



LAWRENCE
LIVERMORE
NATIONAL
LABORATORY

LLNL Report Samples for RR

JC Strote, Anita Zenger, Mike Piscotty, Pat Brown

March 22, 2005

Disclaimer

This document was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor the University of California nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or the University of California, and shall not be used for advertising or product endorsement purposes.

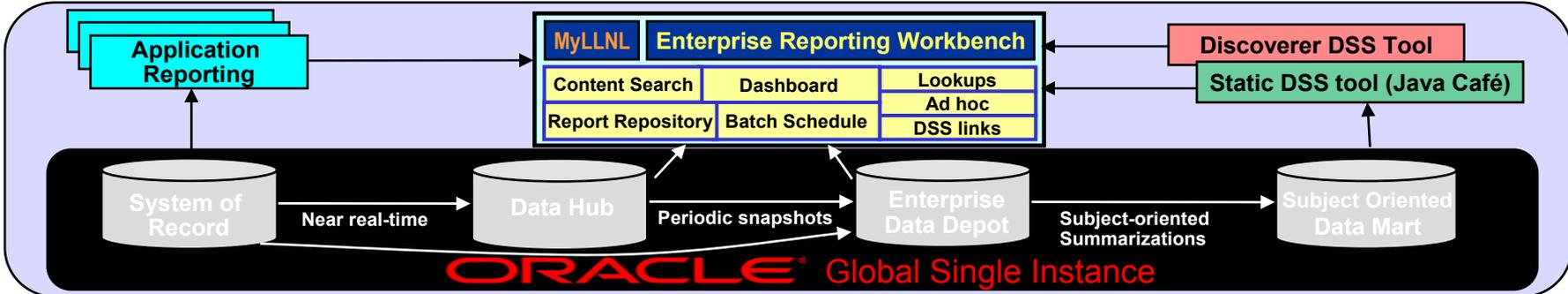
This work was performed under the auspices of the U.S. Department of Energy by University of California, Lawrence Livermore National Laboratory under Contract W-7405-Eng-48.

Integrated Architecture Capability

Overview

Mike Piscotty

User to Data:
Integrated Reporting Framework Overview



Enterprise Reporting Workbench (Oracle Portal)

Application Reporting	Analytical Reporting	Static Decision Support	Dynamic Decision Support
<p>Usability:</p> <ul style="list-style-type: none"> • Target: Process participants • Requires domain knowledge • Learning curve varies 	<p>Usability:</p> <ul style="list-style-type: none"> • Target: General analyst roles and the enterprise user • Requires domain knowledge • “Zero” learning curve 	<p>Usability:</p> <ul style="list-style-type: none"> • Target: Specific analyst roles • Requires domain knowledge • “Zero” learning curve 	<p>Usability:</p> <ul style="list-style-type: none"> • Target: Highly specialized analysts w/ expert level domain knowledge • Extensive learning curve
<p>Source: System of record w/real-time access or localized data mart</p>	<p>Source: Near real-time ODS, periodic snapshot cross-domain data structures, integrated.dimension.data</p>	<p>Source: Summarized data mart optimized for specific use</p>	<p>Source: Star schema or dimensional Data Mart optimized for specific use</p>
<p>Reporting types:</p> <ul style="list-style-type: none"> • Optimized for real-time process-specific reporting • Pre-defined reports • Workflow reporting • Exception reports • Real-time dashboard • Batch or on-demand • Web-based 	<p>Reporting types:</p> <ul style="list-style-type: none"> • Optimized for periodic general reporting, simple ad hoc reporting & lookups • Pre-defined reports • Snap shot dashboard • Batch or on-demand • Web-based, graphical, tight Excel integration 	<p>Reporting types:</p> <ul style="list-style-type: none"> • Optimized for specific analyst communities (e.g. RAs, Project Mgt., etc.) • Pre-defined reports • Pre-defined drill paths • Web-based, graphical, tight Excel integration 	<p>Reporting types:</p> <ul style="list-style-type: none"> • Optimized for complex ad hoc analysis • Dynamic drill paths • Slice and dice • Sophisticated GUI, graphical, tight Excel integration
<p>Tools:</p> <ul style="list-style-type: none"> • Oracle Reports, Business Intelligence, Discoverer 	<p>Tools:</p> <ul style="list-style-type: none"> • Oracle Portal, Reports, BI, JDeveloper, 	<p>Tools:</p> <ul style="list-style-type: none"> • Oracle JDeveloper, Formula One, Oracle BI 	<p>Tools:</p> <ul style="list-style-type: none"> • Oracle Discoverer, Express

Oracle Reporting Architecture Feedback



There is a significant need to improve the integration of the reporting tools provided with the Oracle ERP applications:

Oracle BI, Discoverer (End user layers) and Oracle Reports should utilize the same data structures/material views, etc.

From a users (report consumers perspective), there should be a common interface to invoke these various types of reporting.

The Oracle Portal should be used to view BI graphs, launch Discoverer, and run and view Oracle reports.

Key dimension data should be defined and maintained in one place and be made available for report filtering (think where clause) across all reporting tools. Discoverer does a good job of this and this “meta data” should be shared and available for use in all reporting tools.

A common scheduled execution and delivery tool should be used by all Oracle reporting tools. All reports/graphs should be able to run on a schedule, as well as on demand.

Sample Quad Charts

Quad Charts are used by departments to present a quick snapshot of project health.

Each Directorate and or dept formats them slightly differently. Some are more complex than others.

Division Leader's Summary Project Update: ROCSS

Date: April 30, 2001

<p>SV/CV Lights</p> <p>Green: <5% Yellow: 5-10% Red: >10%</p>	<p>WBS Level 1.21 Aircraft integration</p> <p>S: Red C: Green</p>	<p>WBS Level 1.22 HEAF integration</p> <p>S: Green C: Green</p>	<p>WBS Level 1.3 Seedant evaluation</p> <p>S: Green C: Green</p>	<p>WBS Level 1.4 Sensor Suite</p> <p>S: Green C: Green</p>	<p>WBS Level 1.5 HEAF support</p> <p>S: Green C: Green</p>
--	--	--	---	---	---

Overview

Customer: Boeing Corporation
 Concept: ROC SS is a project that will produce the equipment, personnel, and procedures needed to provide lethal fly-
 assess threats to National Missiles Defense (NMD) intercepts. NMD target is "cued" with an IR-active hemispherical
 that is sent to space to lethal intercept, and detected by remote airborne sensors.

Scope: Develop and model candidate seedant development integrated sensor suite, perform sub-scale tests at HAF,
 package and integrate system on HALO aircraft

Schedule (Start to Finish) February 2000 - April 2001

Principal Deliverables:

- RFPOR T Priority seedant development material based on primary model, for subsequent verification testing at HAF
- RFPOR T Intermediate and final results of a 12 shot test campaign using sensor suite at HAF, with at least one seedant material
- Capability: Packaged sensor suite with specific performance characteristics for operators, ground support ready for flight testing on HALO aircraft

Project Budget/Schedule

BAC \$2363K	EAC \$2563K	% Complete=91%	Schedule at Completion Date= 4/30/2001
-------------	-------------	----------------	--

Cumulative (to Date) Performance Measures

B QVP	A QVP	B QVS	C V%	SV%	CR	SPI
\$2153K	\$2342K	\$2363K	*-8%	*-9%	0.93	0.91

Key near term milestones

green dates: achieved or advanced
 red dates: delayed

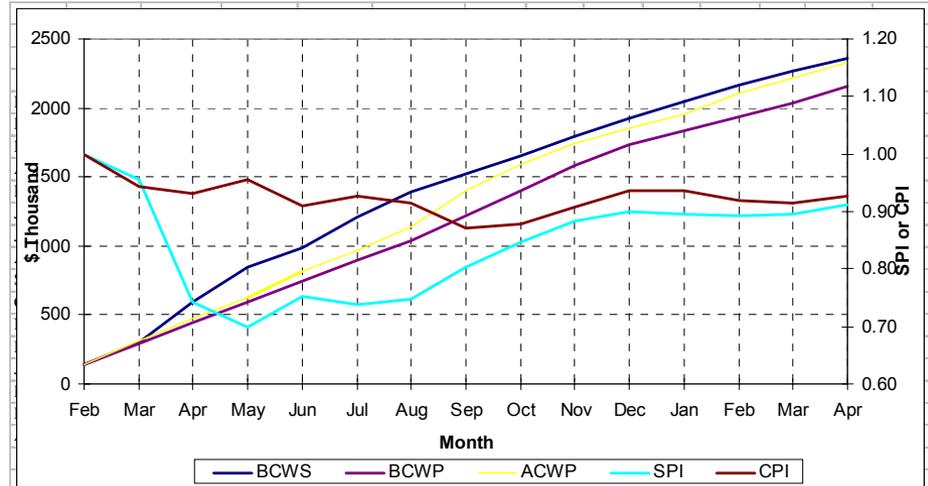
Milestone	Baseline Schedule	Current Schedule	%	Comments
HEAF Test Campaign Complete	February 20, 2001	March 15, 2001	100	Seedant detected on 8 shots
ES&H permits complete	March 28, 2001	May 31, 2001	90	OSP, ASD, IWS in review. NEPA CADEX approved.
Sensor Suite ready for flight	March 20, 2001	May 31, 2001	75	All sensors ready, software and hardware ready, but flight racks are in fabrication.
Management prestart review	April 2, 2001	May 25, 2001	0	
Integration flight test complete	April 15, 2001	June 15, 2001	0	

Project Management Issues, Concerns, Corrective Actions

WBS 1.21 Aircraft integration

Sponsor imposed delays in placing interface contract with Aeromet, delayed completion of integration tasks. A day for day slip in the schedule resulted in a 200k shortfall between BCWP and BCWS on the scheduled completion date of April 30. Sponsor approved \$200k in additional funding with an extended target completion date of June 30, 2001. CV is due to keeping the small team together at a critical mass. CV slightly lower than SV because some team members were able to work part time on other projects during the delay. Aeromet contract was placed, and we are fully engaged in flight integration activities that will culminate in a June test campaign. Additional \$200k funding and a baseline schedule delay for 2 months will correct the shortfall. Sponsor has approved this baseline change.

Performance Measure Trends





Wxx Activities – Project element (e.g. Pit Surv)

Budget

Planned – XXX k\$

Actual to date – XXX k\$

Planned to end of FY – XXX k\$

Liens – XXX k\$

(When are they expected to be costed)

Planned Activities

- —
- —
- —

Activities Accomplished

- —
- —
- —

Discussion/Issues

- Deviation from Plan
- Activities not Accomplished
 - Reason
 - Impact

Project Title

Description

FY05 Goals

Principal- and co- investigators

- Names

Budget

- Year x of xx
- Total budget
- FY05 budget

LLNL Beneficiaries of this Project

Exit Plan

- State the original exit plan



Name / Description	Planned completion date	Actual completion date	Comments

Project Name



Project Manager – Project Manager Name

Project Status

XX/XX/XX

The notes section on each page provide process and field definitions. Remove this comment from the final presentation.

Project Name:

Date:

Approved Goals and Objectives

Goals:

Objectives:

Issues, Concerns and Possible Solutions

•

Note: Attach a scope change viewgraph if the goals/objectives have changed.

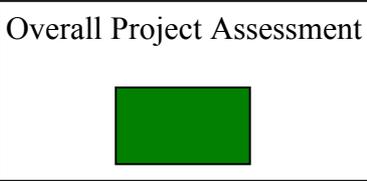
Significant Accomplishments

•

Planned Accomplishments

•

Self Assessment

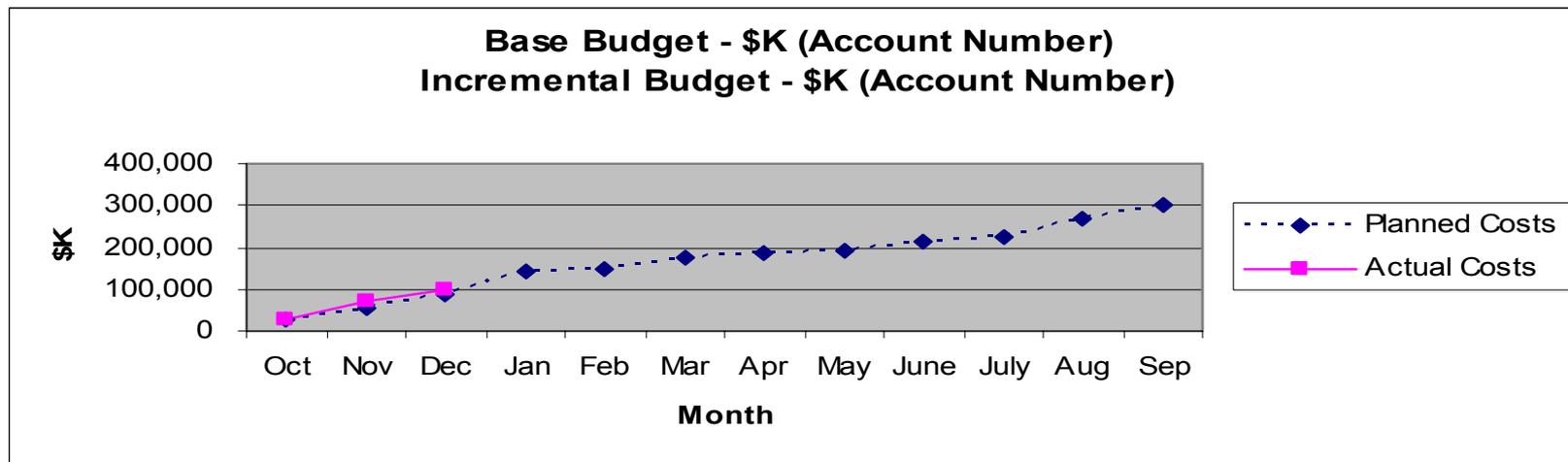


Legend:

	
Exceeds Expectations (Rare)	On Target
	
Schedule or Cost Variance between 5-10% Over Planned	Schedule or Cost Variance > 10% over Planned

Note: Attach a schedule/cost variance viewgraph if the project is assessed yellow or red.

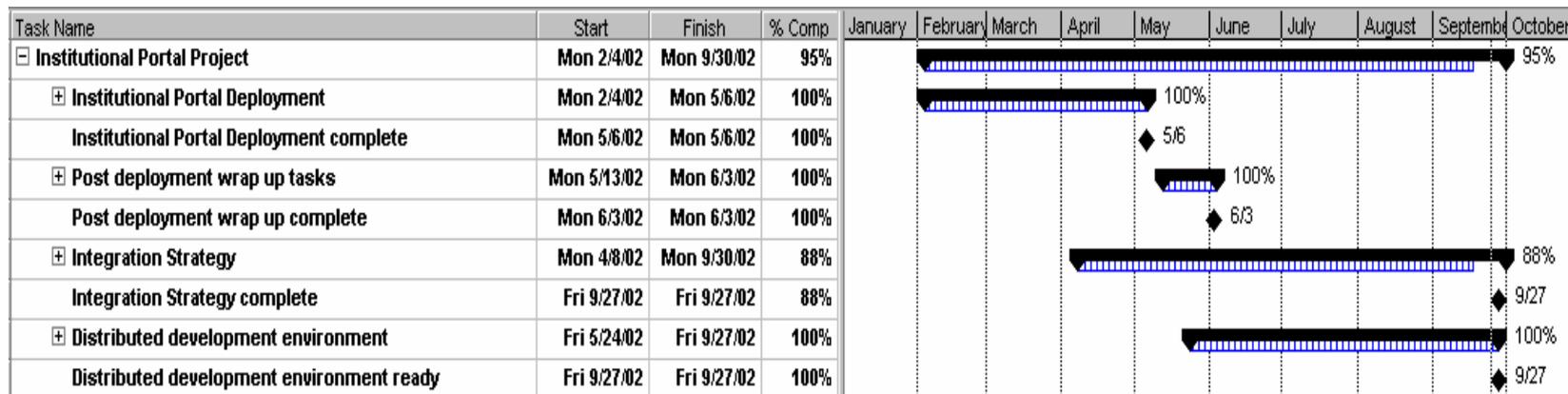
Project Budget (Base + Incremental)



Major Milestones

Milestone	Start Date	Finish Date	% Complete

Or



Scope, Cost, or Schedule Variance



Cause:

Project Impact:

Resolution: (only required on a cost or schedule variance)

*Sample report as
requested in #6.*

Project Review Guide

eAWP



Project Manager – Lisa Gash

Project Status

11/22/04

Approved Objectives

Strategic Goal: Streamline and Automate Work For Others Work Proposals process

Purpose: Web interface for RAs & PIs to enter WFO proposals and automated approval process resulting in shorter process time per proposal.

Note: Attach a scope change viewgraph if the goals/objectives have changed.

Significant Accomplishments

- Completed technical design and determined tools and applications to be used to create product.
- Received buy-in and approval/interest from financial community

Planned Accomplishments

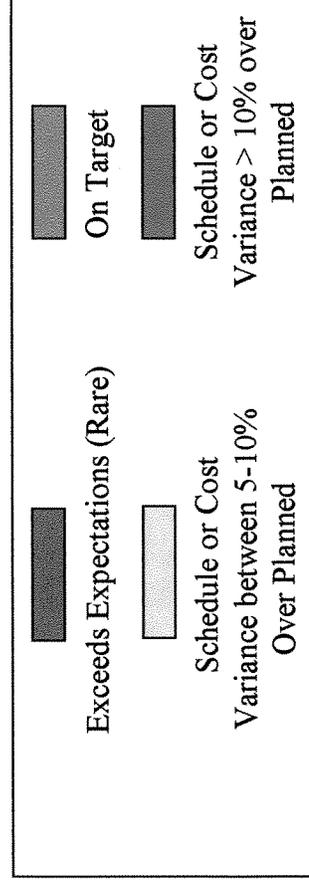
- Design reviews
- Complete coding and integration of project
- Begin testing of resulting product

Issues, Concerns and Possible Solutions

- Design document is taking longer than anticipated due to technical resource being on vacation and attending class.
- STARS may take technical resources off of project causing delay. Solution: find alternate resources.
- Requested CIO incremental funding may not be approved and CFO may not be able to fund entire project. Solution: delay project completion to following fiscal year or negotiate for additional funding mid-year.
- Using new technologies for technical team – limited expertise. Solution: involve mentors and subject matter experts with required skills.

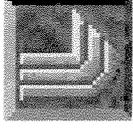
Self Assessment

Overall Project Assessment



Note: Attach a schedule/cost variance viewgraph if the project is assessed yellow or red.

Schedule Variance



Cause: Technical resources unavailable for 2-3 months from Dec-Feb will delay completion of development.

Project Impact: Three month delay in completion of development effort.

Resolution: Extend project into FY06.

LLNL Reporting Guidance

Contains Guidance provided to
Project Managers and PIs for
Project Reporting

Project Management Reviews

1.0 Purpose and Scope

This procedure provides the criteria for periodic reviews by Engineering management of hardware, software and analytical projects that are lead or substantially supported by Engineering Directorate personnel. The purpose of this procedure is to standardize the project management review process in order to socialize sound project management practice throughout the Directorate.

For programmatic and technology base work, the process is to be centralized and implemented within and by each Division. Project management reviews of Laboratory Directed Research and Development (LDRD) projects will be implemented primarily by the cognizant Center Director. Review oversight for all projects will be supported by the Associate Director through the office of the Chief Engineer. Reviews will be critiqued by a small review team to be appointed by the Division Office, Center Director as appropriate.

This procedure establishes a risk-based graded approach to the depth, complexity and frequency of the planning, conduct and reporting of project reviews and is applicable to all project leaders and key team members engaged in either of two categories of projects:

First, projects for which Engineering has program or execution accountability. This includes programs executed on behalf of other Laboratory directorates, Work for Others (WFO), Laboratory Directed Research and Development (LDRD) projects, and Technology Base (Tech Base) endeavors.

Second, projects for which Engineering does not have program or execution accountability, i.e., for which Engineering is providing a service by managing the project (or a key system, sub-system or element thereof) for a Laboratory program directorate.

The purpose of the management project reviews is to:

Assess progress early in the project and thereafter, on a continuing basis, so as to maximize the likelihood of fulfilling contractual commitments for performance, schedule and cost deliverables;

Give advanced warning of the character of potential problems so that, if necessary, upper management's attention can be brought to bear to facilitate resolution;

Provide advance warning and engage management's help on typical project pitfalls, such as scope creep, early consumption of contingency, unbound technical issues, task percent completion status versus plan, moving or new milestones, systems integration, ill-defined acceptance criteria, manpower issues, closeout issues, documentation, etc;

Provide assurance that the appropriate project management and systems engineering discipline has been applied to permit Engineering and/or its customers to optimally plan and control execution of projects and thereby increase likelihood of project success;

Increase likelihood of project success by allowing for prompt resource decisions;

Provide support and encouragement to principal investigators, project engineers and managers in the execution of their assignments.

3.0 Responsibilities

Chief Engineer

The Chief Engineer has primary responsibility for the implementation of this procedure. He/she shall maintain this procedure and provide quality assurance of the process on behalf of the Associate Director of Engineering. He/she shall maintain and update review templates for use by the Division Offices and Center Directors and exemplary sample review presentations for reference by review presenters.

Division Leader

Division Leaders shall be responsible for initiating and conducting the project management reviews, determining attendees, appointing review teams and tracking action items and their resolutions.

Project Manager/Engineer or Project Leader

The Project Manager/Engineer or Project Leader has primary responsibility for the project. He/she shall prepare and present the review materials in accordance with this procedure and the format described herein.

Engineering Assurance Manager

The Engineering Assurance Manager shall serve as a project reviewer and an advisor to the review team.

Engineering Operations Manager

The Engineering Operations Manager shall serve as a project reviewer and an advisor to the review team.

Review Team

The cognizant Division Leader or Center Director appoints the Project Management Review Team. The team shall attend the review, complete checklists (described in section 4.5, below and in 8.1), and record action items to be summarized by the Division Leader or Center Director or their appointee.

4.0 Project Management Review Procedure

4.1 Project Management Review Format

The following describes guidelines for format of reviews. Presentations shall typically be via overhead projection of viewgraphs. Templates for the viewgraphs will be established by the Chief Engineer and maintained by the Division Offices.

The Introductory Review will be held at the start of a project and is critical in assuring proper initial planning and application of project management rigor. It is necessarily

more detailed than the comparatively brief follow-on Status Reviews which are periodically held to assess progress and are assumed to be attended by personnel familiar with the objectives (deliverables) and technical approach of the project.

Material should be limited to 1 viewgraph per heading or sub-heading (except for the Initial Review where 2 or 3 viewgraphs for each of points 1 through 3 are allowed).

A sample status review presentation is attached in Attachment 8.2.

4.1.1 Project Concept and Overview (1 viewgraph)

Describe the nature of the project and the motivation/justification for conducting the work. Provide a statement of the purpose and goals of the project or research. Who is the customer, what is the principal deliverable, what is the total multi-year budget and what percentage of the project is currently estimated to have been completed? For LDRD projects, describe the strategic alignment with the engineering and/or programmatic mission and the anticipated Return to the Laboratory (RTL) and/or the Engineering Directorate. For LDRD projects nearing completion, describe the Exit Plan for project close out and securing follow-on work.

4.1.2 Performance Requirements (1 viewgraph)

Describe key contractual requirements emphasizing any deviations from the prior reviews.

4.1.3 Project Scope (2-4 viewgraphs)

Describe the high-level technical approach, architecture and design assumptions emphasizing any deviations from prior reviews.

4.1.4 Work Breakdown Structure (1 viewgraph)

Include a high level (level 1 or 2) work breakdown structure (WBS), limited to a single digestible page. The WBS may be functionally oriented, end-item (system) oriented or a mix thereof. The WBS may be displayed in a hierarchical (PERT) or as an indented list.

4.1.5 Schedule (1 viewgraph)

Display overall project schedule in Gantt format, rolled up to approximately 20 tasks maximum. Include status date bar, task percent complete indicators, critical path and milestone markers. Emphasize any significant deviations from past reviews.

4.1.6 Deliverables (1 viewgraph)

Intermediate and final deliverables (with the schedule agreed upon with the customer and current estimate for delivery, if different). Also indicate which deliverables have already been met, starting with the beginning of the current fiscal year. Intermediate and final deliverables, for the entire project lifetime (with the schedule agreed upon with the

customer and current estimate for delivery, if different). Also indicate which deliverables have already been met.

4.1.7 Milestones (1 viewgraph)

Provide a chart of the status of all project milestones, planned and reached since project inception. Milestones must emphasize the completion of tangible products and should include all key deliverables. For each milestone, indicate description, originally scheduled or baseline due date, revised due date, percent (%) complete. Emphasize any deviations from prior period review such as addition of new milestones, deleted milestone(s), modified or rebaselined milestone(s), or significant slippage in anticipated milestone completion date(s).

4.1.8 Budget (1 viewgraph)

Budget information should be provided on a graded basis. For smaller projects, provide a summary chart showing total project baseline budget, costs to date and total projected project cost. For medium and large projects, include a monthly expenditure plan keyed to the work breakdown structure and indicating monthly actual (accrued) costs and variances. Projects utilizing earned-value reporting systems should include monthly cost and schedule performance metrics and indices as described in Attachment 8.3.

If contingency is included, indicate allocation strategy at the Introductory Review and identify contingency usage at all subsequent status reviews.

Include a discussion of recovery plans for significant variance conditions.

Include a discussion of project staffing baseline, emphasizing any deviations from the preceding review.

4.1.9 Key Activities (1 viewgraph)

Include a discussion of significant project activities during the prior reporting period (typically one month) and key future activities planned for the upcoming reporting period.

4.1.10 Key Issues

Identify the top (10 maximum) issues or key risk factors related to project performance, cost and budget and briefly describe the mitigation plan. Include key issues related to Integrated Safety Management.

4.1.11 Technical Highlights (1 to 4 viewgraphs)

Technical highlight viewgraphs are typically presented only at the Introductory Review within the Project Scope discussion. Time permitting, they may be discussed at Status Reviews, but are typically included only as backup material which is included in the information package distributed to the audience and held in abeyance unless needed.

4.1.12 Summary Quad Chart

The Quad Project Summary Chart is a one page, standardized tracking and reporting form that integrates milestones, issues, schedule and budget information (see Attachment 8.5).

4.2 Project Management Review Attendees

Typically, attendance at Project Management Reviews includes the following: Project Engineer/Presenter, key project personnel, cognizant Division Leader or Center Director, Chief Engineer, Assurance Manager, Operations Manger, Review Team and other interested Engineering management personnel as appropriate.

4.3 Project Management Review Frequency

Typically, status reviews are to be held monthly.

4.4 Project Management Review Duration

The introductory (project launch) review is expected to last 1 to 2 hours. Thereafter, status reviews are nominally 30 minutes in duration.

4.5 Review Team Deliverables

The Review Team (typically three people appointed by the Division Leader or Center Director, as appropriate) will give a “red light, green light, or yellow light” (RGY) rating on the following project management evaluation categories that are to be summarized on a check list (see Attachment 8.1):

Definition of Deliverables

Identification of System Requirements

Work Breakdown Structure (WBS)

Milestones

Definition of Resources

Integrated Safety Management Planning and Execution

Interfaces Definition and Implementation

Project Schedule

Budget Tracking and Reporting

Management plan including customer/supplier relations, quality assurance and configuration control

Risks Identification and Mitigation Plan

During the review, the Review Team will verbally submit their action to the review chairperson, i.e., the cognizant Division Leader or Center Director (or their appointee) who will, in turn, compile the action items and summarize them on a summary form (see Attachment 8.4). He/she will track disposition action items and verbally summarize their resolution at the subsequent project review(s). No formal review report is required.

5.0 Revisions

Revisions to this procedure shall be made by the Chief Engineer and approved by the Associate Director. As this procedure is newly released, no change bars are shown.

6.0 References (including related P3 chapters)

Project Management
Engineering Directorate Quality Assurance Plan
Engineering Records

7.0 Documents and Records

The cognizant Division Office or Center Director shall maintain the Project Management Review proceedings, resulting action items and related documentation.

Other Types and formats of Status Reports

Service Area Name



Presenter Name

Status Update

XX/XX/XX

The notes section on each page provide process and field definitions. Remove this comment from the final presentation.

Objectives



Goal:

-

Purpose:

-

Significant Accomplishments



-

Planned Accomplishments

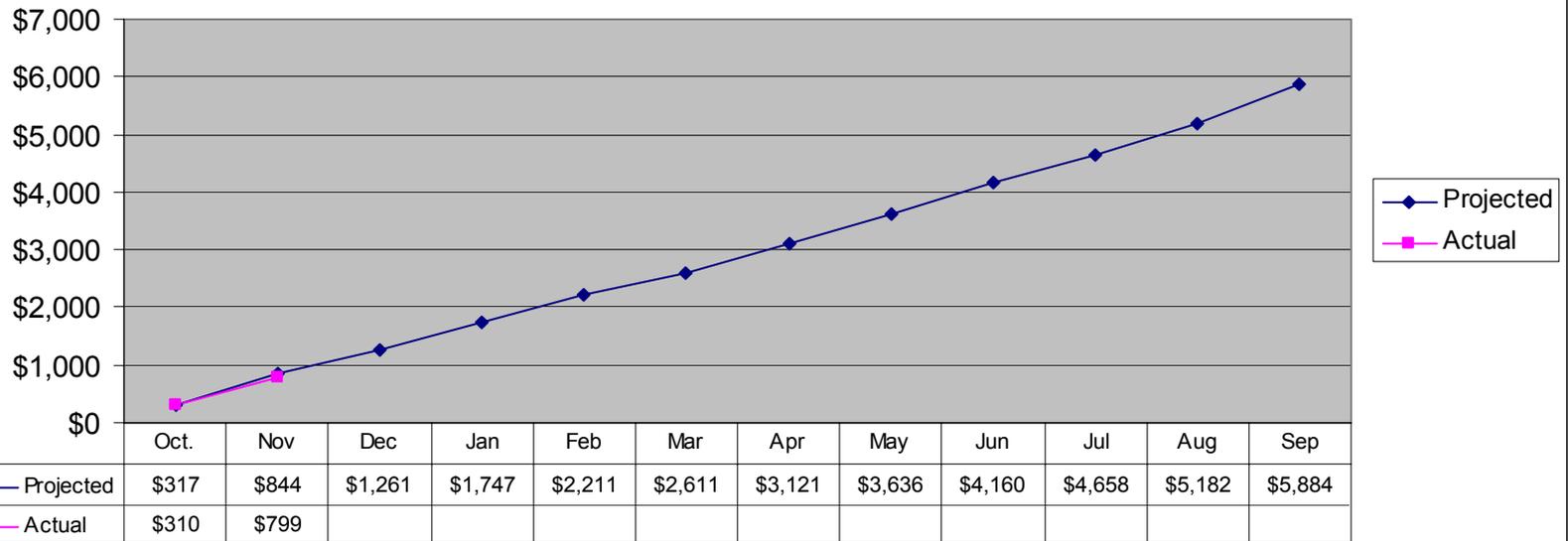


-

Budget



FY 2004 AIS Information Technology Services Budget



Month

Issues, Concerns and Possible Solutions



-



Project XYZ Status Report

Description:

Project managers should communicate regularly to stakeholders, informing them of the current status of the project and managing future expectations. If these key people are not kept well informed of the project progress, there is a greater likelihood of problems stemming from differing levels of expectations. In fact, in many cases where conflicts arise, it is not because of the actual problem, but because a customer or stakeholder was surprised. This status report is designed to provide a high-level summary of the project. This format is useful when the customer want to have a narrative status report vs. a presentation style report.

Field Descriptions

Project Description: Provide a short description of the project.

Project Overall Status (Green/Yellow/Red): Choose either Green, Yellow or Red. This gives an indication of the state of the project. Green means everything is under control. Yellow means that there is caution or risk. This might require management attention. Red means the project is in trouble and definitely requires management attention.

Milestone Status—A list of major milestones that gives management a sense for what work has been done and what work is remaining. Status should be Complete, Ahead of Schedule, Behind Schedule, On Target, On Hold, or Not Started.

Budget Status—Information on the total budget hours and dollars, the hours and dollars used so far, and the estimate of what the total hours and dollars will be at project completion.

Highlights Since Last Month—Any significant highlights, accomplishments, and events since last month.

Major Issues/Scope Change/Risks—A list of any item that management should be concerned about. For each item listed, provide a sense as to the impact to the project and what the resolution or the proposed resolution is.



Project XYZ Status Report

Project Description:

Project Overall Status (Green/Yellow/Red):

Milestone Status:

Major Milestones	Target Date	Status
Milestone 1		Complete
Milestone 2		Complete
Milestone 3		Behind Sched
Milestone 4		On Target
		Not Started

Budget Status:

Budget		Actual		Estimate at Completion	
\$	Hrs.	\$	Hrs.	\$	Hrs.

Highlights Since Last Month:

1. Highlight 1
2. Accomplishment 2
3. Significant Event

Major Issues/Scope Change/Risks (Include Description of Impact and Resolution):

1. (none)
- 2.

Custom Report requirements

Requirements are in Excel format and need to be placed side by side to see full report format.

Date			
	Project 1 Name		
Employee Name	Hours	% FTE	Cost
Alford, Francine	40	20.00%	\$3,456
Strote, JC	100	50.00%	\$23,222
De la Cruz, Yahel	24	12.00%	\$3,456
Meisner, Patrick	34	17.00%	\$4,234
.....		0.00%	
Employee n	177	88.50%	\$12,999
		0.00%	
Totals	375		\$47,367
	Number of hours scheduled from Approved Budget	Calculated by # hours per period divided by # of available hours per period. Calculate # of available hours per period as 160 hours in a 4 Saturday month and 200 hours in a 5 Saturday Month	Based Calculated burden cost from Approved Budget
	Select by Organization - Report all projects in Organizational Hierachy Tre		
	Select by Period - FY or GL Acct Period		
	Report only Effort and Supplemental type Expenses- Cost should include B		

Page n						
	Project n Name					
Cost	Hours	% FTE	Cost	Total Hours	Total %	Total Wage Expense
		0.00%		200.0		37956
		0.00%		200.0		46444
		0.00%		200.0		13056
		0.00%		200.0		12733
		0.00%		0.0		0
	23	11.50%	\$5,400	200.0		18399
		0.00%		0.0		0
0	23		\$5,400	1000.0		128588

1	2		
Directorate	Funding Source	Division	Funding Source

Engineering Direct - DOE Operating Engineering MMED Direct - DOE Operating (Link

Direct - Homeland Security

Order by, Directorate,
Division, Funding type, Project
Name



Project XYZ Milestone Summary Report

This report is completed at the end of every major milestone. There are a number of activities that need to be performed at the end of each milestone. This report provides an opportunity to share the progress made so far and to validate that everything is in good shape to continue. The format of the report is more like a memo, since the target audience will be management stakeholders.



Project XYZ Milestone Summary Report

To: Manager(s)
From: Project Manager
Date: mm/dd/yy
Subject: **Project Milestone Report**

Project Name

Include short description of the project.

This project has just completed a major milestone. This report provides a summary of the previous stage of work and the preparation for the next stage.

Deliverable Review

During the previous stage, we completed the following major deliverables:

- *Deliverable 1*
- *Deliverable 2*

During the next stage of the project, the following major deliverables will be produced:

- *Deliverable 1*
- *Deliverable 2*

Budget and Timeline

Add any appropriate comments here on the status of the budget and the deadline if there are any changes from the last Milestone Summary Report.

Risk Plan

Add any new risks that have been identified and note the action plan for each.

Customer Readiness

Comment on the customer's readiness to proceed to the next stage.

Project Team Readiness

Comment on the project team's readiness to proceed to the next stage.

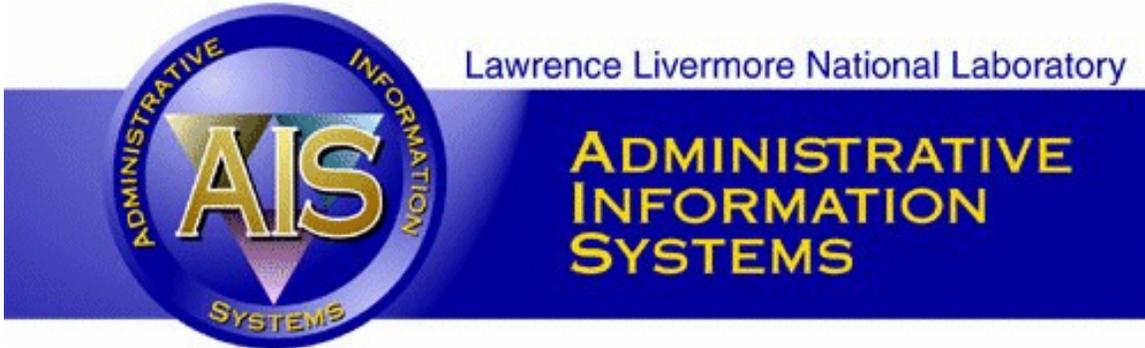
Outstanding Issues

Note the status of any outstanding issues and what is being done to resolve them.

Cost/Benefit Update

Note whether the project cost, timeline, or deliverables have changed. If so, does the entire project need to be re-justified?

Based on this review, the project is ready to proceed to the next stage of work.



Project XYZ

Risk Management Plan Template

Month xx, 20xx



Prepared by:



PROJECT XYZ RISK MANAGEMENT PLAN

Revision History

Version	Date	Author(s)	Revision Notes



PROJECT XYZ RISK MANAGEMENT PLAN

TABLE OF CONTENTS

<u>PROJECT STATEMENT</u>	1
<u>PROJECT OBJECTIVES</u>	1
<u>PURPOSE</u>	1
<u>ROLES AND RESPONSIBILITIES</u>	1
<u>RISK PROCESS</u>	2
<u>RISK RANKING WORKSHEET</u>	2



PROJECT XYZ RISK MANAGEMENT PLAN

Project Statement

Describe the purposes and importance to the project of identifying, tracking and planning for risk. (Remove this comment section from final document.)

