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CONTRACT NO. DE-AC28-01RW12101 - MONTHLY PERFORMANCE INDICATORS REPORT FOR DECEMBER 2002

Enclosed is the Monthly Performance Indicators Report for December 2002. Historical versions of the Performance Indicators Report are available online at <u>http://m-o.ymp.gov/html/prod/db_web/pireport/main.htm</u> for viewing along with pdf files that can be printed. It can also be accessed from the BSC Connect Intranet home page where it is listed under the site index as 'Performance Indicator Report'.

This report provides performance indicators to the U. S. Department of Energy and BSC. BSC analysis and subsequent revisions are limited to those charts in the BSC section.

If you need additional information, please contact Russell Riding at 702-295-4607.

Kenny Hess

Kennon G. Hess President and General Manager

Date Signed

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Enclosure: Monthly Performance Indicators Report for December 2002

0116035703 Page 2

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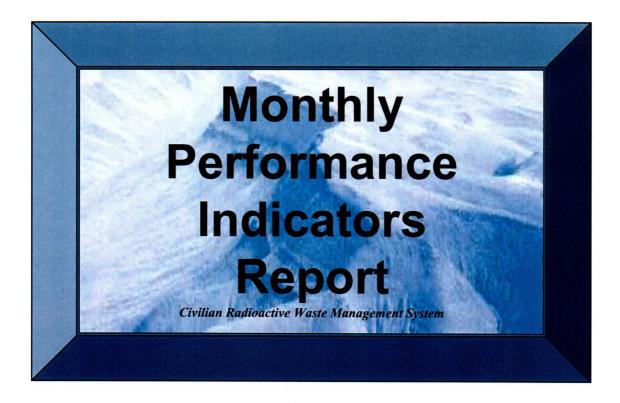
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RPC

YUCCA MOUNTAIN PROJECT



December 2002

Prepared by: Russell Riding and Marco Lee



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

Yucca Mountain Project Monthly Performance Indicators Report December 2002 Executive Summary

Safety

Six Occupational Safety and Health Administration (OSHA) recordable cases were reported in December. One of the incidents occurred in November, but became OSHA recordable in December. None of the cases involved lost time; however, December's performance marks the beginning of an adverse trend. A safety stand-down is being held on 1/9/03 to reemphasize BSC's goal and commitment to zero accidents.

The cumulative year-to-date Total Recordable Case Rate (TRCR) for BSC and subcontractors through December was 0.91, up from .56 in November, but 49% below the Voluntary Protection Program (VPP) goal of 1.8 cases per 200,000 hours worked. The cumulative year-to-date Lost Workday Case Rate (including restricted work activity) through December was 0.13, down from .14 in November and 84% better than the VPP goal of 0.8. (Page 4)

Quality

Overall, BSC identified deficiencies continued on an upward trend; however, the percentage of BSC line-identified deficiencies has been trending downward. The total number of identified deficiencies decreased in December due to the holiday closure. Of the eight new BSC DRs/CARs issued during the month, BSC identified six. BSC QA identified five deficiencies and the line identified one. BSC line-identified deficiencies have remained below the goal of fifty-percent for the last three months and it is anticipated that this trend will continue. The high percentage of BSC QA identified deficiencies is being driven by the re-instituted BSC audit/surveillance program and the planned ramp up of those activities. Efforts to improve the percentage of line-identified deficiencies are being addressed within the MII. The number of self-assessments completed during December remained stable. (Page 6)

Measures

Open CIRS items over the last few months reflect a recovery from the abnormally high numbers experienced during the site stand down (3/26/02). This reflects a new baseline as the number of open CIRS over the last three months is slightly higher than the baseline established from January to March of 2002. (Page 12)

Monthly Performance Indicators Table of Contents

- Bechtel SAIC Company, LLC (BSC) ١.
 - IA. Safety Indicators
 - IB. **Quality Indicators**
 - IC. **BSC Measures**

DOE Measures (section highlights DOE activities) 11.

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):

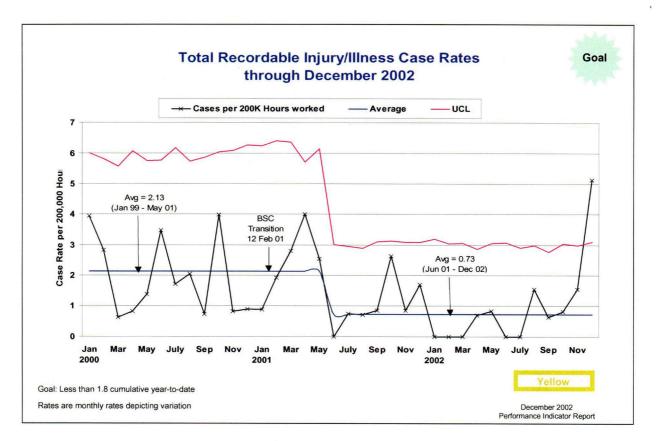
Green = Satisfactory (i.e., on target or exceeds goal; within expected standard deviation) Yellow = Needs Improvement (i.e., may be on target but negative trend exists; in danger of missing target; improvement needed)

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

December 2002 Performance Indicator Report

Notes:

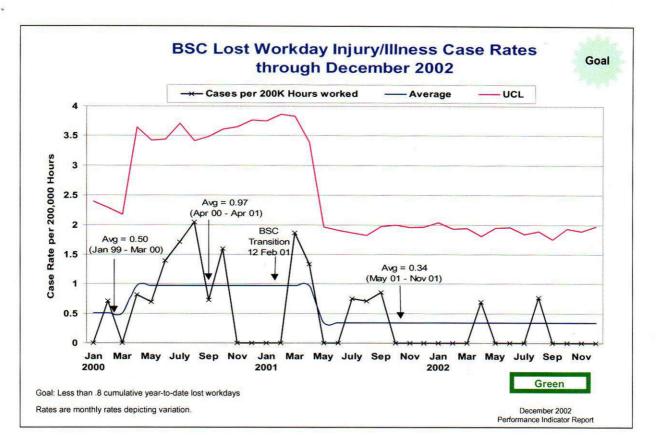
As with the Performance Measures Dashboard produced for the General Manager, goal charts will have colors that represent performance compared to goal. Performance above goal will be indicated by green. Negative trends are yellow based on three negative data points (3 months in the wrong direction). Performance below goal is indicated by red. If performance is yellow or red, a detailed corrective action will be required which may include issuing a CIRS item to track recovery.



- December = 0.91 TRCR YELLOW, 0.13 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

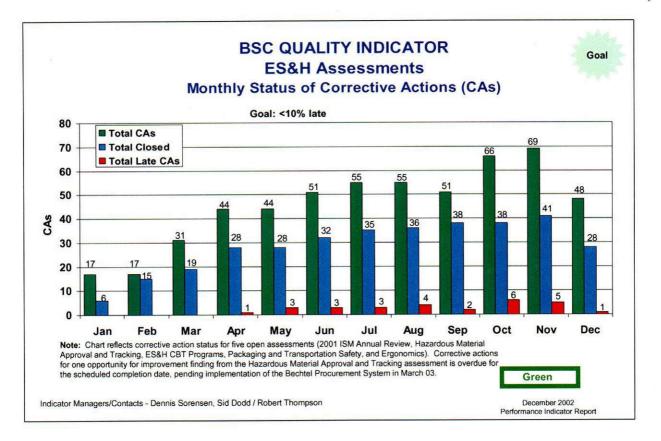
Six Occupational Safety and Health Administration (OSHA) recordable cases were reported in December. One of the incidents occurred in November, but became OSHA recordable in December. None of the cases involved lost time; however, December's performance marks the beginning of an adverse trend.

TRENDS

Three data points above the TRCR mean and one data point above the upper control limit mark the beginning of an adverse trend.

CORRECTIVE ACTION

A safety stand-down is being held on 1/9/03 to reemphasize BSC's goal and commitment to zero accidents.



