YUCCA MOUNTAIN PROJECT



June 2002

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U.S. Department of Energy Office of Civilian Radioactive Waste Management

Yucca Mountain Project Monthly Performance Indicators Report June 2002 Executive Summary

Safety

The Site Stand-down continues as a result of the 3/26/02 near miss electrical incident. A project team was appointed to conduct a root cause analysis of the incident, which identified the following causes: 1) Failure to follow procedures; 2) Lack of accountability, enforcement of standards, policies and administrative controls; 3) Communications failures; and 4) Organizational weaknesses.

Implementation of root cause analysis recommendations has begun with the following actions: 1) Realignment of the site management team, including establishment of new management positions in operations and maintenance; 2) Restarting physical work incrementally as work orders are rewritten and approved by management; 3) Establishing an ad hoc committee to oversee the revision of existing procedures and the development of new ones; and 4) Increasing the independent oversight of work activities by using quality control personnel as well as safety and health personnel. A recovery plan is being developed (due August 2002) to coordinate changes to site procedures, operations and management. Additional information may be found under 'Projects Root Cause Analysis Reports' under 'Accessing Documents and Data' on the BSC Intranet. (Page 4)

Quality

The number of new DRs generated from increased QA surveillance/inspection activity is greater than their rate of closure resulting in a steady rise in the number of open deficiencies. These numbers do not include Quality Observations.

The number of nonconforming conditions identified during the site stand down continues to outpace the incremental restart of physical work to correct them leading to a steady increase in the number of open NCRs. (page 7)

Measures

Open Condition/Issue Identification and Reporting/Resolution System (CIRS) items are on a six-month upward trend, increasing 45% since January 2002. The site stand down is a major contributor to the increasing backlog. New CIRS items likewise are on an increasing trend, up 150% since January 2002. Reasons for this month's increase include: 1) Standards and Requirements Identification Database (SRID) CIRS items due to a YMSCO/BSC joint review of BSC's property management system, 2) Self Assessment CIRS items, and 3) ES&H Compliance Surveillance CIRS items. (page 11)

Monthly Performance Indicators Table of Contents

- I. Bechtel SAIC Company, LLC (BSC)
 - IA. Safety Indicators
 - IB. Quality Indicators
 - IC. BSC Measures
- II. DOE Measures (section highlights DOE activities)

Performance Legend (for goal charts only):

Colored boxes are located at the bottom right hand corner of goal charts and in the notepages to denote current performance levels using the following criteria (unless other specific criteria is listed on the chart page):

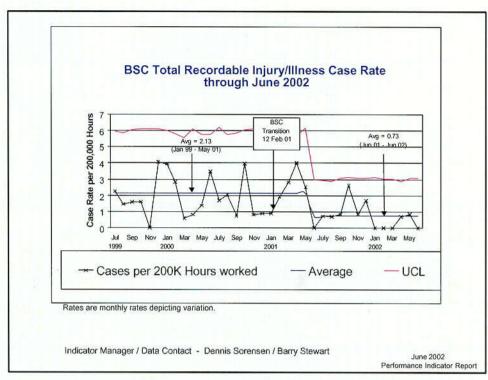
Green = Satisfactory (i.e., on target or exceeds goal; within expected standard deviation) $Y_{\rm ellow}$ = Needs Improvement (i.e., may be on target but negative trend exists; in danger of missing target; improvement needed)

Red = Unsatisfactory (i.e., does not meet target goal; major deficiencies)

June 2002 Performance Indicator Report

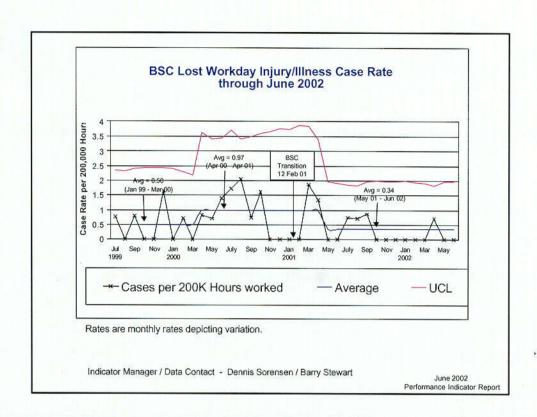
Notes:

- Average Age trendlines have been added to the 'CIRS by Priority' chart (page 12).
- OCRWM Concerns Program indicators will not be included until further notice.



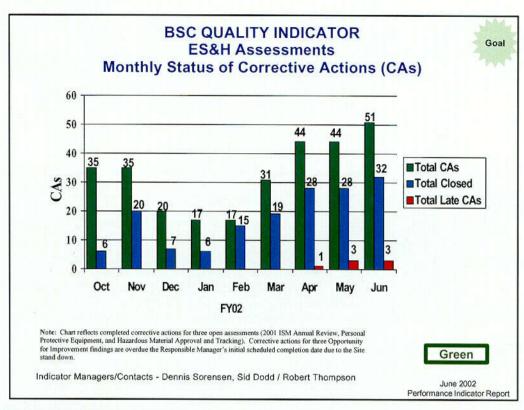
- May = 0.00 TRCR GREEN, 0.00 LWDCR GREEN
- Recordable cases include occupational injuries, illnesses, loss of consciousness, restriction of work motion, days away from work, transfer to another job, medical treatment beyond first aid.
- Lost Workday Cases include cases with days away from work, or days of restricted work activity, or both.
- Cases are OSHA Total Recordable Cases or Lost Workday Cases. UCL = Upper Control Limit (3 Sigma standard deviation). Mean (Average) is recalculated when trend warrants. Dates represent the period of time for the specific average shown. Chart data points indicate the end of the month displayed.
- The trend analysis definitions provided below should be used for determining condition flags - green, yellow or red.
 - Chart Black Line = Case Rate (Cases per 200,000 Hours).
 - Chart Blue Line = Case Rate Average (Mean).
 - Chart Magenta Line = Three Sigma (Three Standard Deviation) Control Limit
 - Control Charts detect data trends. The following are data trends definitions:
 - Individual data points above the (magenta) control limit
 - Seven data points in a row all above or below the (blue) average
 - Seven data points in a row all increasing or decreasing
 - Ten out of eleven data points in a row all above or below the (blue) average
 - Cycles or other non-random data patterns

(Discussion continued on next chart)



SUMMARY OF CURRENT MONTH'S PERFORMANCE (Cont.) GREEN

No recordable cases in June.



Goal/Performance Criteria

Green Assigned when no more than 10 percent of assessment corrective actions are late (past the Responsible Manager's [RM] scheduled completion date)

Yellow Assigned when over 10 percent of assessment corrective actions are late and no significant impacts or work stoppage result from the findings/actions.

Red Assigned for any late corrective action where a regulatory noncompliance condition was determined to pose a potential **significant** risk to public health, safety, and the environment.

Note: CAs and scheduled completion dates are provided by the RMs for each finding and identified in the Assessment Report.