Project Objectives

State the objectives of the Risk Management Plan. (Remove this comment section from final document.)

Purpose

Describe the purpose of the process and where the process will be stored. (Remove this comment section from final document.)

Roles and Responsibilities

Use a table (like the one shown below) to depict the roles and responsibilities of all participants in the Risk Management process. (Remove this comment section from final document.)

		Risk Management Role							
		Process	System Support Staff	IT Manager	User	Project Manager	Project Team	Steering Committee	Executive Sponsor
Risk Management Responsibilities									



PROJECT XYZ RISK MANAGEMENT PLAN

Risk Process

Describe the stages of the Risk Management process and provide a process diagram. (Remove this comment section from final document.)

1. Identify Risks
2. Rank Risks
3. Create Mitigation Strategy, Contingency Plan, and assign actions, as appropriate
4. Implement Actions where possible
5. Monitor existing risks and look for new risks on an ongoing basis

Risk Ranking Worksheet

A Risk Ranking Worksheet needs to be developed to help with the identification, management and ranking of risks throughout the life of the project. (Remove this comment section from final document.)

Type of Risk	What is at Risk?	Description of the Risk	Likelihood of Risk (1 to 10)	Impact of the Risk (1 to 10)	Severity of the Risk (Likelihood x Impact)	Contingencies/ Plan of Action
Possible late shipment of hardware	Schedule and potentially budget	Late shipment crosses FY boundaries and funding may not be available	4	4	16	Contact vendor and arrange for a priority shipment

Sample Winsight Reports

MOH-2 WBS Dollars

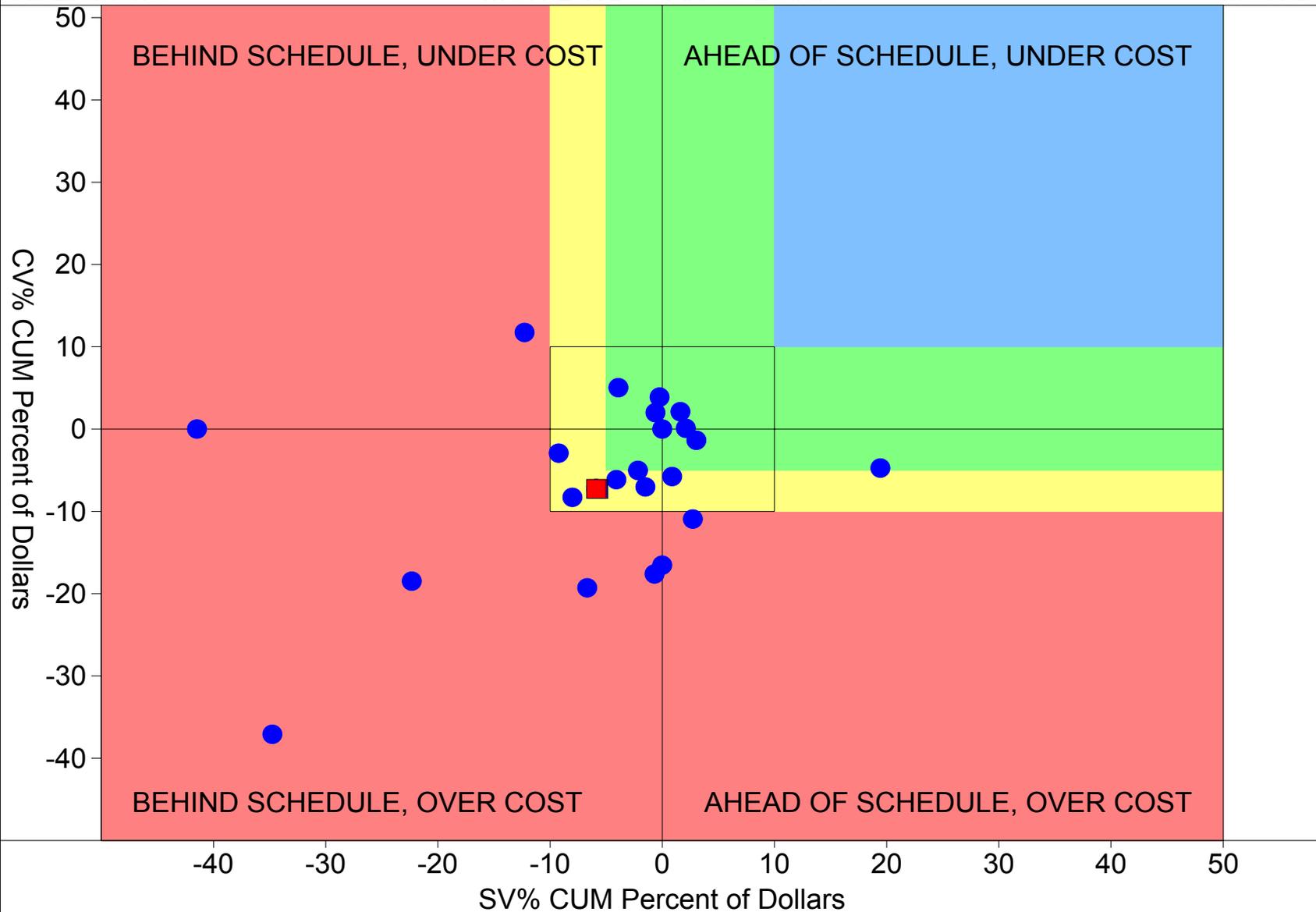
Monthly Performance Briefing

1/31/1993

Filter (All)
All Elements

Aggregate Bull's-eye Chart
MOH-2 WBS JAN 93 Dollars

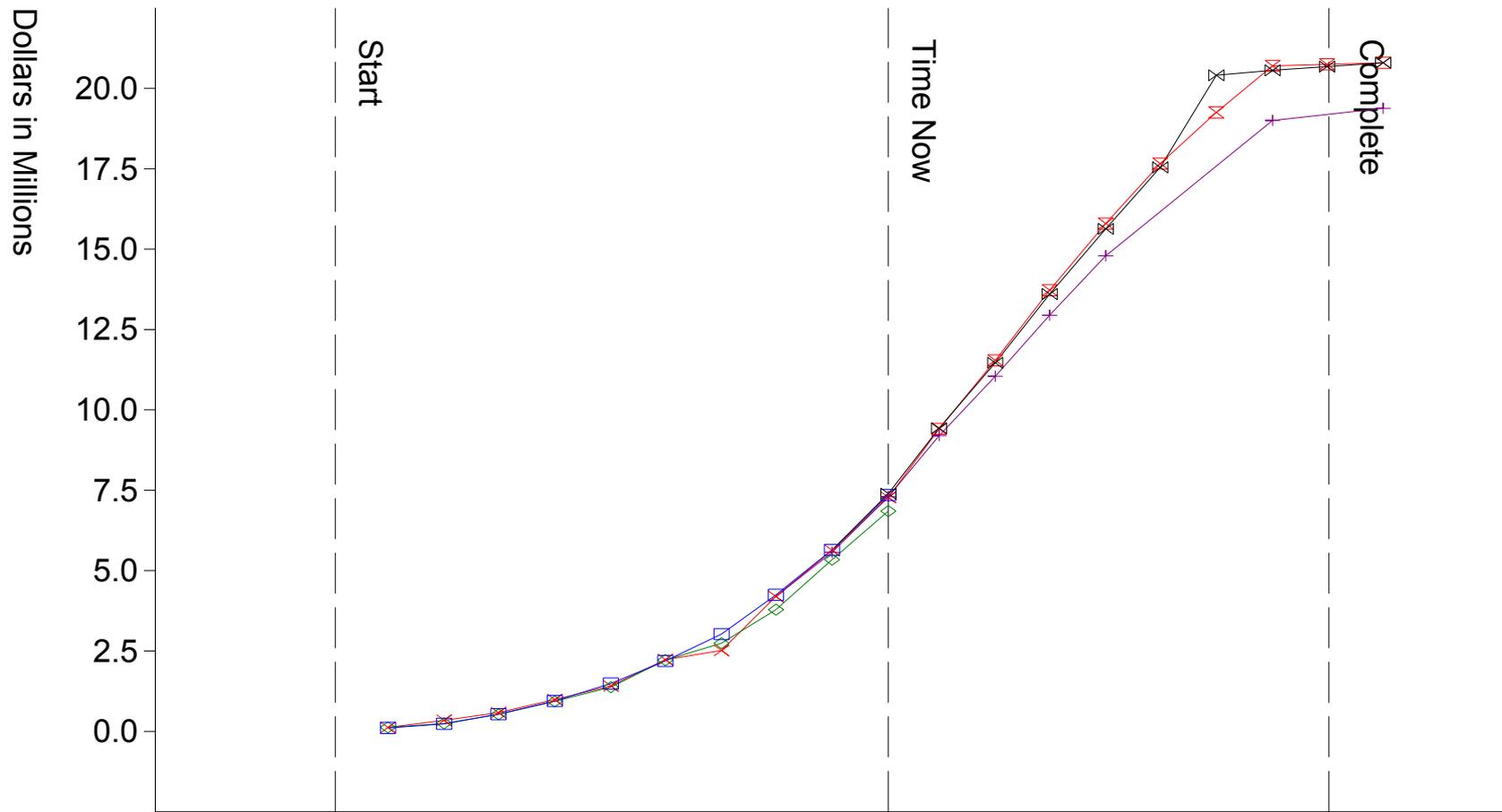
Highlight (Description)
MOH-2



Baseline Analysis
 F04695-86-C-0050 FPI RDPR

Contractor: MEGA HERZ ELEC & VEN
 Contract: MOH-2

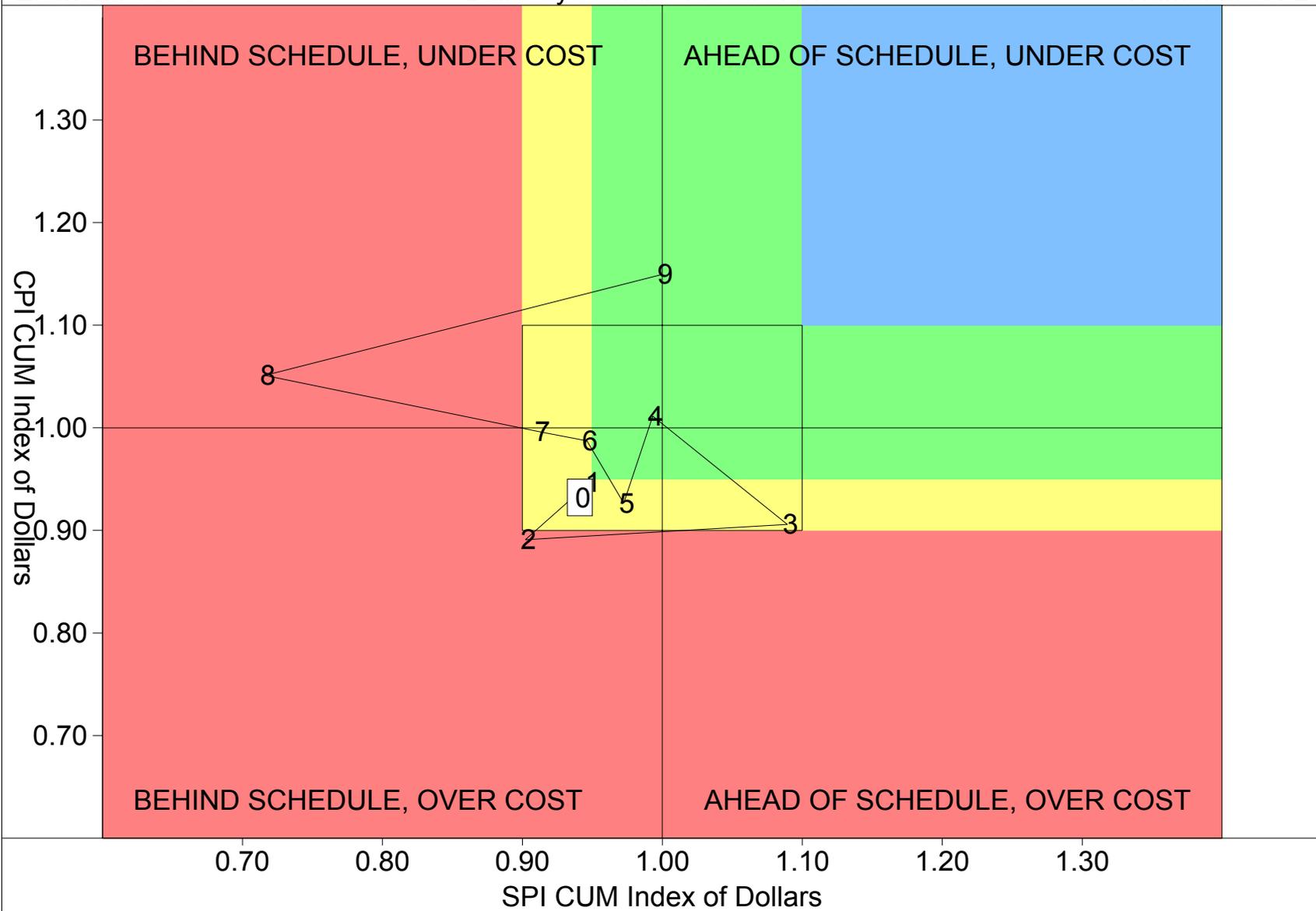
Program: Mohawk Vehicle
 AS OF: JAN 93



1992

1993

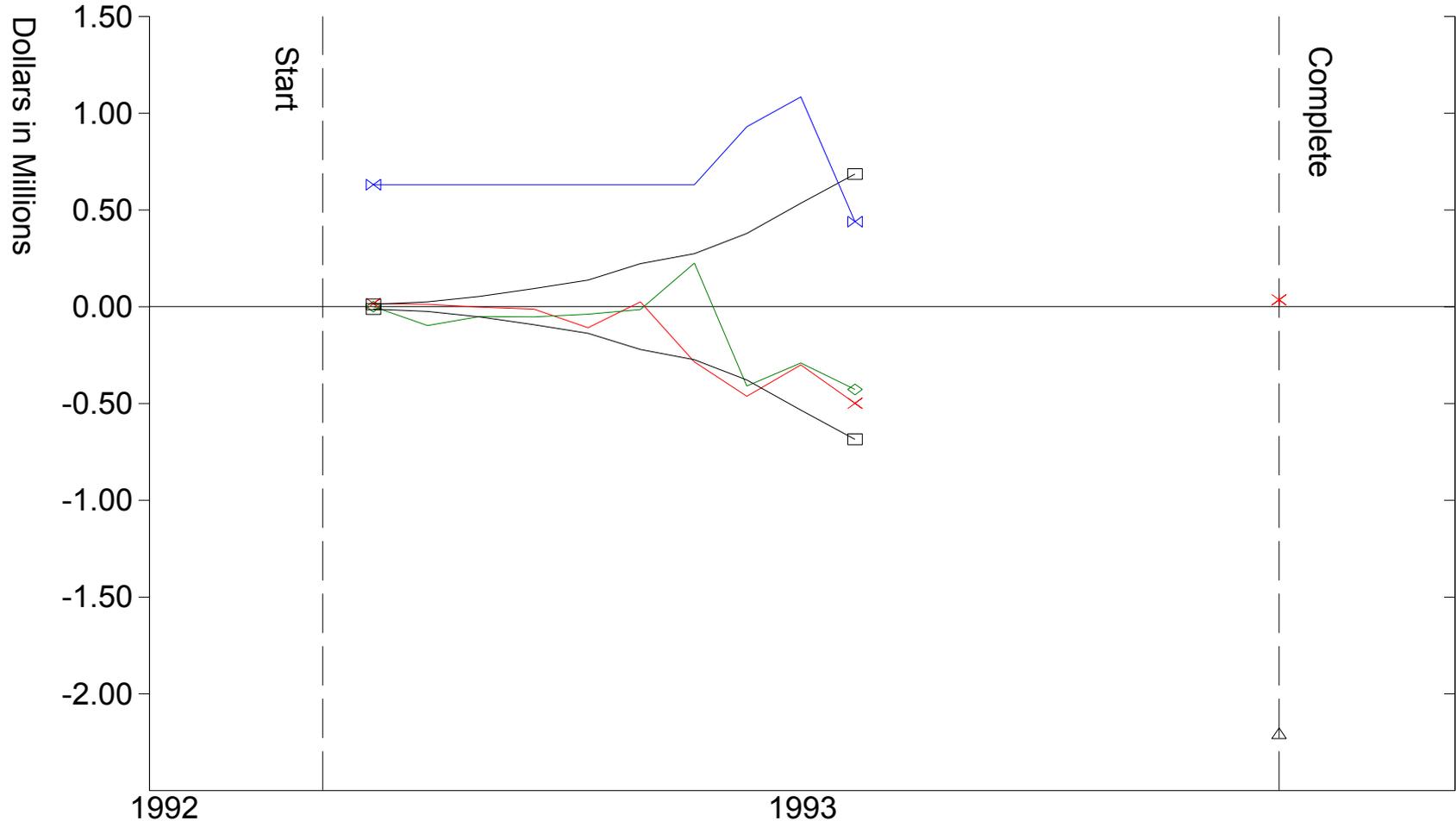
BCWS		7.28	JAN 93 Baseline		20.80
BCWP		6.85	DEC 92 Baseline		20.80
ACWP		7.35	NOV 92 Baseline		19.38



Cost/Schedule Variance Trends F04695-86-C-0050 FPI RDPR

Contractor: MEGA HERZ ELEC & VEN
Contract: MOH-2

Program: Mohawk Vehicle
AS OF: JAN 93

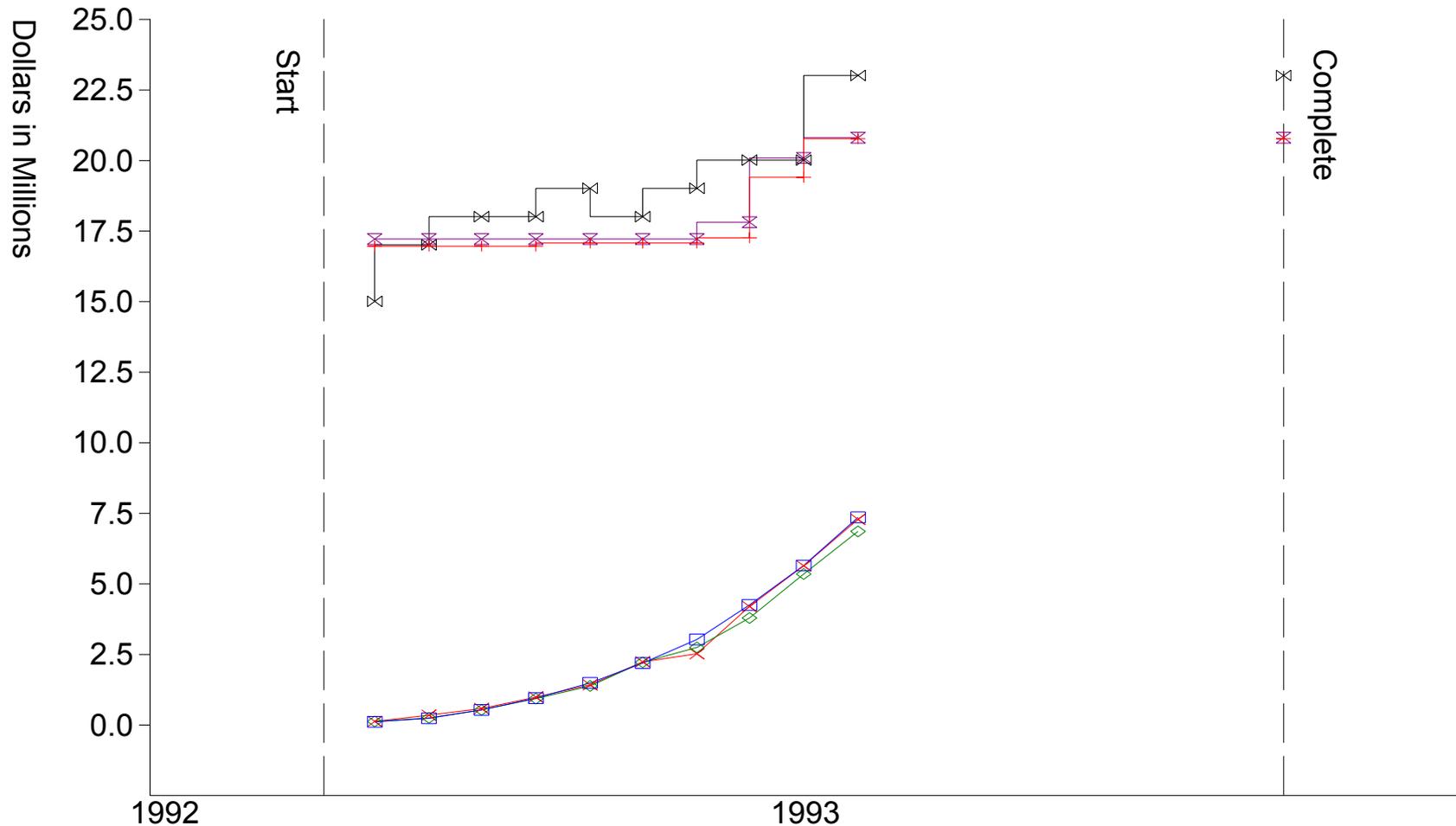


Cost Variance		-0.499	10% Threshold		Cost Var Est @ Completion
Schedule Variance		-0.428	Start/Comp Dates		PO -2.204
Management Reserve		0.439			KTR 0.035

Contract Performance F04695-86-C-0050 FPI RDPR

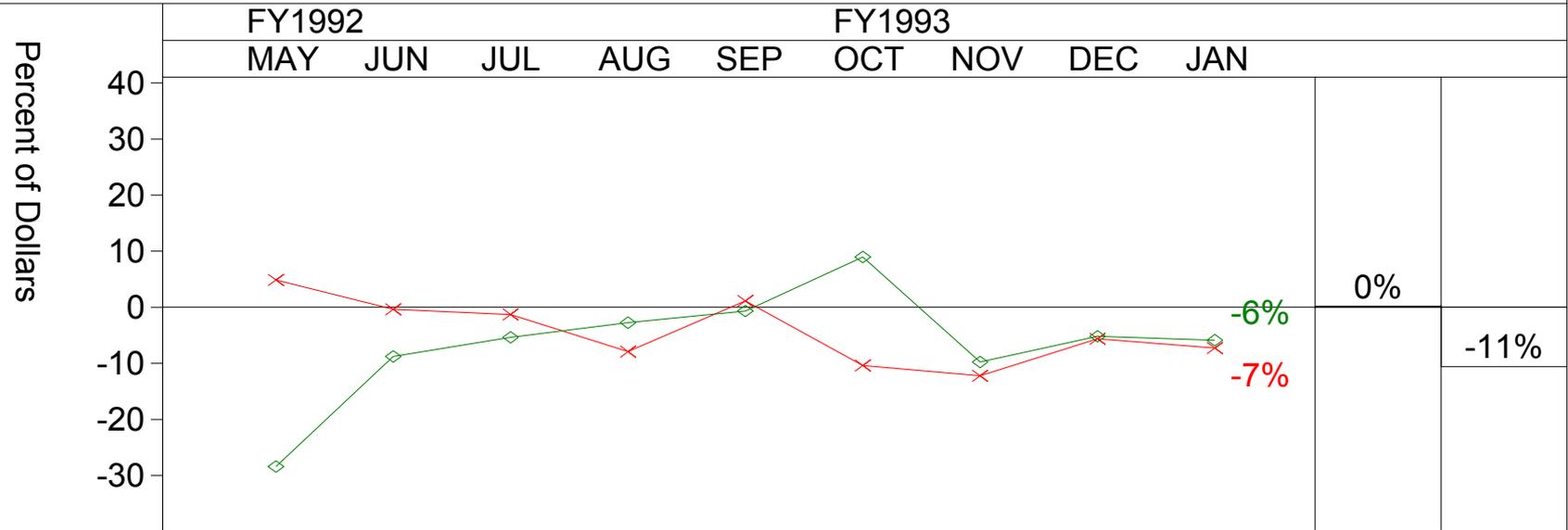
Contractor: MEGA HERZ ELEC & VEN
Contract: MOH-2

Program: Mohawk Vehicle
AS OF: JAN 93



BCWS		7.28	CBB/TAB		20.80
BCWP		6.85	Program Manager's Estimate		23.00
ACWP		7.35	Contractor's Estimate		20.76

MEGA HERZ ELEC & VEN Cost/Schedule Variance
F04695-86-C-0050 MOH-2 RDPR FPI POP: 01 MAR 1992 - 15 SEP 1993



	Dollars in Millions										At Completion		
	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN			KTR	PO
BCWS	0.345	0.581	0.986	1.415	2.231	2.517	4.194	5.633	7.279			20.796	20.796
BCWP	0.247	0.530	0.933	1.376	2.216	2.742	3.784	5.342	6.851			20.796	20.796
ACWP	0.235	0.532	0.945	1.485	2.191	3.027	4.247	5.643	7.350			20.761	23.000
CV	0.012	-0.002	-0.012	-0.109	0.025	-0.285	-0.463	-0.301	-0.499			0.035	-2.204
SV	-0.098	-0.051	-0.053	-0.039	-0.015	0.225	-0.410	-0.292	-0.428				

PMB: 20.357 % COMP: 32.94 MR: 0.439 KTR MR: 0.000 PO MR: 0.000

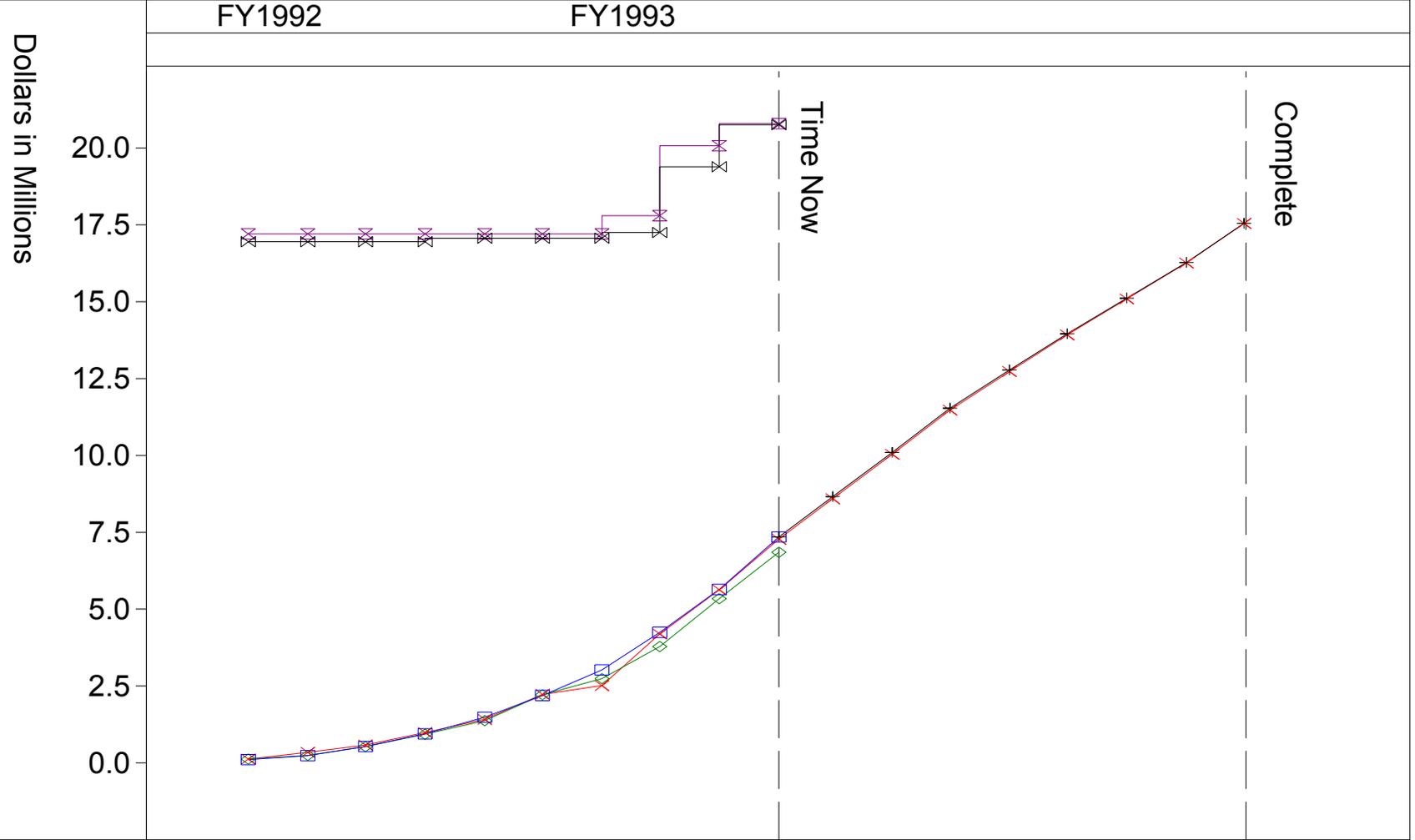
—x— **COST VARIANCE** CURRENT FUNDING: 10.000 AS OF: JAN 93
—◇— **SCHEDULE VARIANCE** PO EPC: 24.000 OPR: MR B. TECH
 PROJ FUNDING: 23.000 PROGRAM: Mohawk Vehicle

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Cum Element Performance

Name: MOH-2



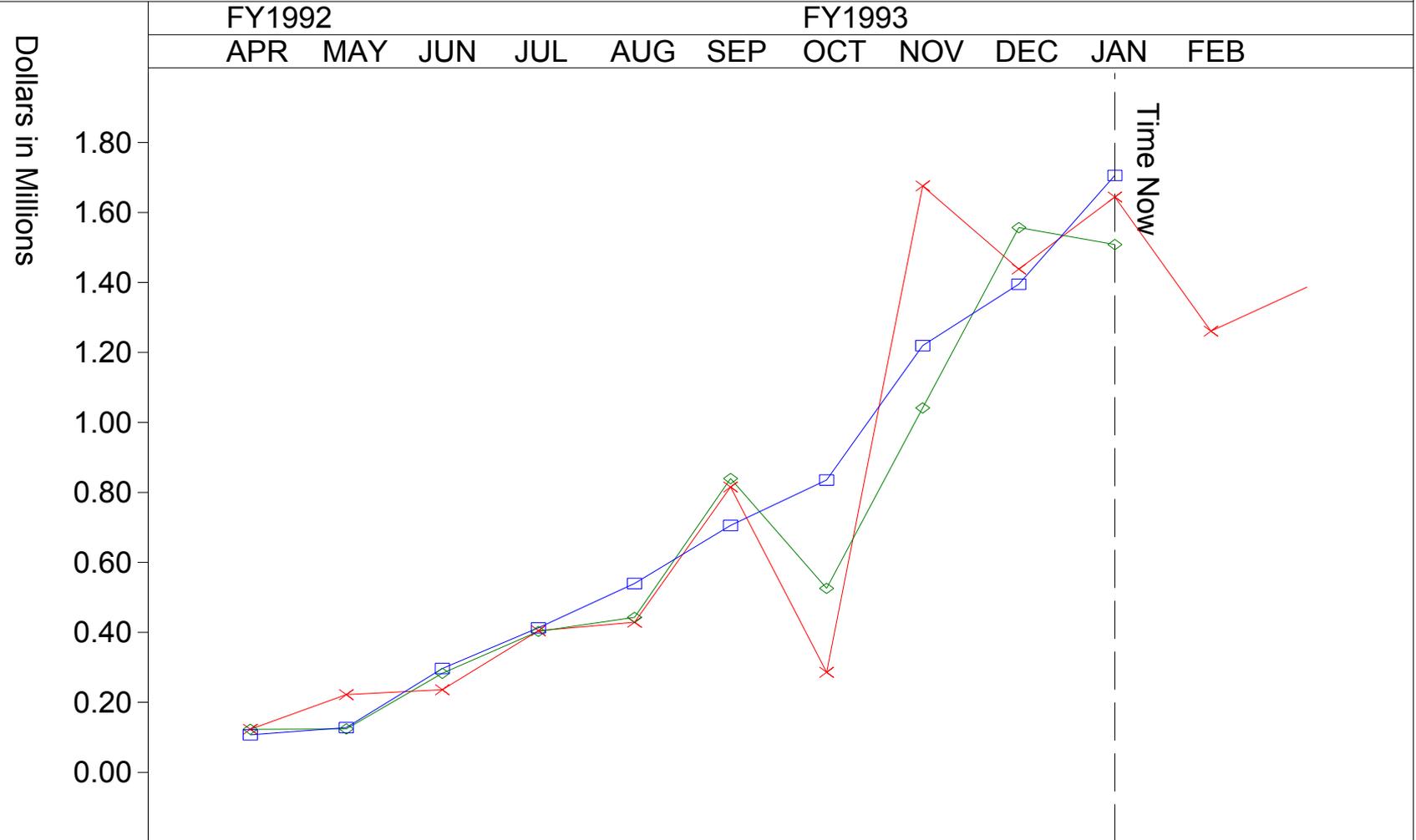
BCWS	— x —	7.28	BAC	— x —	20.80
BCWP	— ◇ —	6.85	LRE	— x —	20.76
ACWP	— □ —	7.35			
ETC	— + —	7.35			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Cur Element Performance

Name: MOH-2

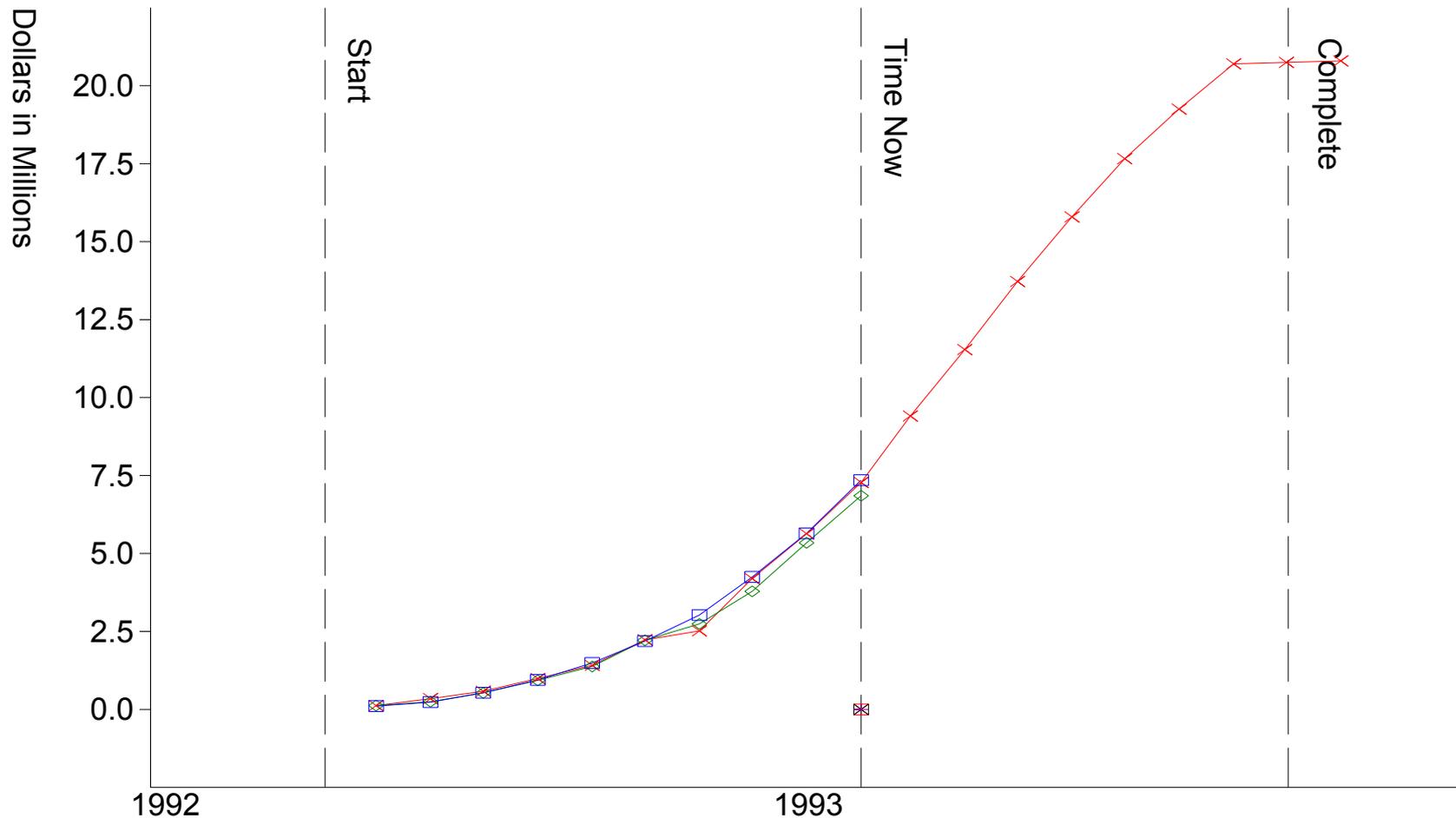


—x—	BCWS	0.123	0.222	0.236	0.405	0.429	0.816	0.286	1.677	1.439	1.645	1.261
—◇—	BCWP	0.123	0.124	0.283	0.403	0.443	0.840	0.526	1.042	1.558	1.509	
—□—	ACWP	0.107	0.128	0.297	0.413	0.540	0.706	0.836	1.220	1.396	1.707	