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 stoppages 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

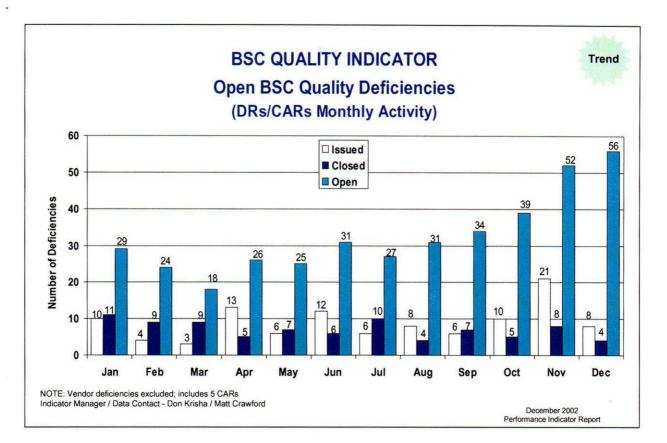
TRENDS

RMs continue to complete at least 90 percent of all assigned CAs by the scheduled CIRS completion date.

CORRECTIVE ACTION

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

- · All CAs are entered into CIRS.
- Progress on late CAs is tracked by the Lead Assessor.



Issued	8	
Closed	4	
Total Open	56	

Of the 4 DRs closed:

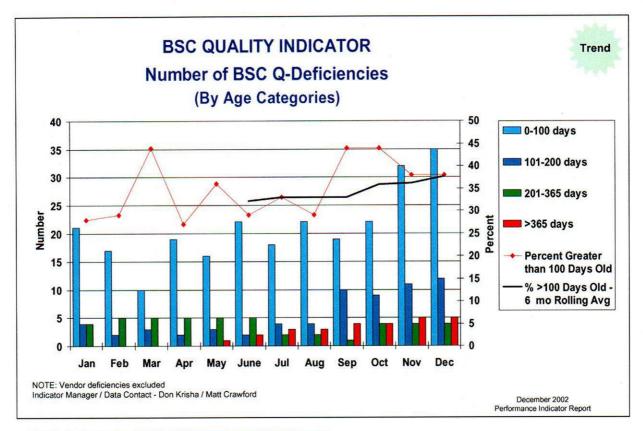
- · 0 DRs were open 365 days or greater
- 2 DRs were open >100 days
- 2 DRs were open <100 days

TRENDS

The number of deficiencies issued during December decreased from 21 to 8 and the number of deficiencies closed decreased from eight to four. The total number of open deficiencies for December increased slightly from 52 to 56. The decrease of identification and closure of deficiencies was due to the holiday shut-down.

CORRECTIVE ACTION

As expected, the high percentage of identified deficiencies is being driven by the re-instituted BSC audit/surveillance program and the planned ramp up of those activities. No corrective action related to the increased number of DRs is necessary as an increase in the self-identification of issues is considered a positive result of the new program.



Aging (BSC only)

BSC = 38% (21 of 56) of the open deficiencies exceed 100 days old.

Organization	BSC DRs1	>100 ²	>200 ²	>365 ²
Projects	34	6	3	3
Business Management	5	1		2
Procurement	4	2		
Site	1	1		
CIO	6	1	1	
QA	1	1		
Engr	2			
USGS	2			
CSO	1			
Totals	56	12	4	5

TRENDS

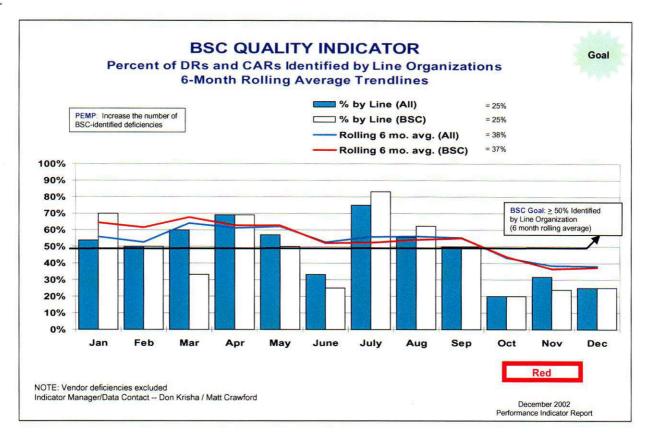
The percent of deficiencies open greater than 100 days remained at 38% during December and the six-month rolling average continued a slight increase. The number of deficiencies open greater than 100 days had little change from 20 to 21, and the total number of open deficiencies increased from 52 to 56. The number of deficiencies open greater than 200 days remained the same at 9.

CORRECTIVE ACTION

BSC QA is on track to complete a draft revision of the corrective action process AP-16.1Q by 1/24/03. The revision eliminates some process steps (not required by the QARD) which will reduce closure times. Process improvements will be considered in the new single entry Corrective Action Process CAP that is currently being developed and projected for February/March 2003. The proposed single CAP will include AP16.1Q (DRs, CARs, & QOs) as well as NCRs, CIRS, and TERs, The new electronic process is expected to significantly reduce administrative cycle times and provide better visibility for tracking and trending issues.

1BSC only, does not include Vendor deficiencies or Quality Observations

²Days



Two (25%) of 8 BSC deficiencies issued in December were identified by BSC line personnel.

Deficiencies initiated by OQA and BSC QA combined:

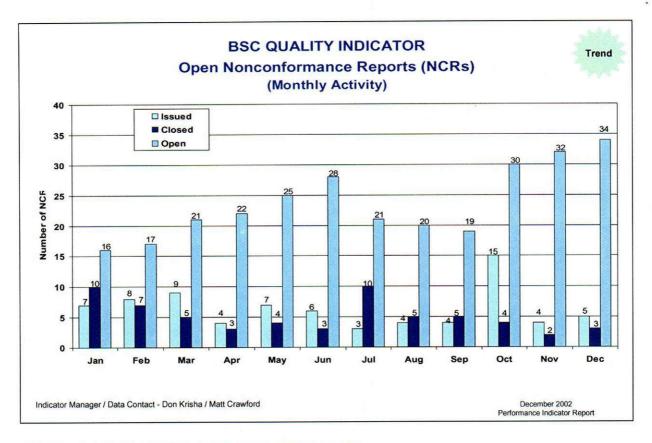
- July '02 = 1 of 6 (17%)
- Aug '02 = 3 of 8 (37.5%)
- Sep '02 = 3 of 6 (50%)
- Oct '02 = 8 of 10 (80%)
- Nov '02 = 15 of 21 (71%)
- Dec '02 = 6 of 8 (25%)

TRENDS

The rolling six-month average of deficiencies identified by the line organization continued below the 50% goal. The percentage of line identified BSC deficiencies increased from 24% to 25% in December.

CORRECTIVE ACTION

BSC is continuing discussions with OQA regarding the inclusion of BSC QA within the population of self-identified DRs/CARs. CIRS item #3466 has been created to track recovery.



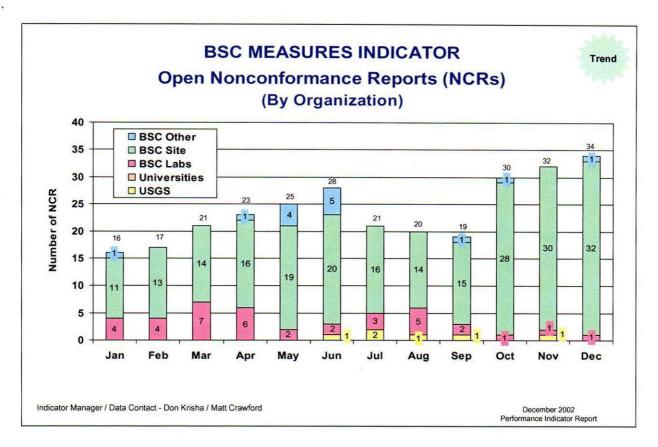
Issued	Closed	Open
5	3	34

TRENDS

The number of issued NCRs increased by one this month and the total number of open items increased slightly. The positive trend continues for new NCRs due to ongoing Site walkdowns. These walkdowns are being performed to determine the compliance status of systems, installed as temporary, with codes and standards applicable to permanent installations.

CORRECTIVE ACTION

The higher percentage of NCRs is expected to continue as Site walkdowns are conducted over the next several months. No corrective action related to the increased number of nonconformances is necessary as an increase in the self-identification of issues is considered a positive result of the walkdowns.



