

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

SEMI-ANNUAL

QUALITY ASSURANCE PROGRAM TREND REPORT

FOR

JULY THROUGH DECEMBER 1996

CONCURRENCE:

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Enclosure

EXECUTIVE SUMMARY

1.0 Introduction

This report documents the semi-annual analysis of deficiencies identified during implementation of the Office of Civilian Radioactive Waste Management (OCRWM) Quality Assurance (QA) Program from July through December, 1996. This report compares data from deficiencies identified during the report period and data developed from deficiencies identified during the previous year (July 1995 through June 1996). The purpose of this trend report is to document quality trends identified as a result of this semi-annual analysis. Deficiency documents reviewed for this report include Corrective Action Requests (CAR), Deficiency Reports (DR), Performance Reports (PR), and Nonconformance Reports (NCR). The trend evaluation also included review of deficiencies identified and Corrected During Audits (CDA) and surveillances.

It should be noted that the current trending system provides for evaluation for repetitive occurrences each time a deficiency is identified. This report summarizes these specific evaluations and analyzes them for program wide trends and comparisons to previous report periods.

This report is intended to provide insight to management into a broader picture of the effectiveness of implementation of the OCRWM QA Program. It identifies and compares problem areas to enable management to prioritize efforts for areas needing improvement.

2.0 Summary

There was one Suspected Trend Investigation Report (STIR) initiated during the report period which is described in Section 3.2 of this report. This STIR was evaluated during the reporting period and is still open. The decision was made to address the disposition of this STIR by reference to YM-96-D004, an existing deficiency document, based on the on-going corrective actions that are believed to resolve the issues. Two STIRs issued to the Civilian Radioactive Waste Management System Management and Operating Contractor (CRWMS M&O) during the previous reporting period concerning recurring out-of-calibration Measuring and Test Equipment (M&TE) and not following design control procedures were dispositioned indicating no adverse quality trends exist. One STIR issued to the U.S. Geological Survey concerning inadequate corrective action has been dispositioned indicating that, although an adverse quality trend did exist, the trend has been resolved through implementation of a corrective action plan associated with existing CARs. There is an additional adverse trend discussed in this report regarding the use of appropriate documents for work planning/control and organizational interfaces by the CRWMS M&O which was identified during a surveillance. Since the evaluations completed during the surveillance resulted in the trend being identified, no STIR was initiated. See Section 3.2 for details.

There has been no significant increase in the number of deficiencies identified in any QA Program element during the report period, and a review of the deficiencies during this period disclosed no additional adverse trends. Also, there has been little or no change in the number of deficiencies issued each month during the current reporting period. Although the lack of increase in deficiencies being identified indicates that implementation of the QA Program continues at approximately the same level of effectiveness, it should be noted by management that some areas do need improvement and should be evaluated for the appropriate actions to be taken to prevent any decline in these areas.

DETAILED REPORT

3.0 General

With respect to the overall OCRWM QA Program, this report compares and trends deficiencies identified during the last twelve months (January through December 1996) in six month time frames. In the last six month time frame (July through December 1996) there were 37 CDAs. This number compares to 27 CDAs reported during the previous six month period (January through June 1996). 191 CARs, DRs or PRs were issued during this report period which increased from 155 during the previous six month period. With respect to NCRs, 43 were issued this report period as compared to 46 during the previous period.

Review of the deficiency data coding indicates that OCRWM QA Program activities related to the following program elements are the largest contributors to the number of deficiencies identified:

OCRWM QA Program Element for CARs, DRs, PRs, and CDAs (Reference Attachment 4)

<u>Elements</u>	<u>Description</u>	Jul-Dec 1996	Jan-June 1996
		<u>%</u>	<u>%</u>
5	Implementing	21	22
2	QA Program	21	17
17	Records	11	13
12	Measuring & Test Equipment	6	7
3	Design Control	4	3

Categories for NCRs

<u>Related QA Program Element</u>	<u>Description</u>	Jul-Dec 1996	Jan-June 1996
		<u>%</u>	<u>%</u>
7	Control of Purchase Items (Supplier Defects)	35	35
12	Control of Measuring and Test Equipment	31	15
5	Implementing Documents (Work Defects)	15	15
8	Identification and Control Items	15	6
SII	Sample Control		5

Deficiency Causes

<u>Description</u>	<u>NCRs</u> <u>%</u>	<u>CARs, DRs & PRs</u> <u>%</u>
Personnel	43	48
Implementing Documents	0	18
Reliability	18	0
Management Systems	0	5
Supervision	11	13
Training	0	5
Communications	0	5
Miscellaneous	29	5

3.1 Hardware Trends

In reviewing NCRs to date, no adverse hardware trends were identified.