SUMMARY OF CURRENT MONTH'S PERFORMANCE

Overall Performance GREEN

TRENDS

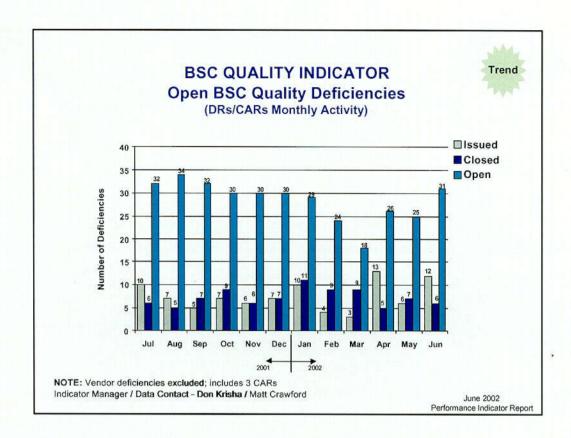
A small up trend in overdue CAs is due to higher priority Site stand down corrective actions being taken by Area 25 staff.

CORRECTIVE ACTIONS

RMs assign appropriate priority to meeting their scheduled/approved CA completion dates.

All CAs are entered into CIRS.

Progress on late CAs is tracked by the Lead Assessor.



Issued 12

Closed 6

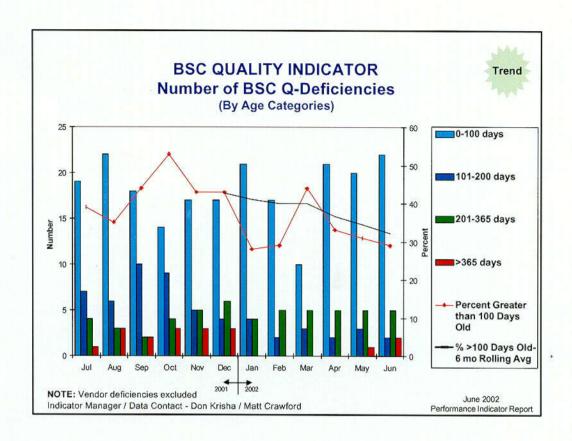
Total open 31

Of the 6 DRs closed:

- · 0 DRs were open 365 days or greater
- · 1 DRs were open >100 days
- · 5 DRs were open <100 days

TRENDS

The number of deficiencies issued during June increased from six to twelve and the number of deficiencies closed decreased from seven to six. The total number of deficiencies issued is moving upward due to increased findings resulting from the newly implemented QA surveillance activity.



Aging (BSC only)

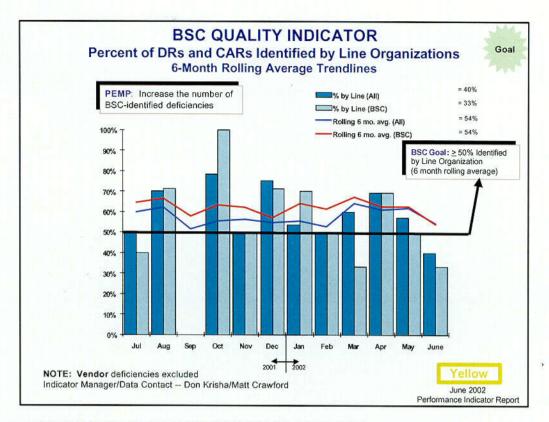
BSC = 29% (9 of 31) of the open deficiencies exceed 100 days old.

Organization	BSC DRs1	>100 ²	>200 ²	>365 ²
Projects	22		3	2
HR & Training	2		2	
Procurement	1			
Site	4	2		
CIO	2			
Totals	31	2	5	2

TRENDS

The rolling average depicting the percent of deficiencies open greater than 100 days continues on a downward trend. This downward trend is due to the higher levels of new DRs resulting from increased self-assessment and surveillance activity. The percent of deficiencies open greater than 100 days decreased from 36% to 29% in June. The number of deficiencies open greater than 200 days increased from 6 to 7 and the number open less than 200 days increased from 19 to 24.

¹BSC only, does not include Vendor deficiencies ²Days



- 4 of 12 (33%) BSC deficiencies issued in June were identified by BSC line personnel.
- · Rolling 6-month average:

Deficiencies initiated by OQA and BSC audits/surveillances

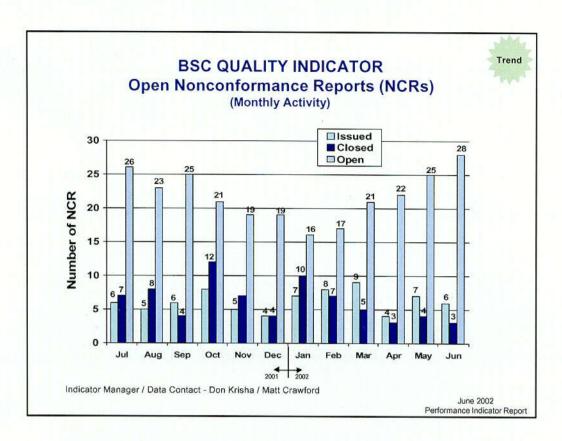
- Jan '02 = 3 of 10 (30%)
- Feb '02 = 2 of 4 (50%)
- Mar '02 = 2 of 3 (67%)
- Apr '02 = 4 of 13 (31%)
- May '02 = 3 of 6 (50%)
- June '02 = 8 of 12 (67%)

TRENDS

The rolling six-month average of deficiencies identified by the line organization was 54% and has remained above the goal for 14 months. However, the percentage of line identified deficiencies dropped from 50% to 33% from May to June due to the additional QA identified deficiencies resulting from the new surveillance activity.

CORRECTIVE ACTION

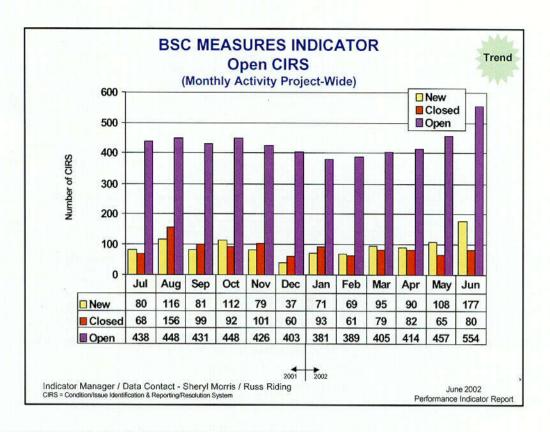
The need to self-identify deficiencies has been documented in Self Assessments (i.e. SA-OLRC-2002-005), entered into the Condition/Issue Identification & Reporting/Resolution System (CIRS) (i.e. Item 2418) and BSC Senior Management has requested all levels of management to continuously reinforce the importance of self identifying issues.



Issued	Closed	Open
6	3	28

TRENDS

The number of open NCRs continues on an upward trend as a result of the evaluations of site systems by Site Engineering and the limited amount of construction work allowed at the site.