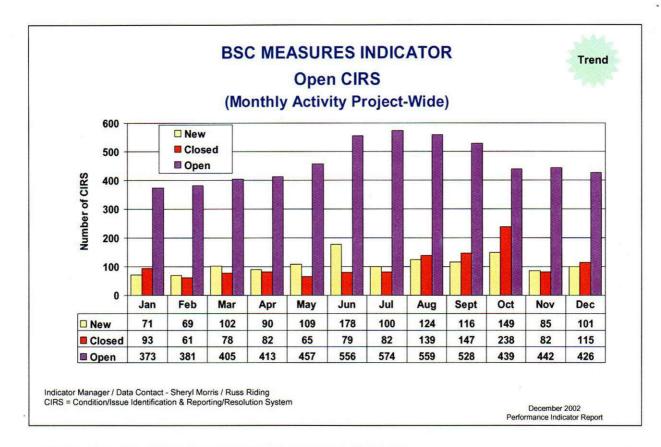
The number of open NCRs increased from 32 to 34.

TRENDS

The total number of open NCRs increased by two during December. One NCR was issued in the "other" category and the USGS NCR was closed.

CORRECTIVE ACTION

None required at this time.

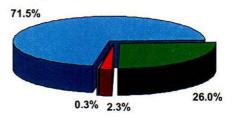


The following tables provide a comparison between BSC CIRS activities and Project CIRS activities. This analysis indicates that BSC CIRS activities are consistent with Project CIRS activities.

Open CIRS by category (BSC Only)

CIRS Type	New	Closed	Totals
Ols	70	66	281
NCs	21	25	102
ATs	2	2	9
Trends	0	1	1
Totals	93	94	393

Percent of CIRS by Type (BSC Only)
OIS INCS ATS Trends

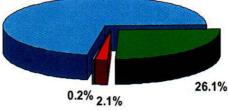


The pie charts show that the percentage of each CIRS type for BSC is consistent with project-wide initiation of these same items.

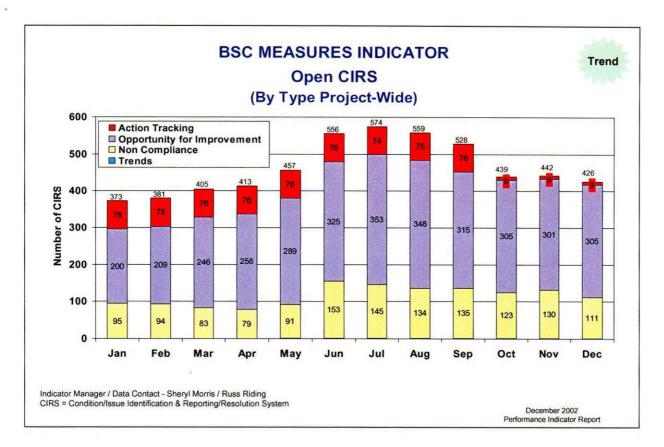
Open CIRS by category (Project)

CIRS Type	New	Closed	Totals	
Ols	75	72	305	
NCs	22	38	111	
ATs	4	4	9	
Trends 0		1	1	
Totals	101	115	426	

Percent of CIRS by Type (Project) ■ OIs ■ NCs ■ ATs □ Trends 71.6%



(Summary continued on next page)



(Summary continued from previous page)

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

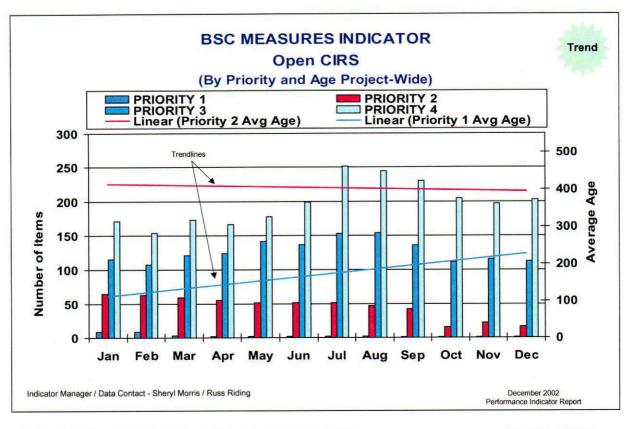
TRENDS

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 decreased by 16 from 442 to 426 (4%). The number of Opportunities for Improvement (OIs) increased by 4 from 301 to 305 (1%) and the number of Noncompliances (NCs) decreased by 19 from 130 to 111 (15%). The number of Action Tracking (ATs) remained the same at 9.

CORRECTIVE ACTION

None



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 at the time of printing.

SUMMARY OF CURRENT MONTH'S PERFORMANCE

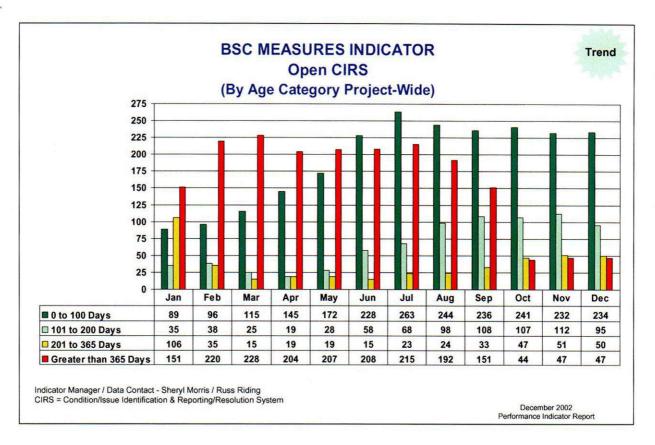
The number of Priority 1 items remained the same at 1. Priority 2 items decreased from 22 to 16 (3%). The number of Priority 3 items decreased from 116 to 113 (3%). The number of Priority 4 items increased from 197 to 203 (3%).

The average age of Priority 1 items increased 14% from 220 to 251 days. The remaining Priority 1 item is: 1) CIRS #2572, Site Electrical Near Miss (251 days old). The Site has completed a full Root Cause Determination for this issue and has developed a comprehensive Site Transition Plan to systematically address the identified weaknesses.

The average age of Priority 2 items increased 26% from 245 to 308 days.

Priority	Ols	NCs	ATs	Trends	Total
1	0	1	0	0	1
2	2	14	0	0	16
3	86	23	4	0	113
4	161	37	4	1	203
Total	249	75	8	1	333

Prioritized Items By Type



Open CIRS in the Greater than 365 Days category remained the same at 47.

TRENDS

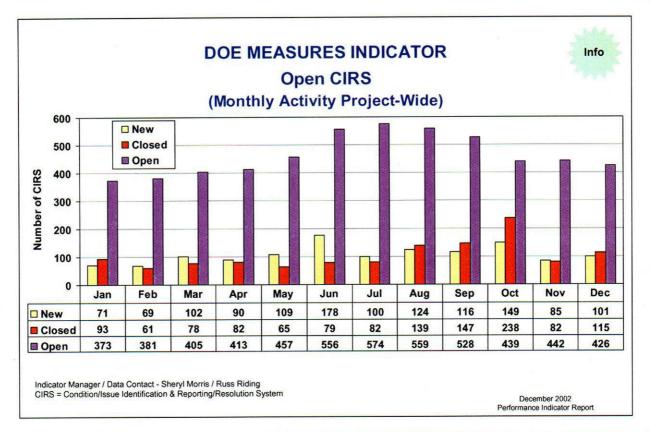
The chart below provides a breakdown of the current month's OIs and NCs by age. Based on this data, the number of OIs and NCs in the specified age boundaries (Project-Wide) by the end of January will be:

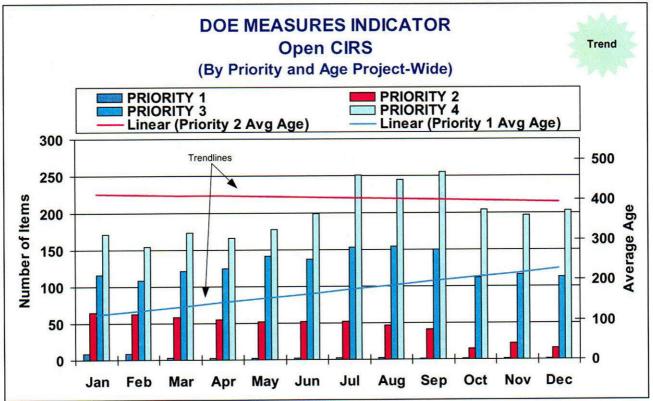
- 103 OIs and 22 NCs in the 101-200 days age category
- 48 OIs and 32 NCs in the 201 to 365 days age category
- 26 OIs and 19 NCs in the greater than 365 days age category