3.2 Quality Program Trends

During a recent audit of Sandia National Laboratories (SNL), several conditions adverse to quality in QA Program Element 5.0, Implementing Documents, were identified and documented on STIR SNL-97-S001. This STIR identified conditions adverse to quality that, when coupled with deficiencies identified previously in SNL implementing documents, constitutes an adverse trend. The decision was made to address the disposition of this STIR by reference to YM-96-D004, an existing deficiency document. The corrective actions being implemented by SNL for this deficiency document have been effective to date. It is believed that completion of corrective actions for YM-96-D004 will resolve the trend identified by the STIR.

During surveillance YMP-SR-96-019 of the CRWMS M&O and Kiewit/Parsons-Brinckerhoff field activities related to controls for drilling, blasting and construction monitoring, significant conditions adverse to quality were identified on CAR YM-96-C007. This CAR identifies that conditions adverse to quality, when coupled with deficiencies identified previously, identified in the CRWMS M&O field program regarding the use of appropriate documents for work planning/control, and organizational interfaces by CRWMS M&O, constitutes an adverse trend. Corrective action for this adverse trend is being pursued through disposition of this CAR and is currently in progress.

3.3 Suspected Trends

One STIR was initiated by OQA during this report period. As identified above, evaluation of the STIR resulted in the identification of an adverse trend and was closed upon issuance of a CAR. Three STIRs from the previous reporting period have been dispositioned indicating that no adverse trends exist.

The STIR issued during this report period is as follows:

<u>STIR No.</u>	<u>Description</u>
SNL-97-T001	Inadequate Implementing Documents

STIRs issued during the previous reporting period which have been dispositioned indicating no adverse trends are as follows:

<u>STIR No.</u>	<u>Description</u>
LVMO-96-T002	Recurring out-of-calibration M&TE
LVMO-96-T003	Not following design control procedures
YMQAD-96-T001	Ineffective Corrective Action Program

No additional STIRs or adverse trends have been identified for this period as a result of the trending data evaluations performed for this report.

4.0 Corrective Action Administration

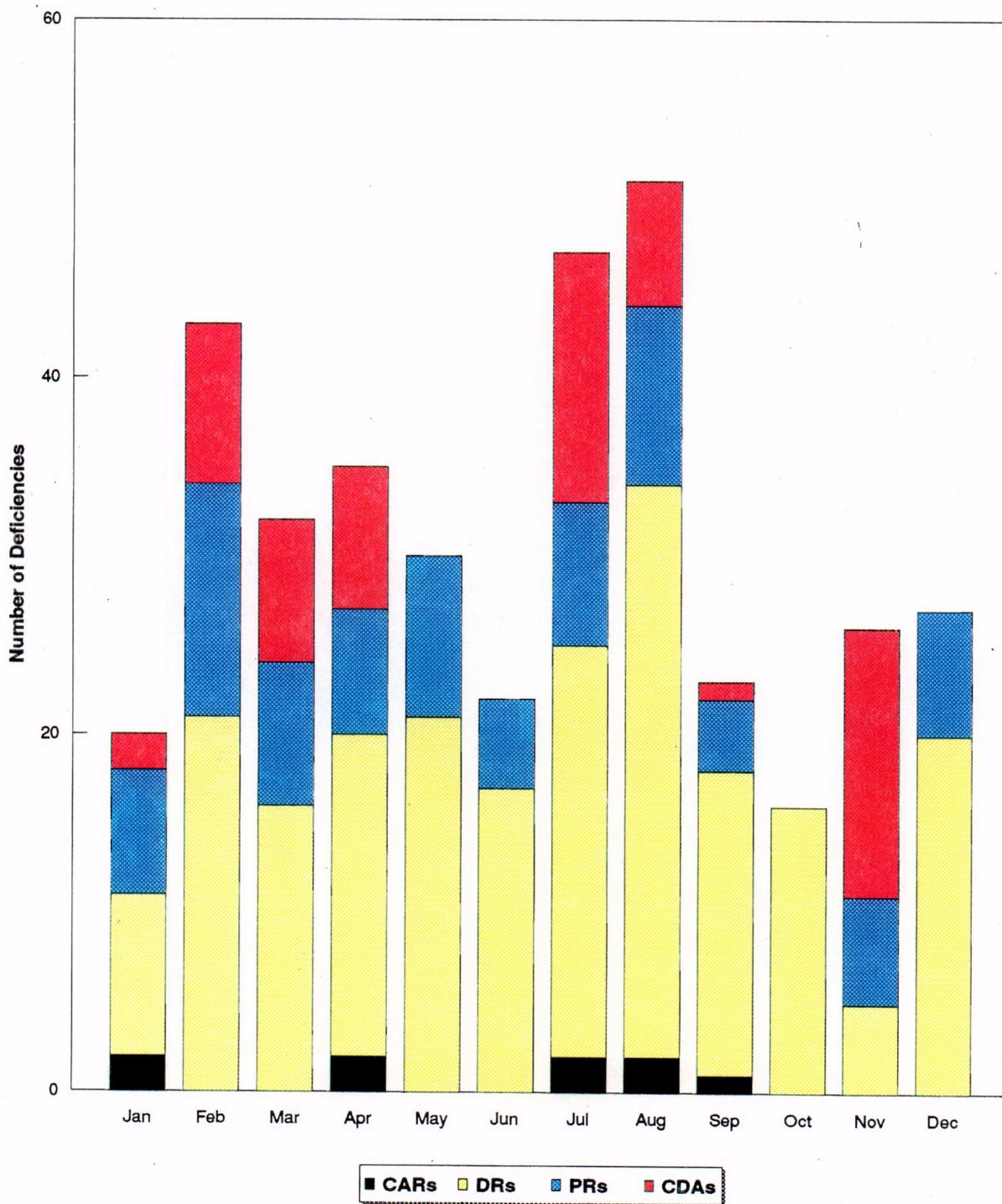
Attachments 1, 2, and 3 show the generation and status of corrective action documents for the last year. Attachment 4 shows deficiencies identified in each program element.