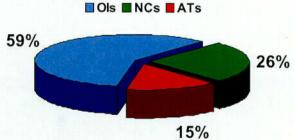


The following tables provide a comparison between BSC CIRS activities and Project CIRS activities. This analysis indicates that BSC CIRS activities are consistent with Project CIRS activities.

Open CIRS by category (BSC Only)

CIRS Type	Issued	Closed	Totals
Ols	101	67	301
NCs	58	10	132
ATs	0	0	76
Trends	0	0	0
Totals	159	77	509

Percent of CIRS by Type (BSC Only)

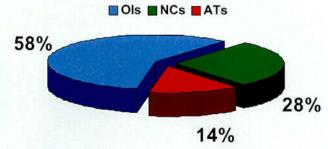


The pie charts show that the percentage of each CIRS type for BSC is consistent with project wide initiation of these same items.

Open CIRS items by category (Project)

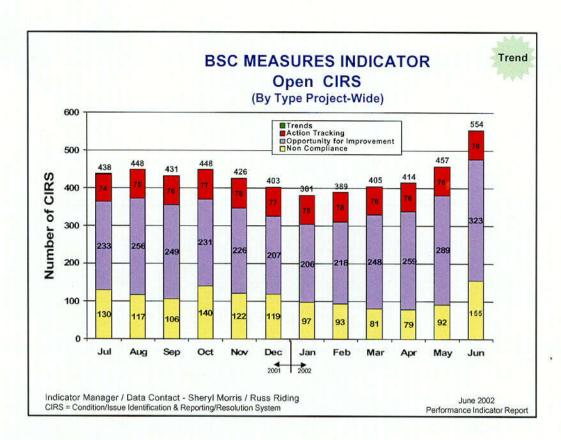
CIRS Type	Issued	Closed	Totals
Ols	104	70	323
NCs	73	10	155
ATs	0	0	76
Trends	0	0	0
Totals	177	80	554

Percent of CIRS by Type (Project)



(Summary continued on next page)

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(Summary continued from previous page)

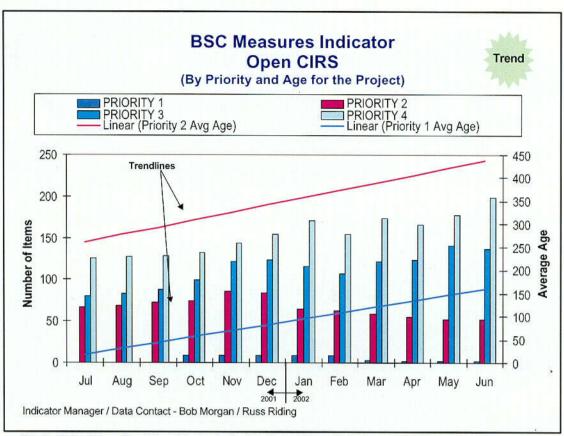
The percentage of BSC CIRS activity compared to Project total is 92%.

TRENDS

The percent of BSC open CIRS items is consistent with the project percentages as indicated by the tables and pie charts on the previous pages.

The number of total open Project CIRS items increased by 97 from 457 to 554 (21%). The number of Opportunities for Improvement (OIs) increased from 289 to 323 (12%) and the number of Noncompliances (NCs) increased from 92 to 155 (68%). The number of Action Tracking remained constant at 76.

Open CIRS are on a six month increasing trend, increasing 45% since January 2002. This month's total is higher than any month going back to December of 2000.



Priority 1) Significant Conditions Adverse to Quality, Operability or Safety

Priority 2) Conditions Adverse to Quality or Safety

Priority 3) Low Impact Items Priority 4) Potential Improvements

Note: Not all CIRS items are prioritized.

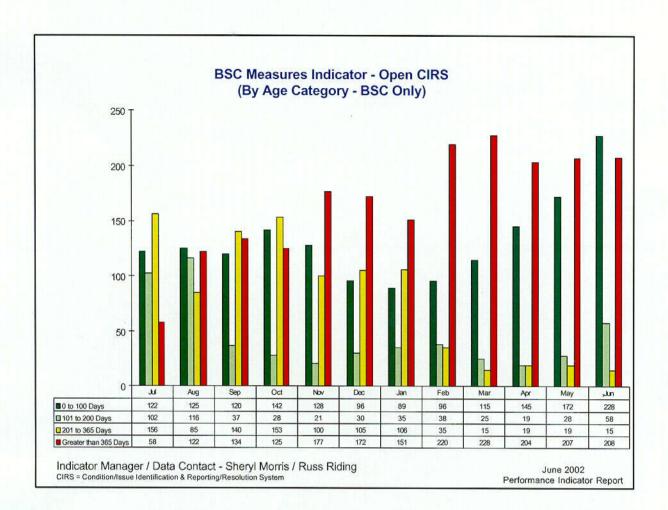
SUMMARY OF CURRENT MONTH'S PERFORMANCE

The number of Priority 1 and Priority 2 items remained constant in June. The number of Priority 3 items decreased 3% going from 141 to 137. The number of Priority 4 items increased 12% going from 178 to 199.

The average age of Priority 1 items increased 12% going from 132 to 162 days. The average age of Priority 2 items increased 19% going from 439 to 458 days.

TRENDS

The average age of Priority 1 and Priority 2 items is on an increasing trend. The average age of Priority 1 items is increasing less dramatically than the average age of Priority 2 items.



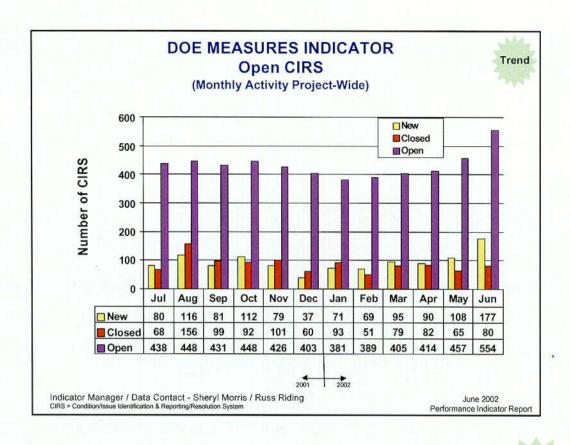
Open CIRS in the 0-100 days category increased from 172 to 228 representing a 33% increase. Open CIRS in the 101-200 days category more than doubled going from 28 to 58.

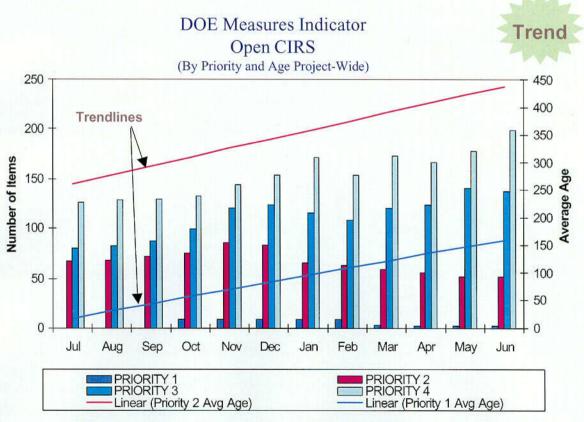
TRENDS

The chart below provides a breakdown of the current months OIs and NCs by age. By the end of June, the following CIRS items (OIs and NCs) will migrate to the specified age boundary.