CORRECTIVE ACTION

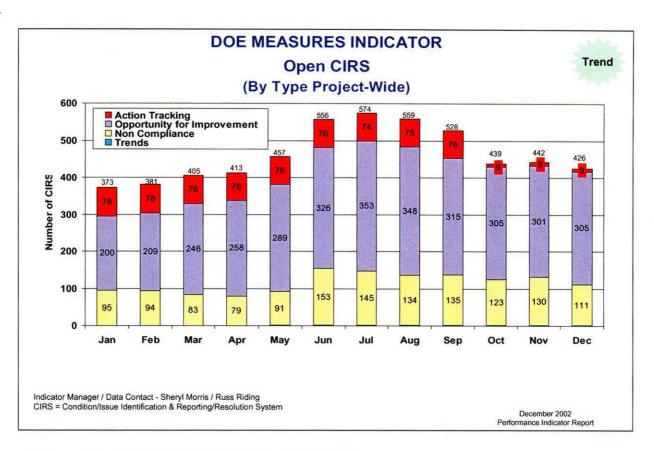
None

Age	Ols	NCs	ATs	Trends	Total
0-100 Days	179	51	4	0	234
101-200 Days	63	30	1	1	95
201-365 Days	39	11	0	0	50
>365	24	19	4	0	47
Total	305	111	9	1	426





C13



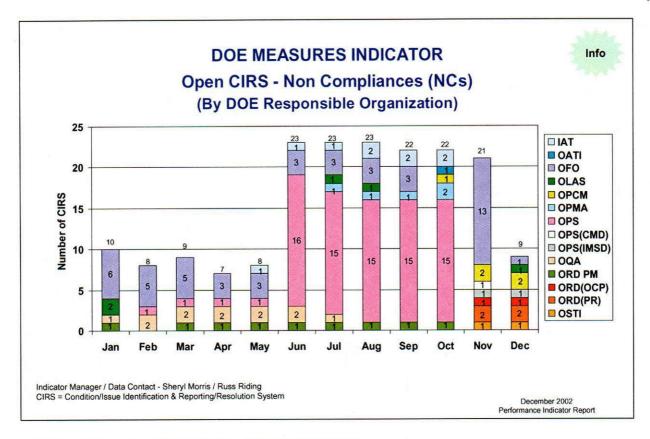
- Open CIRS Noncompliances (NCs = non-Q deficiencies) decreased from 130 to 111 (15%).
- · Open CIRS Opportunities for Improvement (OIs) increased from 301 to 305 (1%).
- · Open CIRS Action Tracking (AT) stayed constant at 9.
- Open CIRS Trends decreased from 2 to 1 (50%).

TRENDS

Open CIRS items decreased from 442 to 426 (4%).

CORRECTIVE ACTION

None

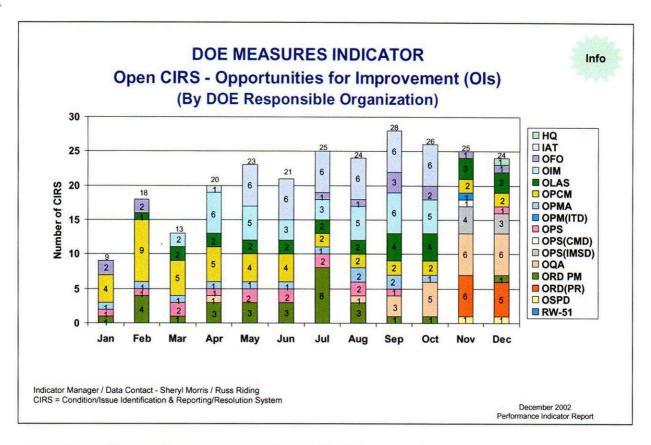


Open DOE CIRS Noncompliances (NCs = non-Q deficiencies) decreased from 21 to 9.

TRENDS

None

CORRECTIVE ACTION

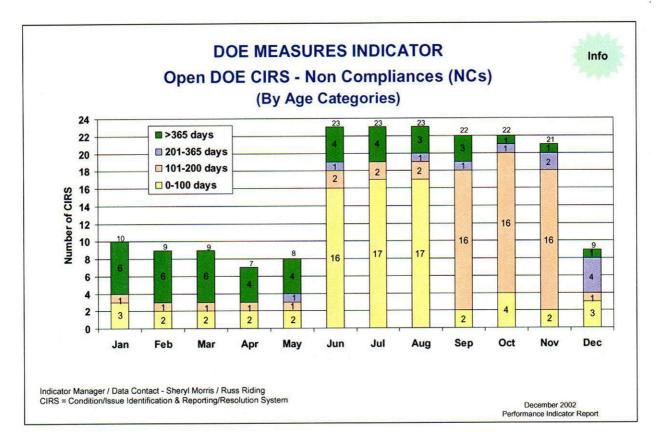


Open DOE CIRS Opportunities for Improvement (OIs) decreased from 25 to 24.

TRENDS

The Office of Quality Assurance (OQA), and the Office of Repository Development - Public Relations (ORD(PR)) have the majority of OIs.

CORRECTIVE ACTION

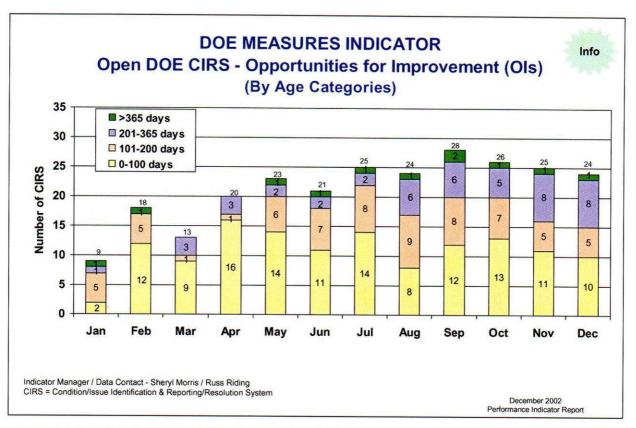


Number of DOE CIRS Noncompliances (NCs = non-Q deficiencies) greater than 100 days old decreased from 19 to 6 (68%).

TRENDS

None

CORRECTIVE ACTION



The number of DOE CIRS Opportunities for Improvement (OIs) greater than 100 days old remained the same at 14.

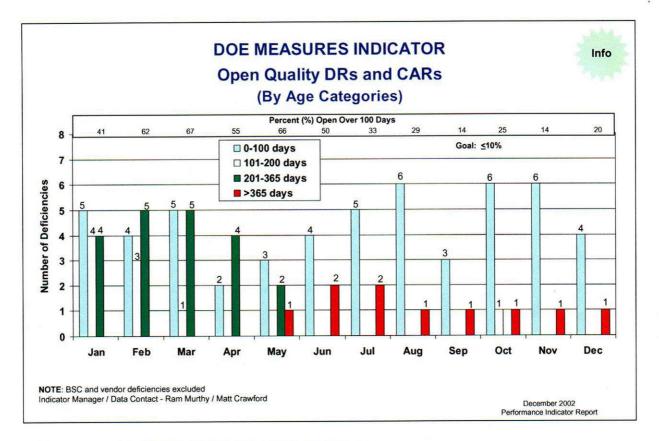
TRENDS

One OI is beyond the 365 day age boundary.

CORRECTIVE ACTION

No corrective actions identified at this time.