Funding
F04695-86-C-0050 FPI RDPR

Contractor: MEGA HERZ ELEC & VEN
Contract: MOH-2

Program: Mohawk Vehicle
AS OF: JAN 93



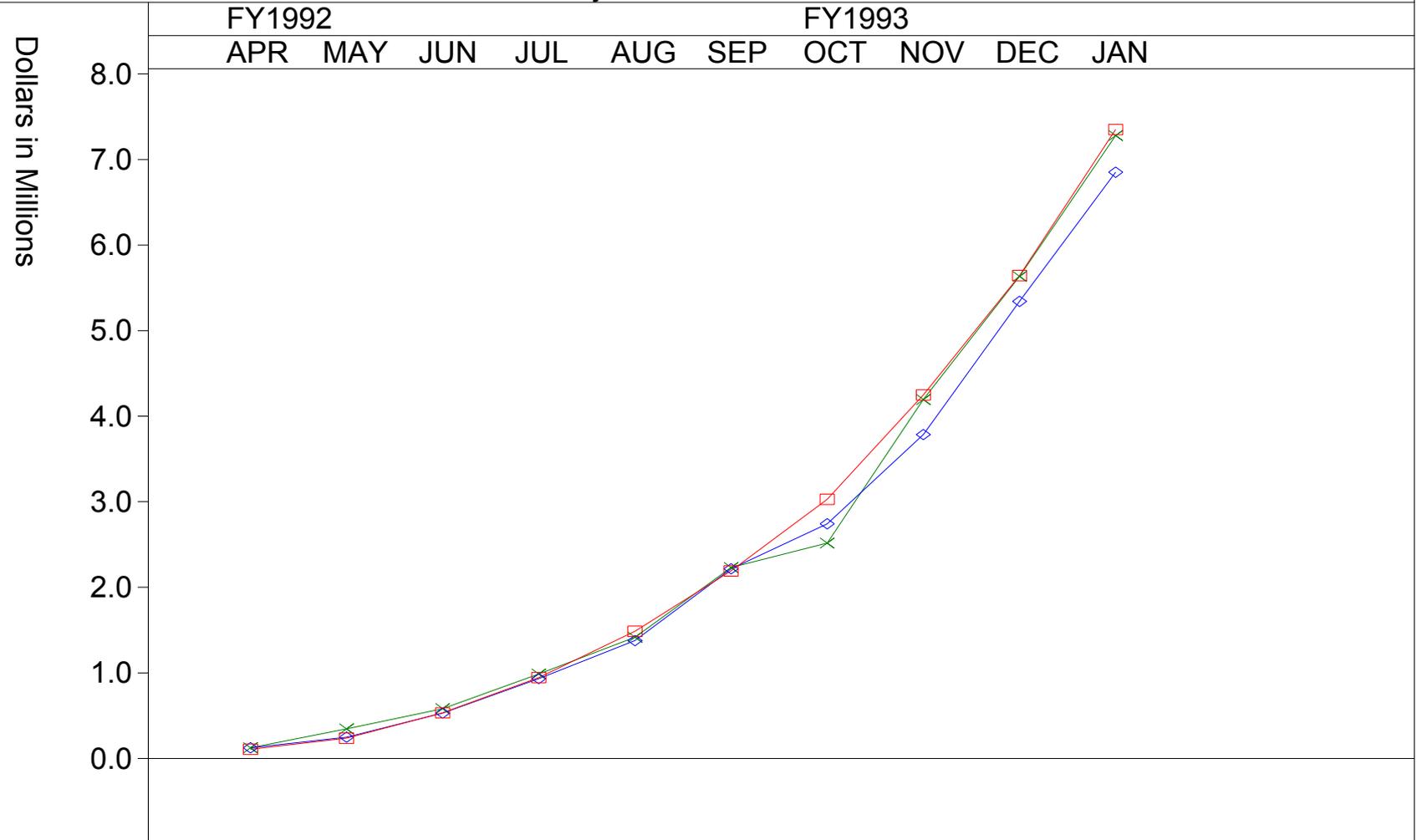
BCWS		7.28	Contractor Spread		0.00
BCWP		6.85	Automated Spread		0.00
ACWP		7.35	Custom Spread		0.00

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

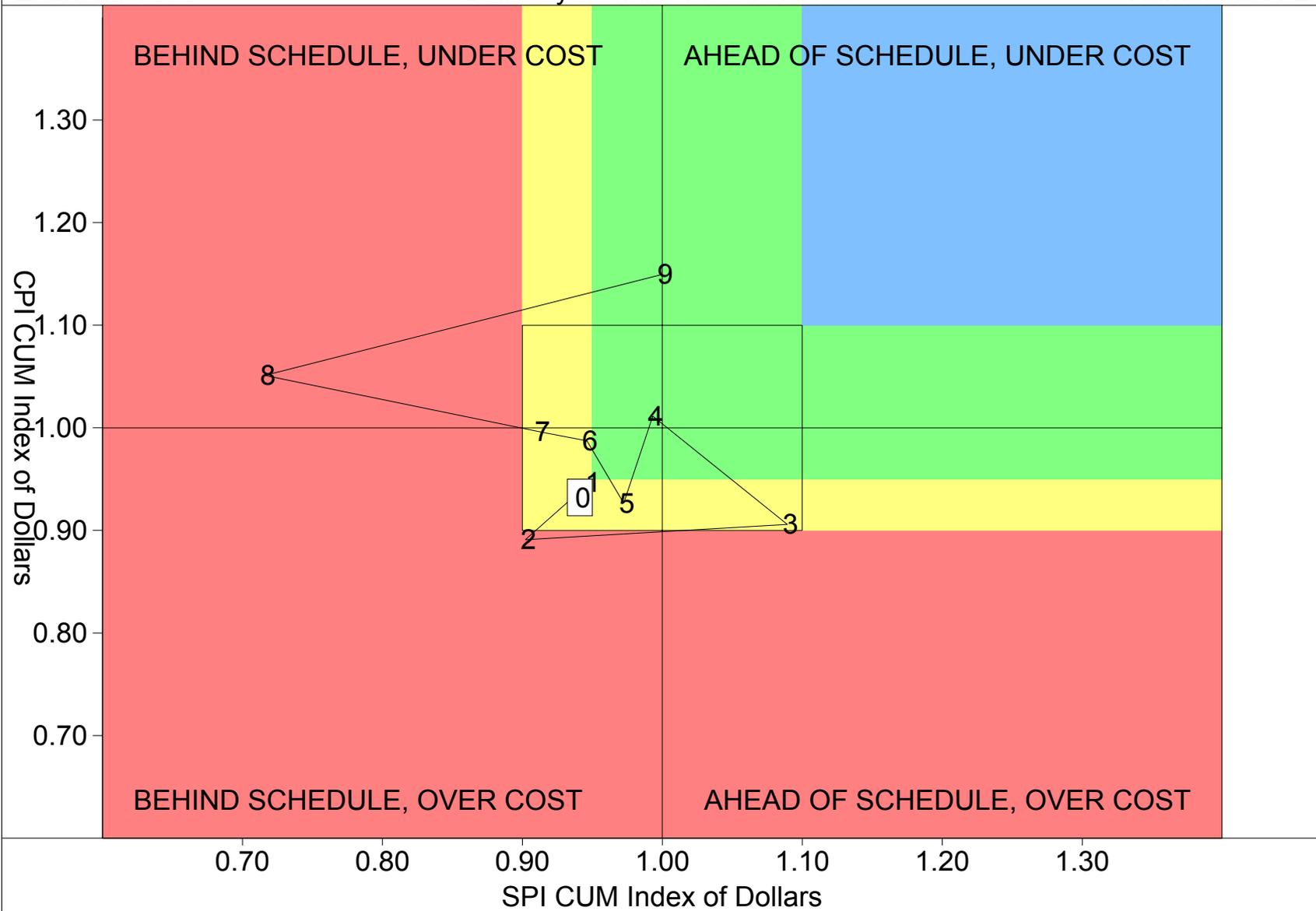
Element: 1000

Adjusted Snake Chart

Name: MOH-2



	FY1992	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
BCWSADJ123	0.345	0.581	0.986	1.415	2.231	2.517	4.194	5.633	7.279	
BCWPADJ123	0.247	0.530	0.933	1.376	2.216	2.742	3.784	5.342	6.851	
ACWPADJ107	0.235	0.532	0.945	1.485	2.191	3.027	4.247	5.643	7.350	

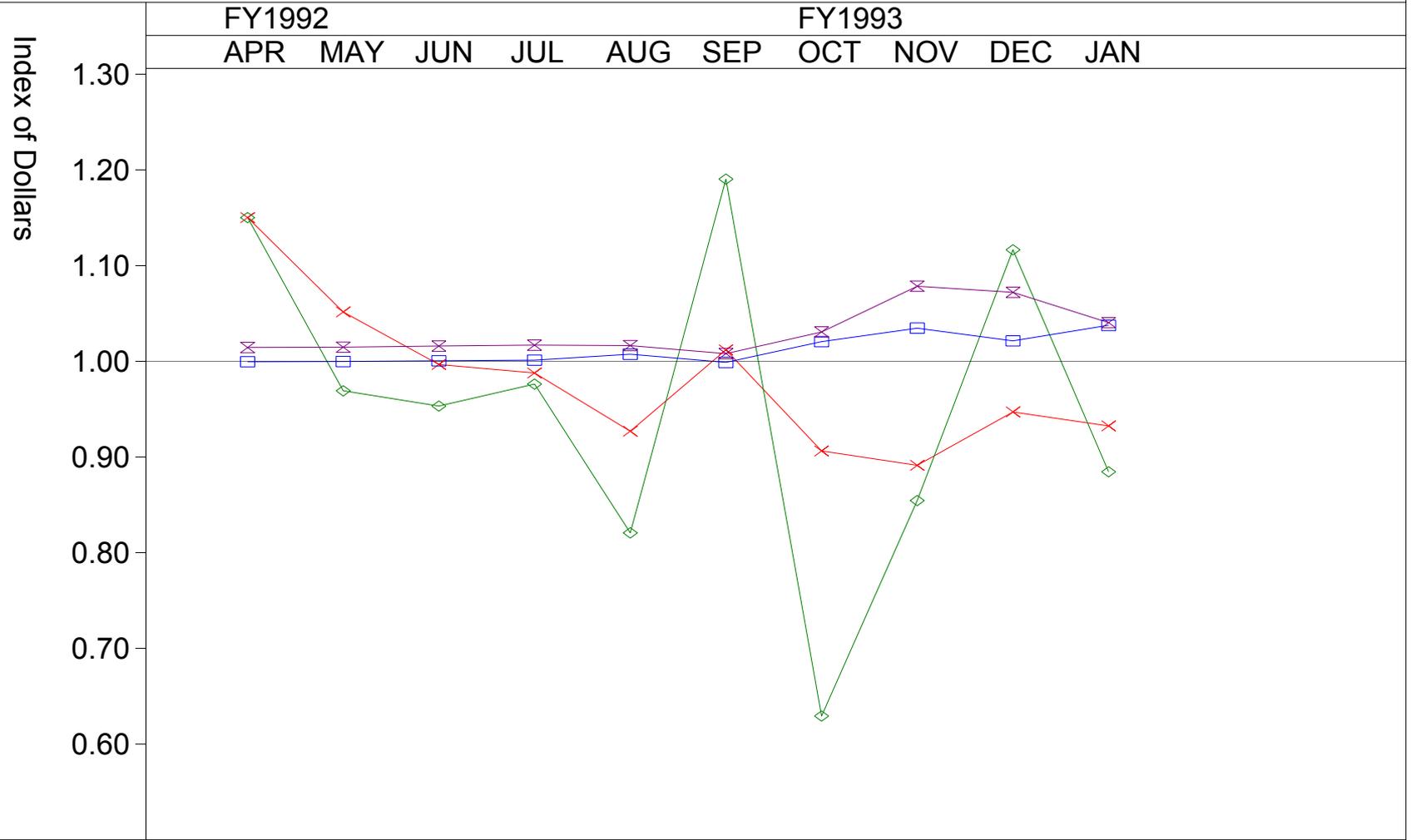


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Cost Performance Index

Name: MOH-2



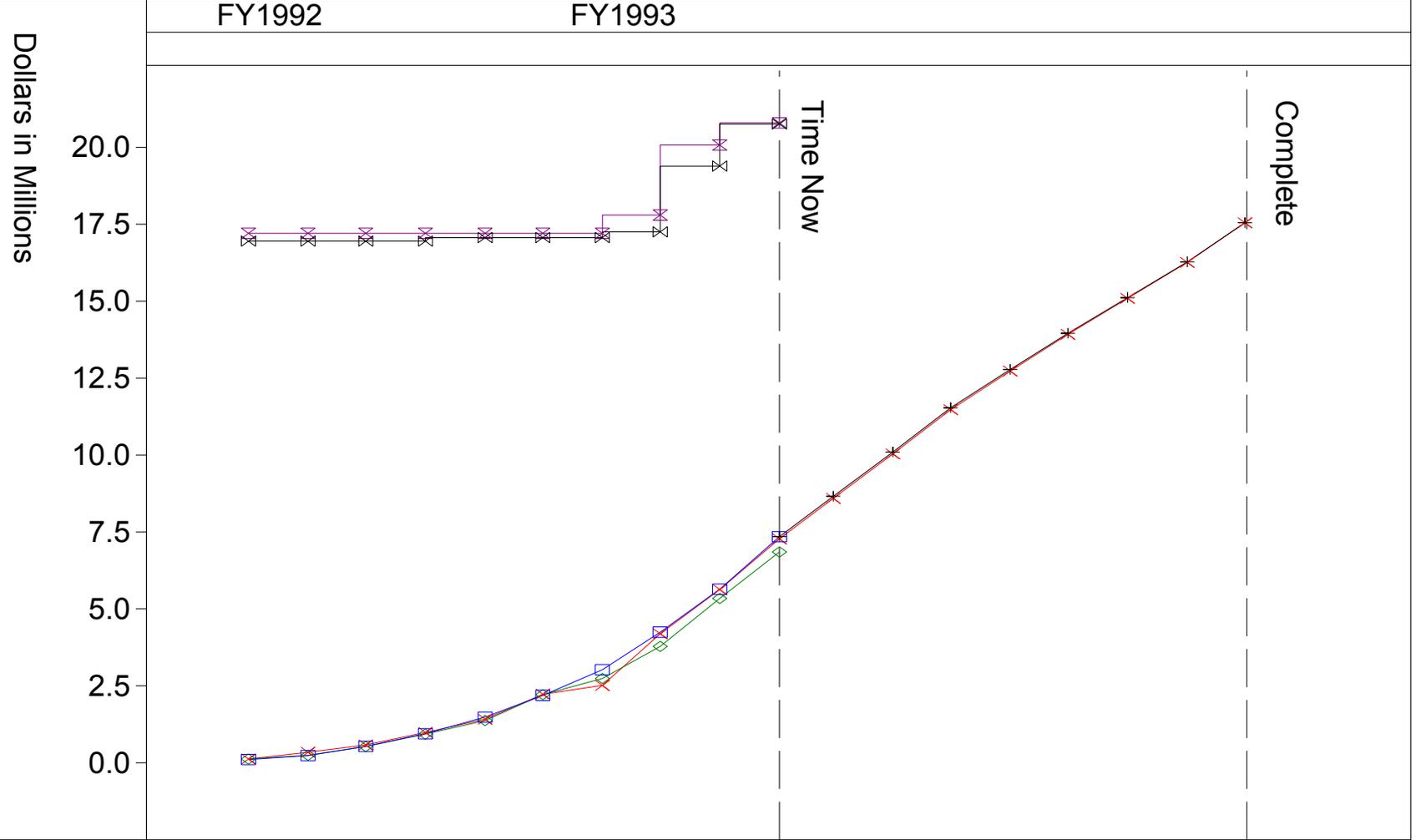
—x—	CUM	1.150	1.051	0.996	0.987	0.927	1.011	0.906	0.891	0.947	0.932
—◇—	CUR	1.150	0.969	0.953	0.976	0.820	1.190	0.629	0.854	1.116	0.884
—□—	TC-BAC	0.999	0.999	1.000	1.001	1.007	0.998	1.020	1.034	1.021	1.037
—x—	TC-LRE	1.014	1.014	1.015	1.016	1.016	1.008	1.030	1.078	1.072	1.040

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Cum Element Performance

Name: MOH-2



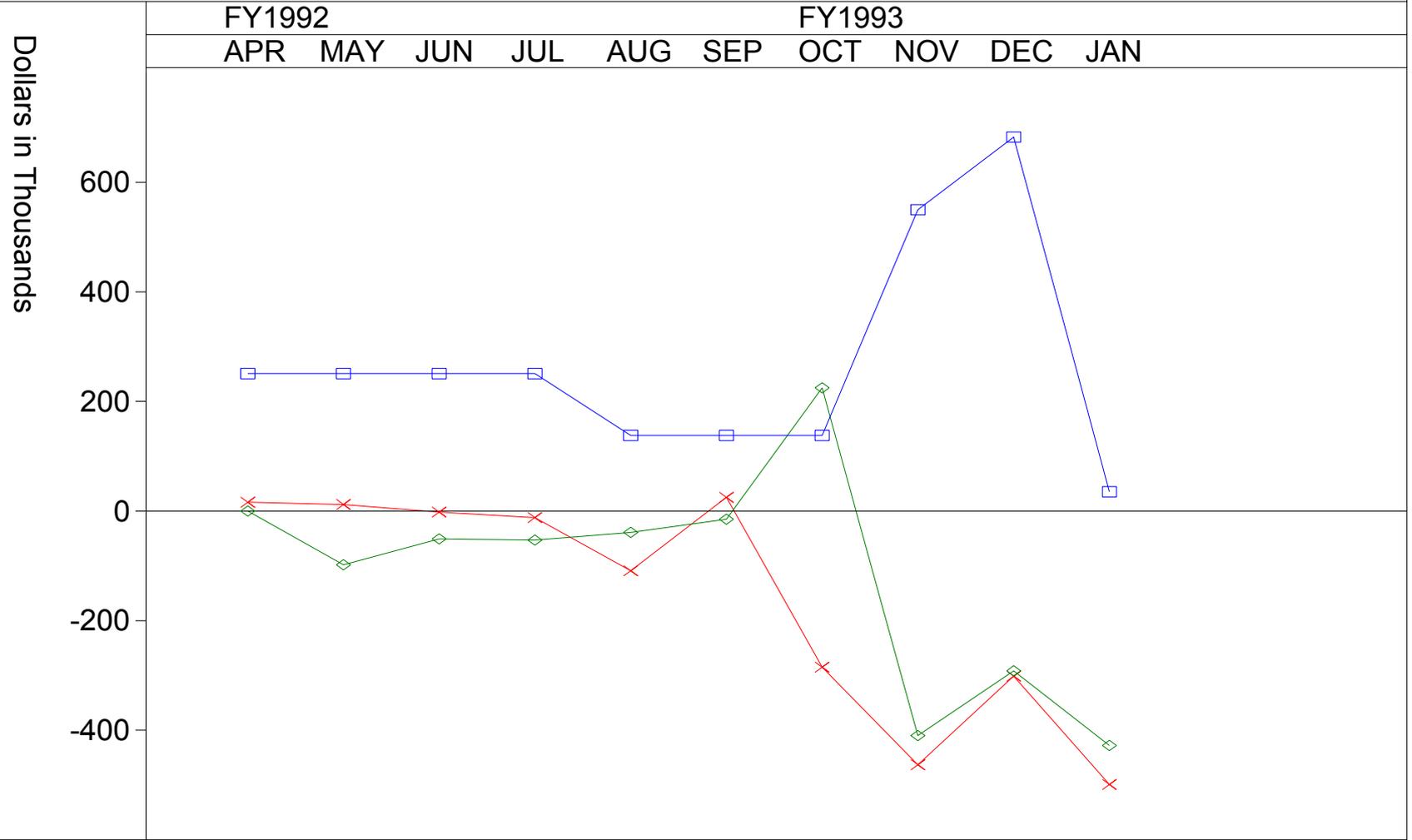
BCWS	— x —	7.28	BAC	— x —	20.80
BCWP	— ◇ —	6.85	LRE	— x —	20.76
ACWP	— □ —	7.35			
ETC	— + —	7.35			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Cumulative Variance

Name: MOH-2



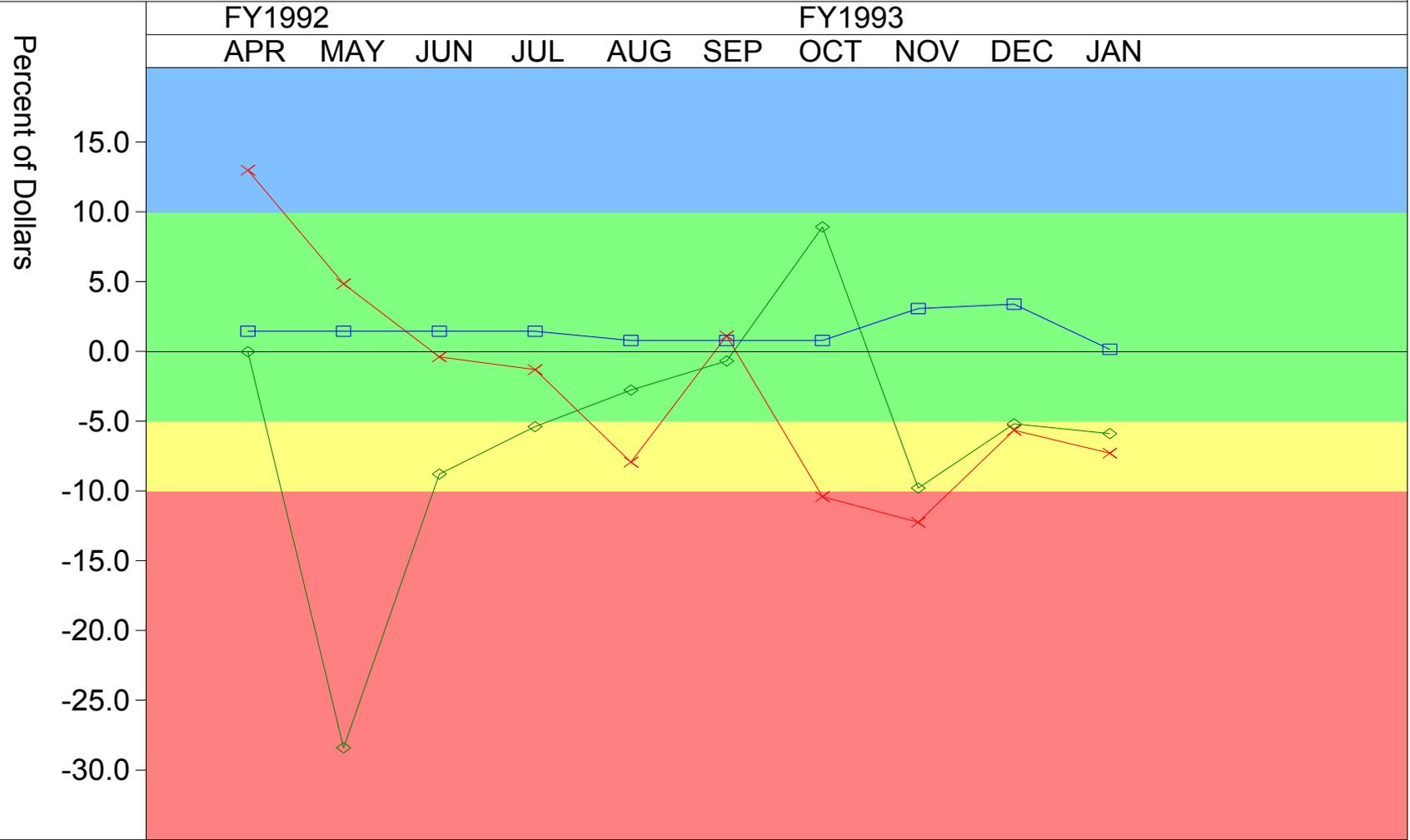
—x—	COST	16.0	12.0	-2.0	-12.0	-109.0	25.0	-285.0	-463.0	-301.2	-499.0
—◇—	SCHED	0.0	-98.0	-51.0	-53.0	-39.0	-15.0	225.0	-410.0	-291.6	-427.8
—□—	VAC	251.0	251.0	251.0	251.0	138.0	138.0	138.0	550.0	682.6	35.2

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Cumulative Variance Percent

Name: MOH-2



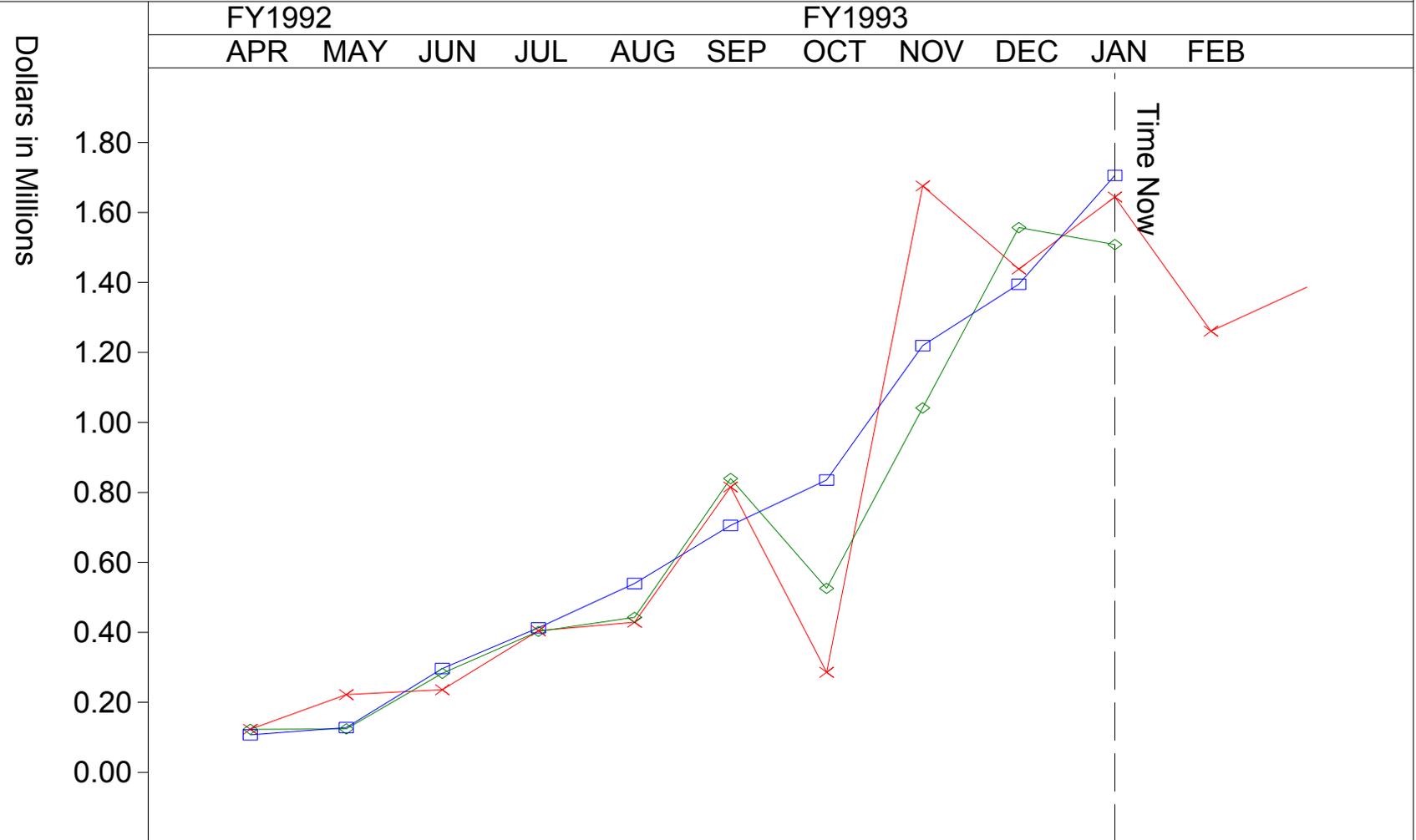
—x—	COST	13.01	4.86	-0.38	-1.29	-7.92	1.13	-10.39	-12.24	-5.64	-7.28
—◇—	SCHED	0.00	-28.41	-8.78	-5.38	-2.76	-0.67	8.94	-9.78	-5.18	-5.88
—□—	VAC	1.46	1.46	1.46	1.46	0.80	0.80	0.80	3.09	3.40	0.17

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Cur Element Performance

Name: MOH-2



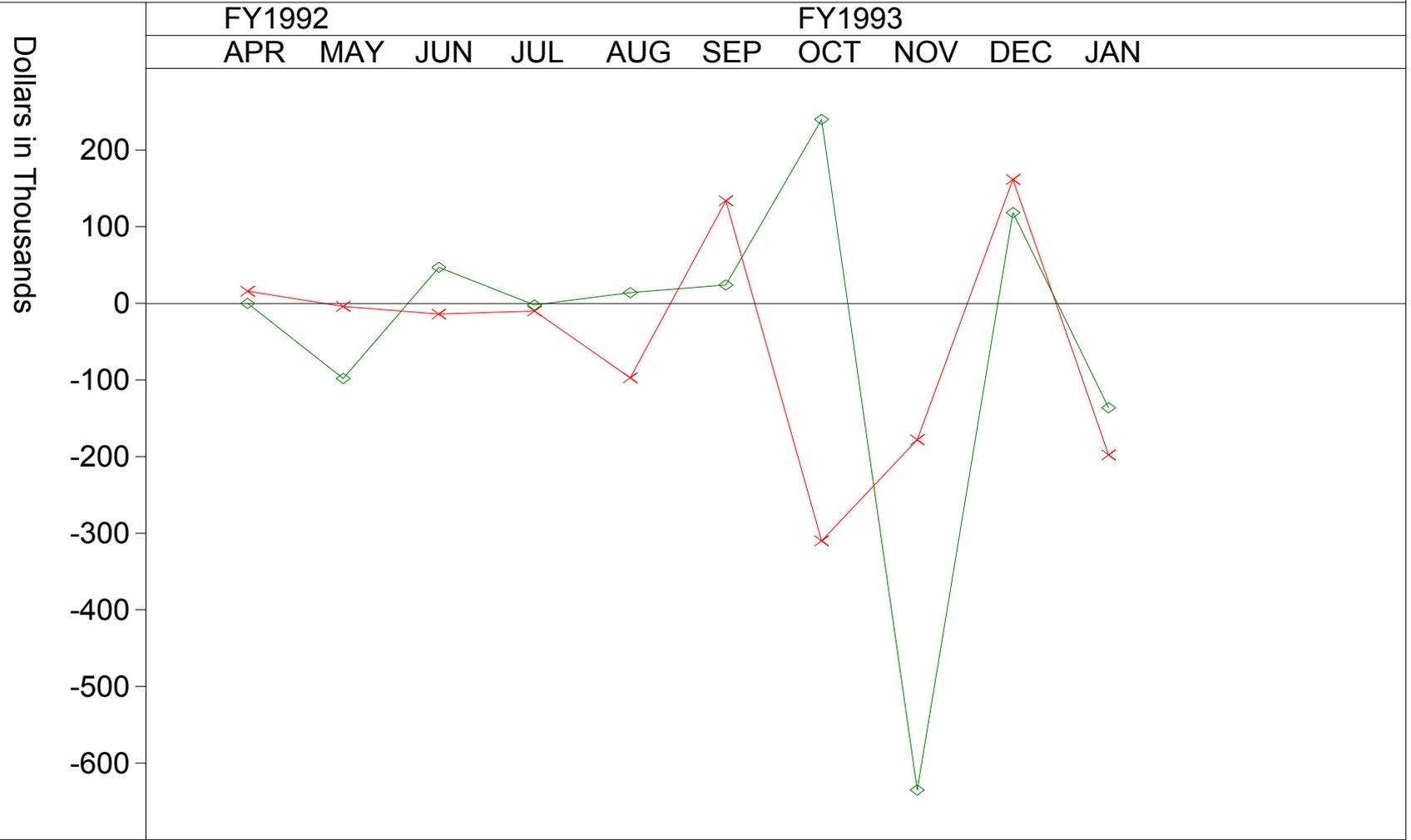
—x—	BCWS	0.123	0.222	0.236	0.405	0.429	0.816	0.286	1.677	1.439	1.645	1.261
—◇—	BCWP	0.123	0.124	0.283	0.403	0.443	0.840	0.526	1.042	1.558	1.509	
—□—	ACWP	0.107	0.128	0.297	0.413	0.540	0.706	0.836	1.220	1.396	1.707	

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Current Variance

Name: MOH-2



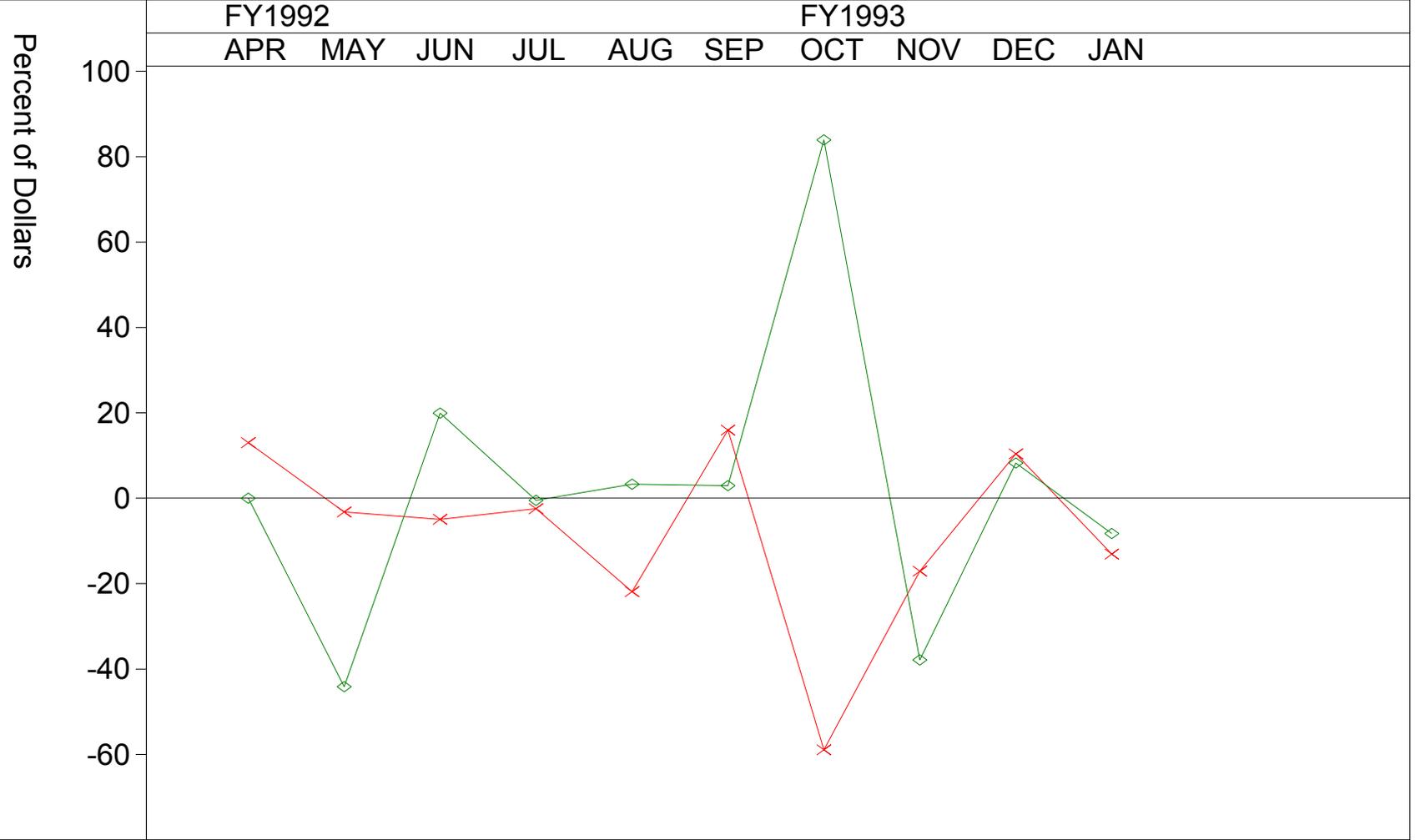
—x—	COST	16.0	-4.0	-14.0	-10.0	-97.0	134.0	-310.0	-178.0	161.8	-197.8
—◇—	SCHED	0.0	-98.0	47.0	-2.0	14.0	24.0	240.0	-635.0	118.4	-136.2