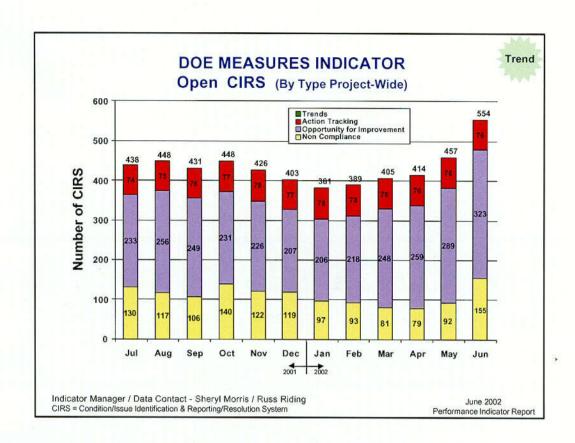
- 18 will move to the 101 to 200 days age category
- 7 will move to the 201 to 365 days age category
- · 2 will move to greater than 365 days age category

Age	Ols	NCs	ATs	Total
0-100 Days	136	91	1	228
101-200 Days	48	8	2	58
201-365 Days	6	7	2	15
>365	111	26	71	208
Total	301	132	76	509





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- Open CIRS Noncompliances (NCs = non-Q deficiencies) increased from 92 to 155.
- Open CIRS Opportunities for Improvement (Ols) increased from 289 to 323.
- Open CIRS Action Tracking (AT) remained constant at 76.

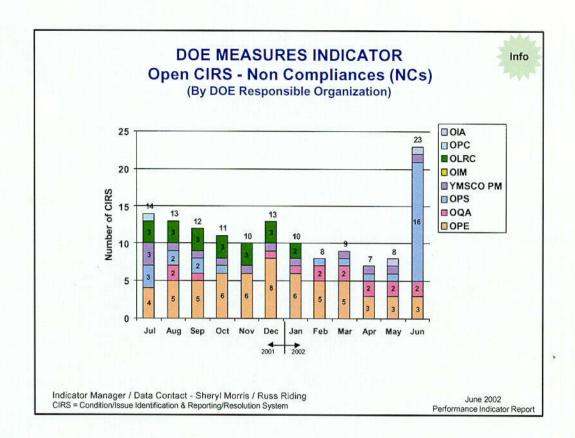
Project CIRS Items by Age Category

Age	Ols	NCs	ATs	Total
0-100 Days	148	107	1	256
101-200 Days	55	10	2	67
201-365 Days	8	8	2	18
>365	112	30	71	213
Total	323	155	76	554

TRENDS

The number of CIRS open items have increased 45% since January 2002.

CORRECTIVE ACTIONS

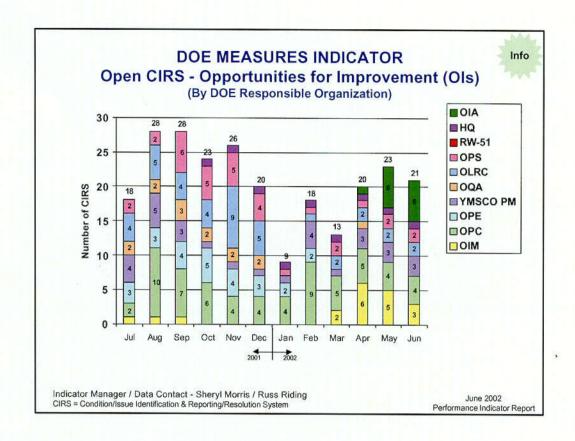


Open DOE CIRS Noncompliances (NCs = non-Q deficiencies) have increased from 8 to 23 (188%).

TRENDS

There was a sharp jump in the number of NCs assigned to the Office of Project Support (OPS). The reason for this is Standards and Requirements Identification (SRID) CIRS items input due to a YMSCO/BSC joint review of BSC's property management system.

CORRECTIVE ACTIONS

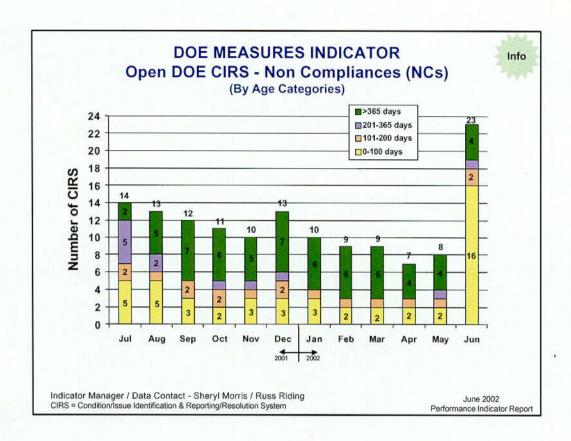


Open DOE CIRS Opportunities for Improvement (OIs) decreased from 23 to 21.

TRENDS

The Office of Institutional Affairs and Office of Project Controls have the majority of Ols.

CORRECTIVE ACTIONS

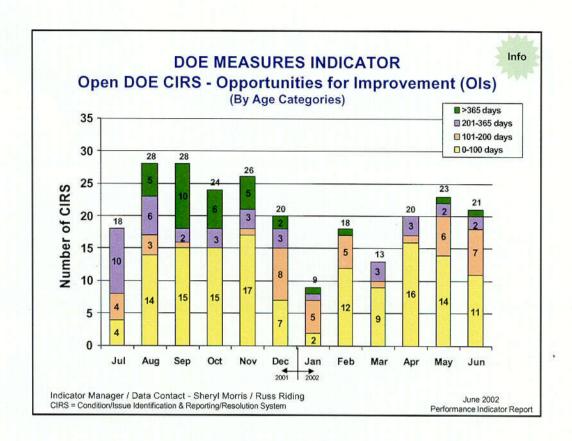


Number of DOE CIRS Noncompliances (NCs = non-Q deficiencies) greater than 100 days old increased from 6 to 7.

TRENDS

NCs in the 0-100 days category jumped from 2 to 16. The reason for this is Standards and Requirements Identification (SRID) CIRS items input due to a YMSCO/BSC joint review of BSC's property management system.

CORRECTIVE ACTIONS



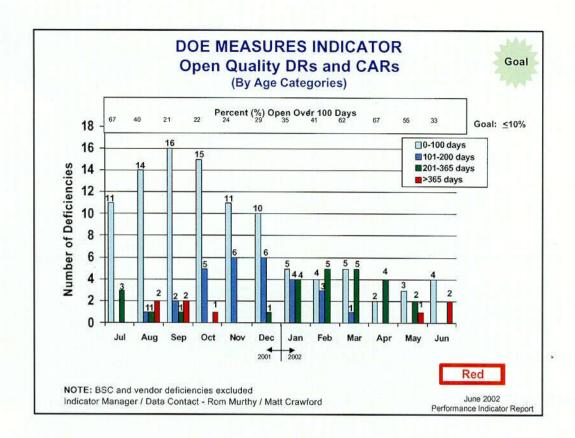
The number of DOE CIRS Opportunities for Improvement (OIs) greater than 100 days old increased from 4 to 9.