CID



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

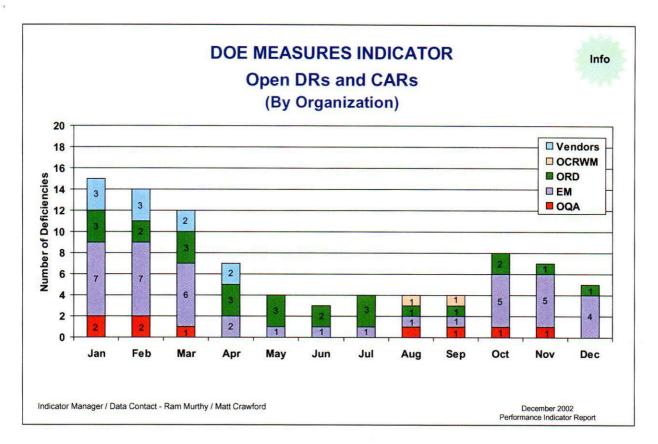
1 of 5 (20%) of DRs over 100 days old

TRENDS

No new DRs were issued this month. Only one of the five DRs/CARs is over 100 days old.

CORRECTIVE ACTION

No corrective action identified at this time.



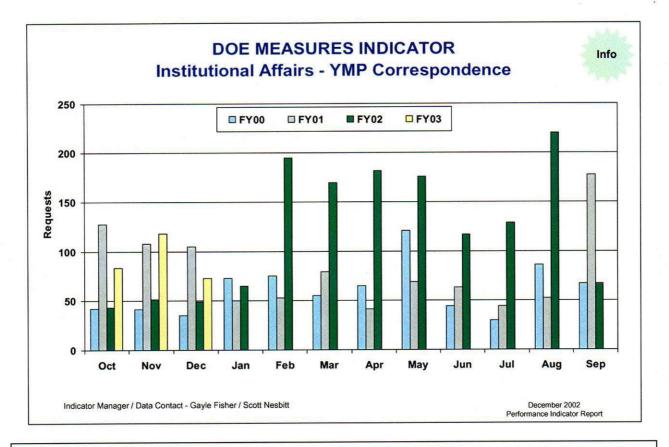
The total open DOE DRs decreased from seven to five.

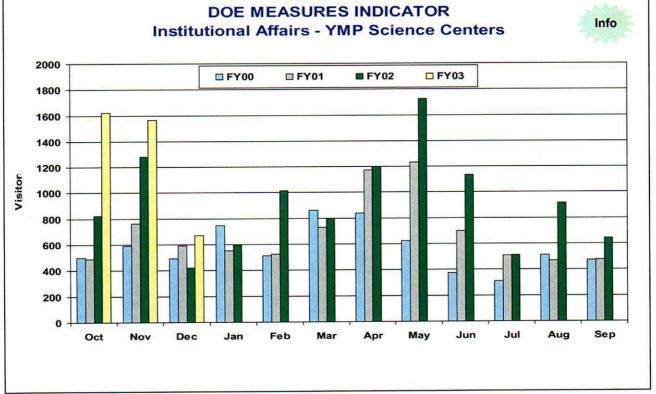
TRENDS

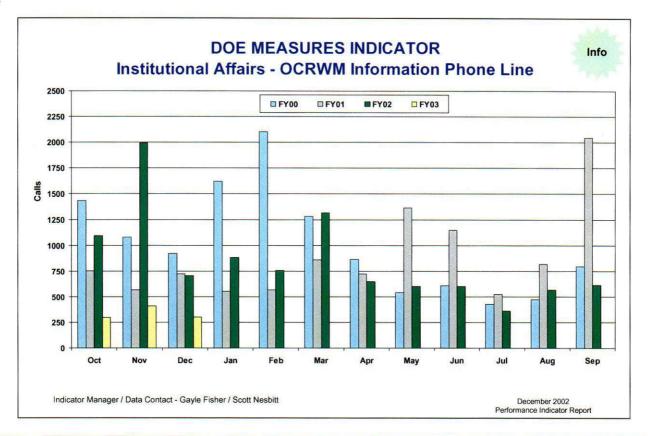
During December, the OQA deficiency and one EM deficiency were closed.