5.0 Attachments

1. Issuance of Deficiencies
2. Open Deficiencies
3. Nonconformance Reports
4. Deficiencies by Program Element

ATTACHMENT 1

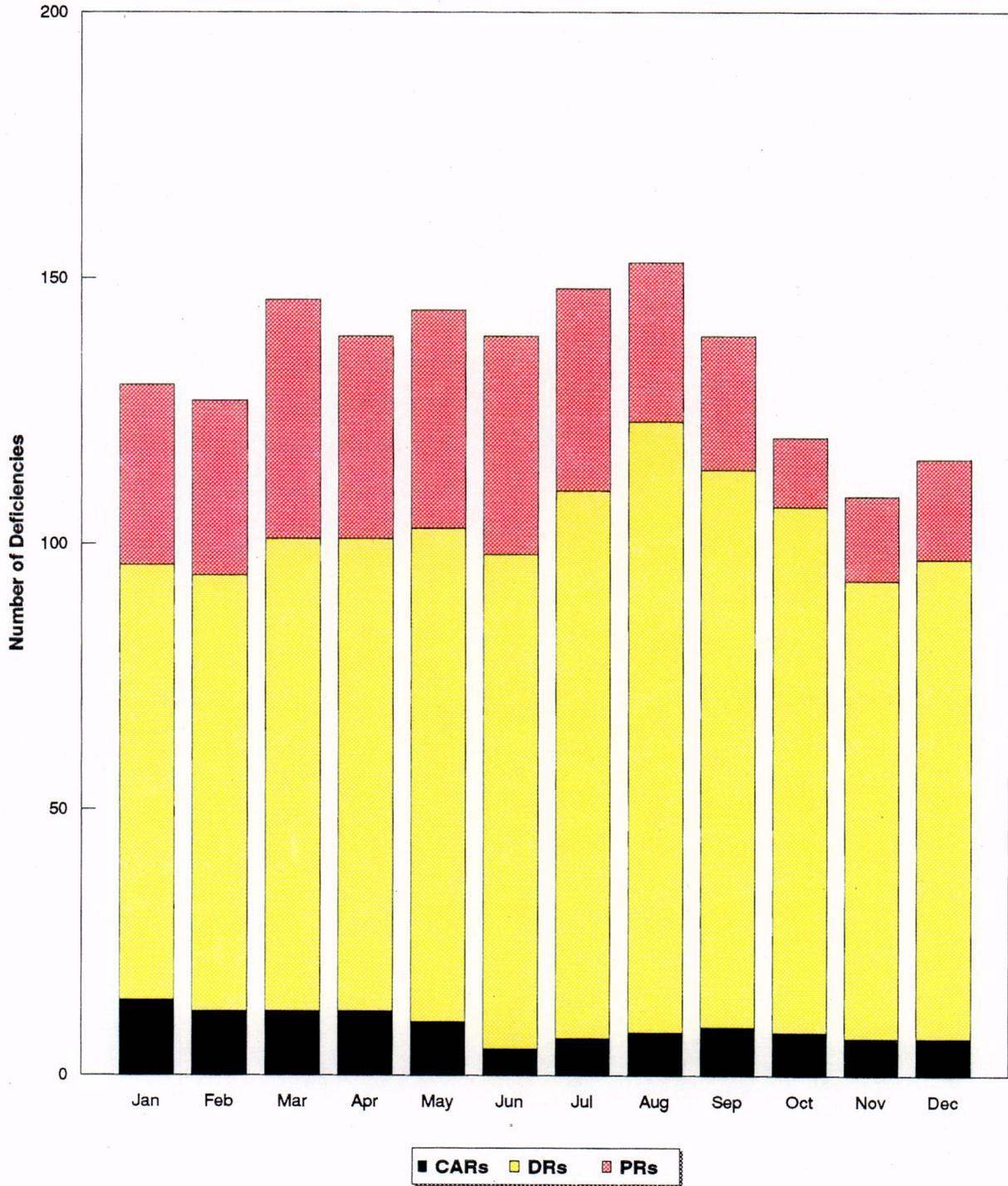
Deficiencies Issued
for the past year (Jan - Dec 1996)