TRENDS

One OI migrated beyond the 365 day age boundary.

CORRECTIVE ACTIONS

No corrective actions identified at this time.



Non-BSC Goal = ≤ 10% of Open Deficiencies over 100 days old

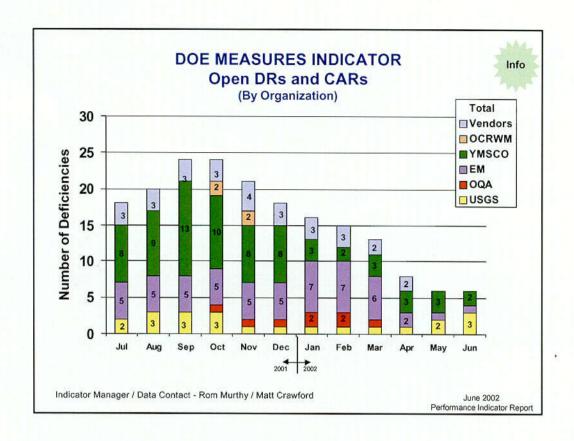
2 of 6 (33%) DRs over 100 days old

TRENDS

The average age of open deficiencies has steadily decreased over the as the number has trended downward over the last 9 months and stabilized at six. Four of the remaining six are less than 100days old, while two are over one year old.

CORRECTIVE ACTIONS

No corrective action identified at this time.



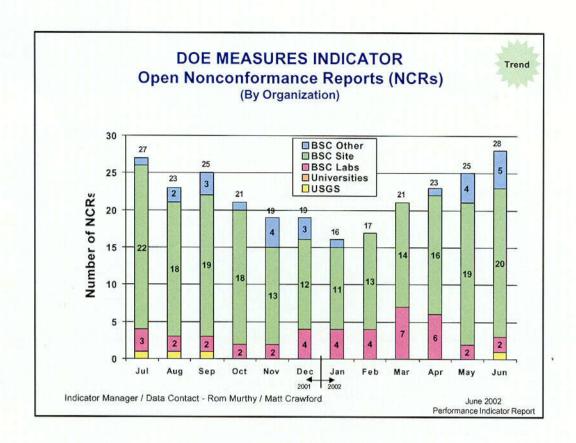
The total open DOE DRs remains at 6.

TRENDS

The total open DOE DRs continues on a downward trend. During June the USGS deficiencies decreased from three to two, while YMSCO increased by one and EM remained at one.

CORRECTIVE ACTIONS

None.



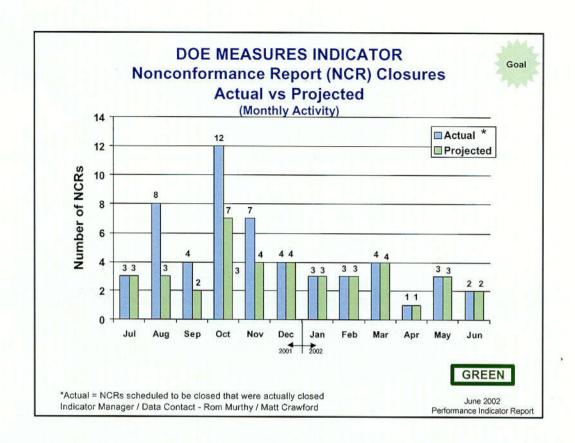
The number of open NCRs increased from 25 to 28.

TREND

The number of open NCRs increased by three during June. The number of open NCRs in the "Other" category and at the Site increased by one while the number at the labs remained at 2.

CORRECTIVE ACTIONS

None required at this time.



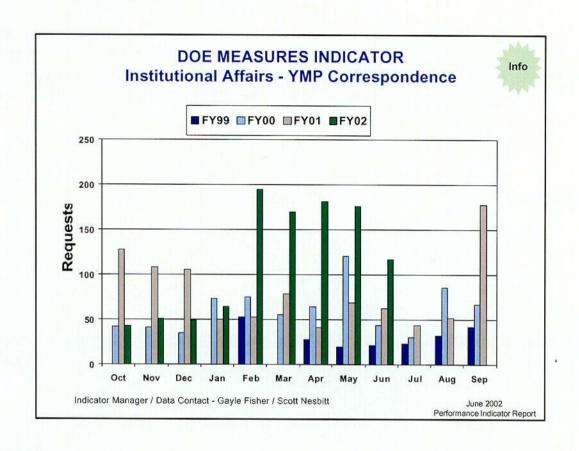
Two NCRs that were scheduled to be closed were closed..