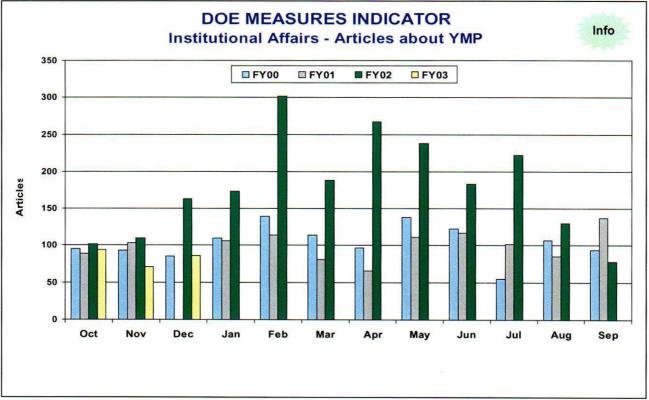
CORRECTIVE ACTION

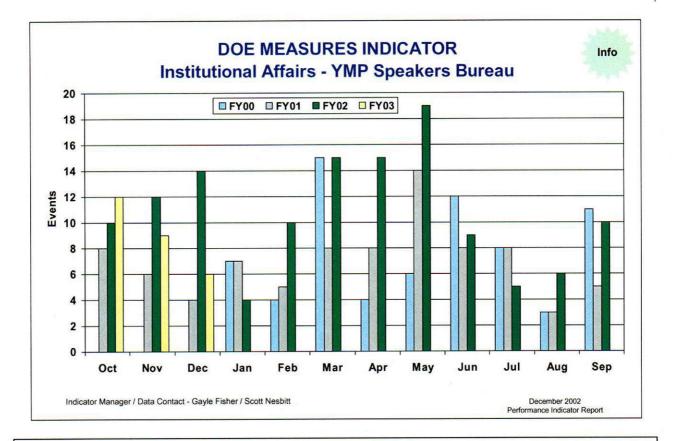
None

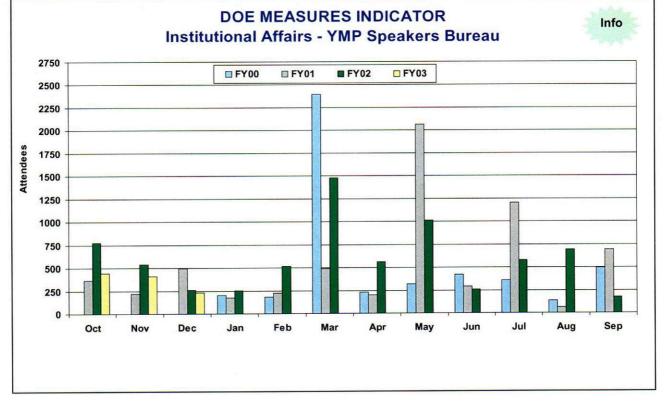


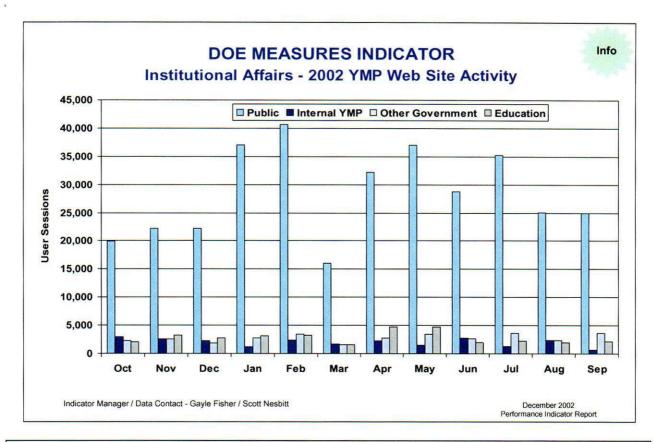


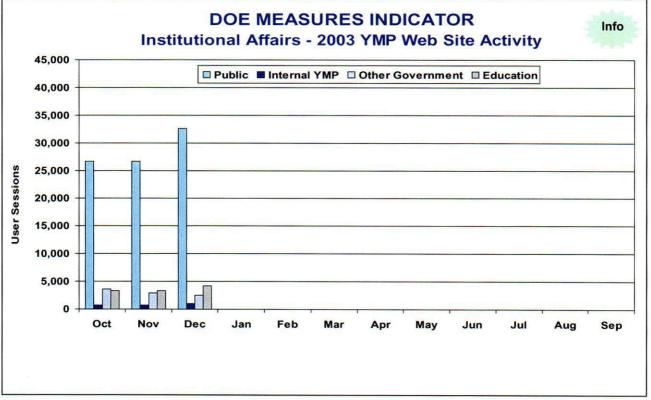


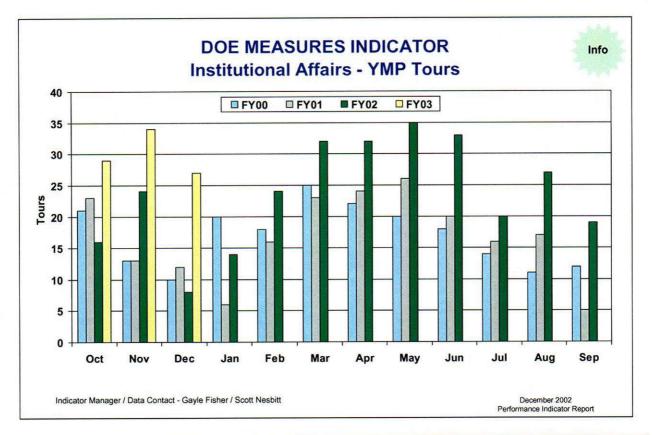


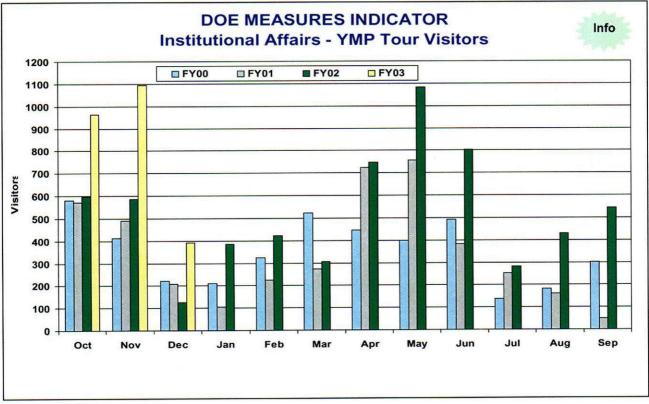


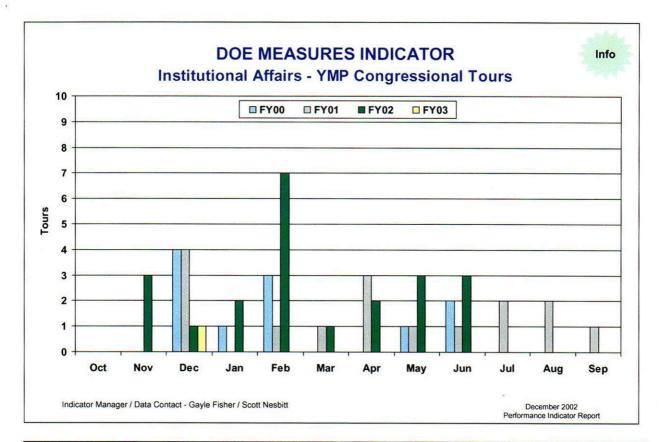


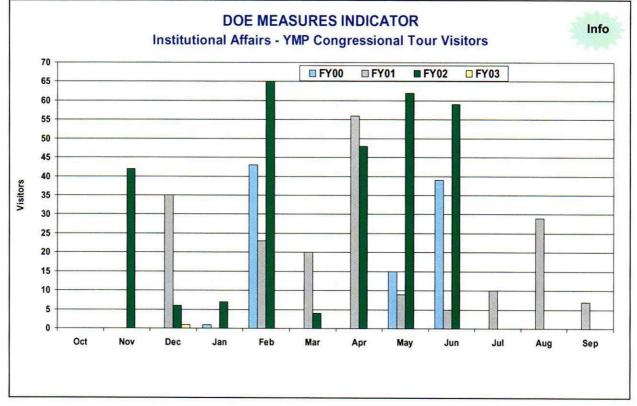


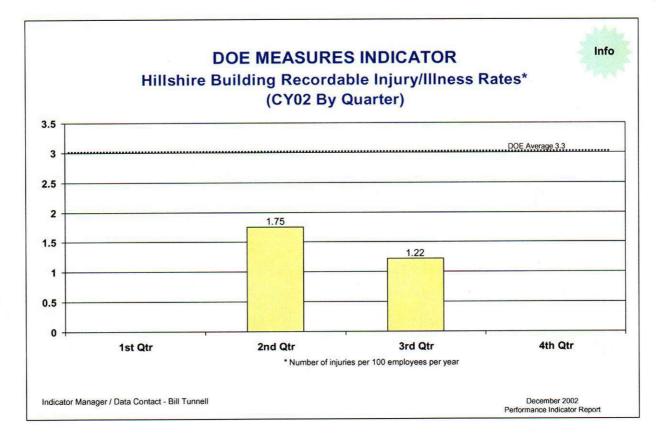










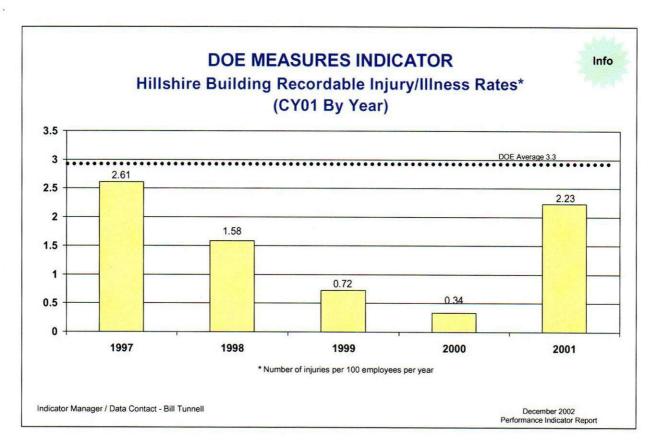


3rd Quarter CY02 is well below DOE Average of 3.3.

TRENDS

No trends identified at this time.

CORRECTIVE ACTION

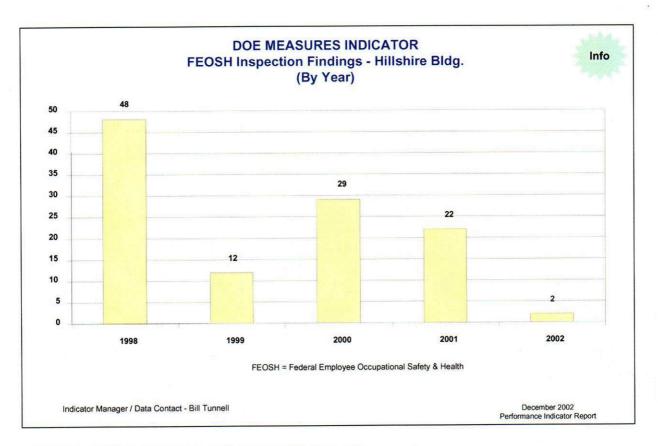


CY01 is well below DOE Average of 3.3.

TRENDS

No trends identified at this time.

CORRECTIVE ACTION



None

TRENDS

No trends identified at this time.

CORRECTIVE ACTION

DOE MEASURES INDICATOR DOE Safeguards & Security Activities

Info

Type of Incident	July	Aug	Sept	Oct	Nov	Dec
Alarms, Working Hours						
Alarms	0	0	0	1	0	0
Responded and Closed	0	0	0	1	0	0
Alarms, Non-Working Hours						
Alams	6	3	2	0	0	1
Responded and Closed	6	3	2	0	0	1
Foreign National Visitors						
Sensitive Country	0	0	0	0	3	0
Non-Sensitive Country	0	2	0	2	11	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
licator Manager / Data Contact - Garald Smith / Toni Caselli					Decem	ber 2002

SUMMARY OF CURRENT MONTH'S PERFORMANCE

None

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TRENDS

No trends identified at this time.