C-01

ATTACHMENT 2

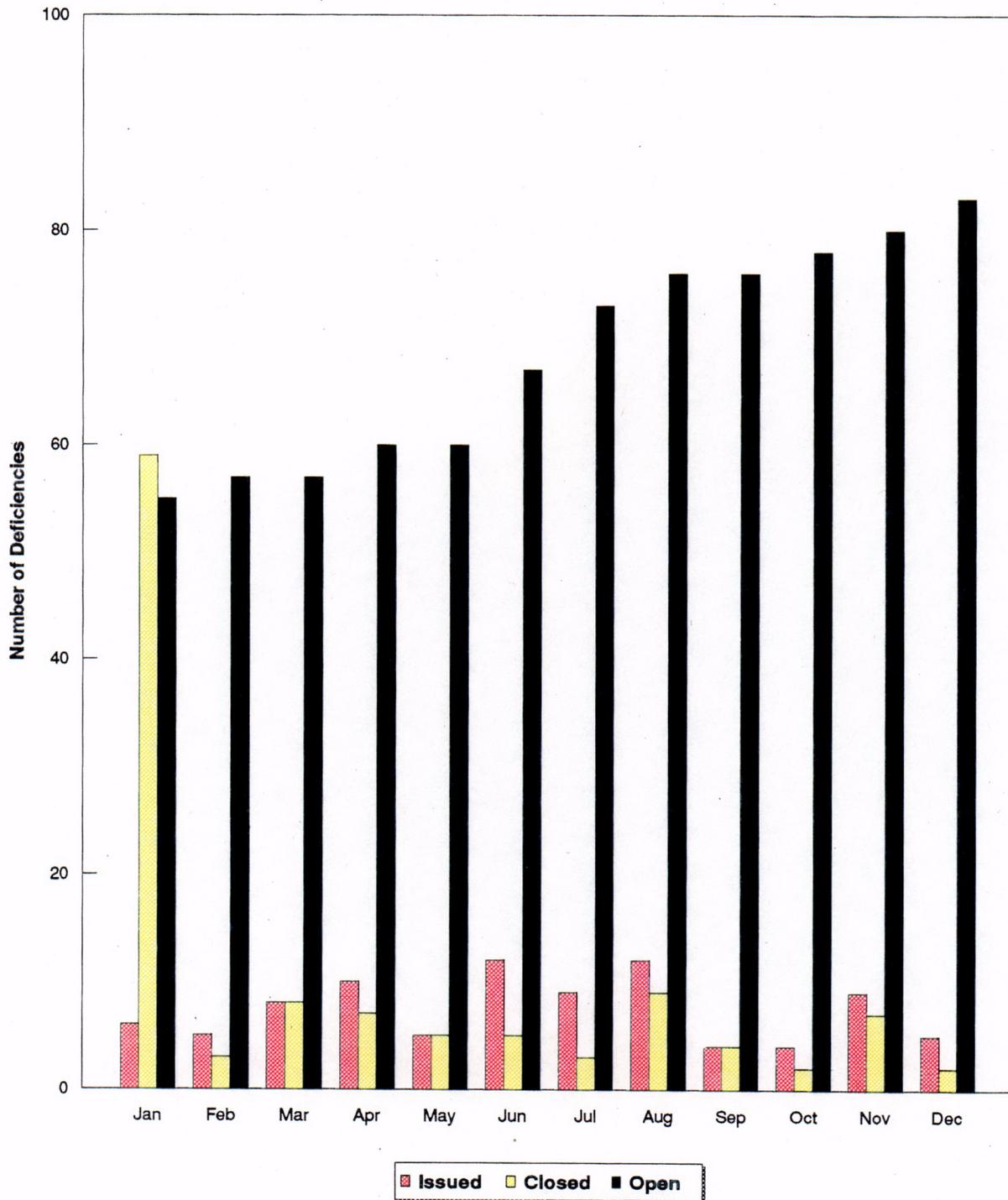
Open Deficiencies
for the past year (Jan - Dec 1996)



