved performance
  - CAL Closure Readiness Letter from NPPD
- ◆ NRC inspection/closeout of Six CAL Categories

# Closing Remarks

Clay Warren  
Chief Nuclear Officer





ATTACHMENT 3 LIST OF REGULATORY COMMITMENTS
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Correspondence Number: NLS2003103

The following table identifies those actions committed to by Nebraska Public Power District (NPPD) in this document. Any other actions discussed in the submittal represent intended or planned actions by NPPD. They are described for information only and are not regulatory commitments. Please notify the Licensing & Regulatory Affairs Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

COMMITMENT	COMMITTED DATE OR OUTAGE
None	