CORRECTIVE ACTION

DOE MEASURES INDICATOR OPM/ITD: OCRWM Cyber Security							Goat	
	December 2002 = 100% effectiveness							
UNAUTHORIZED ACCESS/BREAK-INS	الالا 0	Aug 0	<u>Sept</u> 0	<u>Oct</u> 0	Nov 0	<u>Dес</u> 0		
ATTEMPTED UNAUTHORIZED ACCESS/BREAK-INS	0	0	0	0	0	0		
DENIAL OF SERVICE (DOS) ATTACKS	0	0	0	0	0	0		
ATTEMPTED DOS ATTACKS	0	0	0	0	0	0		
WEB DEFACEMENTS	0	0	0	0	0	0		
SCAN DETECTIONS	0	0	0	0	0	2		
INSIDER EVENTS	0	0	0	0	0	0		
VIRUS DETECTION	470	372	325	511	122	346		
VIRUS INFECTION	0	0	0	0	0	0		
REPORTABLE CIAC INCIDENTS	0	0	0	0	0	0		
Purpose: Monitor effectivenes	is of OCI	RWM Cybe	er Security	/ program				
						Green		
Indicator Manager / Data Contact - Bob Wells / Jan Verden						December Performance Indi		

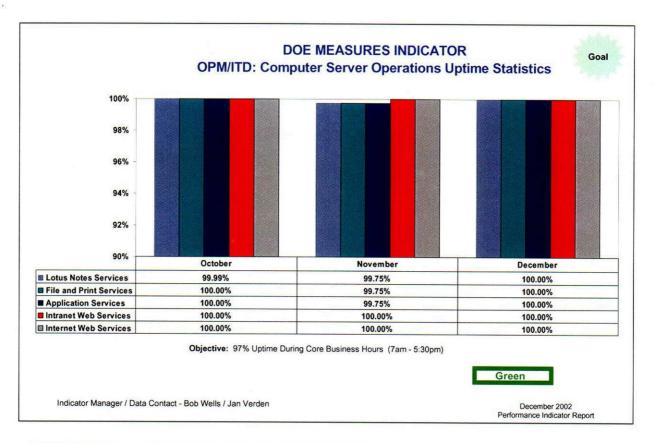
- Goal met for December 2002. GREEN
- The detected scans are a result of the OA vulnerability test.

TRENDS

None

CORRECTIVE ACTION

None

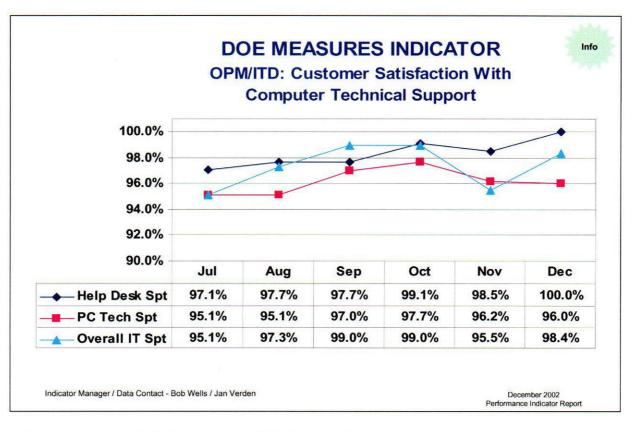


- · Conclusion: There was no impact on data, deliverables or schedule.
- Goal met for December 2002. GREEN

TRENDS

None

CORRECTIVE ACTION



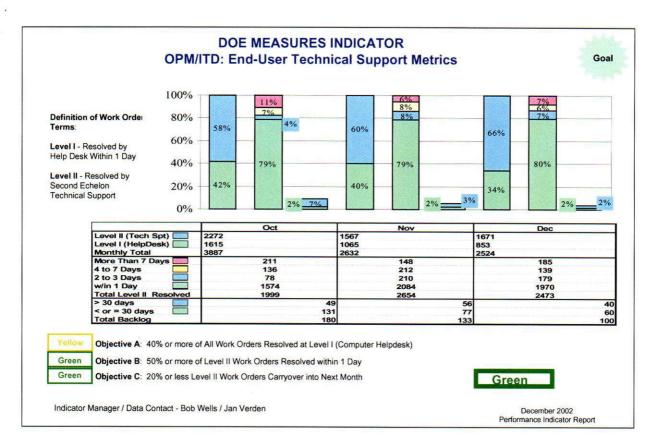
Of 252 surveys requested during Dec '02 reporting period, 127 responses (50% of total) were returned completed.

TRENDS

Customer satisfaction remains high.

CORRECTIVE ACTION

No corrective/improvement actions required.



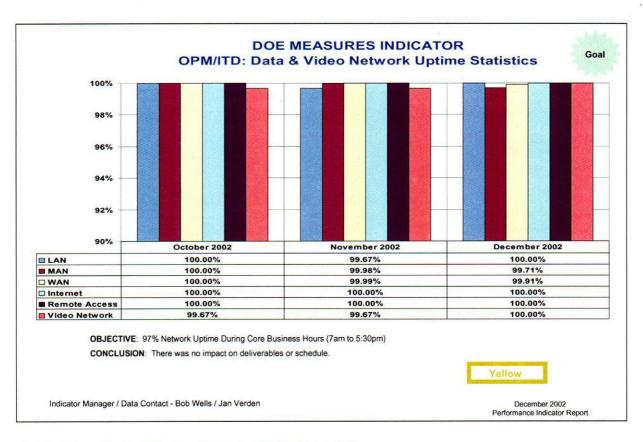
- Objective A: Goal was not met. YELLOW
- Objective B: Goal was exceeded. GREEN
- Objective C: Goal was exceeded. GREEN

TRENDS

- · Objective A: Low call volume due to Holidays. Increase in clearing backlog.
- Objective B: None
- Objective C: None

CORRECTIVE ACTION

- Objective A: Call volume expected to pick up after holidays.
- Objective B: None
- Objective C: None

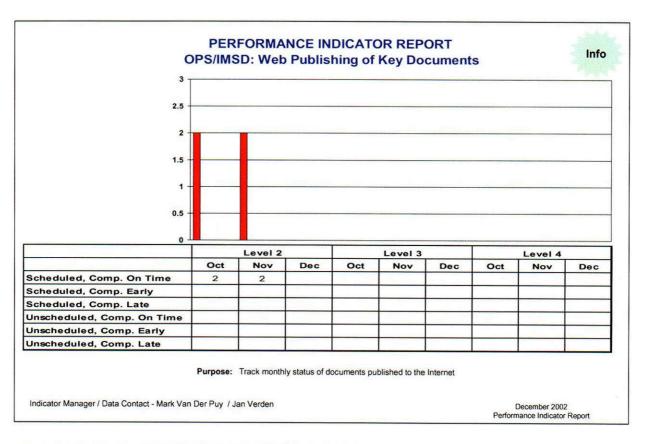


Conclusion: There was no impact on data, deliverables or schedule.

TRENDS

Insufficient bandwidth to the site continued 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. Large documents are reviewed via hard copy. Duplicate servers are installed at the site to support the site users. Video quality is degraded or being viewed after off hours.

CORRECTIVE ACTION



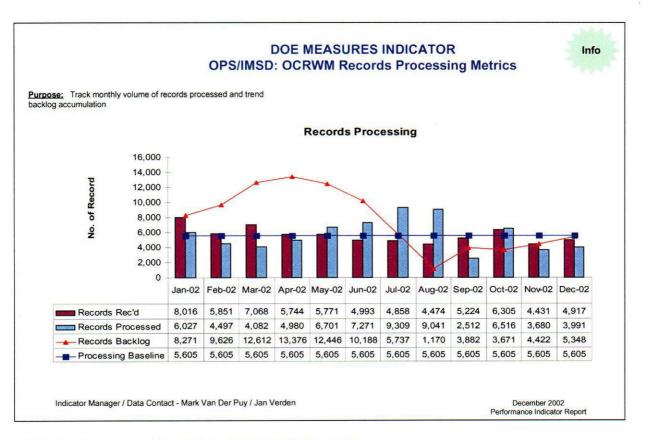
No documents were posted to the Web during December.

TRENDS

None

CORRECTIVE ACTION

Web Publishing developed a template to improve compliance with Section 508. Two documents have been converted using the new template. A final step to be completed before posting the documents is updating the help file for all users and particularly for disabled users.