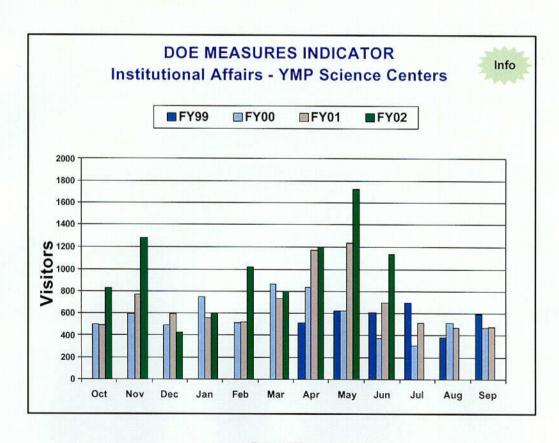
TRENDS

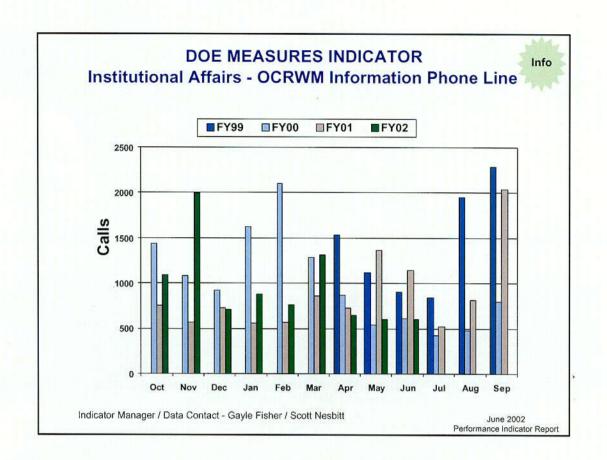
Steady trend

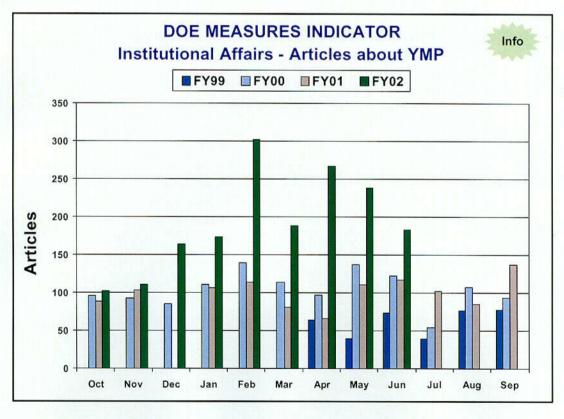
CORRECTIVE ACTIONS

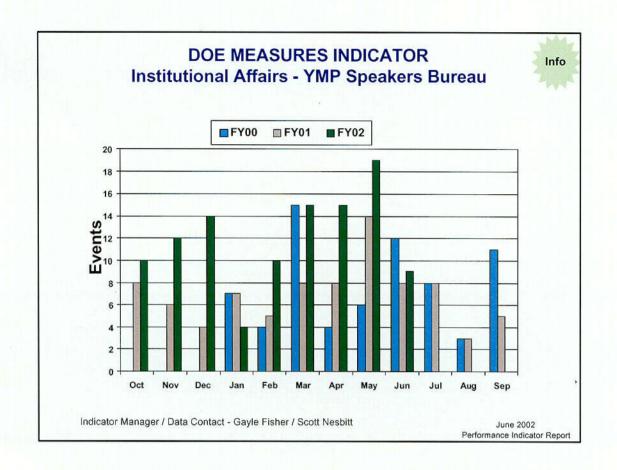
None required

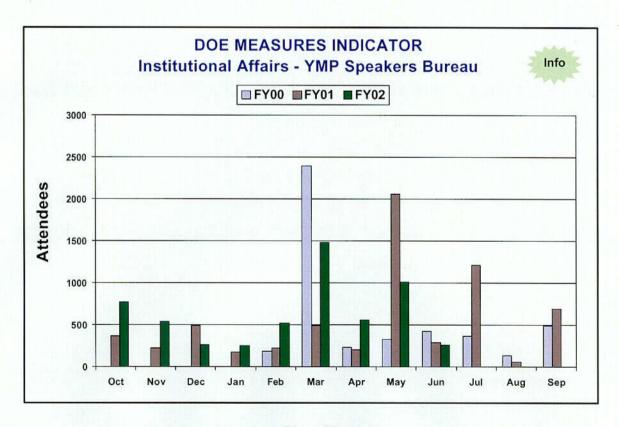


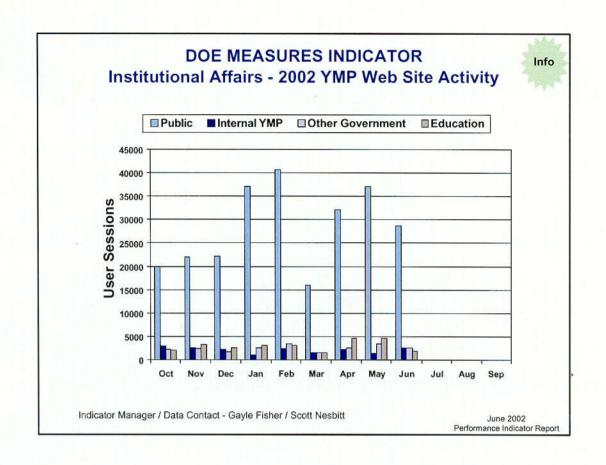


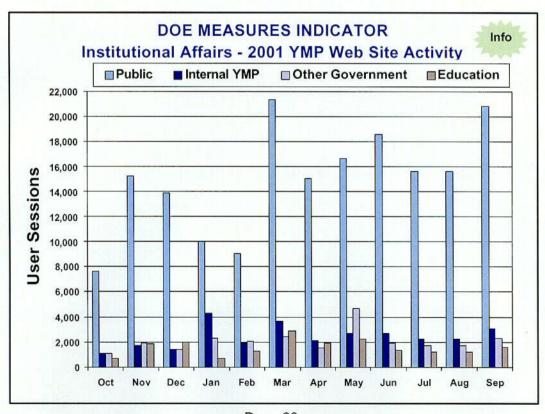


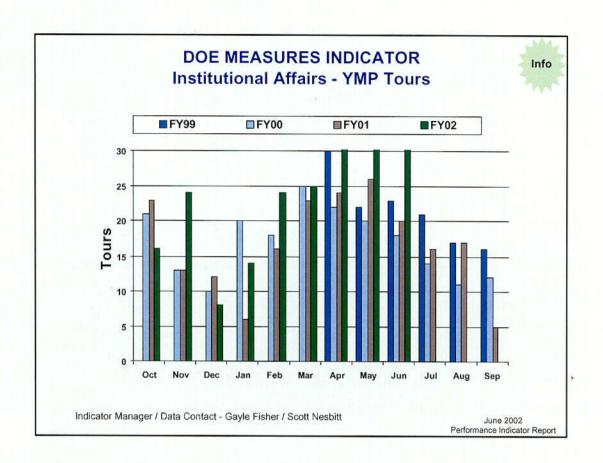


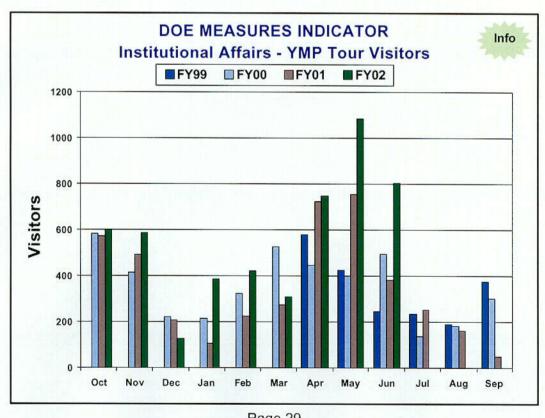


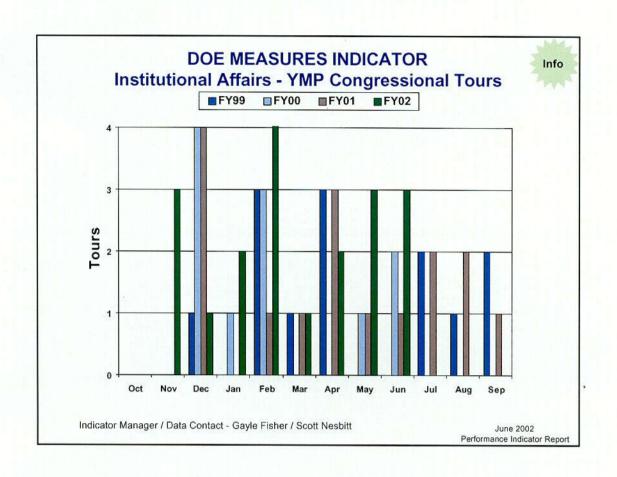


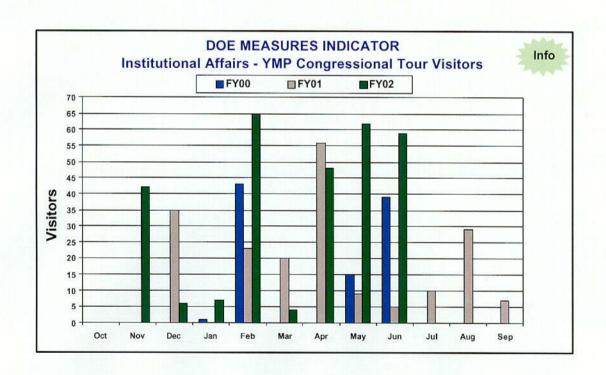


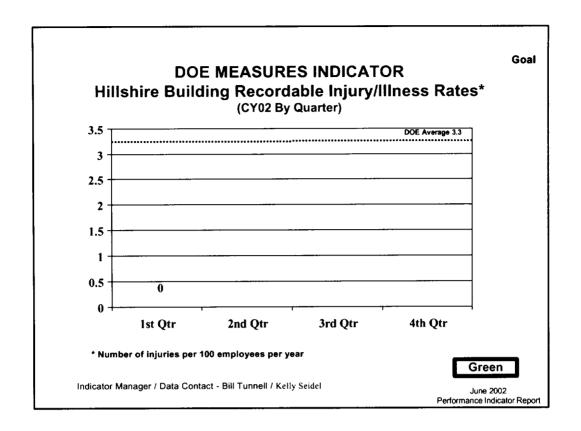










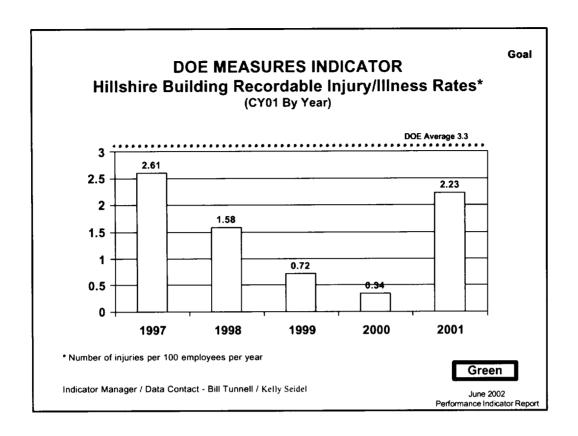


1st Quarter CY02 = GREEN

TRENDS

No trends identified at this time.

CORRECTIVE ACTIONS

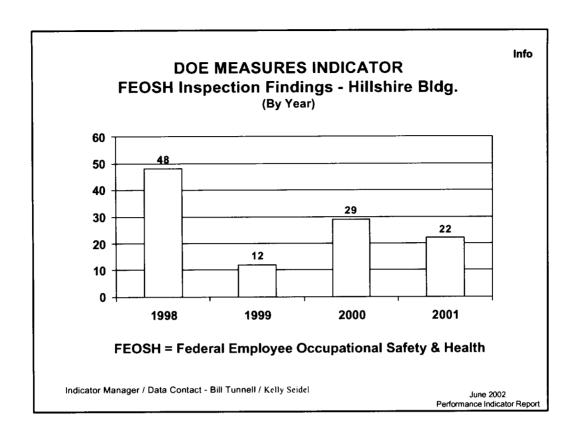


CY01 Goals exceeded GREEN

TRENDS

No trends identified at this time.

CORRECTIVE ACTIONS



CY01 = GREEN

TRENDS

No trends identified at this time.

CORRECTIVE ACTIONS

DOE MEASURES INDICATOR DOE Safeguards & Security Activities

Info

Type of Incident	Jan	Feb	Mar	Apr	May	June	
Alarms, Working Hours							
Alarms	0	1	3	7	26	10	
Responded and Closed	0	1	3	7	26	10	
Alarms, Non-Working Hours							
Alarms	0	0	1	0	3	5	
Responded and Closed	0	0	1	0	3	5	
Foreign National Visitors							
Sensitive Country	0	0	0	0	0	0	
Non-Sensitive Country	0	4	0	0	4	0	
Safeguards & Security Statistics							
Workplace Violence Incidents	0	0	0	0	0	0	
Bomb Threat Incidents	0	0	0	0	0	0	
intrusion Incidents and/or Threats	0	0	0	0	0	0	