C-02

ATTACHMENT 3

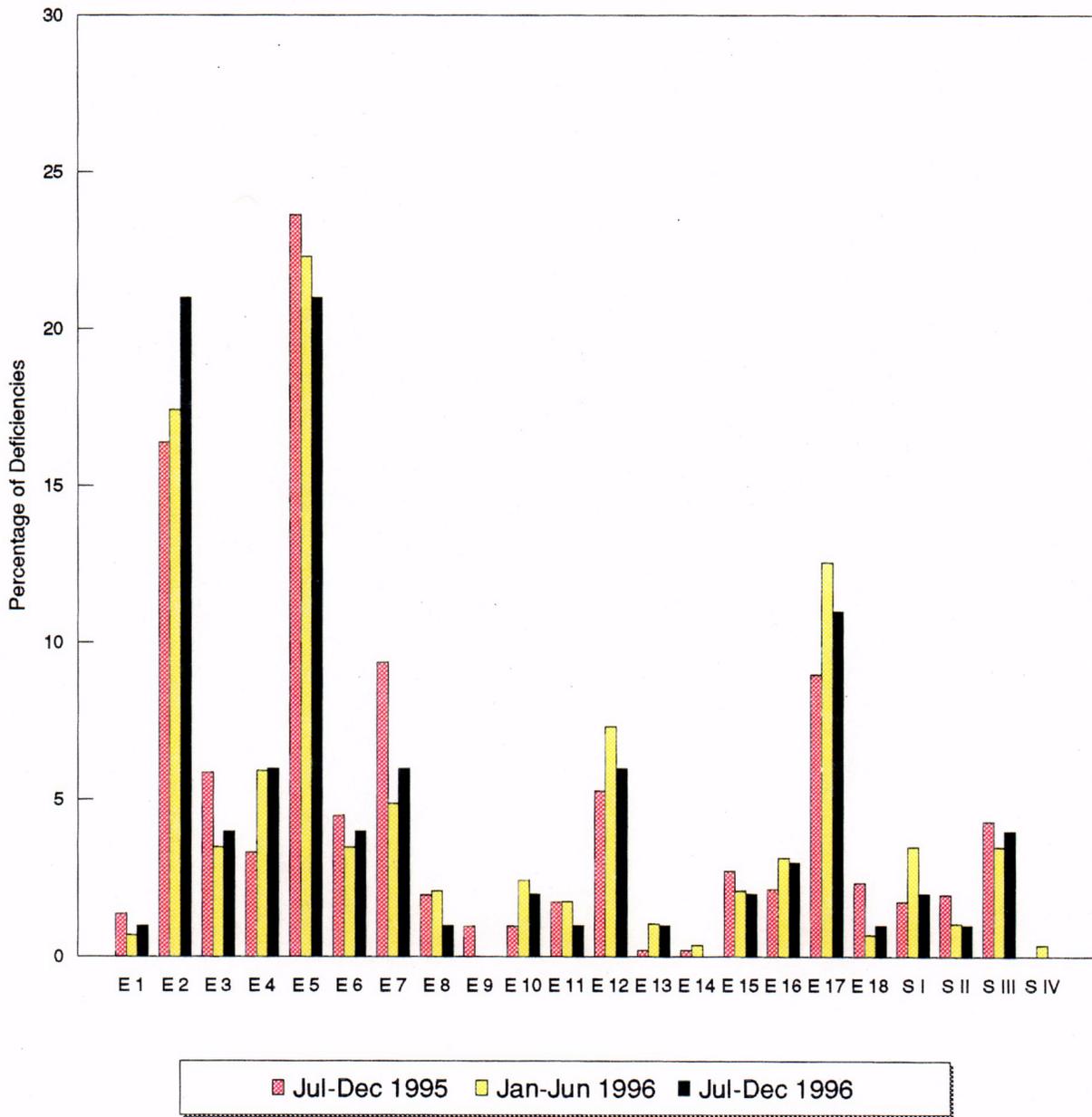
Nonconformance Reports
for the past year (Jan - Dec 1996)



C-03

ATTACHMENT 4

Deficiencies by Program Element
Comparison of Reporting Periods



C-04