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Current Variance Percent

Name: MOH-2

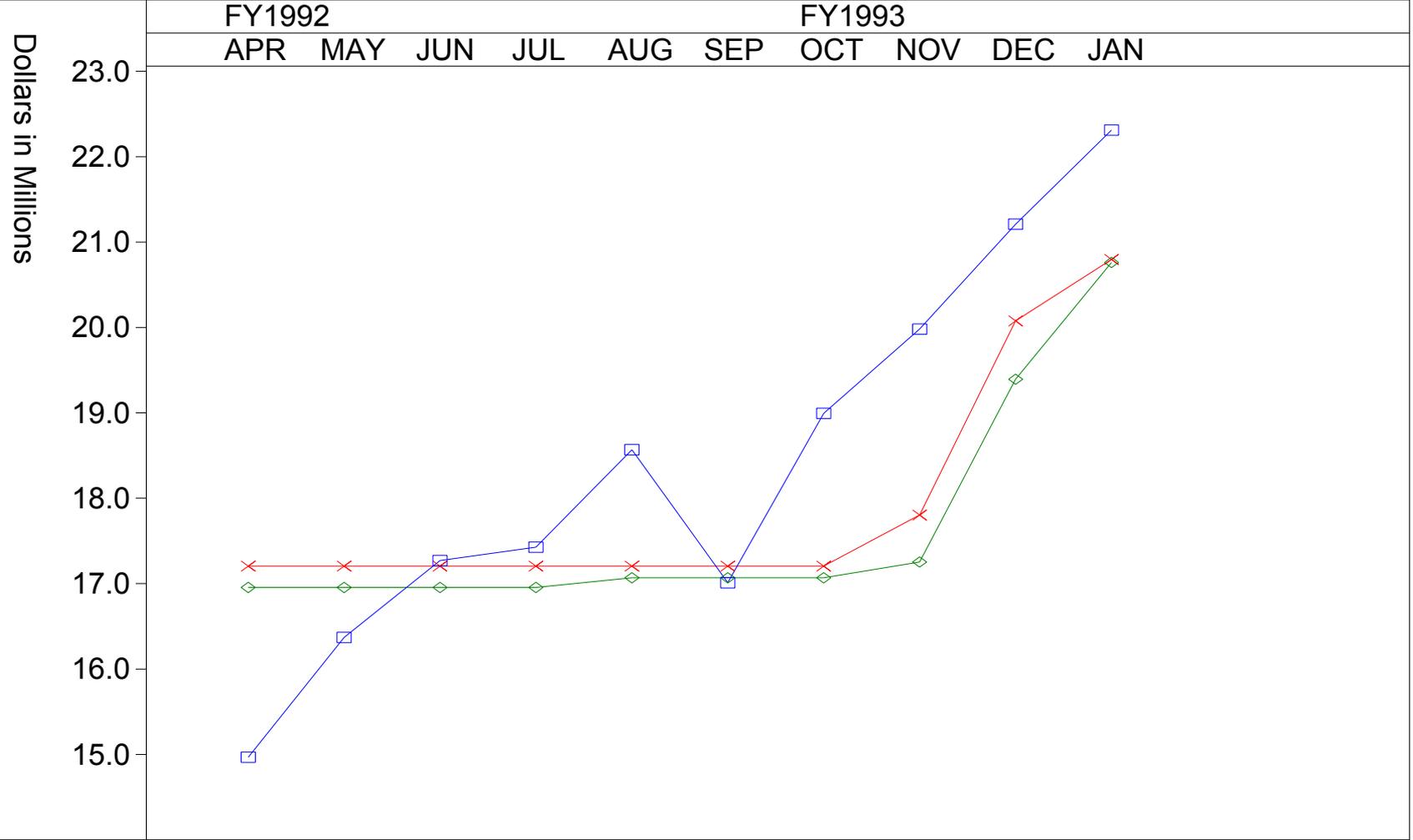


—x—	COST	13.01	-3.23	-4.95	-2.48	-21.90	15.95	-58.94	-17.08	10.39	-13.11
—◇—	SCHED	0.00	-44.14	19.92	-0.49	3.26	2.94	83.92	-37.87	8.23	-8.28

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR
 Estimates at Completion

Element: 1000

Name: MOH-2



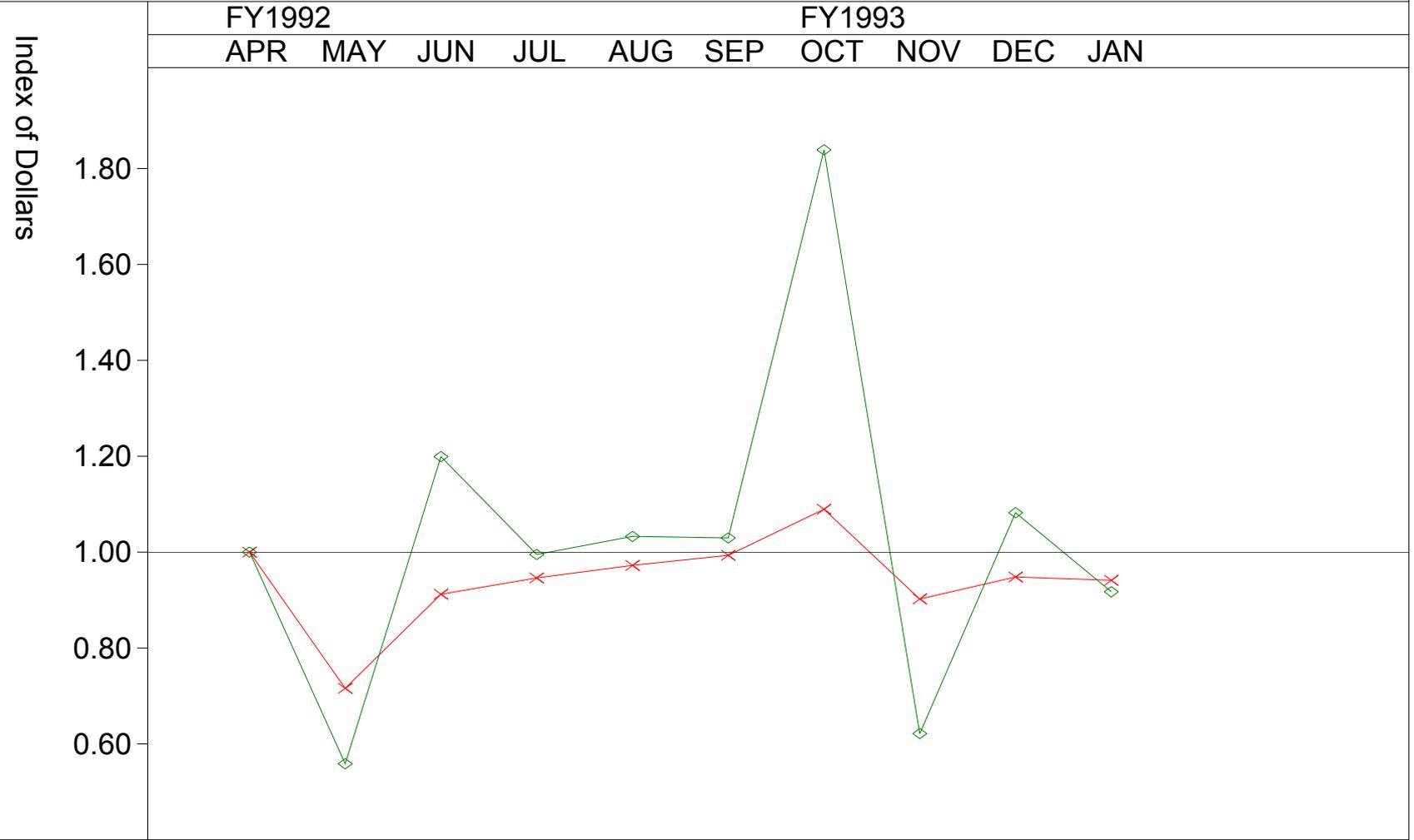
—x—	BAC	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.80	20.08	20.80
—◇—	LRE	16.95	16.95	16.95	16.95	17.07	17.07	17.07	17.25	19.39	20.76
—□—	CUM CPI	14.97	16.37	17.27	17.43	18.57	17.01	18.99	19.98	21.21	22.31

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Schedule Performance Index

Name: MOH-2



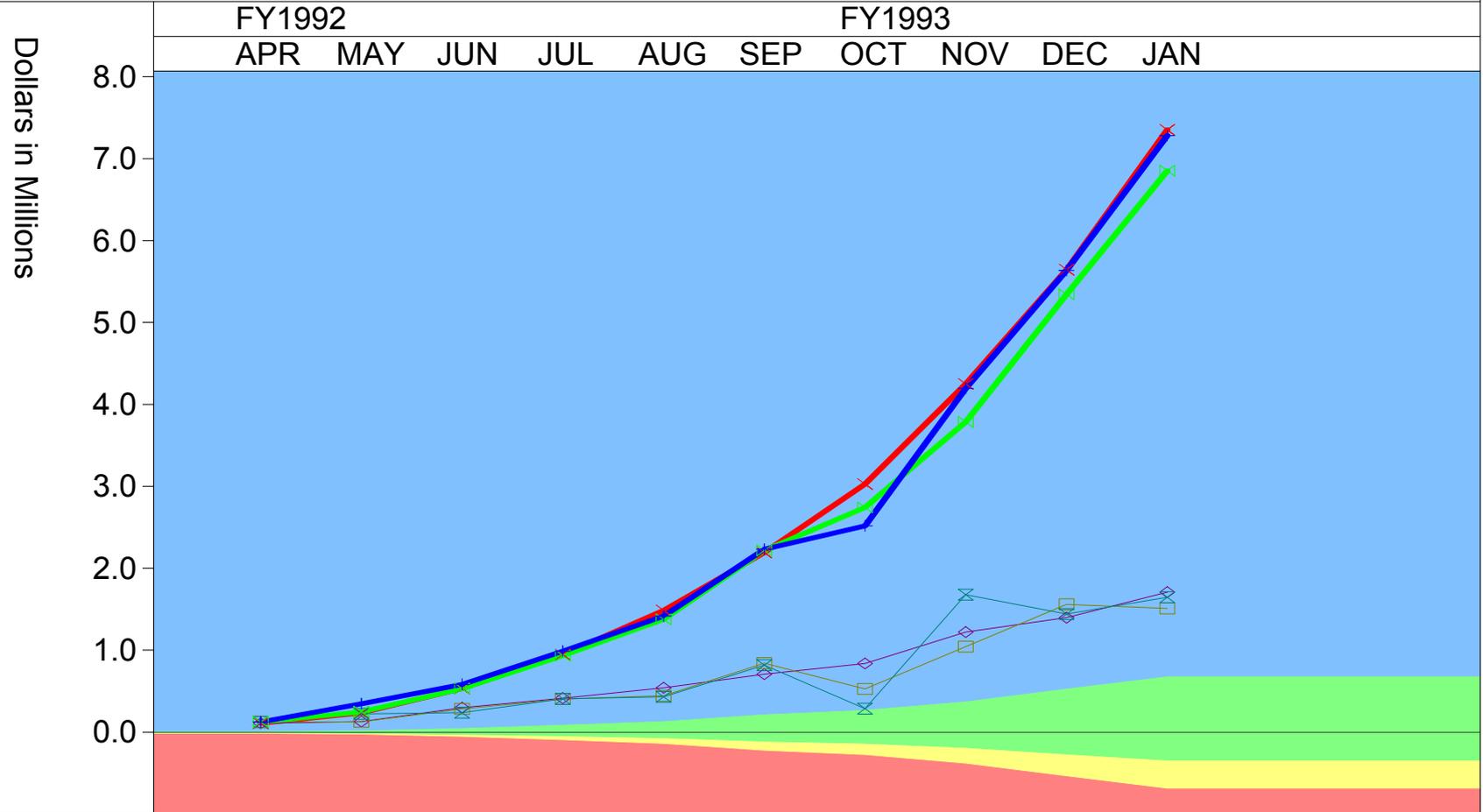
—x—	CUM	1.000	0.716	0.912	0.946	0.972	0.993	1.089	0.902	0.948	0.941
—◇—	CUR	1.000	0.559	1.199	0.995	1.033	1.029	1.839	0.621	1.082	0.917

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 1000

Standard Earned Value

Name: MOH-2



ACWPCUM07	0.235	0.532	0.945	1.485	2.191	3.027	4.247	5.643	7.350
ACWPCUR07	0.128	0.297	0.413	0.540	0.706	0.836	1.220	1.396	1.707
BCWPCUR23	0.124	0.283	0.403	0.443	0.840	0.526	1.042	1.558	1.509
BCWSCUR23	0.222	0.236	0.405	0.429	0.816	0.286	1.677	1.439	1.645
BCWPCUM23	0.247	0.530	0.933	1.376	2.216	2.742	3.784	5.342	6.851
BCWSCUM23	0.345	0.581	0.986	1.415	2.231	2.517	4.194	5.633	7.279

Cost Drivers

	Description	LVL	LL	SV	CV	VAC	VAR	SV	CV	VAC
1	PCC	3	√	↓	↑	↔	C	-11.4	-296.2	-187.2
2	COMMUNICATIONS	3	√	↑	↓	↔	scSC	-203.2	-130.8	-87.0
3	GEN & ADMIN	2	√	↓	↓	↔	c	-39.0	-45.2	-36.8
4	SYS ENGINEERING	3	√	↔	↓	↔	cC	6.4	-26.4	0.0
5	I & A	3	√	↓	↓	↔	scS	83.0	-24.2	-24.8

Schedule Drivers

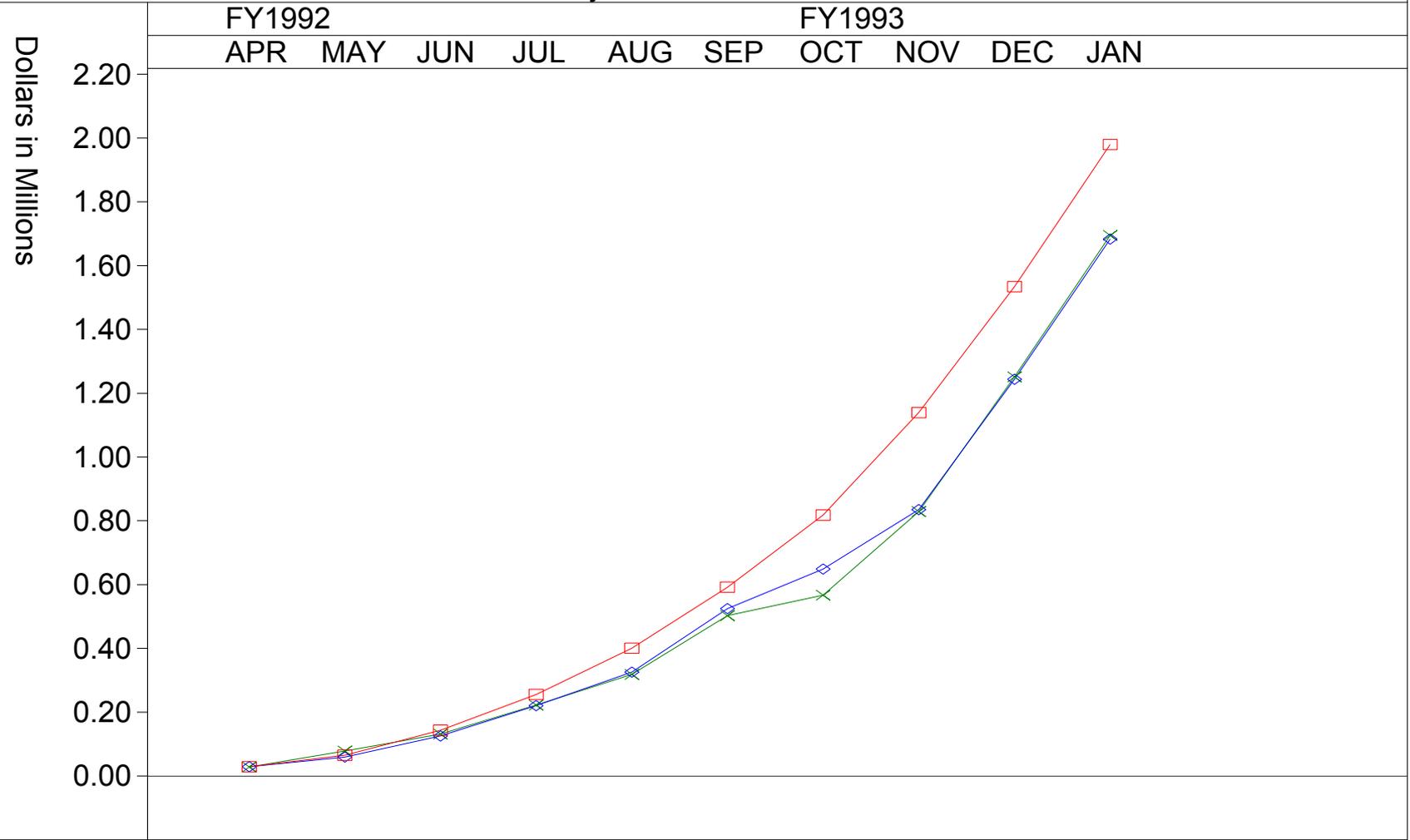
	Description	LVL	LL	SV	CV	VAC	VAR	SV	CV	VAC
1	COMMUNICATIONS	3	√	↑	↓	↔	scSC	-203.2	-130.8	-87.0
2	DATA DISPLAY	3	√	↑	↔	↔	sS	-113.0	0.0	0.0
3	AUX EQUIP	3	√	↓	↓	↓	scSC	-93.2	78.2	8.4
4	GEN & ADMIN	2	√	↓	↓	↔	c	-39.0	-45.2	-36.8
5	SENSORS	3	√	↑	↓	↔		-36.6	-10.6	-21.6

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3600

Adjusted Snake Chart

Name: PCC

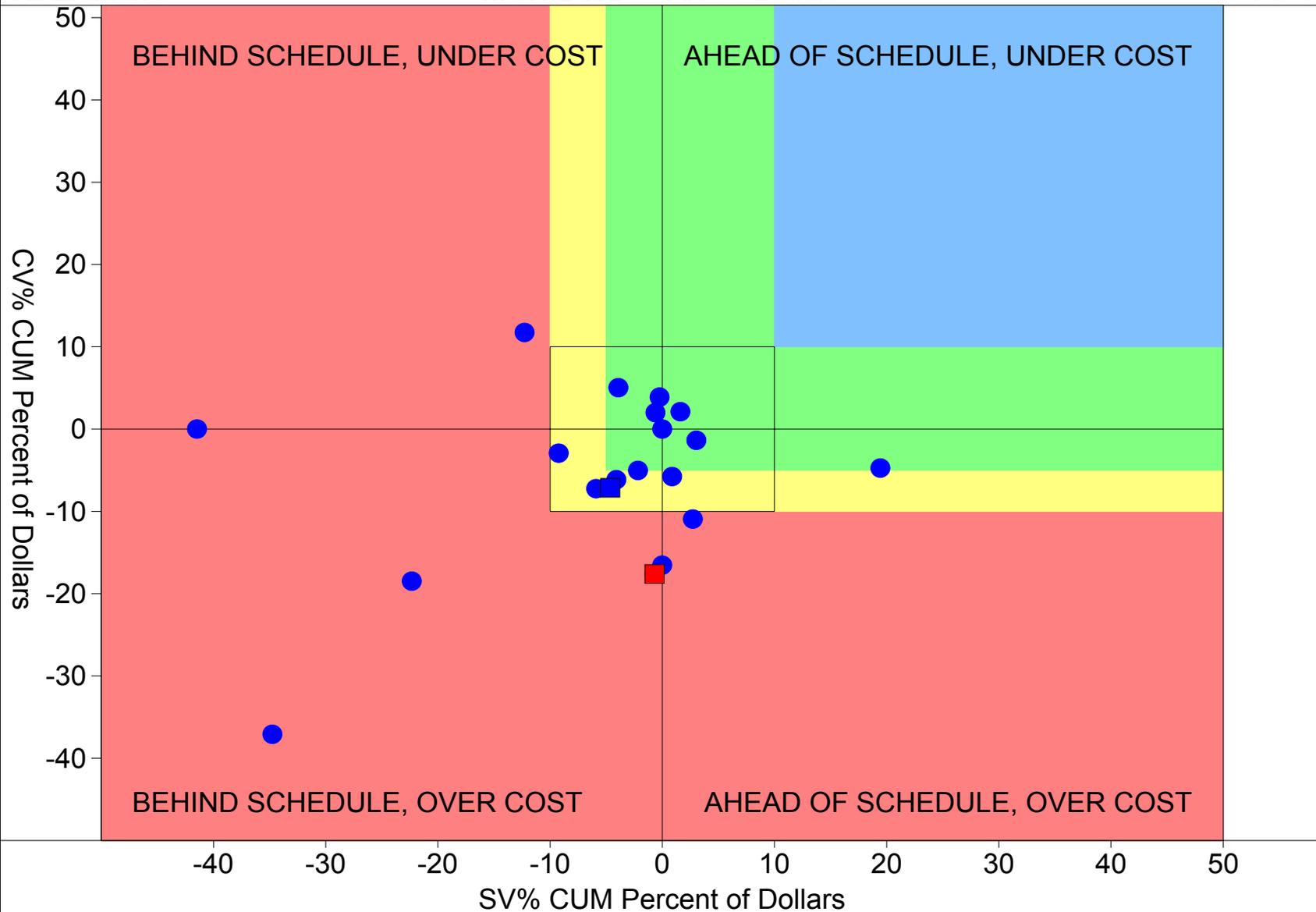


—x—	BCWSADJ028	0.078	0.131	0.222	0.318	0.502	0.566	0.828	1.250	1.693
—◇—	BCWPADJ029	0.059	0.125	0.220	0.325	0.524	0.648	0.834	1.243	1.681
—□—	ACWPADJ029	0.065	0.143	0.255	0.400	0.591	0.817	1.138	1.532	1.978

Filter (Lowest)
All Elements

Aggregate Bull's-eye Chart
MOH-2 WBS JAN 93 Dollars

Highlight (Description)
PCC

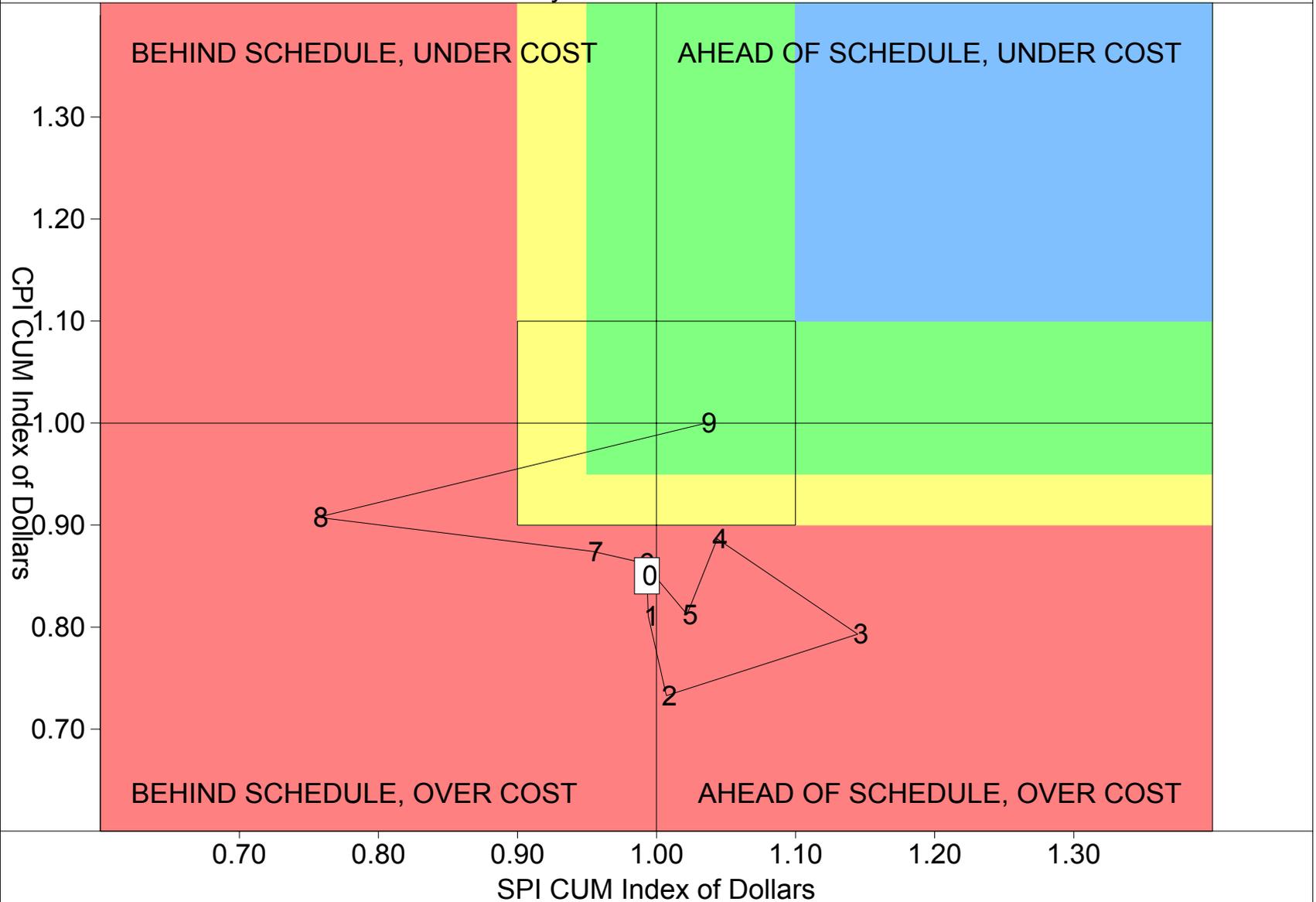


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3600

Bull's-eye Chart - As of: JAN 93

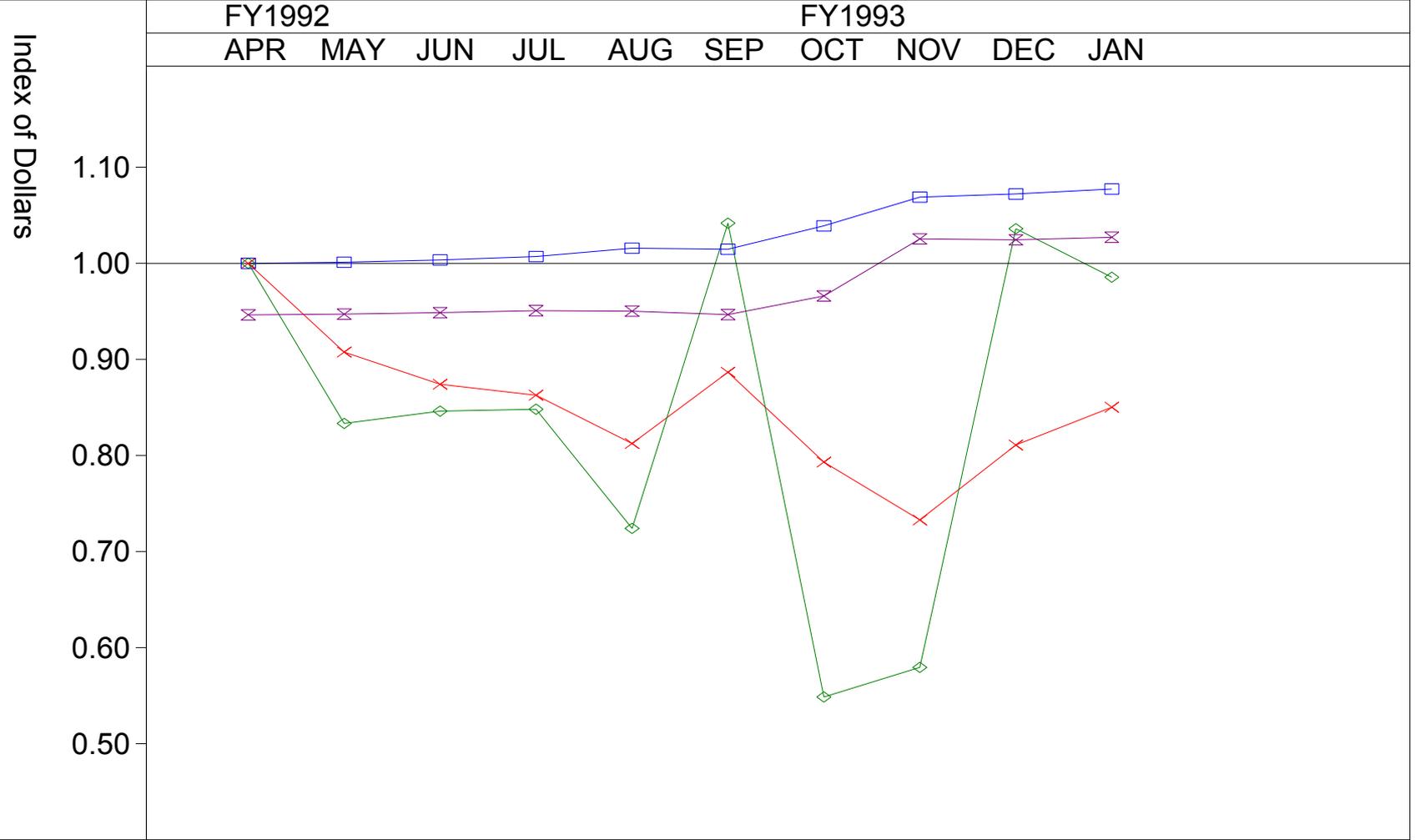
Name: PCC



MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR
Cost Performance Index

Element: 3600

Name: PCC



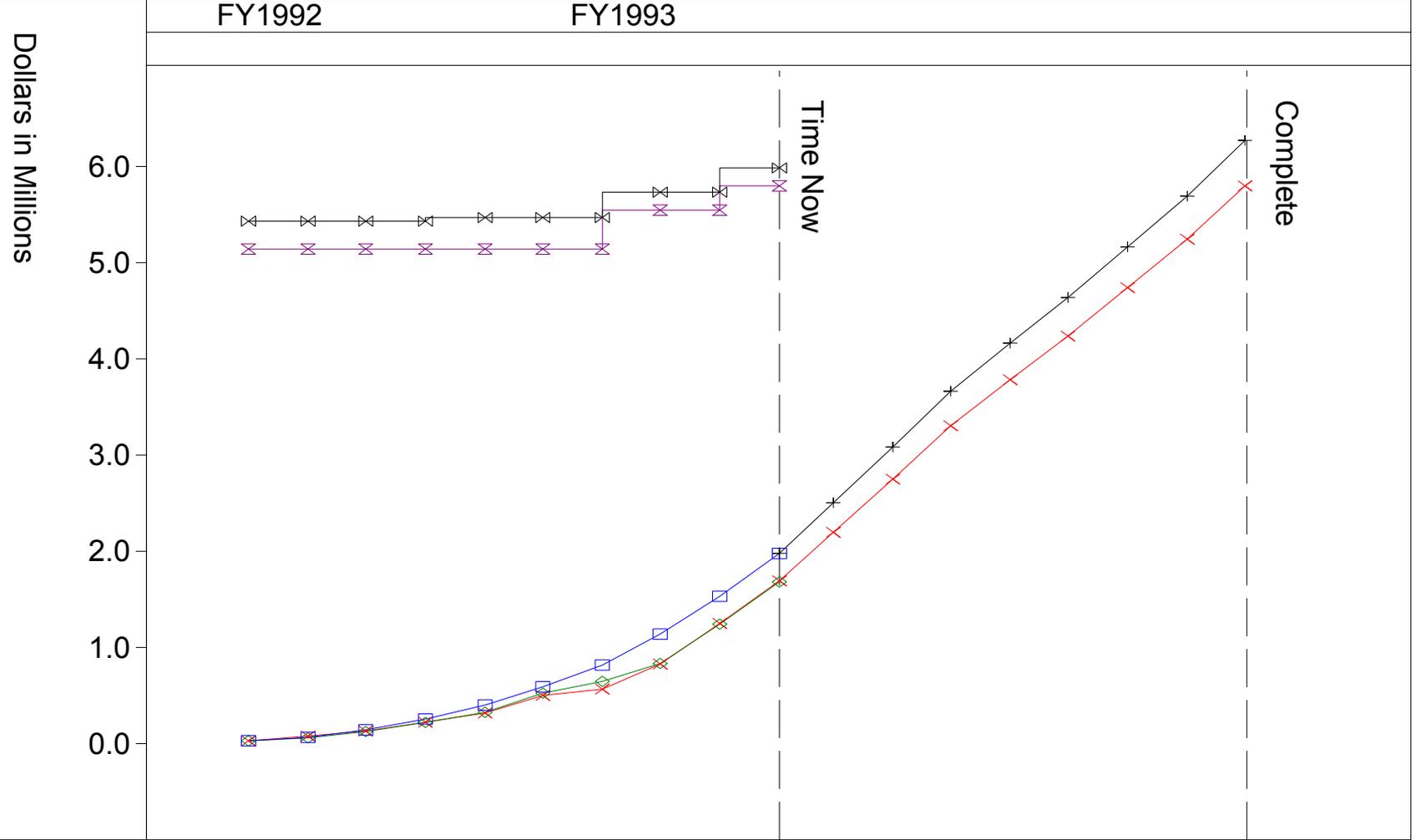
	FY1992	MAY	JUN	JUL	AUG	SEP	FY1993	OCT	NOV	DEC	JAN
—x— CUM	1.000	0.908	0.874	0.863	0.813	0.887	0.793	0.733	0.811	0.850	
—◇— CUR	1.000	0.833	0.846	0.848	0.724	1.042	0.549	0.579	1.036	0.986	
—□— TC-BAC	1.000	1.001	1.004	1.007	1.016	1.015	1.039	1.069	1.072	1.077	
—x— TC-LRE	0.946	0.947	0.949	0.951	0.950	0.947	0.966	1.025	1.024	1.027	

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3600

Cum Element Performance

Name: PCC



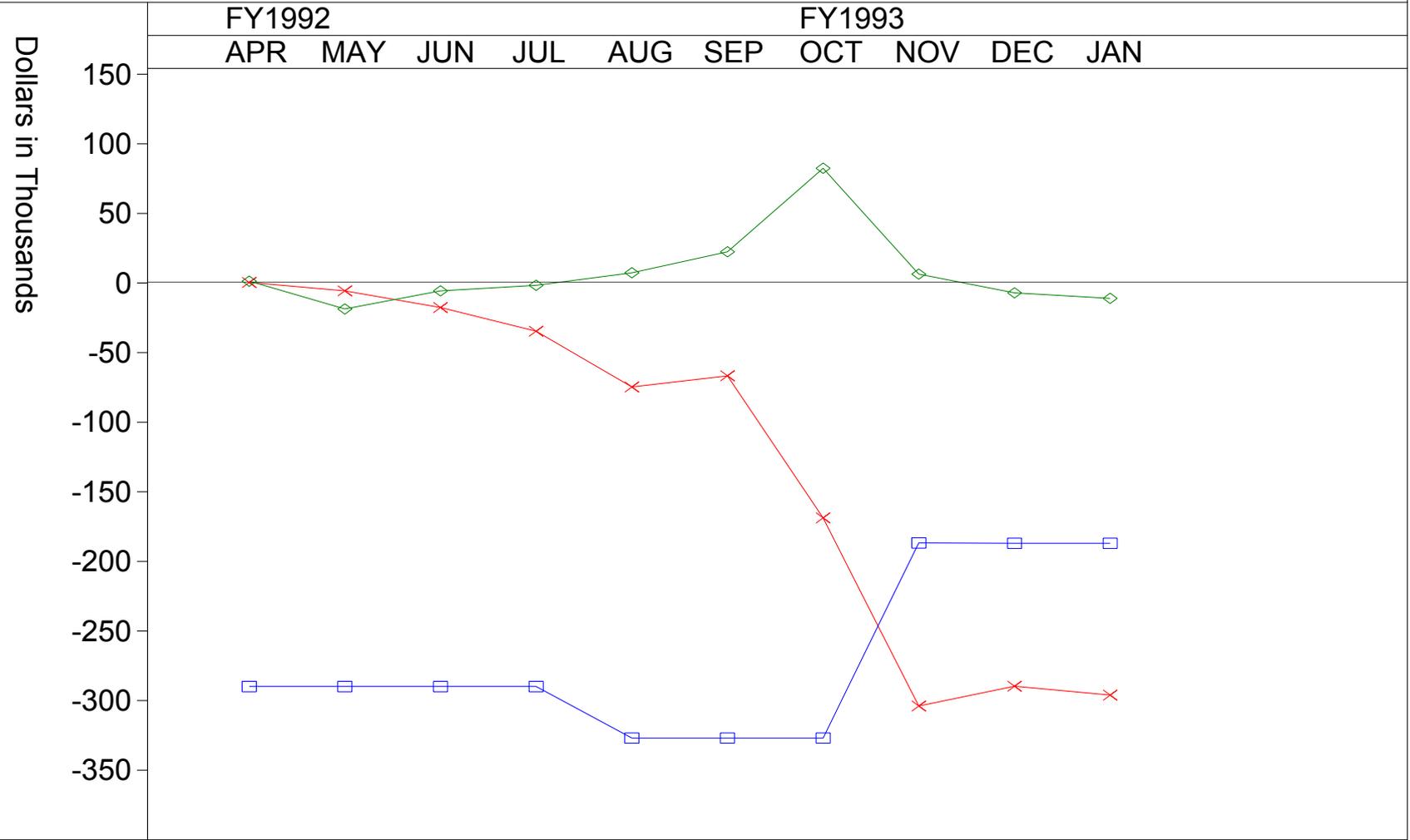
BCWS	— x —	1.693	BAC	— x —	5.801
BCWP	— ◆ —	1.681	LRE	— x —	5.988
ACWP	— □ —	1.978			
ETC	— + —	1.978			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3600