A continued low number of records were processed this month because:

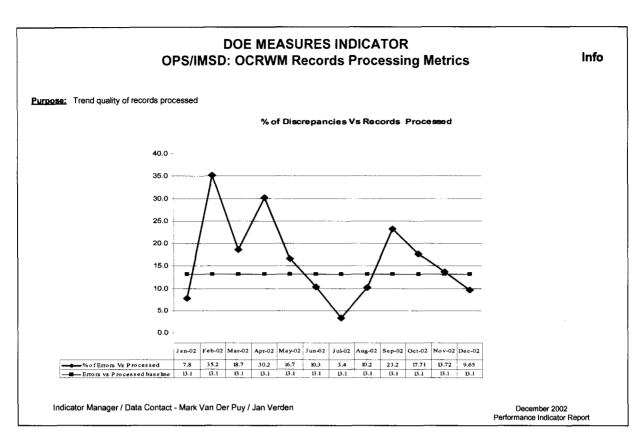
- the RPC is short 4 staff
- holiday shut down
- · many employees took extra PTO with the holiday

TRENDS

Backlog slightly increased.

CORRECTIVE ACTION

None indicated for this timeframe.



The percentage of errors decreased during this timeframe.

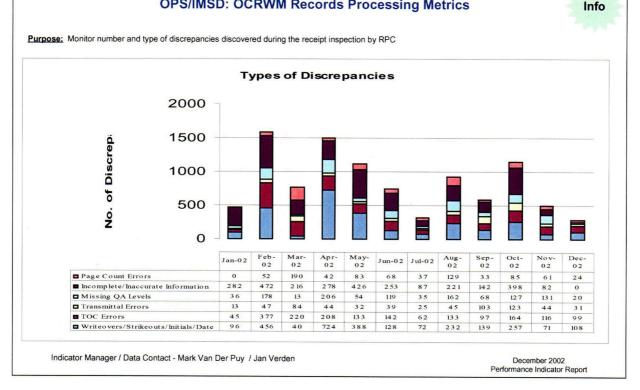
TRENDS

The percentage of errors is below the errors versus processed baseline.

CORRECTIVE ACTION

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

DOE MEASURES INDICATOR OPS/IMSD: OCRWM Records Processing Metrics



SUMMARY OF CURRENT MONTH'S PERFORMANCE

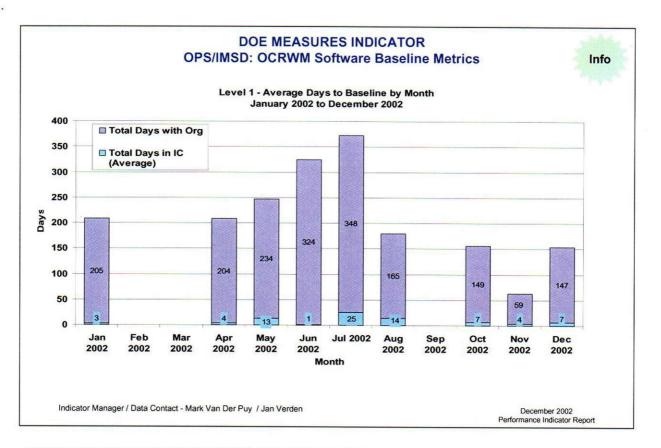
Even though there was an 11% increase in number of records received over the previous month and an 8% increase in the number of records processed, the total number of errors continued to decrease.

TRENDS

No trend has been established.

CORRECTIVE ACTION

Errors are expected to decrease as outreach program matures.



3 codes baselined

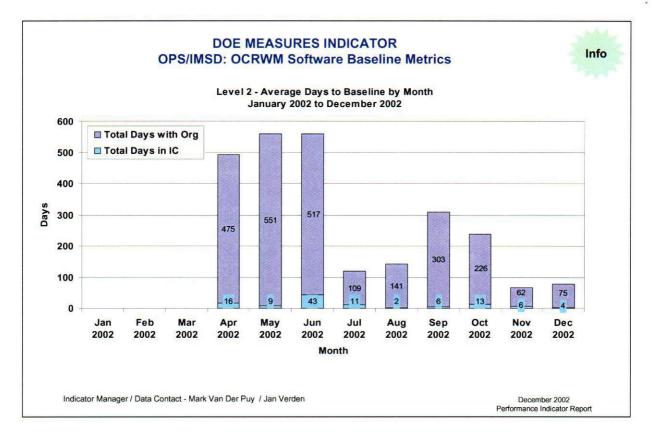
Increase in the average number of days in IC

Increase in the average number of days with Org

TRENDS

None

CORRECTIVE ACTION



1 codes baselined

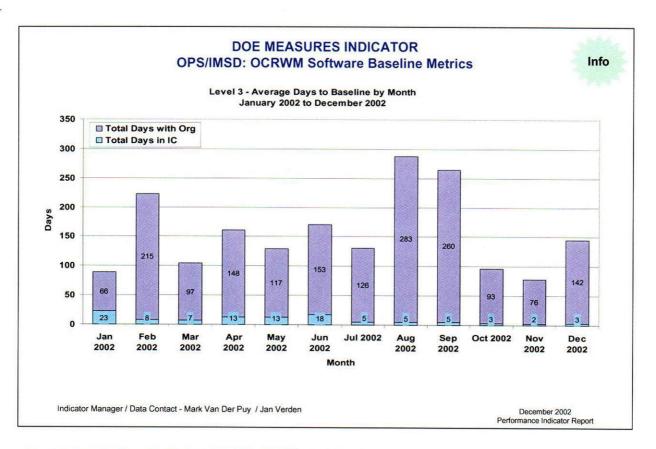
Decrease in the average number of days in IC

Increase in the average number of days with Org

TRENDS

None

CORRECTIVE ACTION



20 codes baselined

Increase in the average number of days in IC

Increase in the average number of days with Org

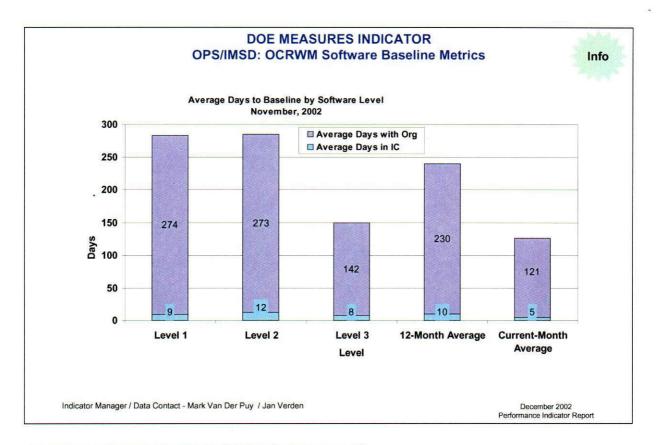
TRENDS

None

CORRECTIVE ACTION

None

C39

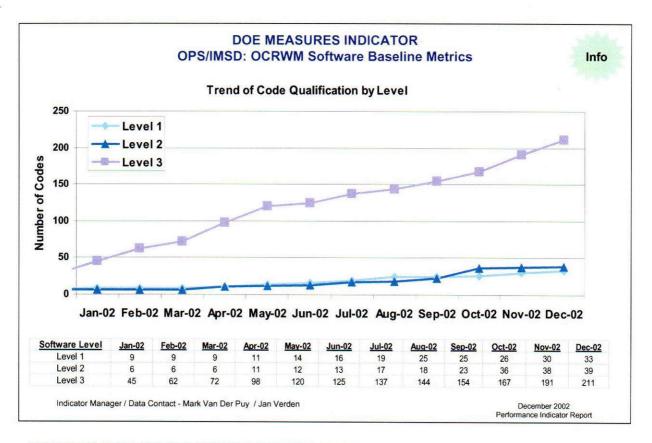


24 codes baselined Increase in the average number of days in IC Increase in the average number of days with Org

TRENDS

None
CORRECTIVE ACTION
None

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Increase in the total number of level 1 codes baselined. Increase in the total number of level 2 codes baselined. Increase in the total number of level 3 codes baselined.

TRENDS

Most of the codes baselined during this period are level 3 codes

CORRECTIVE ACTION