Indicator Manager / Data Contact - Bob Wells / Jan Verden

June 2002 Performance Indicator Report

SUMMARY OF CURRENT MONTH'S PERFORMANCE

None.

TRENDS

No trends identified at this time.

CORRECTIVE / IMPROVEMENT ACTIONS

DOE MEASURES INDICATOR Goal OIM: OCRWM Cyber Security June 2002 = 100% effectiveness Jun UNAUTHORIZED ACCESS/BREAL-INS ATTEMPTED UNAUTHORIZED ACCESS/BREAK-INS 0 DENIAL OF SERVICE (DOS) ATTACKS 0 ATTEMPTED DOS ATTACKS WEB DEFACEMENTS SCAN DETECTIONS 0 ٥ INSIDER EVENTS 0 O VIRUS DETECTION 131 270 497 VIRUS INFECTION n 0 REPORTABLE CIAC INCIDENTS Purpose: Monitor effectiveness of OCRWM Cyber Security program Green Indicator Manager / Data Contact - Bob Wells / Jan Verden June 2002 Performance Indicator Report

SUMMARY OF CURRENT MONTH'S PERFORMANCE

CY01 Goals exceeded. GREEN

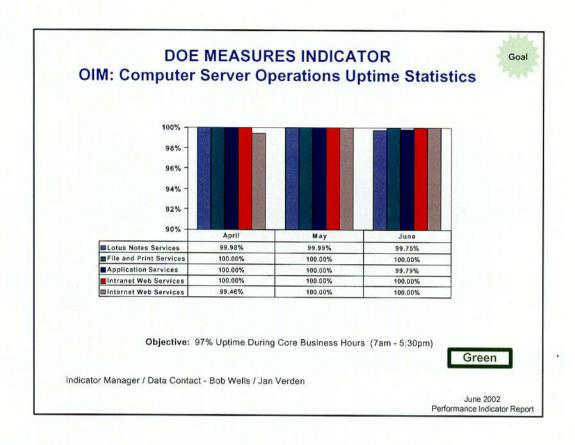
497 klez virus detections, 343 at BSC West, 152 at RSIS West, and 2 at BSC East.

The virus detections for the month of June are due to the increase in activity of the klez worm. Variants of the worm keep surfacing and cycling into our computing environment. Klez is a mass mailing email worm that attempts to copy itself to network shares, it utilizes random subject lines, message bodies and attachment files. OCRWM updated the virus definition files to the w32.klez.gne@mm which detects the variants of klez, which resulted in the significant detections without infection.