Cumulative Variance

Name: PCC



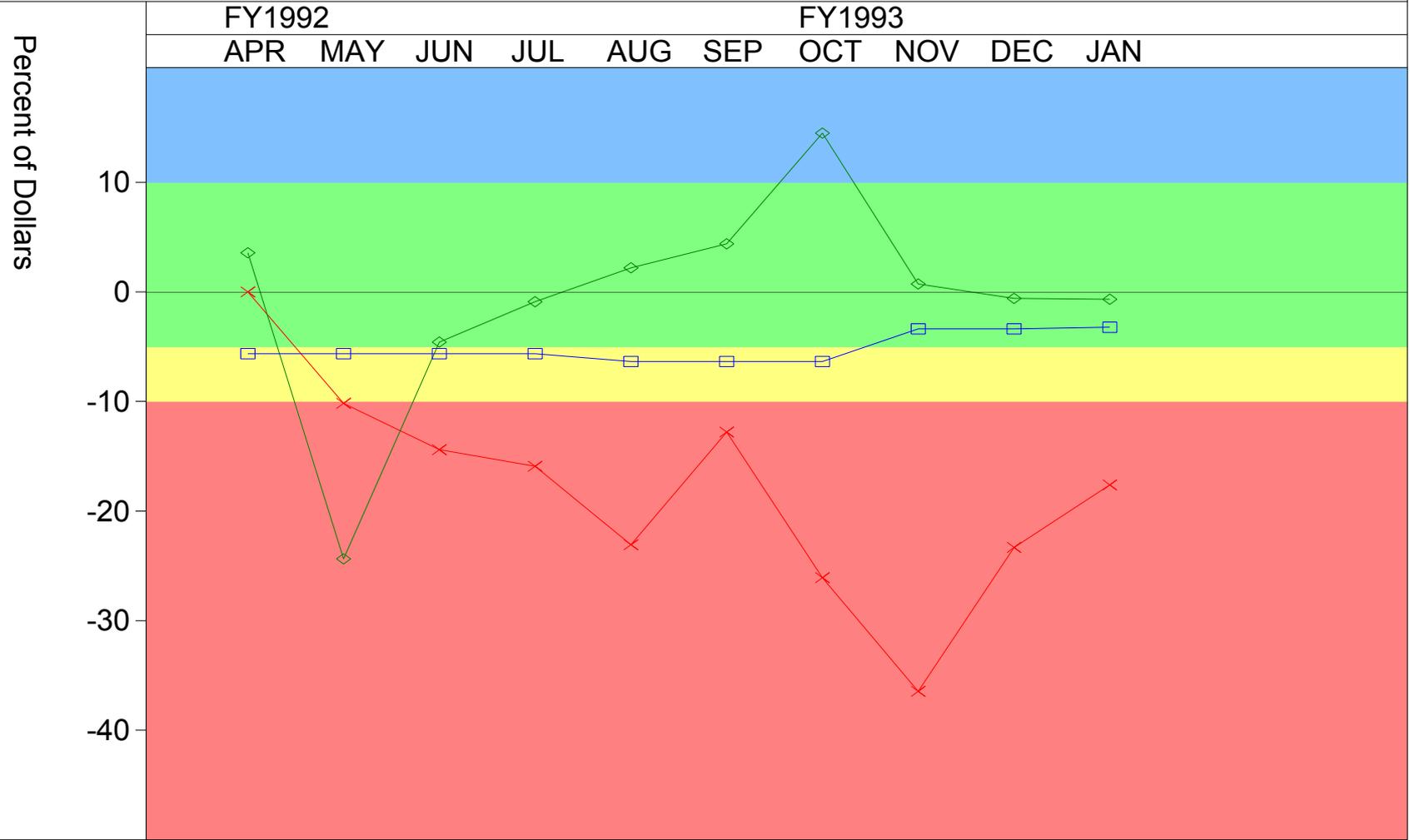
—x—	COST	0.0	-6.0	-18.0	-35.0	-75.0	-67.0	-169.0	-304.0	-289.8	-296.2
—◇—	SCHED	1.0	-19.0	-6.0	-2.0	7.0	22.0	82.0	6.0	-7.4	-11.4
—□—	VAC	-290.0	-290.0	-290.0	-290.0	-327.0	-327.0	-327.0	-187.0	-187.2	-187.2

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3600

Cumulative Variance Percent

Name: PCC



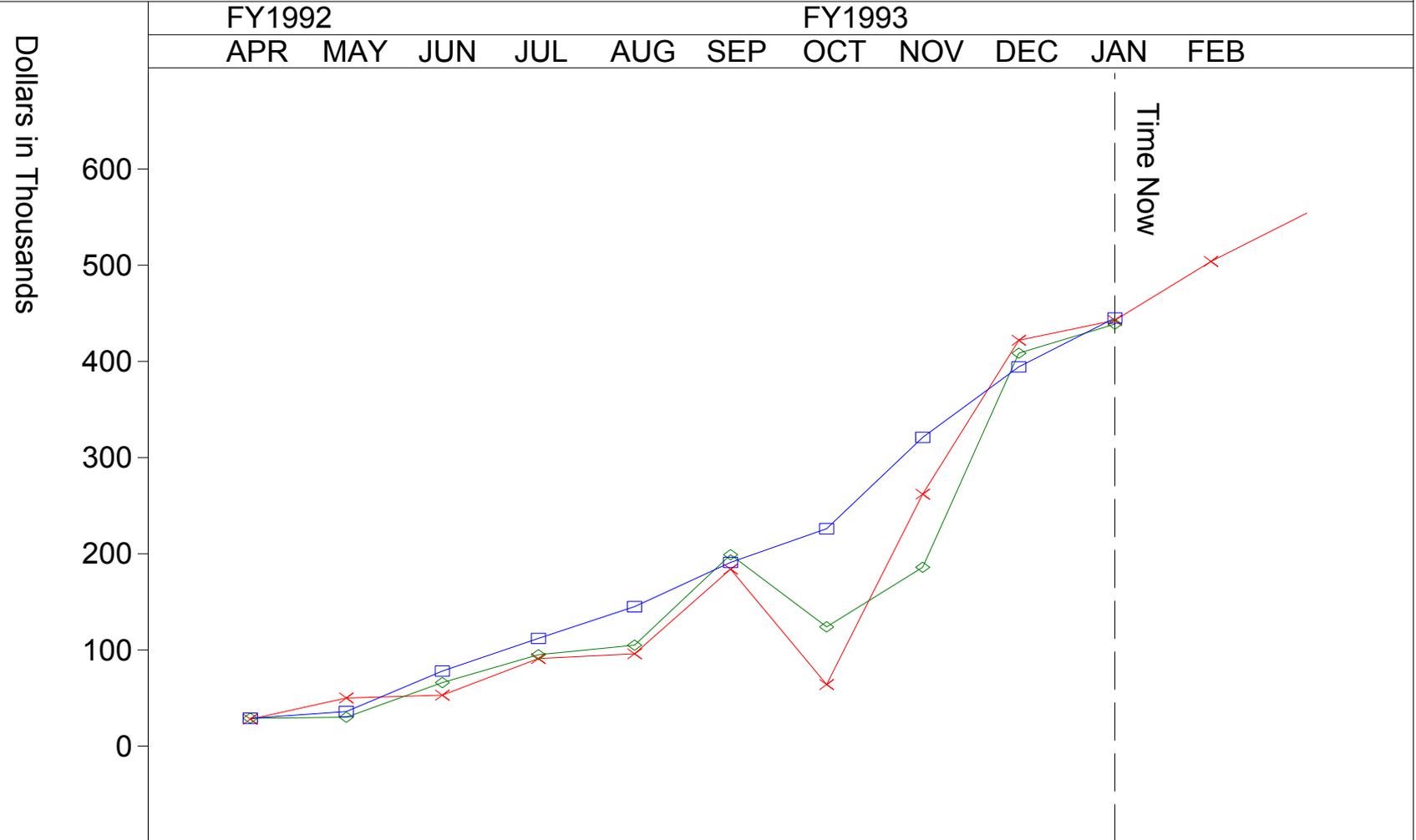
—x—	COST	0.00	-10.17	-14.40	-15.91	-23.08	-12.79	-26.08	-36.45	-23.32	-17.62
—◇—	SCHED	3.57	-24.36	-4.58	-0.90	2.20	4.38	14.49	0.72	-0.59	-0.67
—□—	VAC	-5.64	-5.64	-5.64	-5.64	-6.36	-6.36	-6.36	-3.37	-3.37	-3.23

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3600

Cur Element Performance

Name: PCC



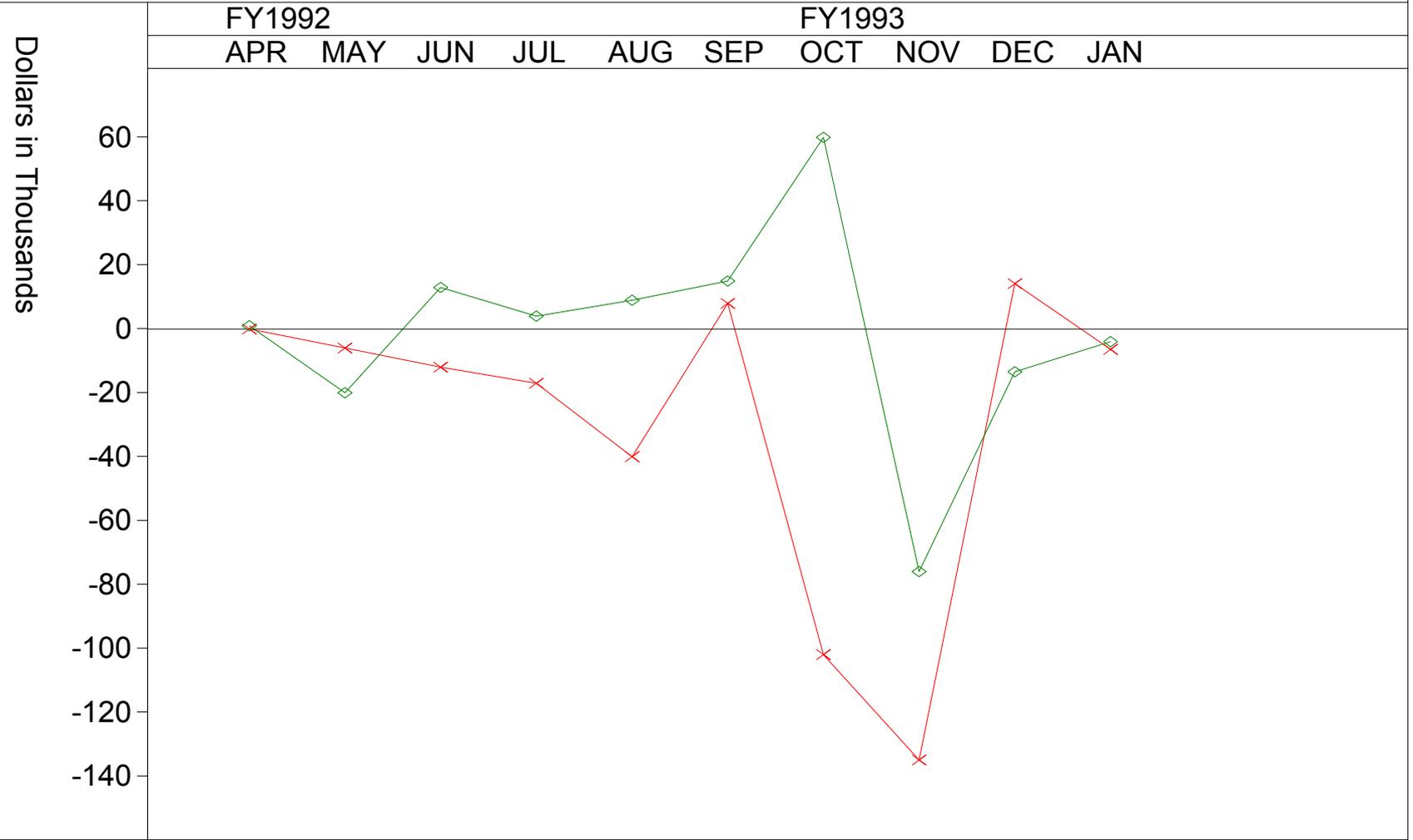
—x—	BCWS	28.0	50.0	53.0	91.0	96.0	184.0	64.0	262.0	422.0	442.8	504.0
—◇—	BCWP	29.0	30.0	66.0	95.0	105.0	199.0	124.0	186.0	408.6	438.8	
—□—	ACWP	29.0	36.0	78.0	112.0	145.0	191.0	226.0	321.0	394.4	445.2	

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3600

Current Variance

Name: PCC



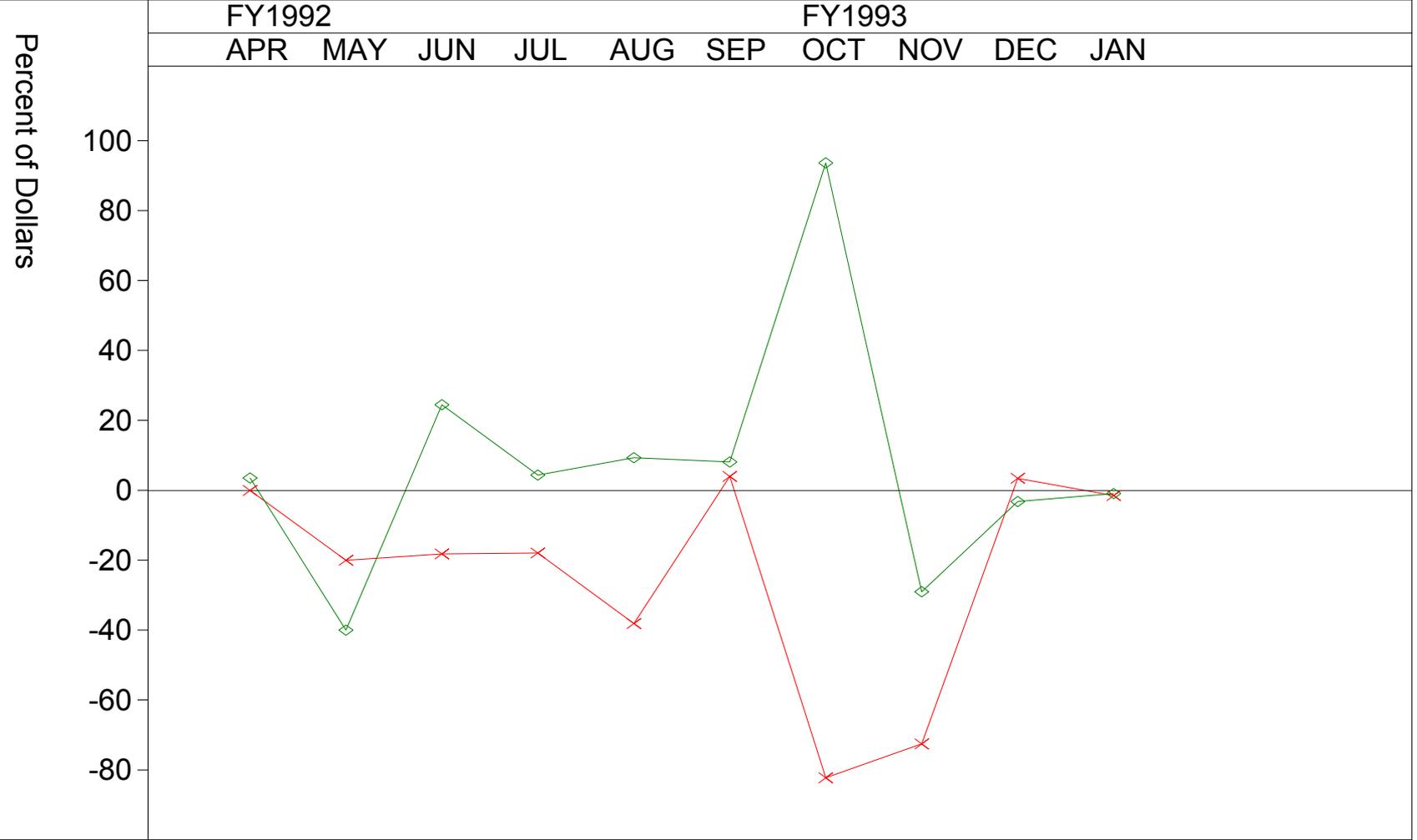
—x—	COST	0.00	-6.00	-12.00	-17.00	-40.00	8.00	102.00	-135.00	14.20	-6.40
—◇—	SCHED	1.00	-20.00	13.00	4.00	9.00	15.00	60.00	-76.00	-13.40	-4.00

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3600

Current Variance Percent

Name: PCC

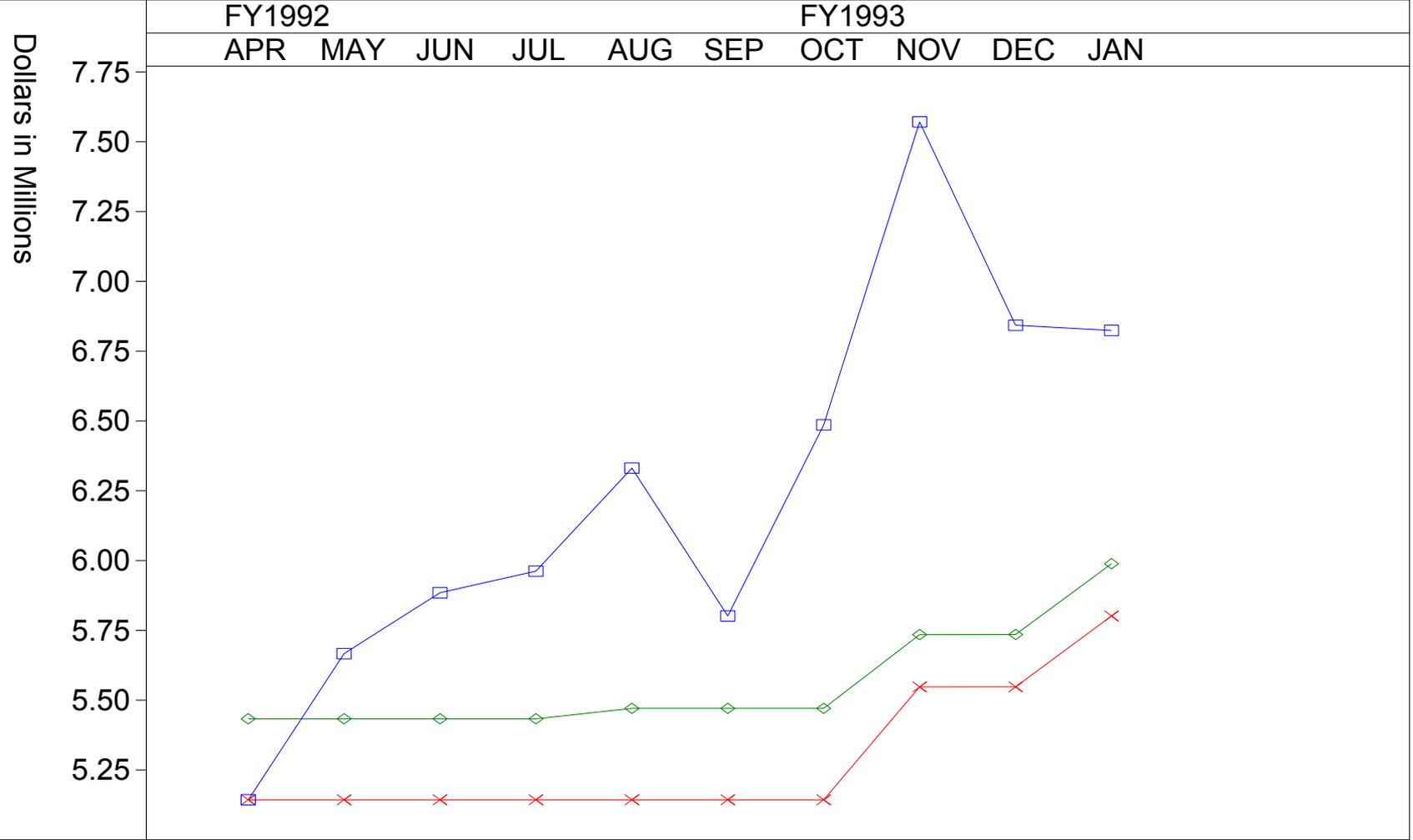


—x—	COST	0.00	-20.00	-18.18	-17.89	-38.10	4.02	-82.26	-72.58	3.48	-1.46
—◇—	SCHED	3.57	-40.00	24.53	4.40	9.38	8.15	93.75	-29.01	-3.18	-0.90

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR
Estimates at Completion

Element: 3600

Name: PCC



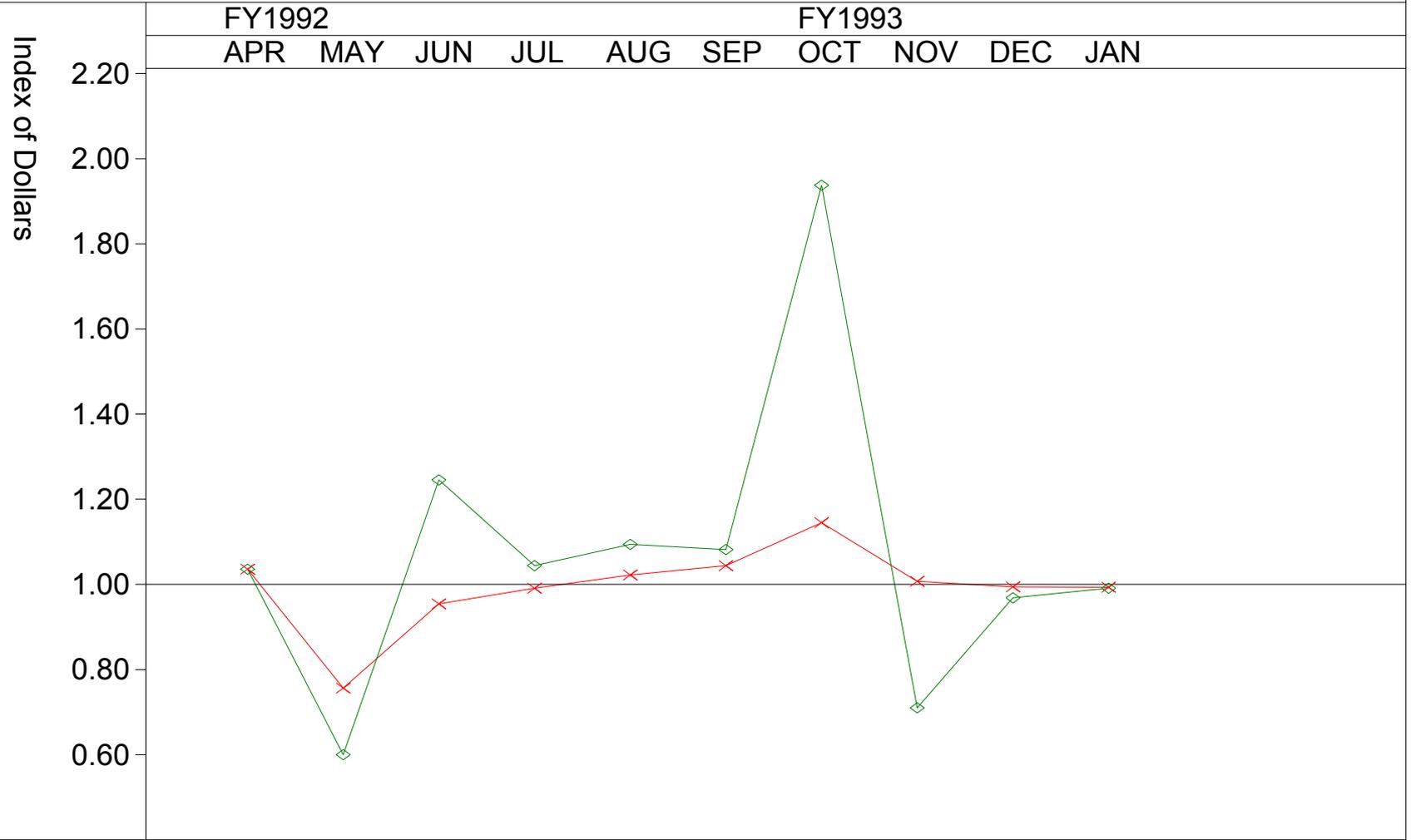
—x—	BAC	5.143	5.143	5.143	5.143	5.143	5.143	5.143	5.547	5.547	5.801
—◇—	LRE	5.433	5.433	5.433	5.433	5.470	5.470	5.470	5.734	5.734	5.988
—□—	CUM CP	5.143	5.666	5.884	5.961	6.330	5.801	6.484	7.569	6.841	6.822

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3600

Schedule Performance Index

Name: PCC



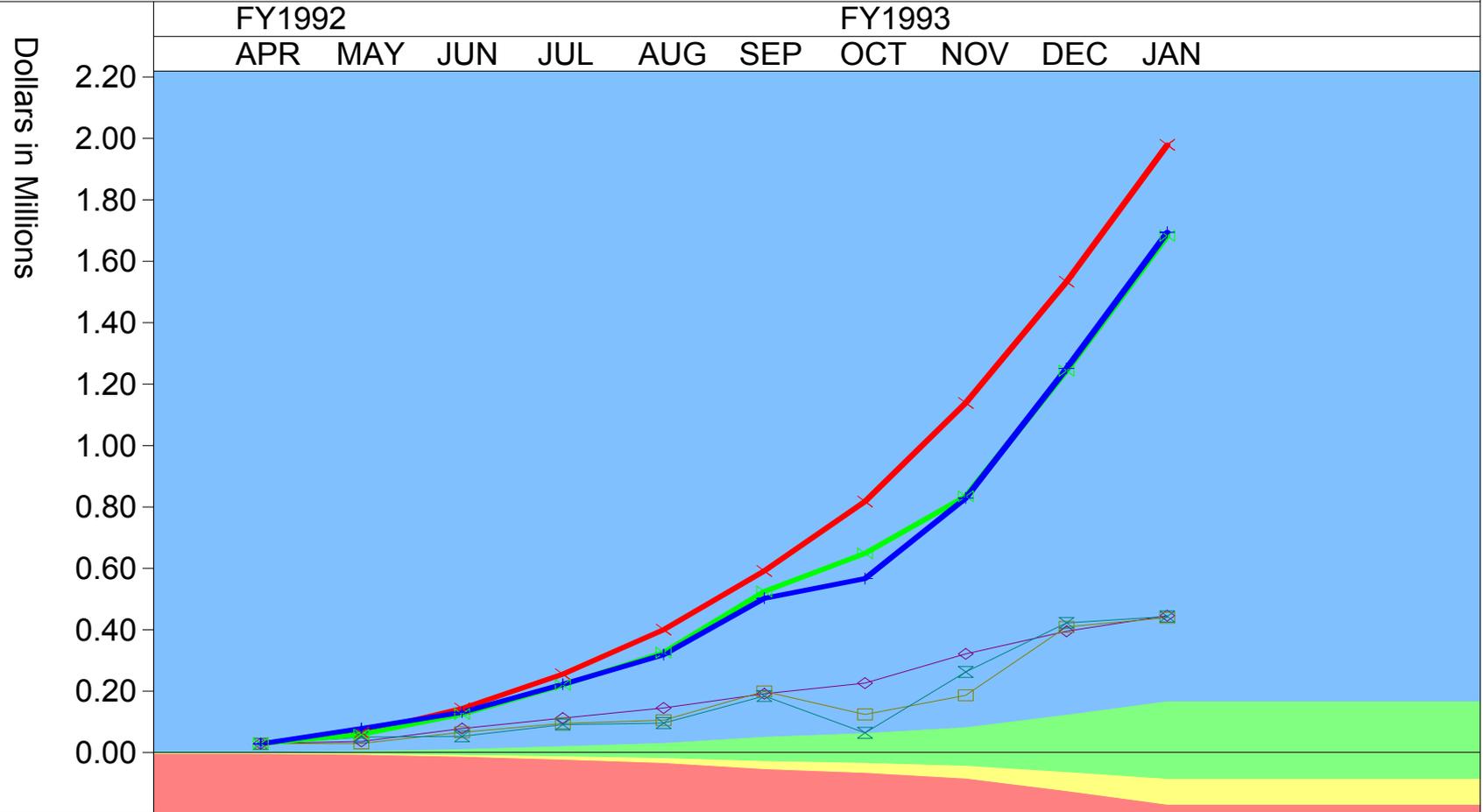
—x— CUM	1.036	0.756	0.954	0.991	1.022	1.044	1.145	1.007	0.994	0.993
—◇— CUR	1.036	0.600	1.245	1.044	1.094	1.082	1.938	0.710	0.968	0.991

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3600

Standard Earned Value

Name: PCC



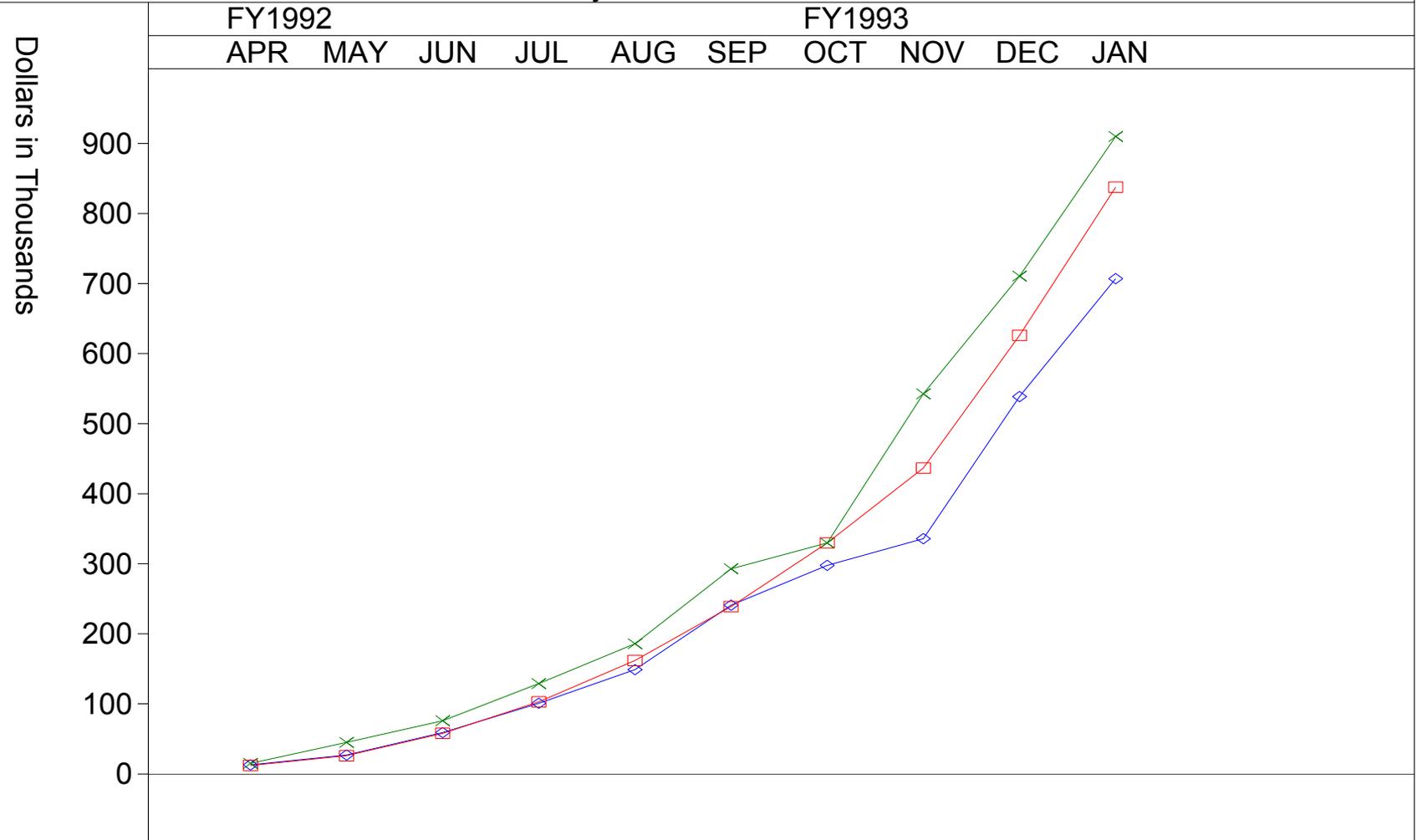
ACWPCUM29	0.065	0.143	0.255	0.400	0.591	0.817	1.138	1.532	1.978
ACWPCUR29	0.036	0.078	0.112	0.145	0.191	0.226	0.321	0.394	0.445
BCWPCUR29	0.030	0.066	0.095	0.105	0.199	0.124	0.186	0.409	0.439
BCWSCUR28	0.050	0.053	0.091	0.096	0.184	0.064	0.262	0.422	0.443
BCWPCUM29	0.059	0.125	0.220	0.325	0.524	0.648	0.834	1.243	1.681
BCWSCUM28	0.078	0.131	0.222	0.318	0.502	0.566	0.828	1.250	1.693

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3200

Adjusted Snake Chart

Name: COMMUNICATIONS

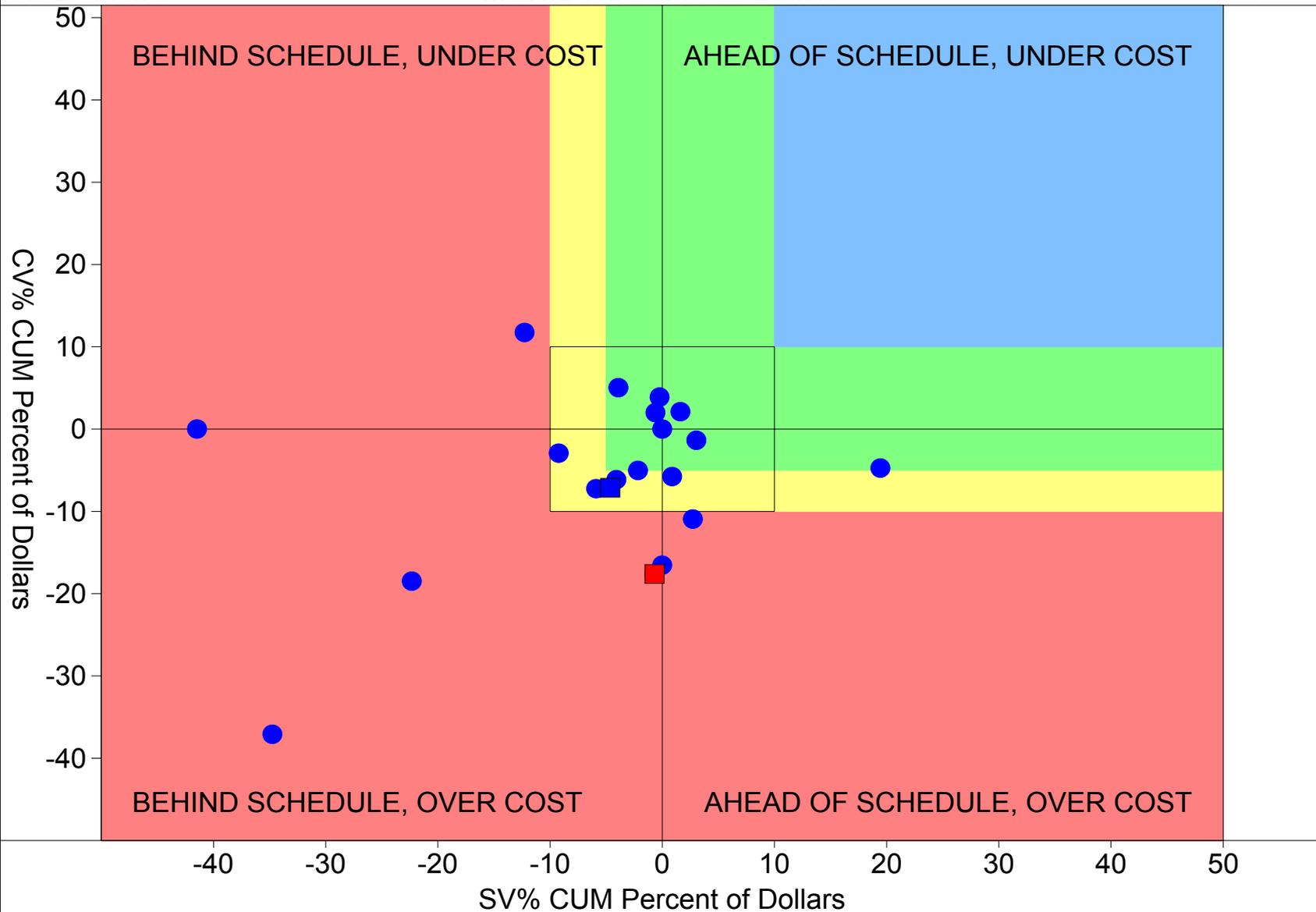


—x—	BCWSADJ	15	45	76	129	186	293	330	543	711	911
—◇—	BCWPADJ	13	27	59	101	149	241	298	336	539	707
—□—	ACWPADJ	12	26	58	103	162	239	330	437	626	838