TRENDS

None

CORRECTIVE ACTIONS

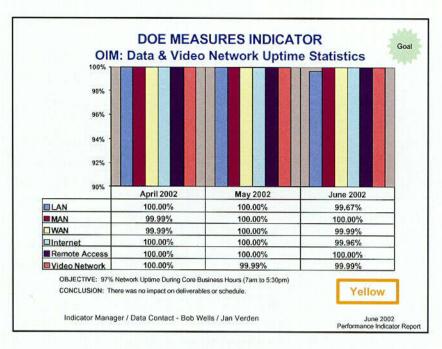


Conclusion: There was no impact on data, deliverables or schedule CY01 Goals exceeded. **GREEN**

TRENDS

None

CORRECTIVE ACTIONS

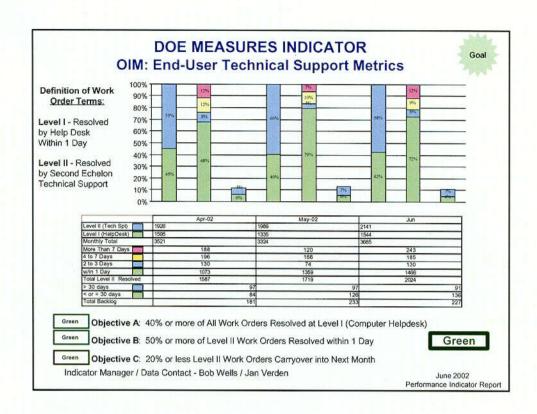


Conclusion: There was no impact on data, deliverables or schedule.

ADVERSE TRENDS

Insufficient bandwidth to the site continue to affect some of the users' work process. Large data sets are captured and stored locally at the site and are transferred to the required location during off hours. Duplicate servers are installed at the site to support the site users. Video quality is degraded or being viewed after off hours.

CORRECTIVE ACTIONS



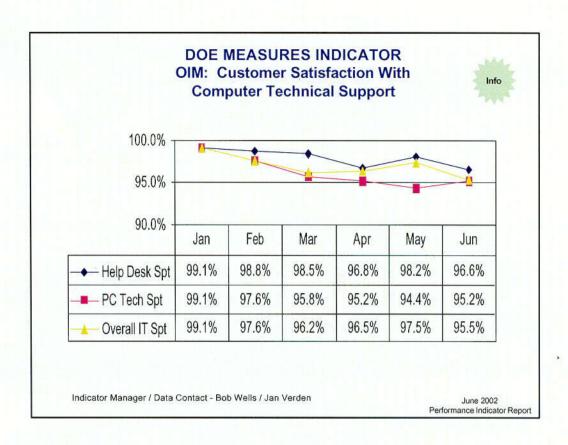
Objective A: Goal was exceeded. GREEN
Objective B: Goal was exceeded. GREEN
Objective C: Goal was exceeded GREEN

TRENDS

Objective A: None Objective B: None Objective C: None

CORRECTIVE ACTIONS

Objective A: None Objective B: None Objective C: None



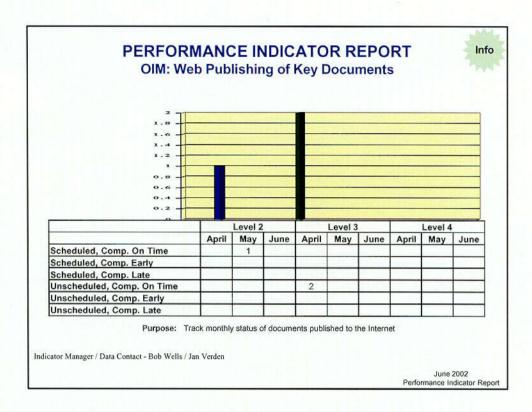
Of 505 surveys requested during June'02 reporting period, 308 responses (61% of total) were returned completed.

TRENDS

Customer satisfaction remains high.

CORRECTIVE / IMPROVEMENT ACTIONS

No corrective/improvement actions required.

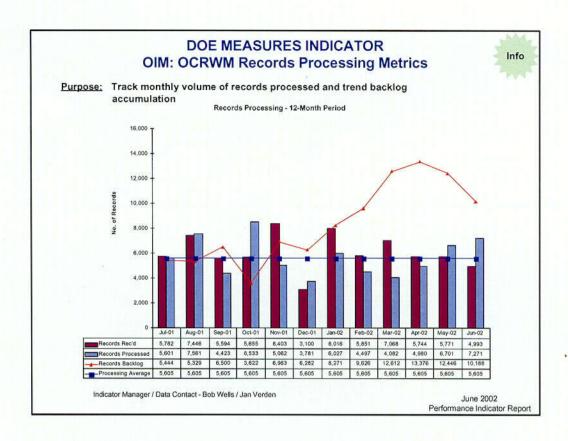


No documents were posted on the Internet in June 2002.

TRENDS

None

CORRECTIVE ACTIONS



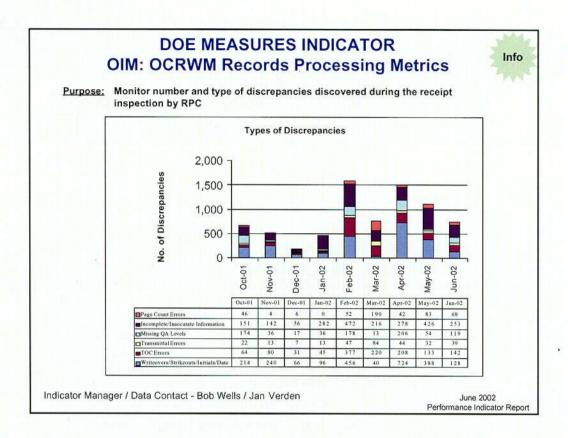
Continued decline in backlog.

TRENDS

Backlog is decreasing.

CORRECTIVE / IMPROVEMENT ACTIONS

- •Divided RPC staff into separate processing focus areas (I.e, current versus legacy records)
- •Overtime dedicated to processing backlog of 38 drawers identified on 5/17/02.
- •Dedicated resources for processing current records(i.e, not pulled for "special" assignments)



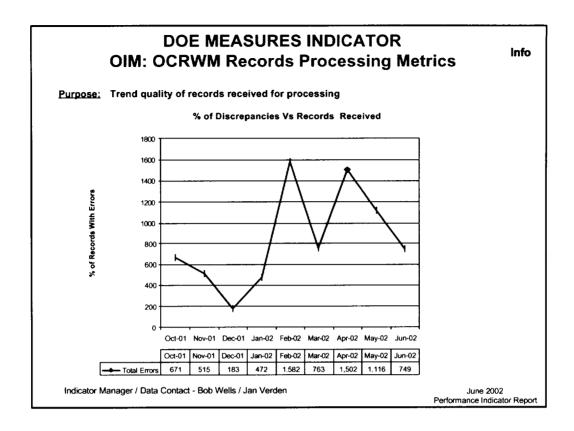
Decrease in errors.

TRENDS

No trend has been established

CORRECTIVE ACTIONS

Errors are expected to decrease as outreach program matures.



The number of source errors discovered on record submittals continues to decrease

TRENDS

Positive trends for reduction of source errors.

CORRECTIVE ACTIONS

This is expected to decrease further as outreach efforts to train Records Custodians and Coordinators progresses.