Filter (Lowest)
All Elements

Aggregate Bull's-eye Chart
MOH-2 WBS JAN 93 Dollars

Highlight (Description)
PCC

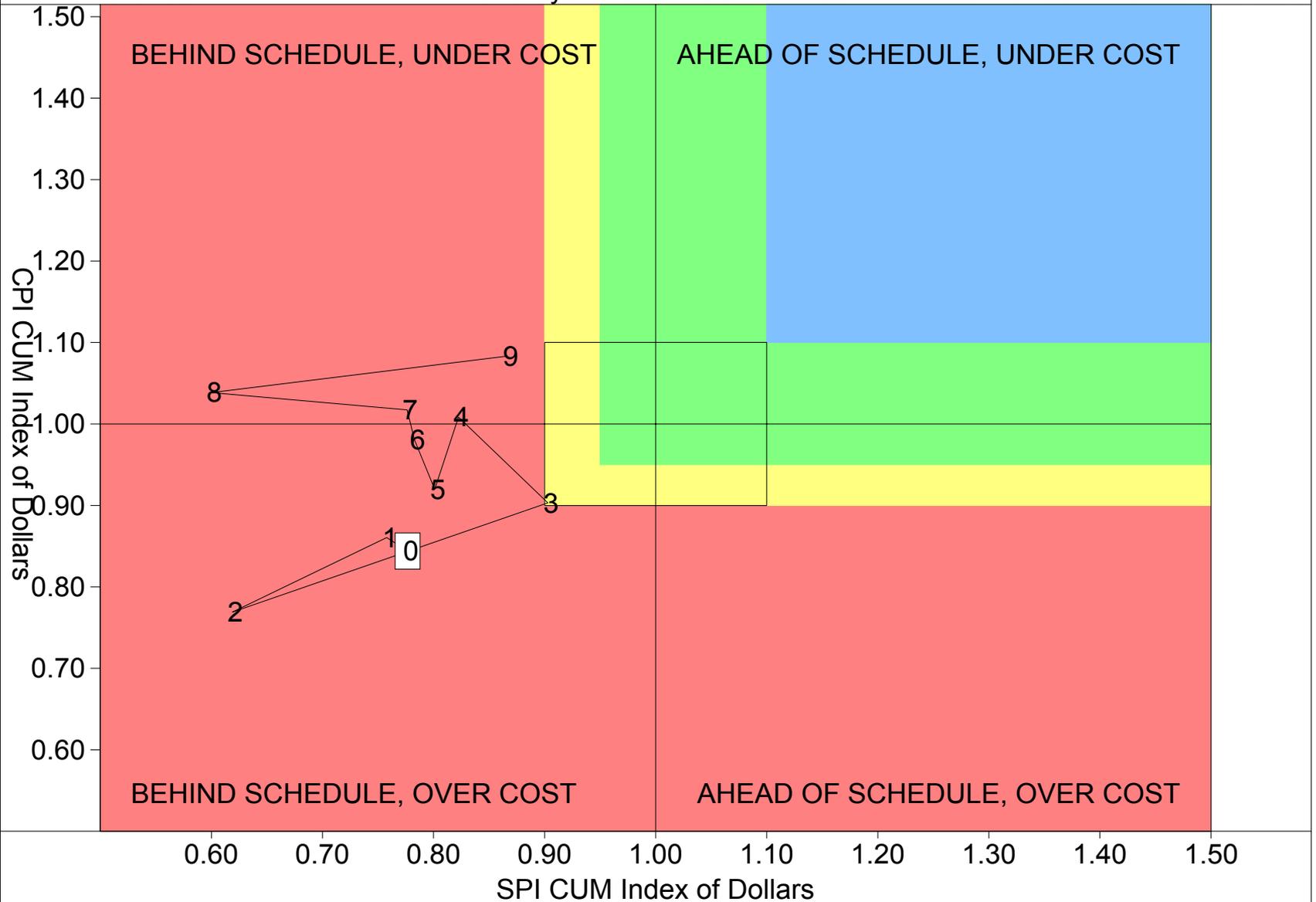


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3200

Bull's-eye Chart - As of: JAN 93

Name: COMMUNICATIONS

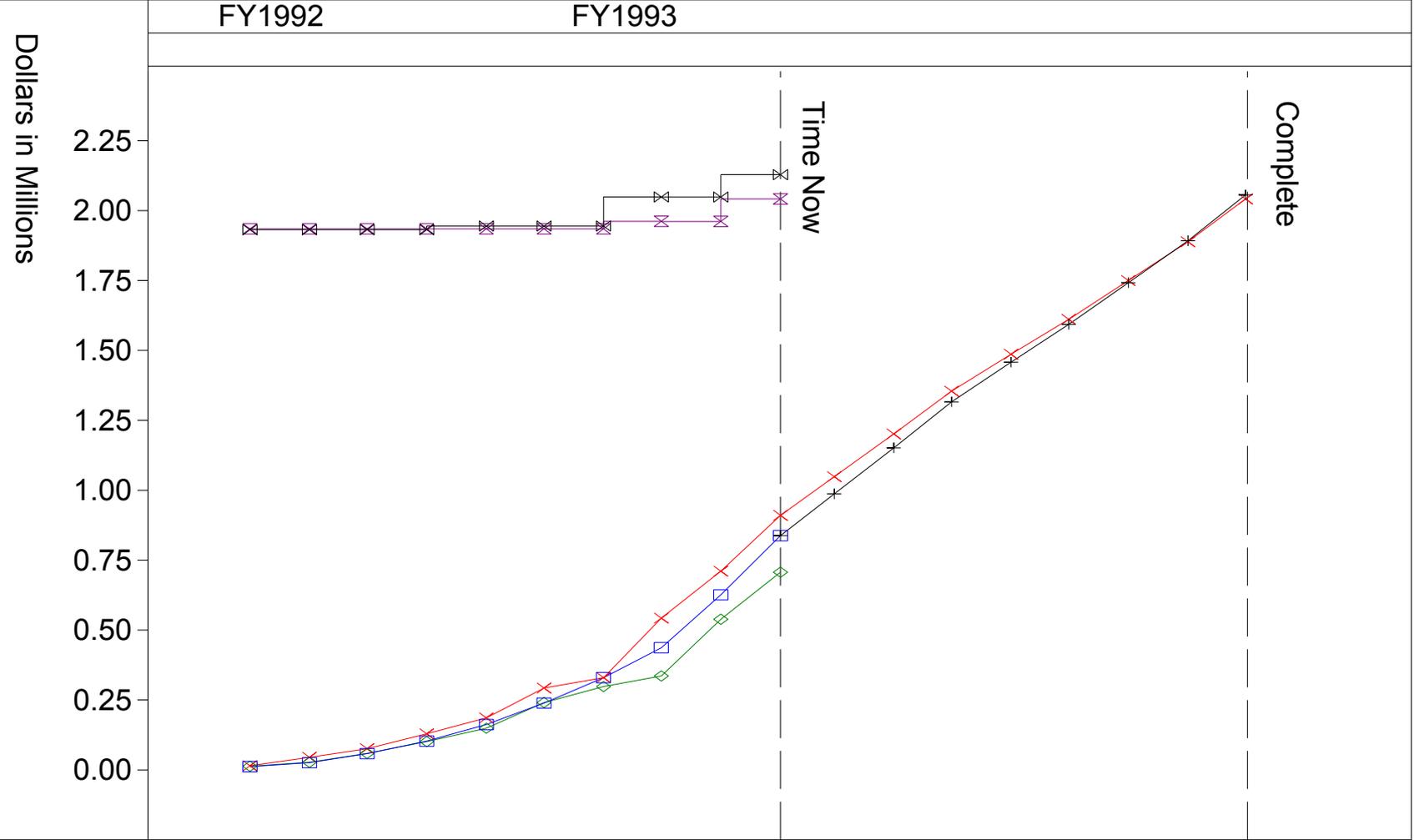


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3200

Cum Element Performance

Name: COMMUNICATIONS



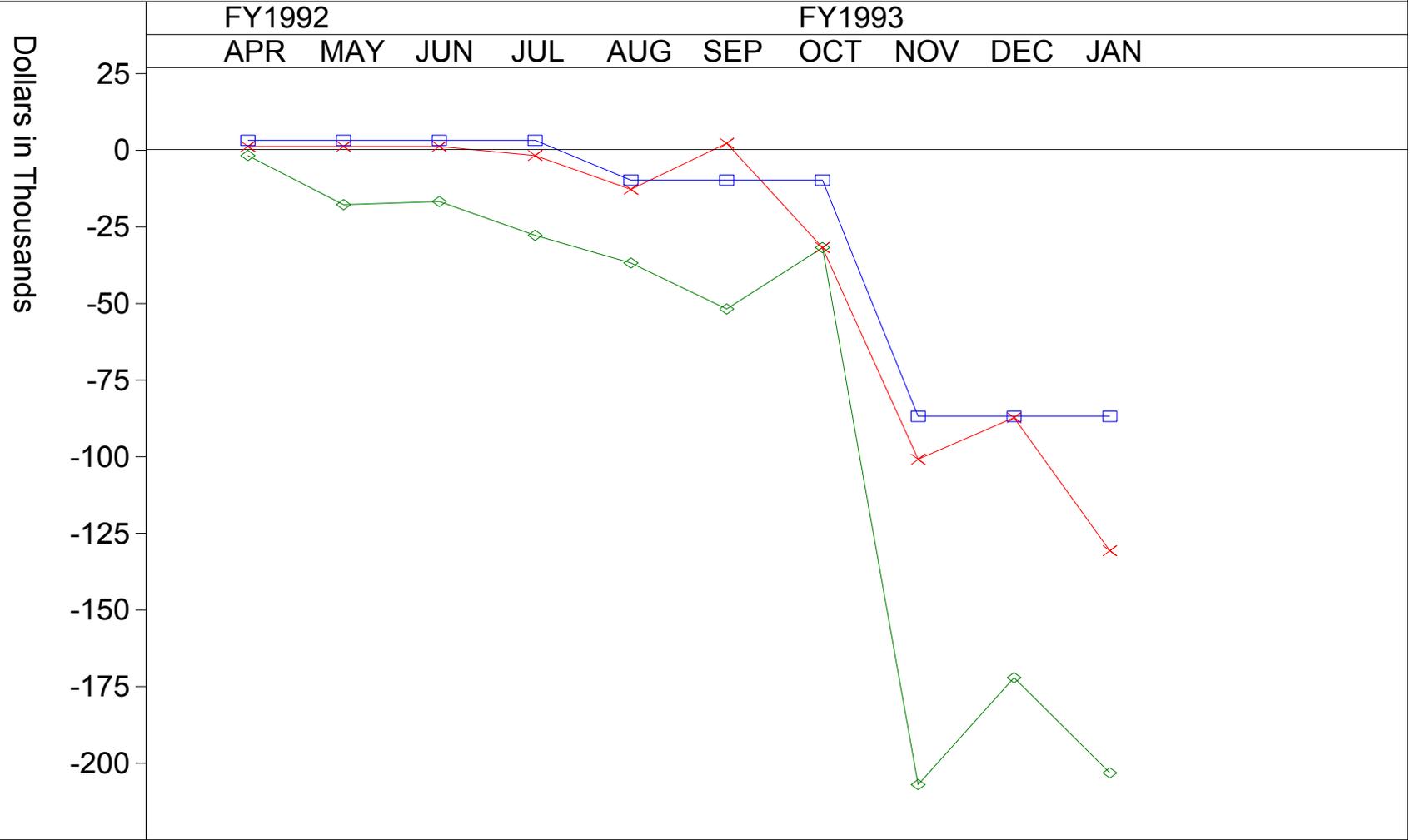
BCWS	— x —	0.911	BAC	— x —	2.043
BCWP	— ◇ —	0.707	LRE	— x —	2.130
ACWP	— □ —	0.838			
ETC	— + —	0.838			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3200

Cumulative Variance

Name: COMMUNICATIONS



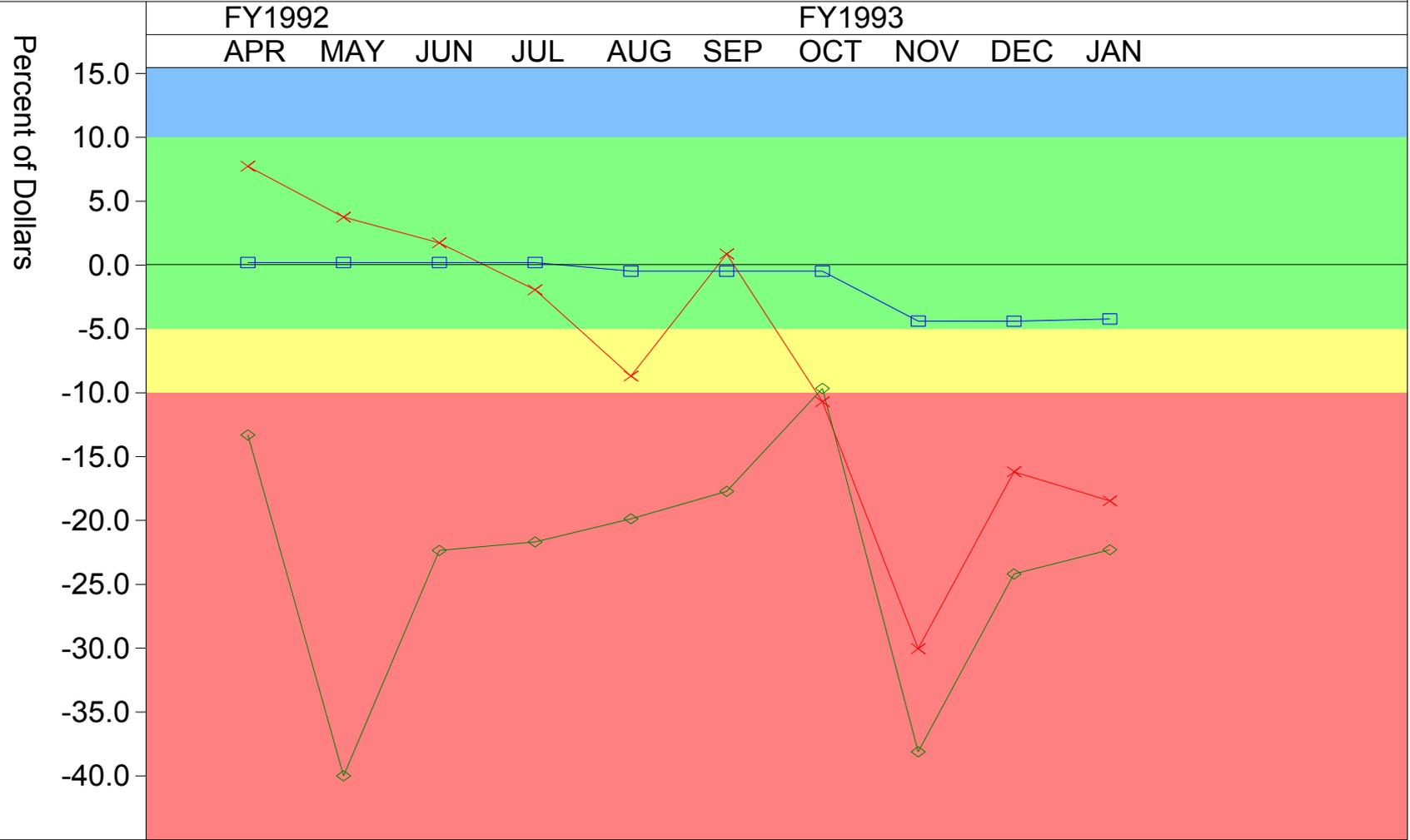
—x—	COST	1.00	1.00	1.00	-2.00	-13.00	2.00	-32.00	-101.00	-87.40	-130.80
—◇—	SCHED	-2.00	-18.00	-17.00	-28.00	-37.00	-52.00	-32.00	-207.00	-172.20	-203.20
—□—	VAC	3.00	3.00	3.00	3.00	-10.00	-10.00	-10.00	-87.00	-87.00	-87.00

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3200

Cumulative Variance Percent

Name: COMMUNICATIONS



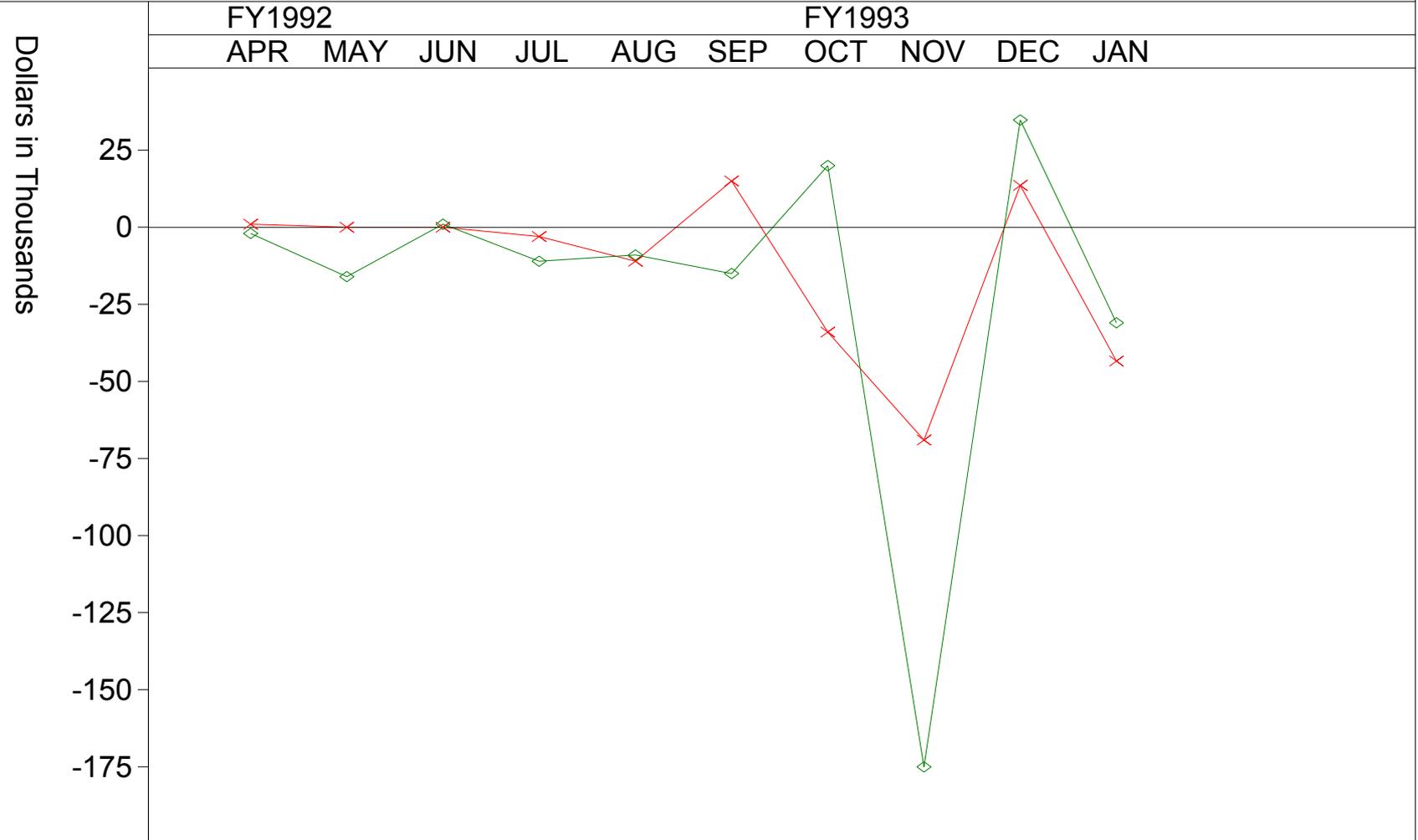
—x—	COST	7.69	3.70	1.69	-1.98	-8.72	0.83	-10.74	-30.06	-16.22	-18.49
—◇—	SCHED	-13.33	-40.00	-22.37	-21.71	-19.89	-17.75	-9.70	-38.12	-24.21	-22.31
—□—	VAC	0.15	0.15	0.15	0.15	-0.52	-0.52	-0.52	-4.43	-4.43	-4.26

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3200

Current Variance

Name: COMMUNICATIONS



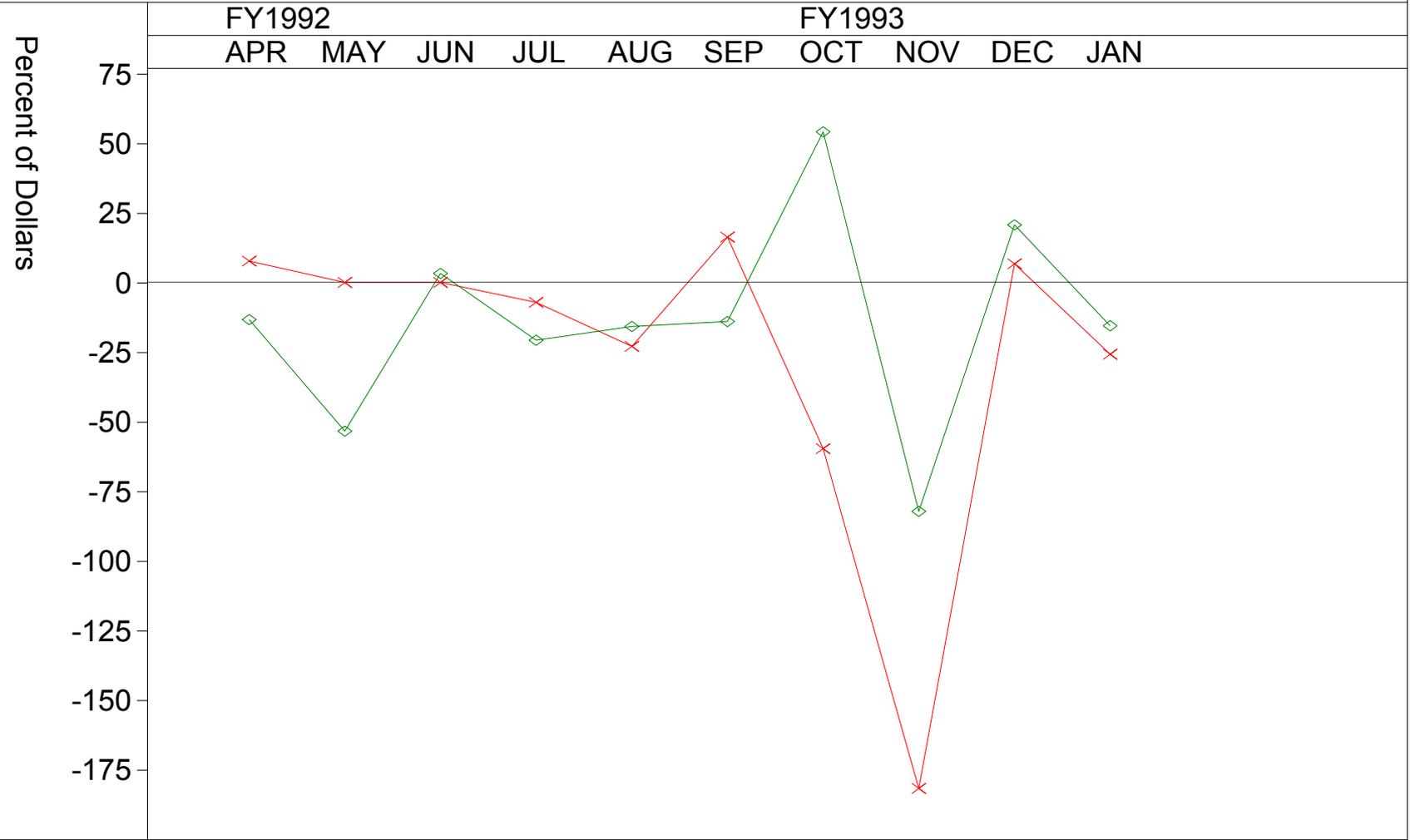
—x—	COST	1.00	0.00	0.00	-3.00	-11.00	15.00	-34.00	-69.00	13.60	-43.40
—◇—	SCHED	-2.00	-16.00	1.00	-11.00	-9.00	-15.00	20.00	-175.00	34.80	-31.00

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3200

Current Variance Percent

Name: COMMUNICATIONS



—x—	COST	7.69	0.00	0.00	-7.14	-22.92	16.30	-59.65	-181.58	6.70	-25.77
—◇—	SCHED	-13.33	-53.33	3.23	-20.75	-15.79	-14.02	54.05	-82.16	20.69	-15.55

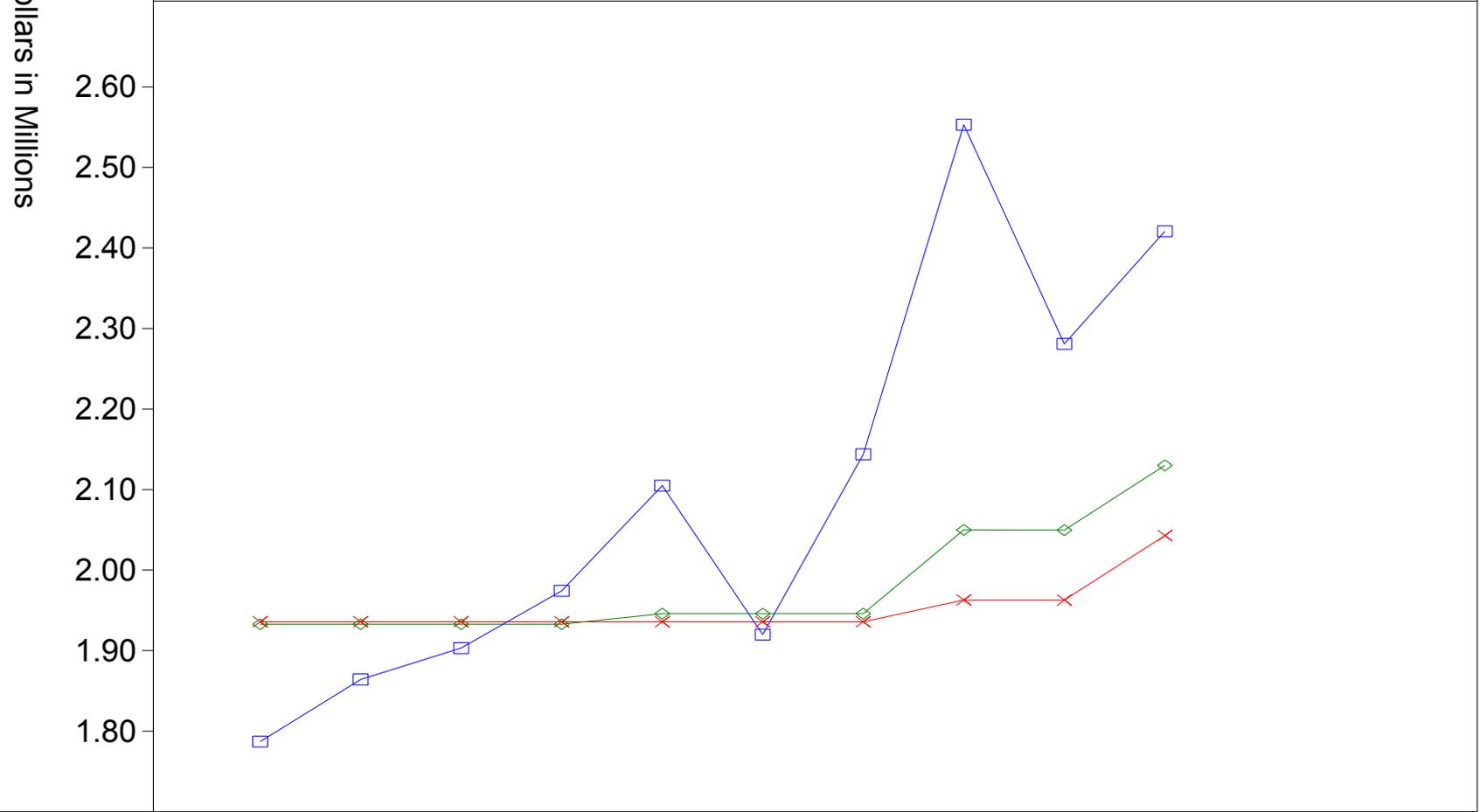
MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3200

Estimates at Completion

Name: COMMUNICATIONS

	FY1992					FY1993				
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN



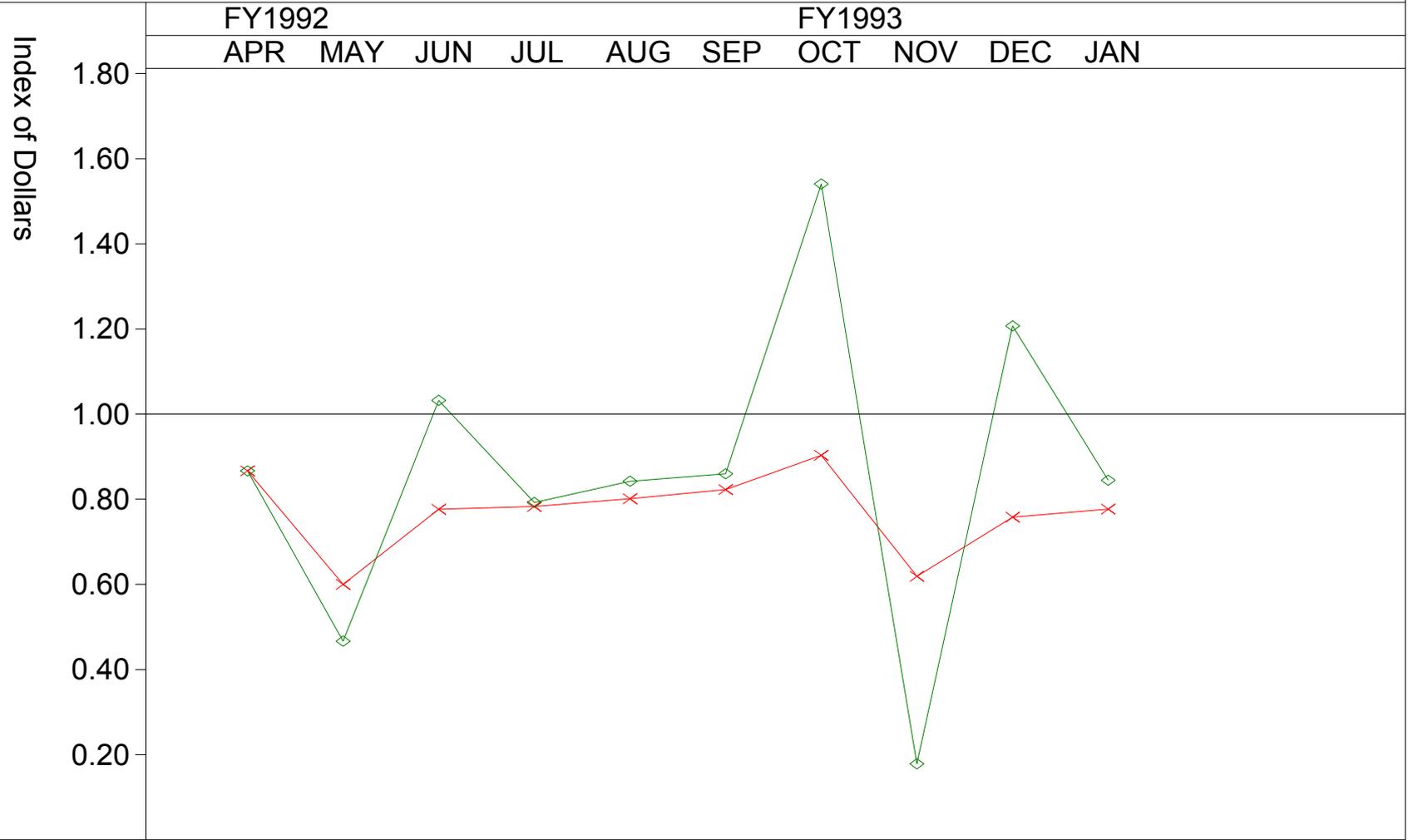
—x—	BAC	1.936	1.936	1.936	1.936	1.936	1.936	1.936	1.963	1.963	2.043
—◇—	LRE	1.933	1.933	1.933	1.933	1.946	1.946	1.946	2.050	2.050	2.130
—□—	CUM CPI	1.787	1.864	1.903	1.974	2.105	1.920	2.144	2.553	2.281	2.421

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3200

Schedule Performance Index

Name: COMMUNICATIONS



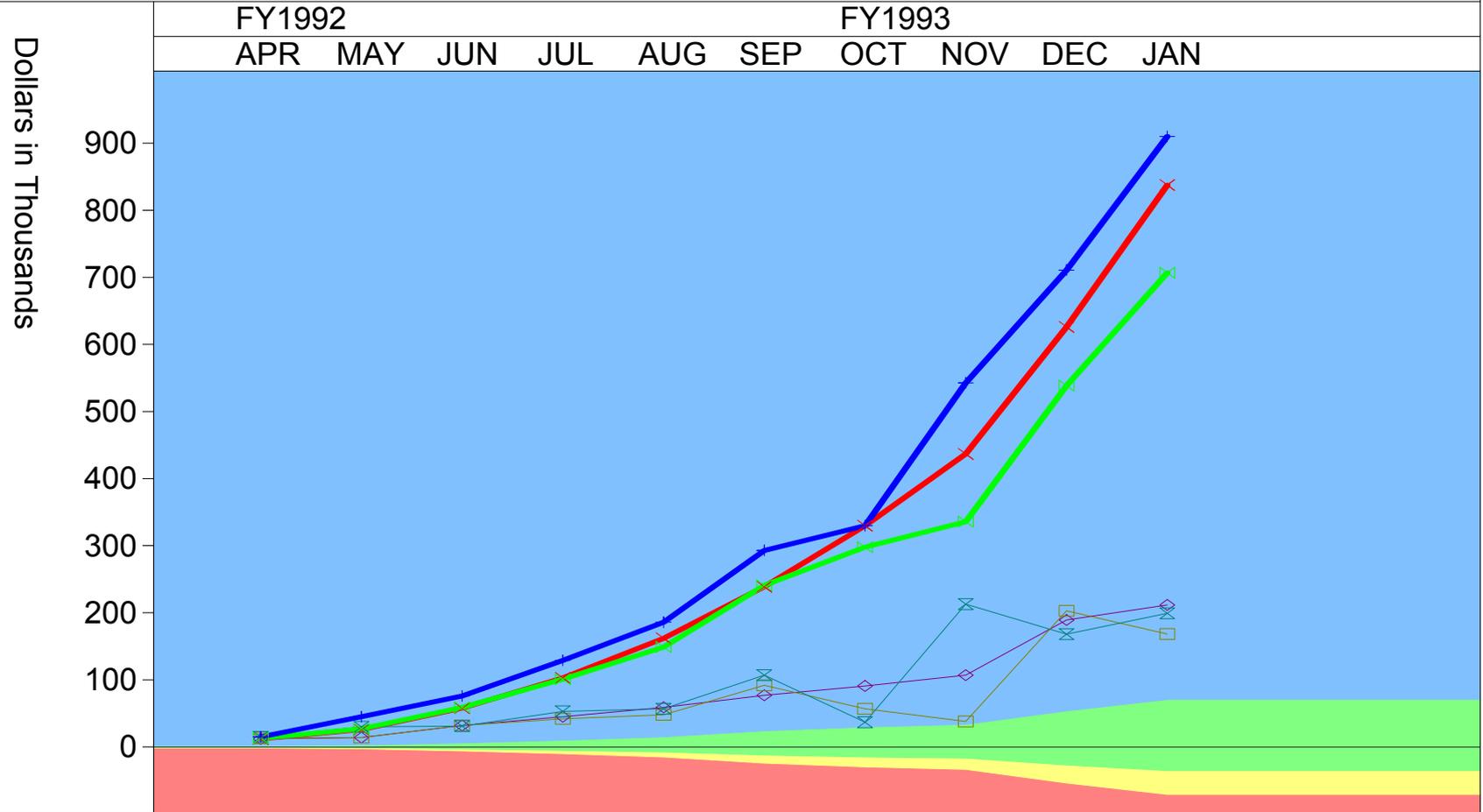
—x— CUM	0.867	0.600	0.776	0.783	0.801	0.823	0.903	0.619	0.758	0.777
—◇— CUR	0.867	0.467	1.032	0.792	0.842	0.860	1.541	0.178	1.207	0.845

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3200

Standard Earned Value

Name: COMMUNICATIONS



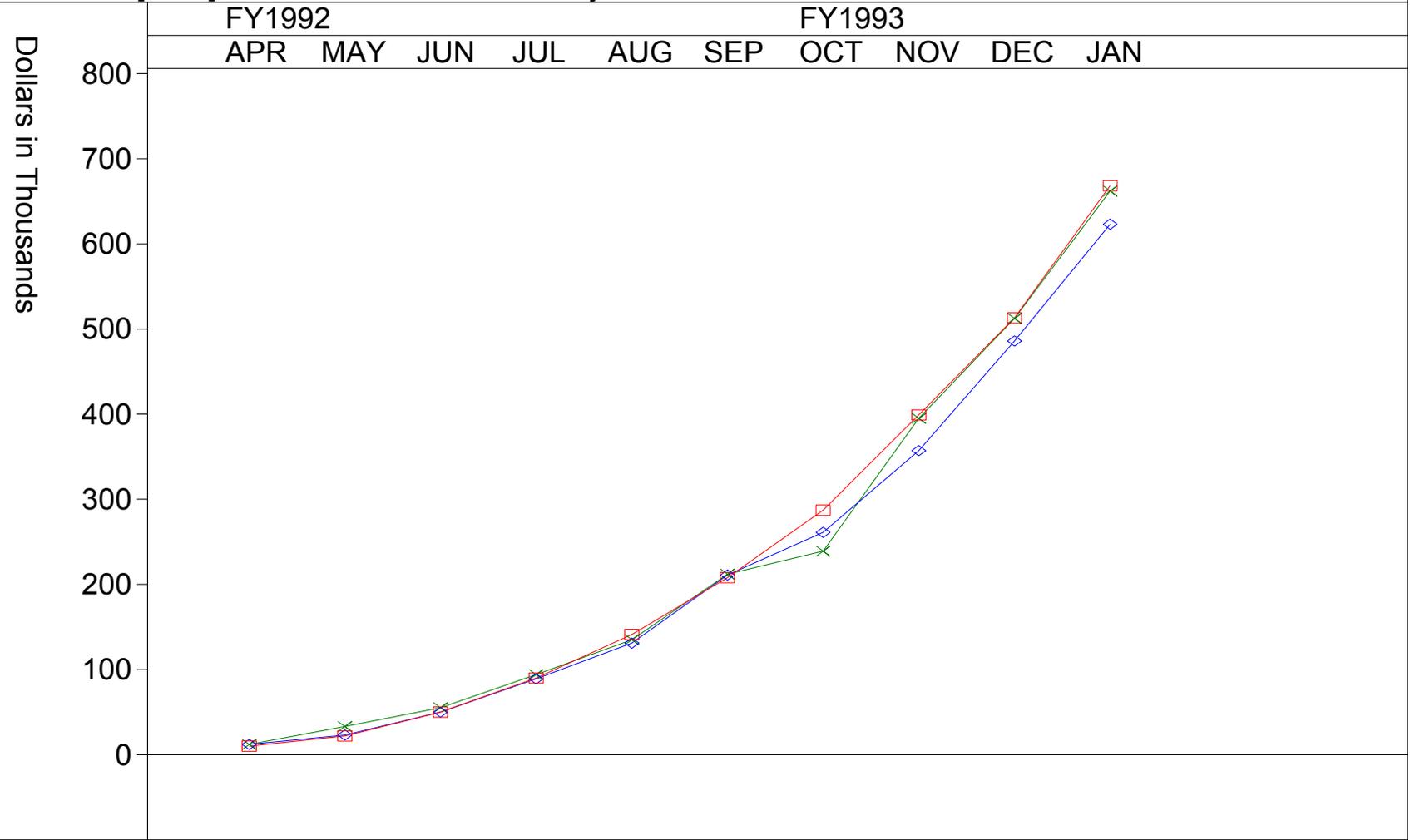
—x—	ACWPCUM12	26	58	103	162	239	330	437	626	838
—◇—	ACWPCUR12	14	32	45	59	77	91	107	189	212
—□—	BCWPCUR13	14	32	42	48	92	57	38	203	168
—x—	BCWSCUR15	30	31	53	57	107	37	213	168	199
—x—	BCWPCUM13	27	59	101	149	241	298	336	539	707
—+—	BCWSCUM15	45	76	129	186	293	330	543	711	911

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Adjusted Snake Chart

Name: GEN & ADMIN

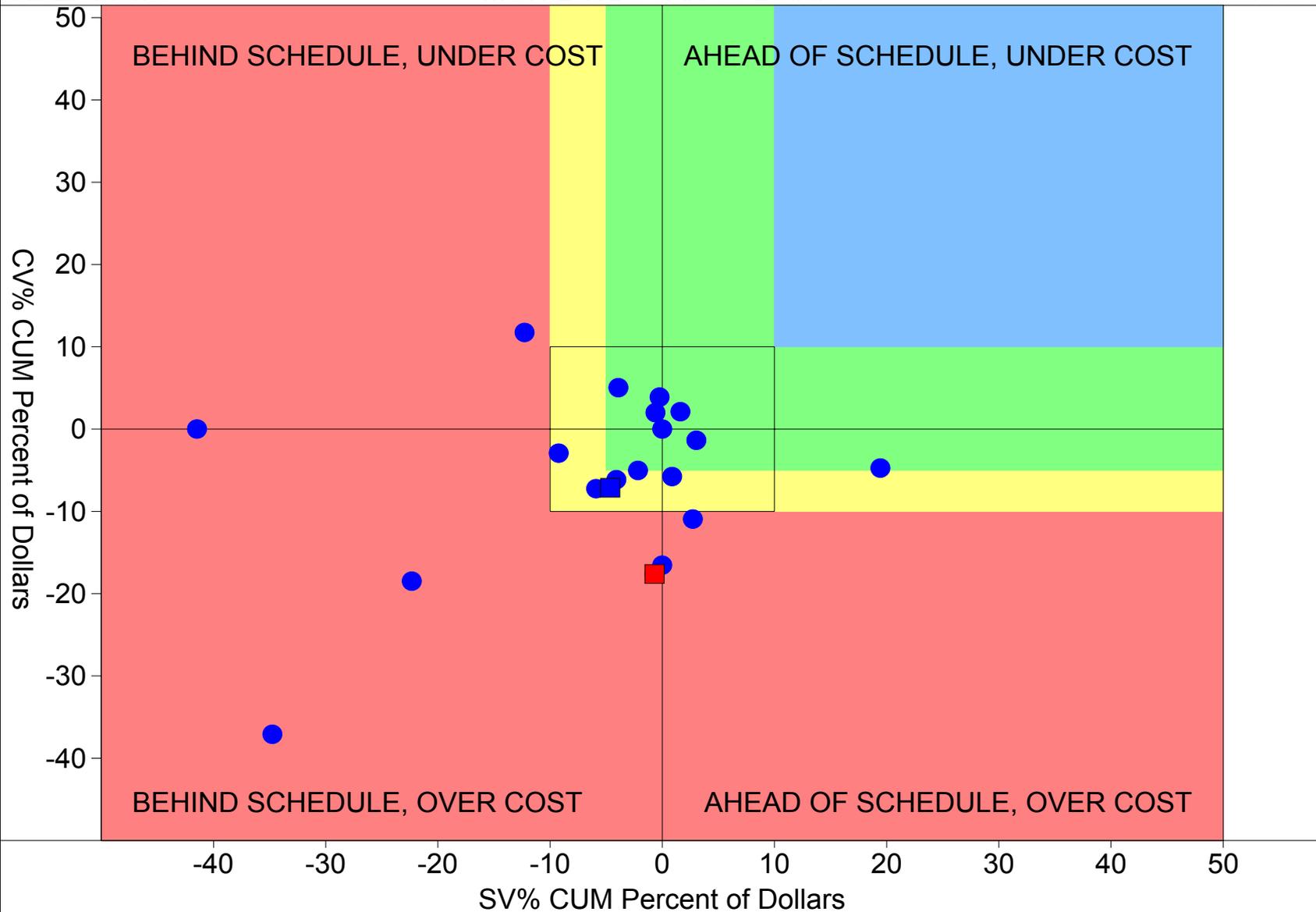


—x—	BCWSAD	12.0	33.0	55.0	94.0	135.0	212.0	239.0	395.0	512.4	662.0
—◇—	BCWPAD	12.0	23.0	50.0	89.0	131.0	211.0	261.0	357.0	485.8	623.0
—□—	ACWPAD	10.0	22.0	50.0	90.0	141.0	208.0	287.0	399.0	513.0	668.2

Filter (Lowest)
All Elements

Aggregate Bull's-eye Chart
MOH-2 WBS JAN 93 Dollars

Highlight (Description)
PCC

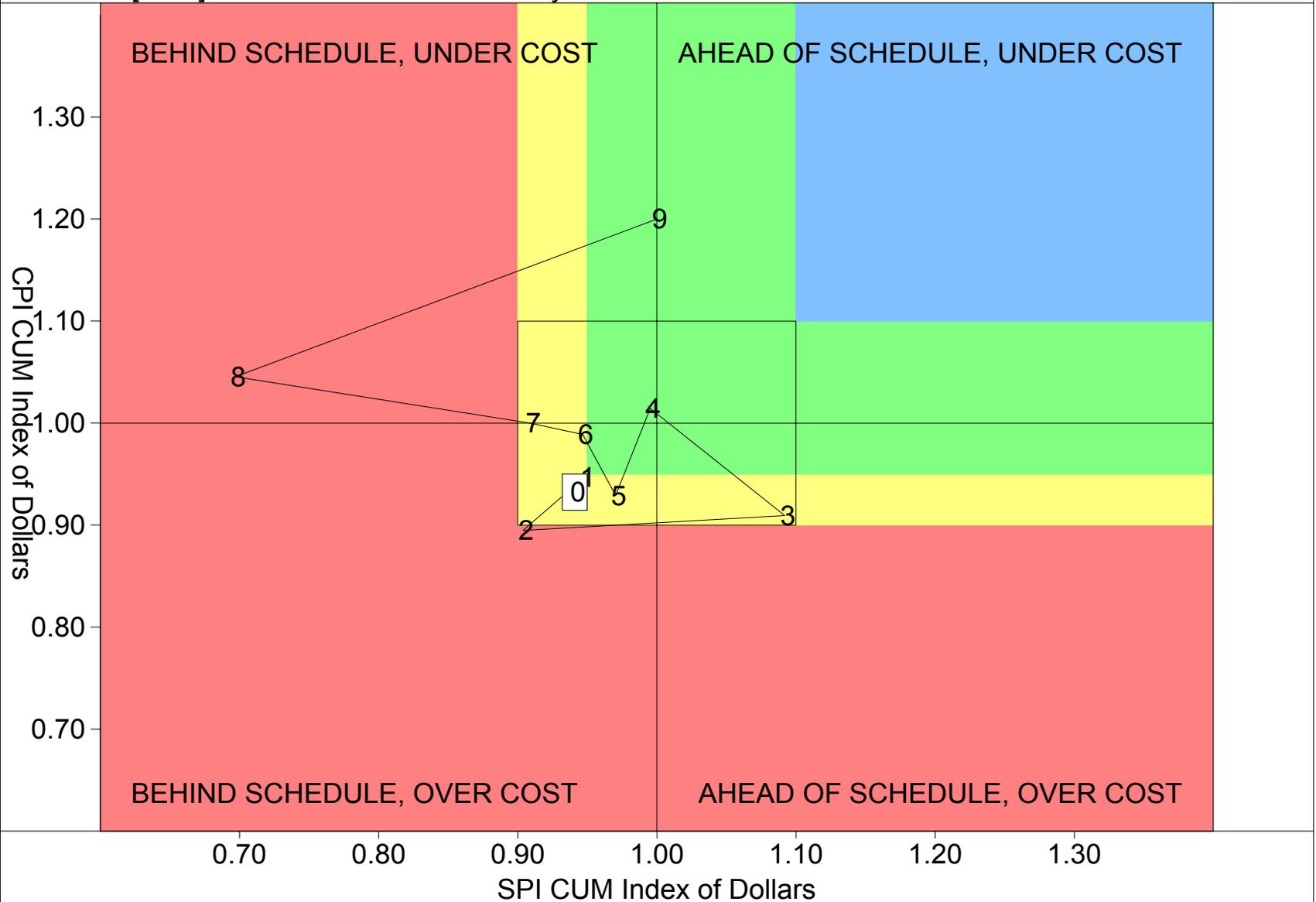


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Bull's-eye Chart - As of: JAN 93

Name: GEN & ADMIN

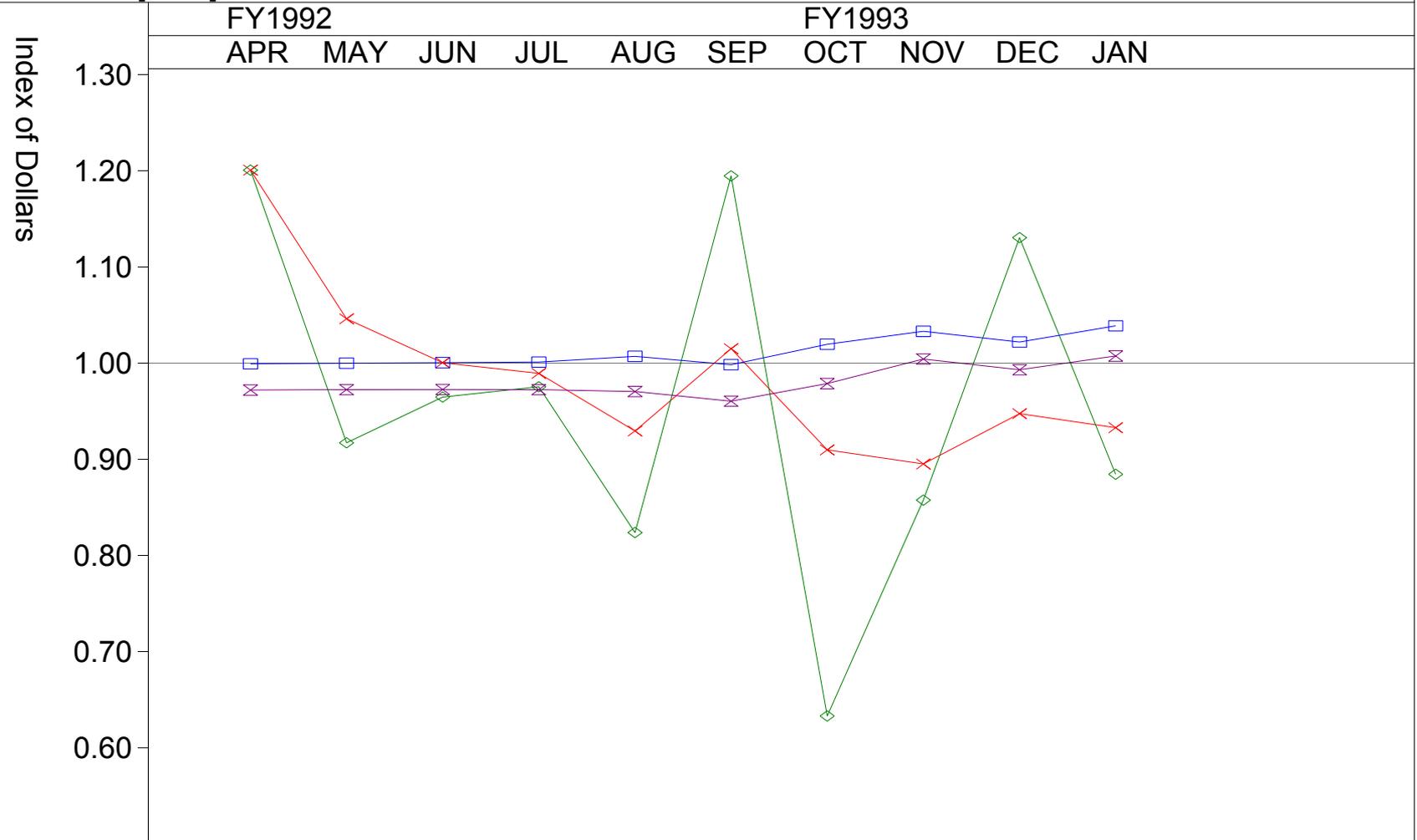


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Cost Performance Index

Name: GEN & ADMIN



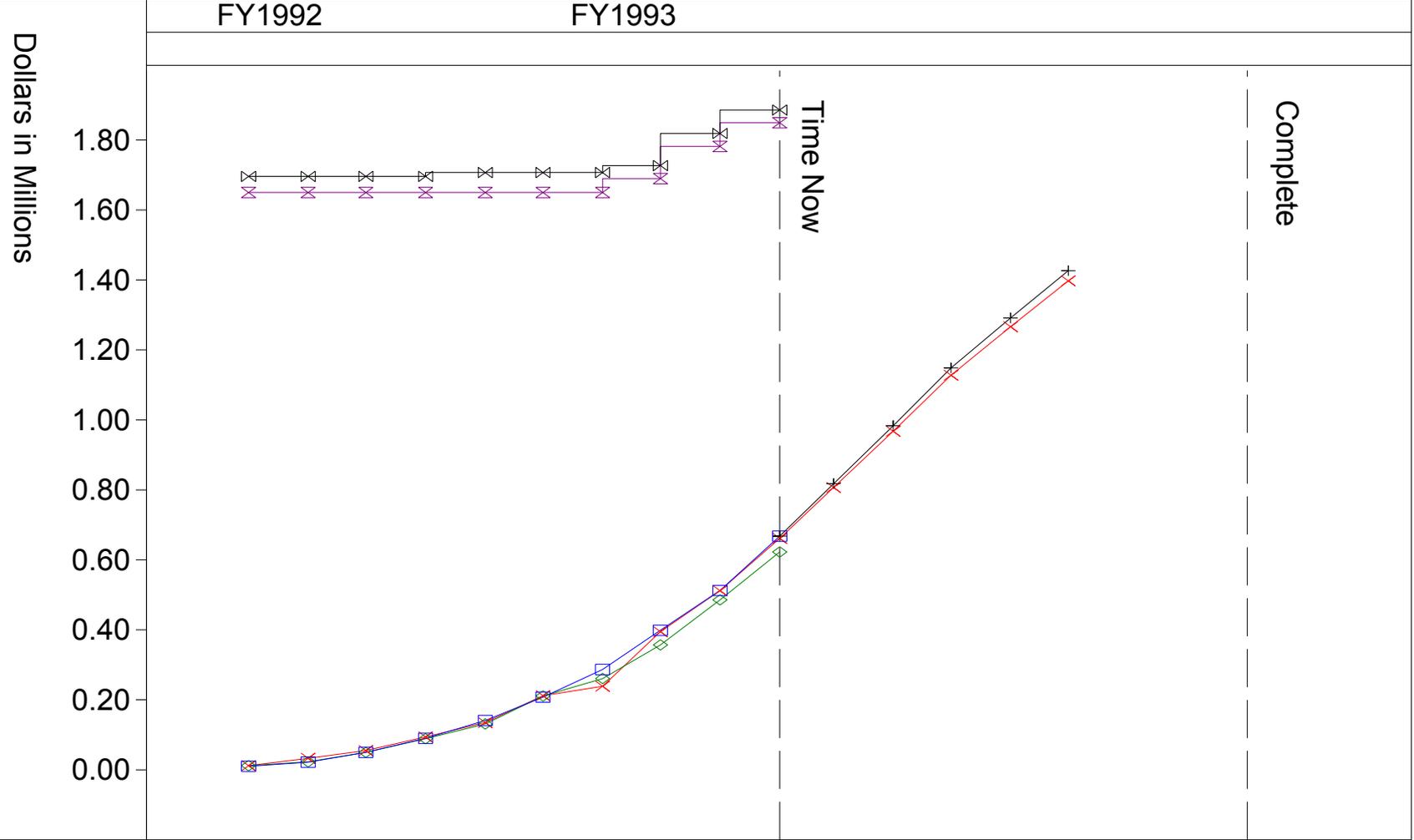
—x—	CUM	1.200	1.045	1.000	0.989	0.929	1.014	0.909	0.895	0.947	0.932
—◇—	CUR	1.200	0.917	0.964	0.975	0.824	1.194	0.633	0.857	1.130	0.884
—□—	TC-BAC	0.999	0.999	1.000	1.001	1.007	0.998	1.019	1.033	1.021	1.038
—x—	TC-LRE	0.972	0.972	0.972	0.972	0.970	0.960	0.978	1.004	0.993	1.007

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Cum Element Performance

Name: GEN & ADMIN



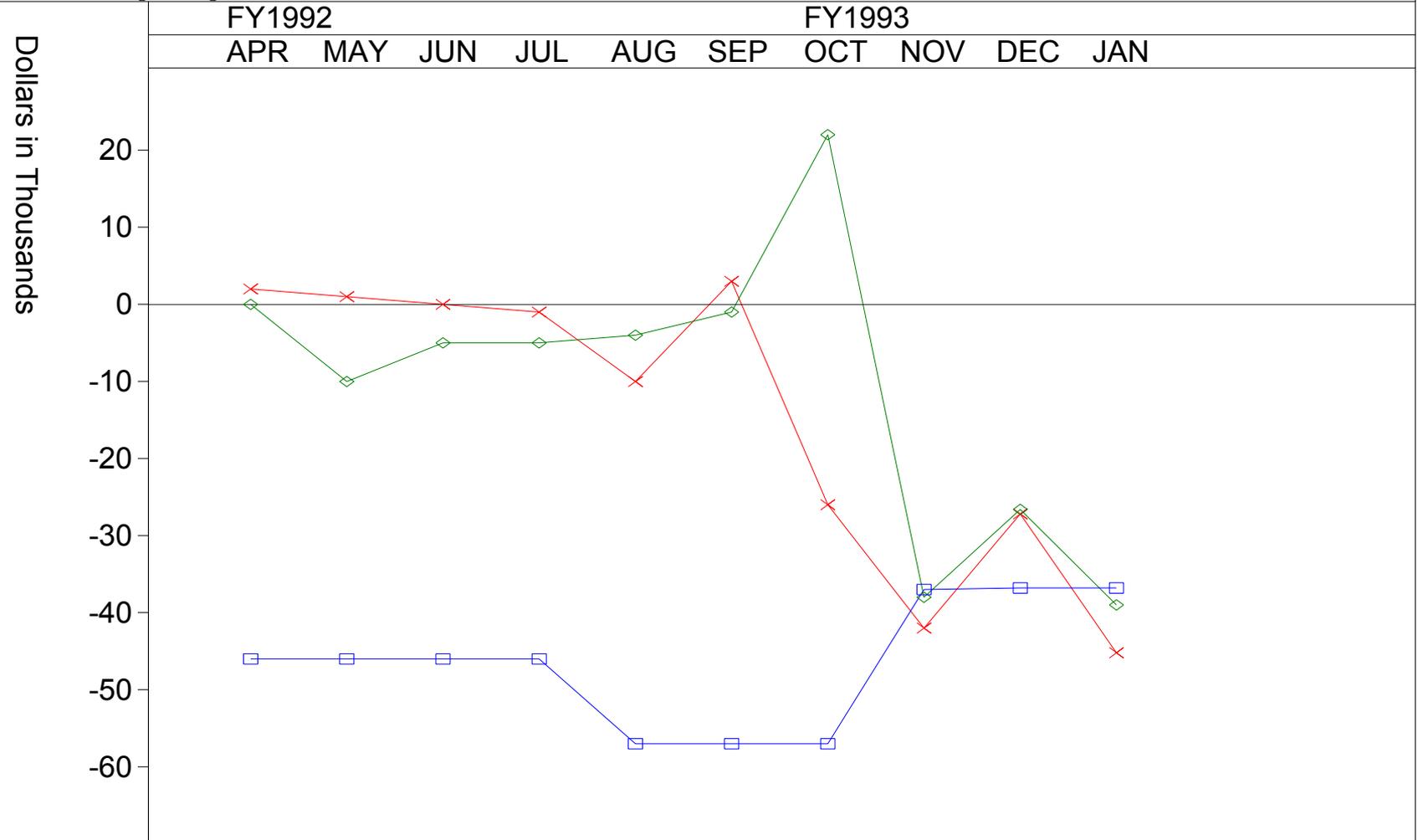
BCWS		0.662	BAC		1.850
BCWP		0.623	LRE		1.887
ACWP		0.668			
ETC		0.668			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Cumulative Variance

Name: GEN & ADMIN



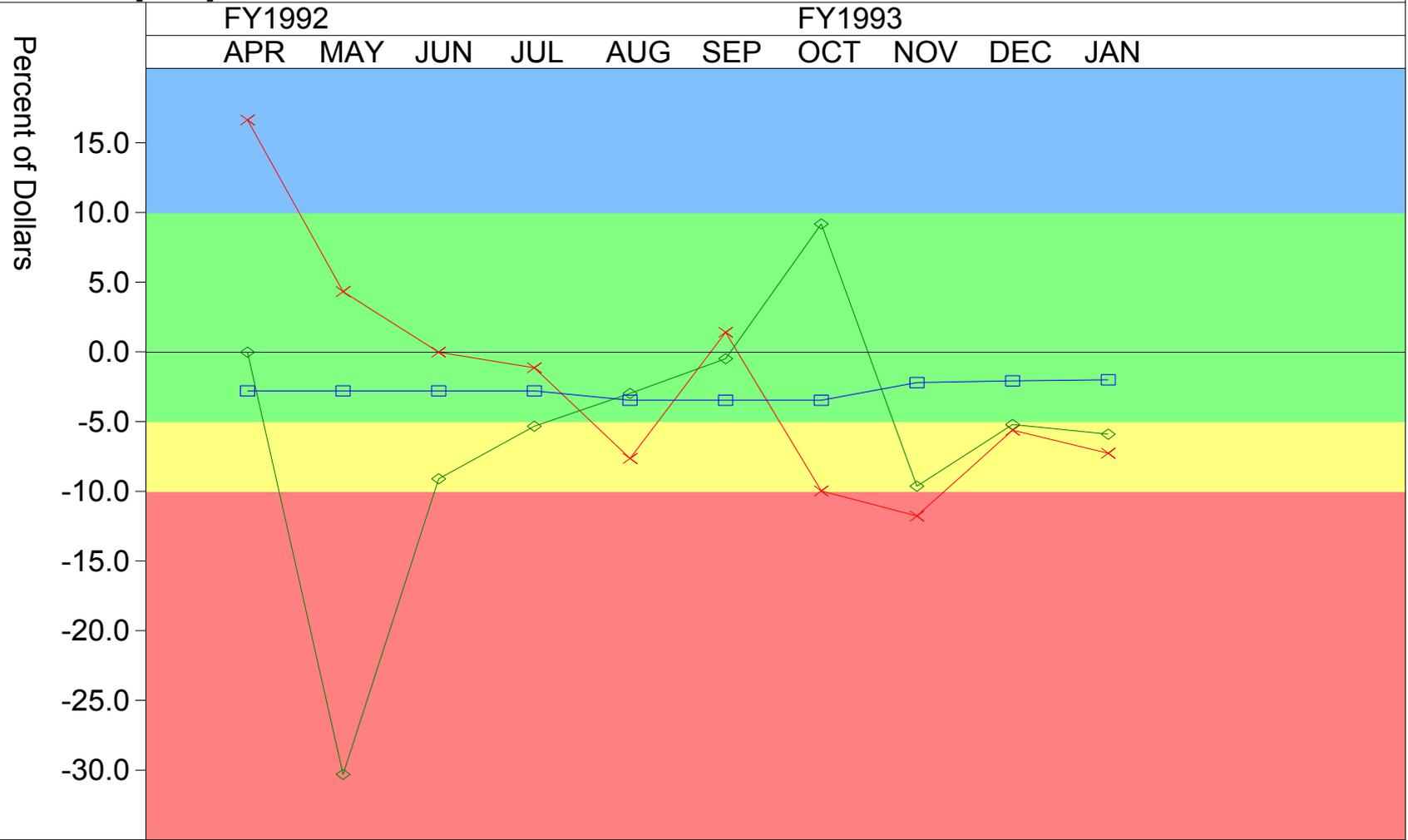
—x—	COST	2.00	1.00	0.00	-1.00	-10.00	3.00	-26.00	-42.00	-27.20	-45.20
—◇—	SCHED	0.00	-10.00	-5.00	-5.00	-4.00	-1.00	22.00	-38.00	-26.60	-39.00
—□—	VAC	-46.00	-46.00	-46.00	-46.00	-57.00	-57.00	-57.00	-37.00	-36.80	-36.80

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Cumulative Variance Percent

Name: GEN & ADMIN



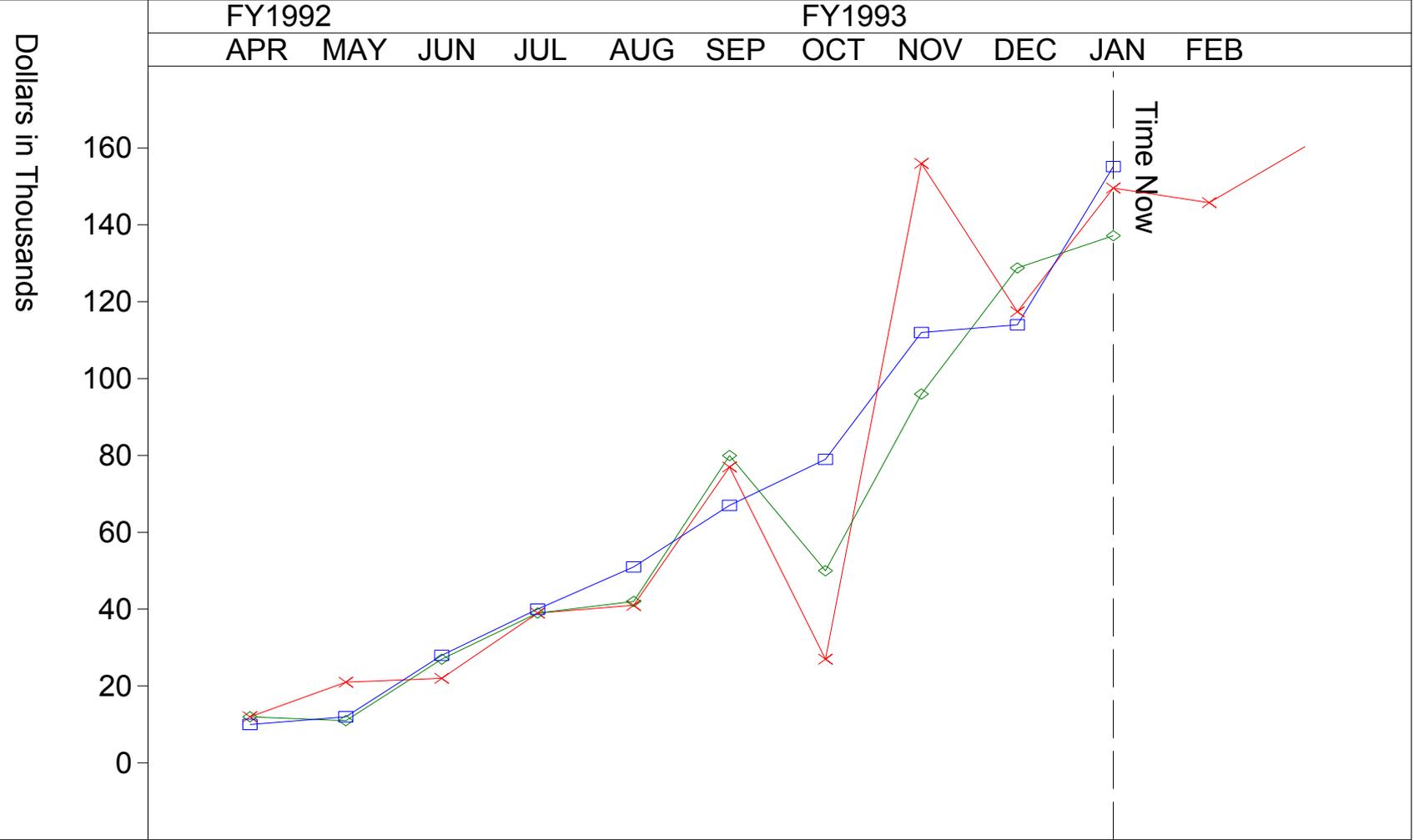
—x—	COST	16.67	4.35	0.00	-1.12	-7.63	1.42	-9.96	-11.76	-5.60	-7.26
—◇—	SCHED	0.00	-30.30	-9.09	-5.32	-2.96	-0.47	9.21	-9.62	-5.19	-5.89
—□—	VAC	-2.79	-2.79	-2.79	-2.79	-3.45	-3.45	-3.45	-2.19	-2.06	-1.99

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Cur Element Performance

Name: GEN & ADMIN



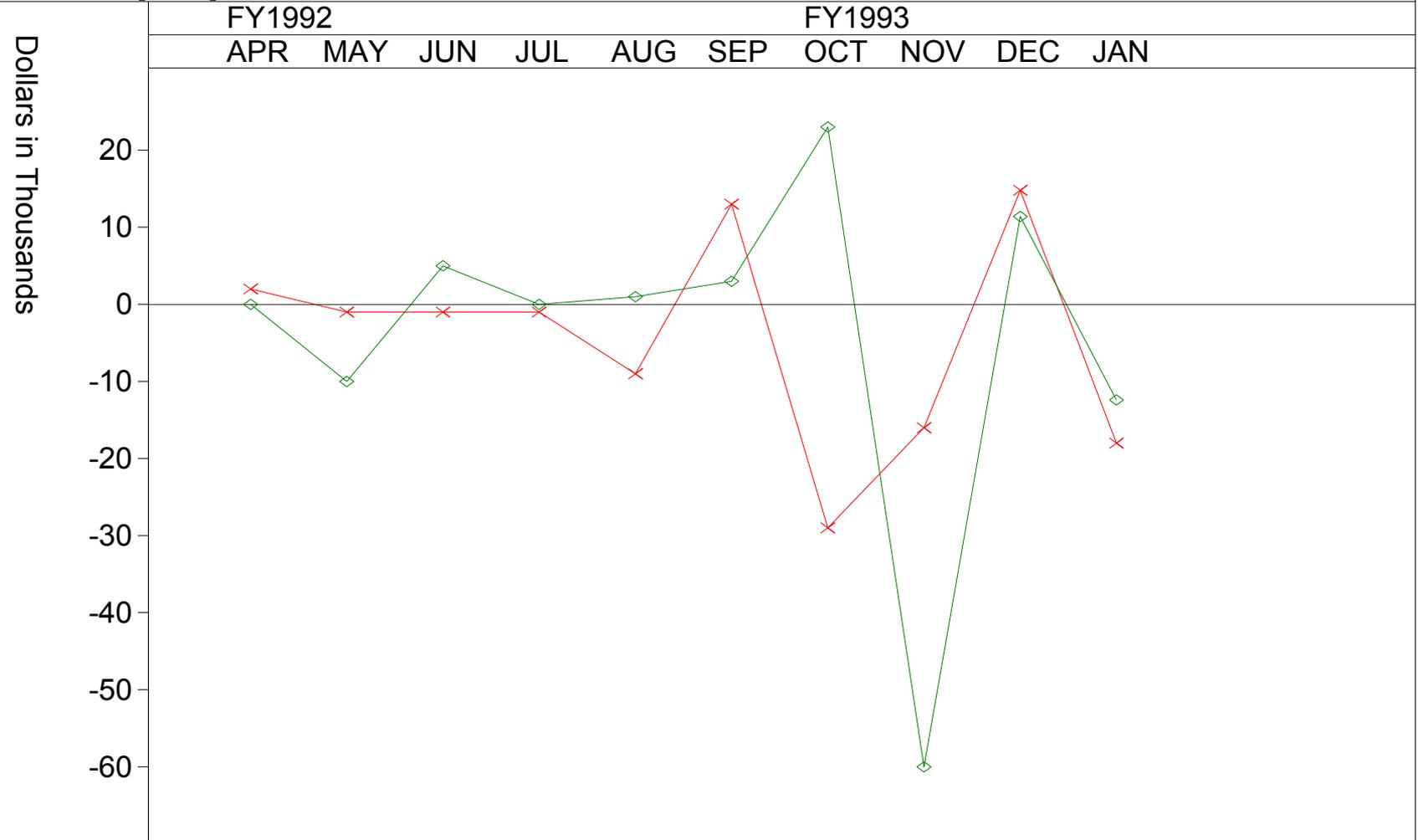
—x—	BCWS	12.0	21.0	22.0	39.0	41.0	77.0	27.0	156.0	117.4	149.6	145.8
—◇—	BCWP	12.0	11.0	27.0	39.0	42.0	80.0	50.0	96.0	128.8	137.2	
—□—	ACWP	10.0	12.0	28.0	40.0	51.0	67.0	79.0	112.0	114.0	155.2	

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Current Variance

Name: GEN & ADMIN



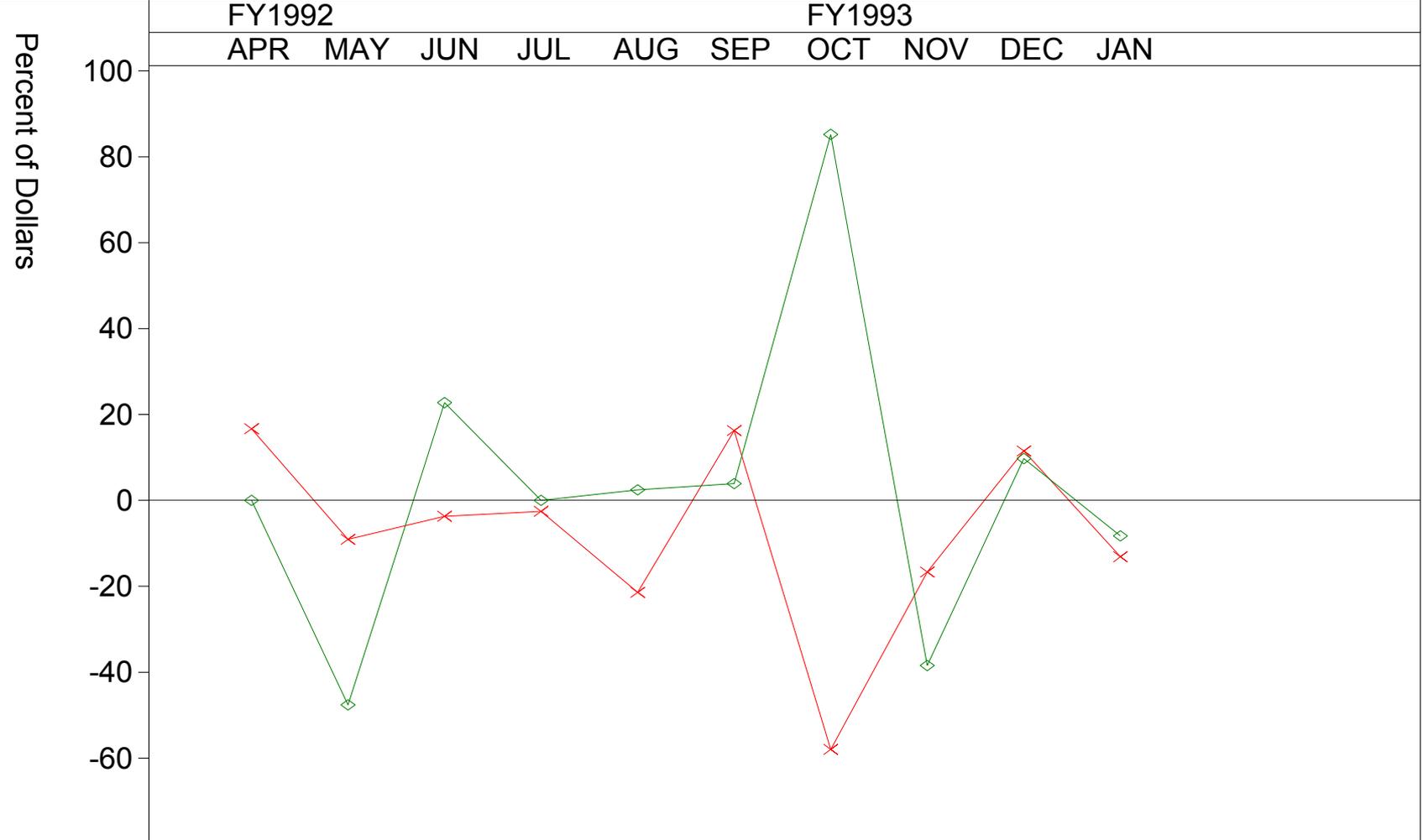
—x—	COST	2.00	-1.00	-1.00	-1.00	-9.00	13.00	-29.00	-16.00	14.80	-18.00
—◇—	SCHED	0.00	-10.00	5.00	0.00	1.00	3.00	-60.00	11.40	-12.40	

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Current Variance Percent

Name: GEN & ADMIN



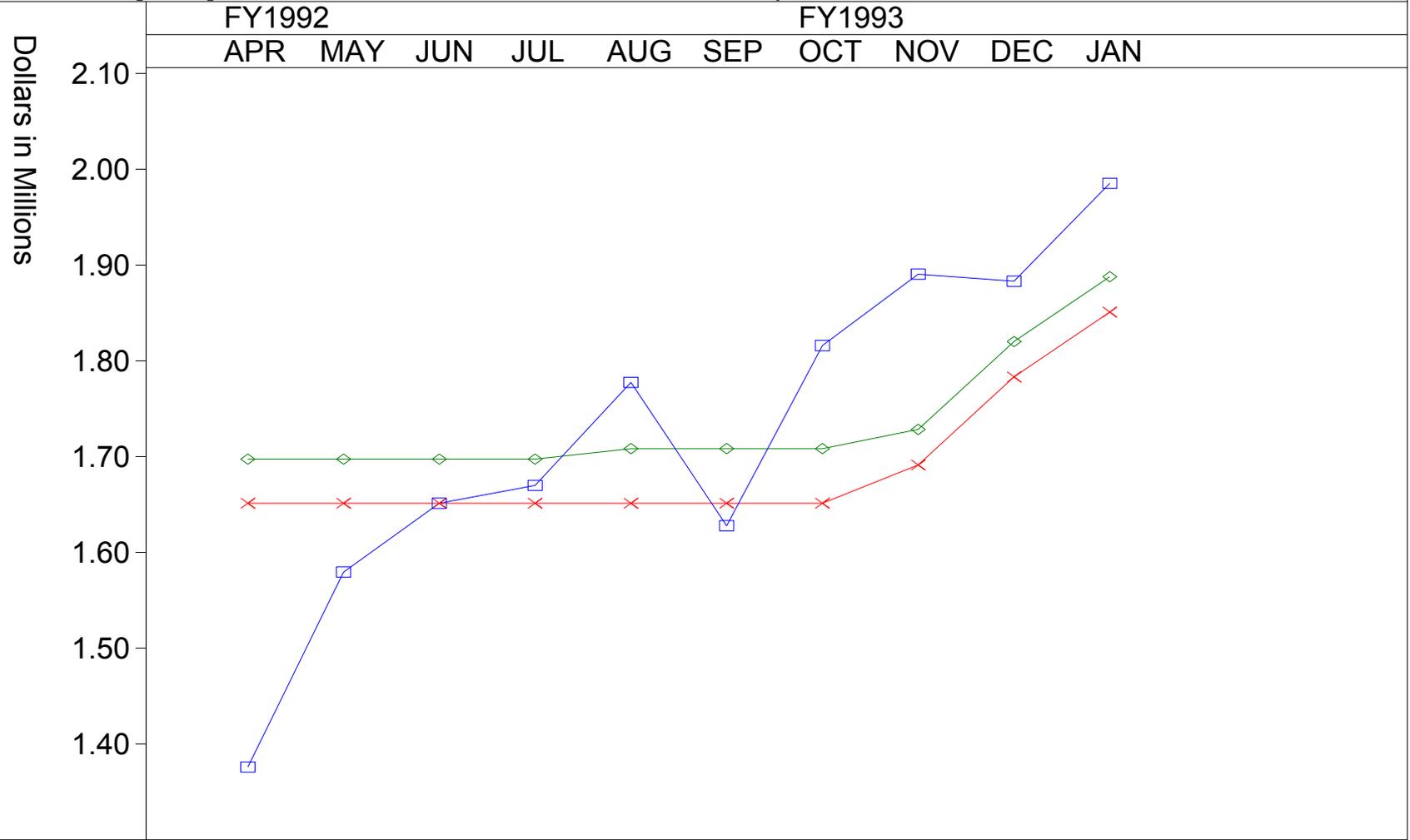
—x—	COST	16.67	-9.09	-3.70	-2.56	-21.43	16.25	-58.00	-16.67	11.49	-13.12
—◇—	SCHED	0.00	-47.62	22.73	0.00	2.44	3.90	85.19	-38.46	9.71	-8.29

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Estimates at Completion

Name: GEN & ADMIN



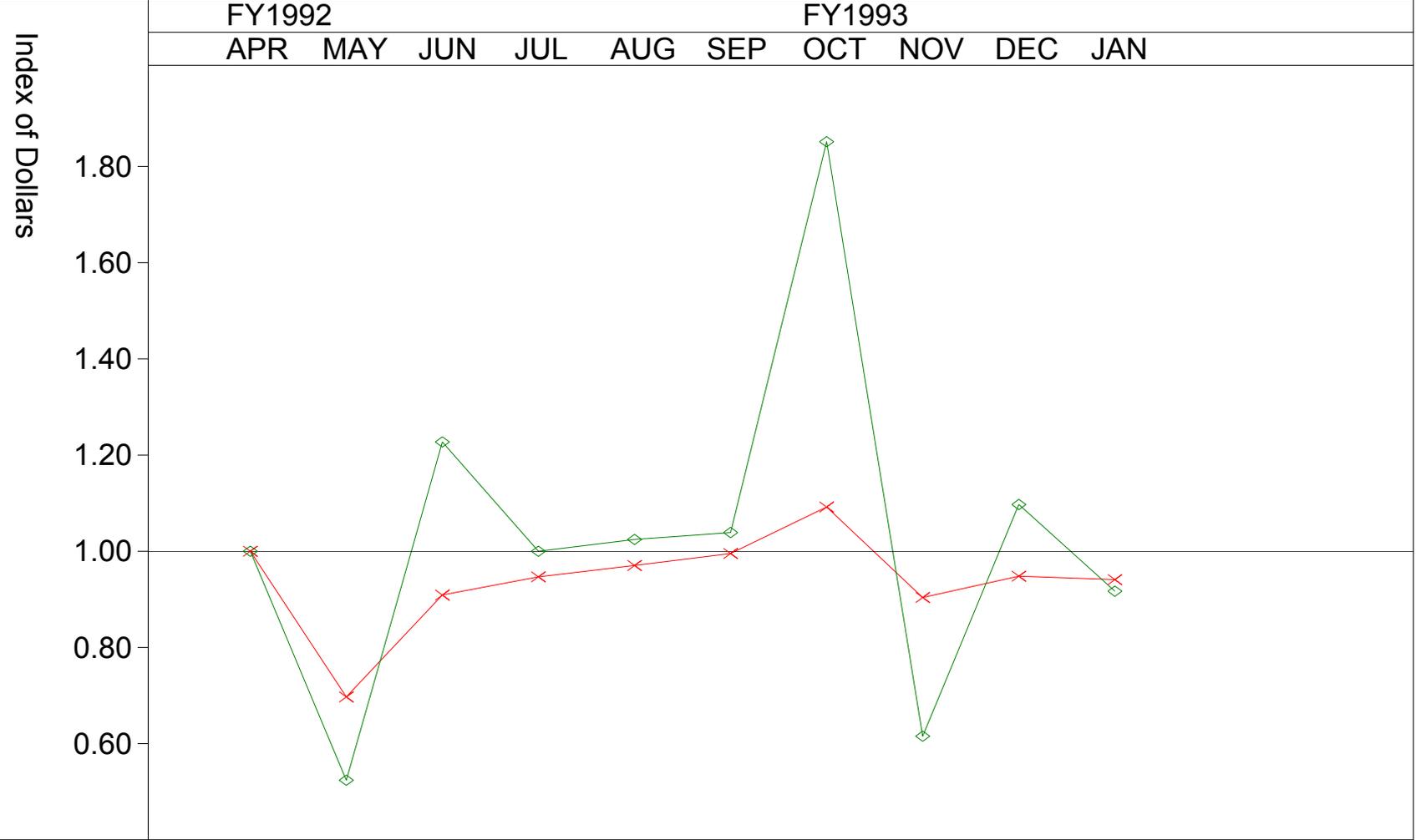
—x—	BAC	1.651	1.651	1.651	1.651	1.651	1.651	1.691	1.783	1.850	
—◇—	LRE	1.697	1.697	1.697	1.697	1.708	1.708	1.728	1.820	1.887	
—□—	CUM CPI	1.376	1.579	1.651	1.670	1.777	1.628	1.815	1.890	1.883	1.985

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Schedule Performance Index

Name: GEN & ADMIN



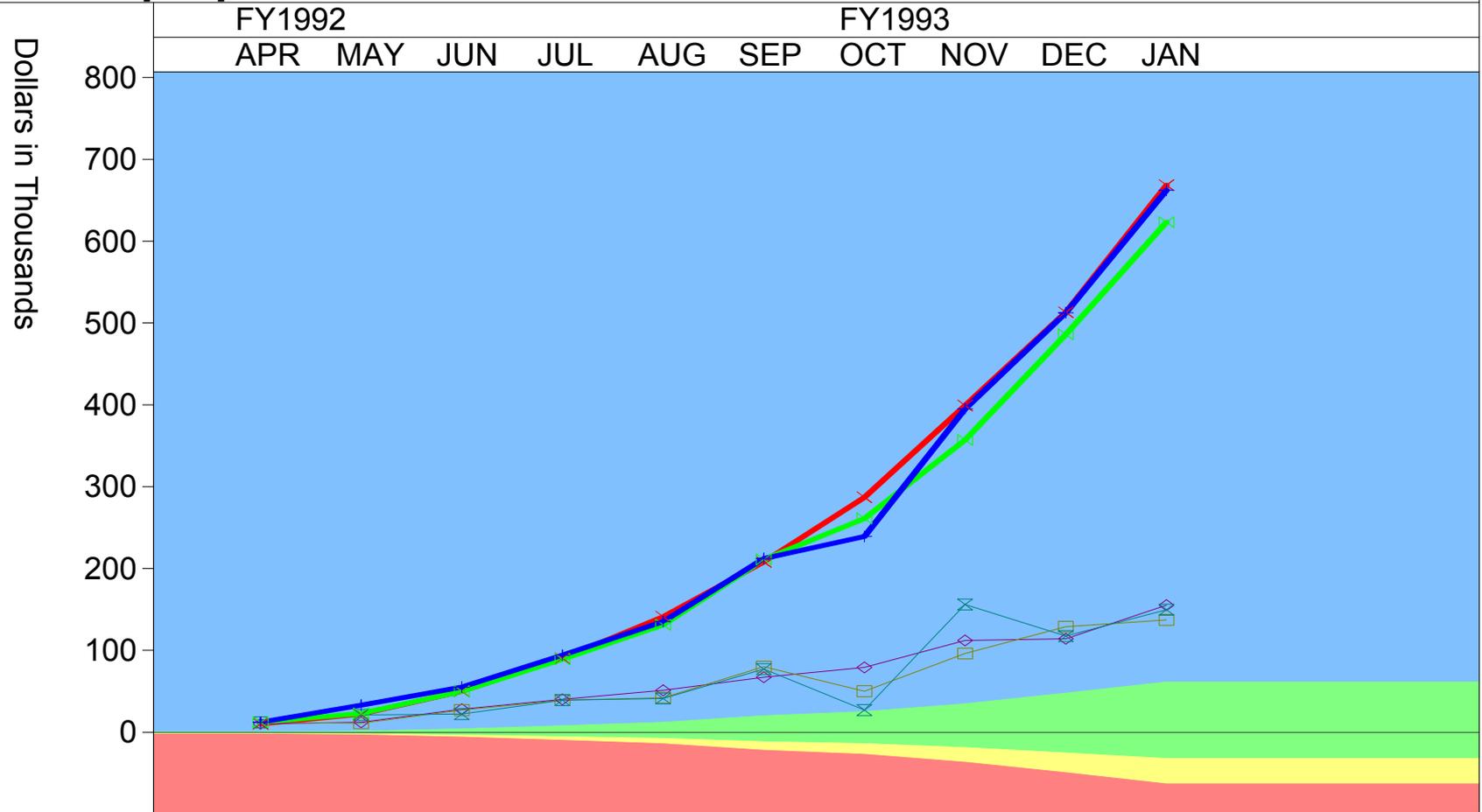
—x—	CUM	1.000	0.697	0.909	0.947	0.970	0.995	1.092	0.904	0.948	0.941
—◇—	CUR	1.000	0.524	1.227	1.000	1.024	1.039	1.852	0.615	1.097	0.917

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: [G&A]

Standard Earned Value

Name: GEN & ADMIN



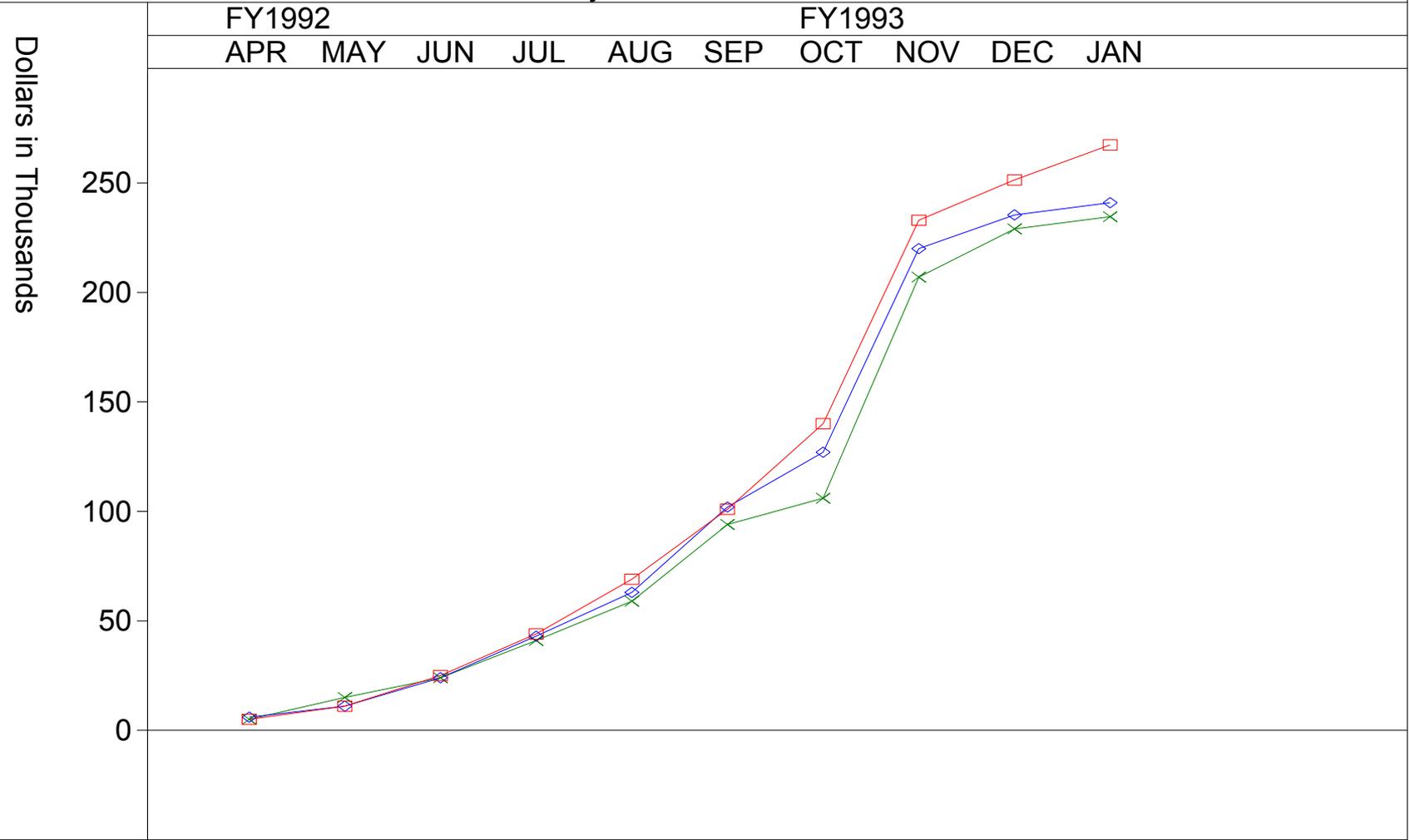
—x—	ACWPCUM	0.0	22.0	50.0	90.0	141.0	208.0	287.0	399.0	513.0	668.2
—◇—	ACWPCUR	0.0	12.0	28.0	40.0	51.0	67.0	79.0	112.0	114.0	155.2
—□—	BCWPCUR	2.0	11.0	27.0	39.0	42.0	80.0	50.0	96.0	128.8	137.2
—x—	BCWSCUR	2.0	21.0	22.0	39.0	41.0	77.0	27.0	156.0	117.4	149.6
—x—	BCWPCUM	2.0	23.0	50.0	89.0	131.0	211.0	261.0	357.0	485.8	623.0
—+—	BCWSCUM	2.0	33.0	55.0	94.0	135.0	212.0	239.0	395.0	512.4	662.0

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Adjusted Snake Chart

Name: SYS ENGINEERING

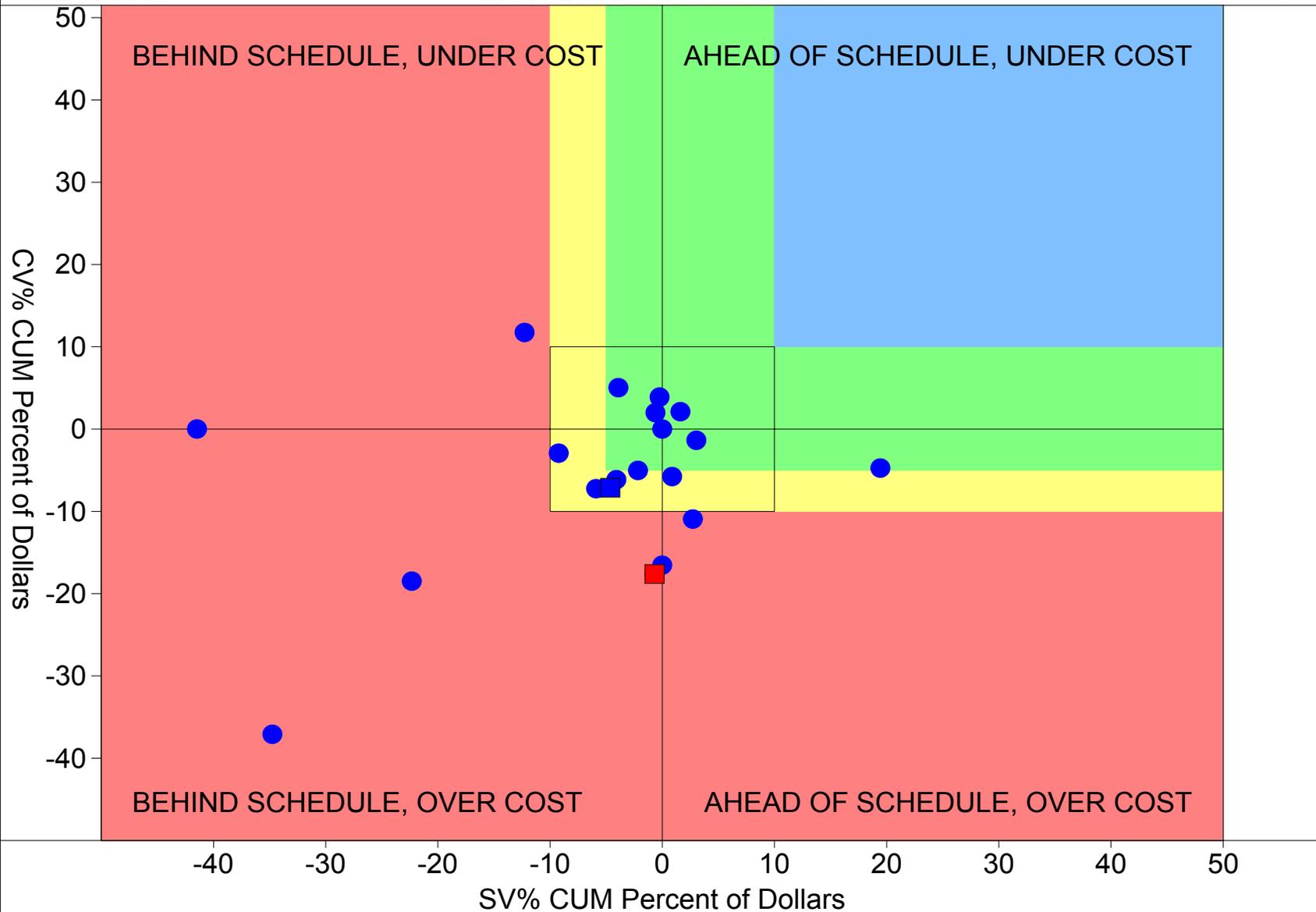


	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
—x— BCWSADJ 5.0	15.0	24.0	41.0	59.0	94.0	106.0	207.0	229.0	234.6	
—◇— BCWPADJ 6.0	11.0	24.0	43.0	63.0	102.0	127.0	220.0	235.4	241.0	
—□— ACWPADJ 5.0	11.0	25.0	44.0	69.0	101.0	140.0	233.0	251.4	267.4	

Filter (Lowest)
All Elements

Aggregate Bull's-eye Chart
MOH-2 WBS JAN 93 Dollars

Highlight (Description)
PCC

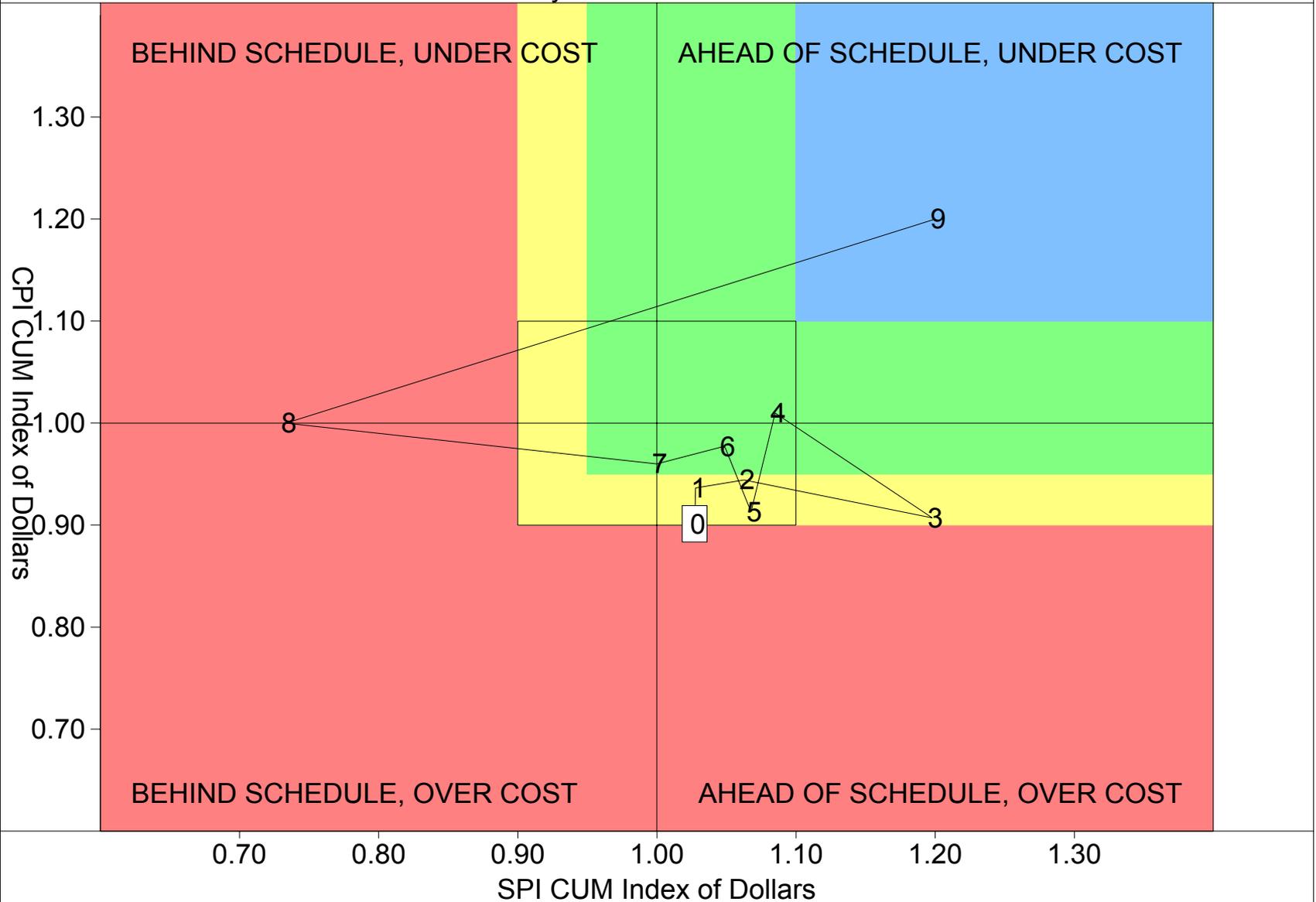


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Bull's-eye Chart - As of: JAN 93

Name: SYS ENGINEERING

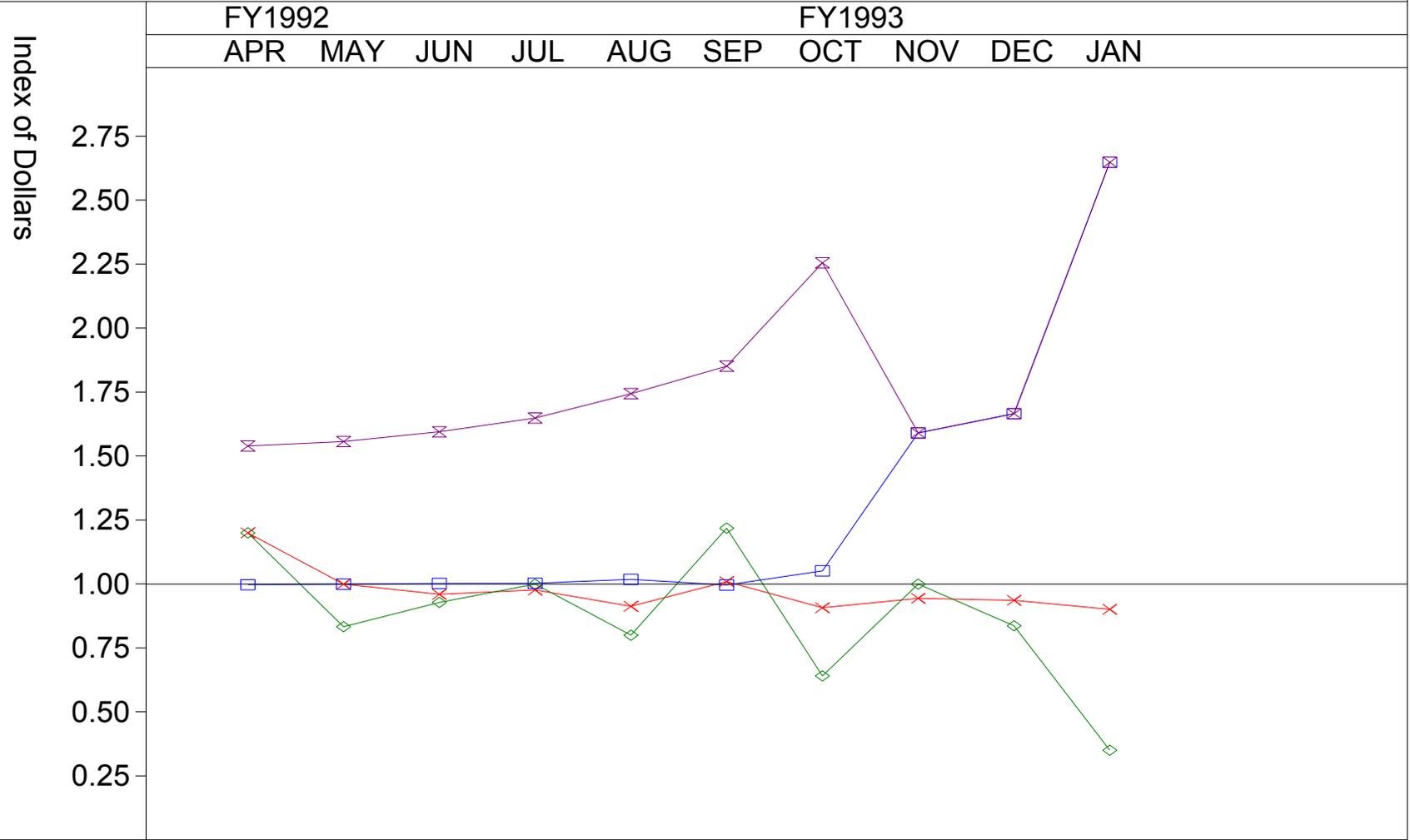


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Cost Performance Index

Name: SYS ENGINEERING



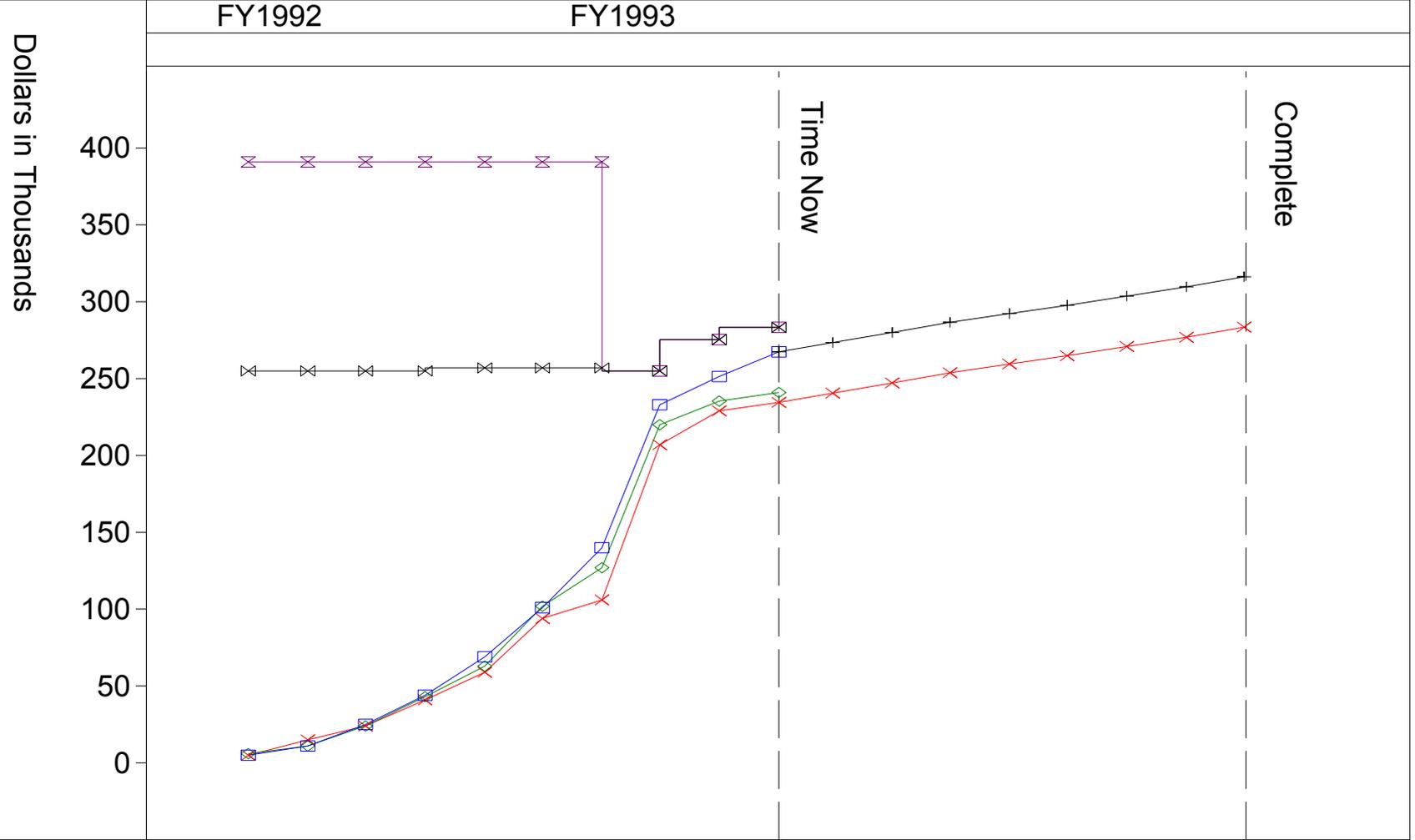
—x—	CUM	1.200	1.000	0.960	0.977	0.913	1.010	0.907	0.944	0.936	0.901
—◇—	CUR	1.200	0.833	0.929	1.000	0.800	1.219	0.641	1.000	0.837	0.350
—□—	TC-BAC	0.997	1.000	1.003	1.003	1.019	0.997	1.052	1.591	1.667	2.650
—x—	TC-LRE	1.540	1.557	1.596	1.649	1.745	1.853	2.256	1.591	1.667	2.650

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Cum Element Performance

Name: SYS ENGINEERING



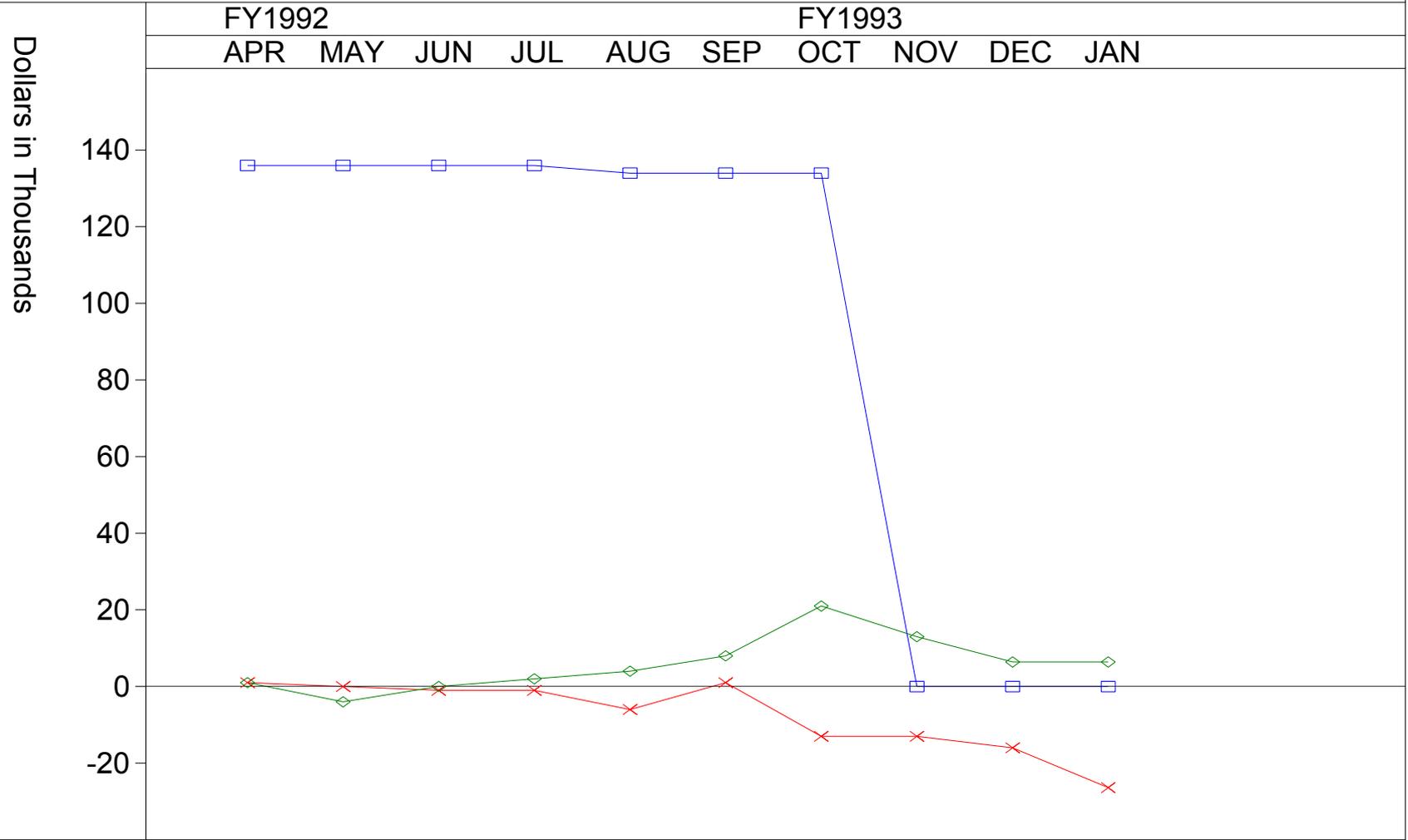
BCWS		234.6	BAC		283.4
BCWP		241.0	LRE		283.4
ACWP		267.4			
ETC		267.4			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Cumulative Variance

Name: SYS ENGINEERING



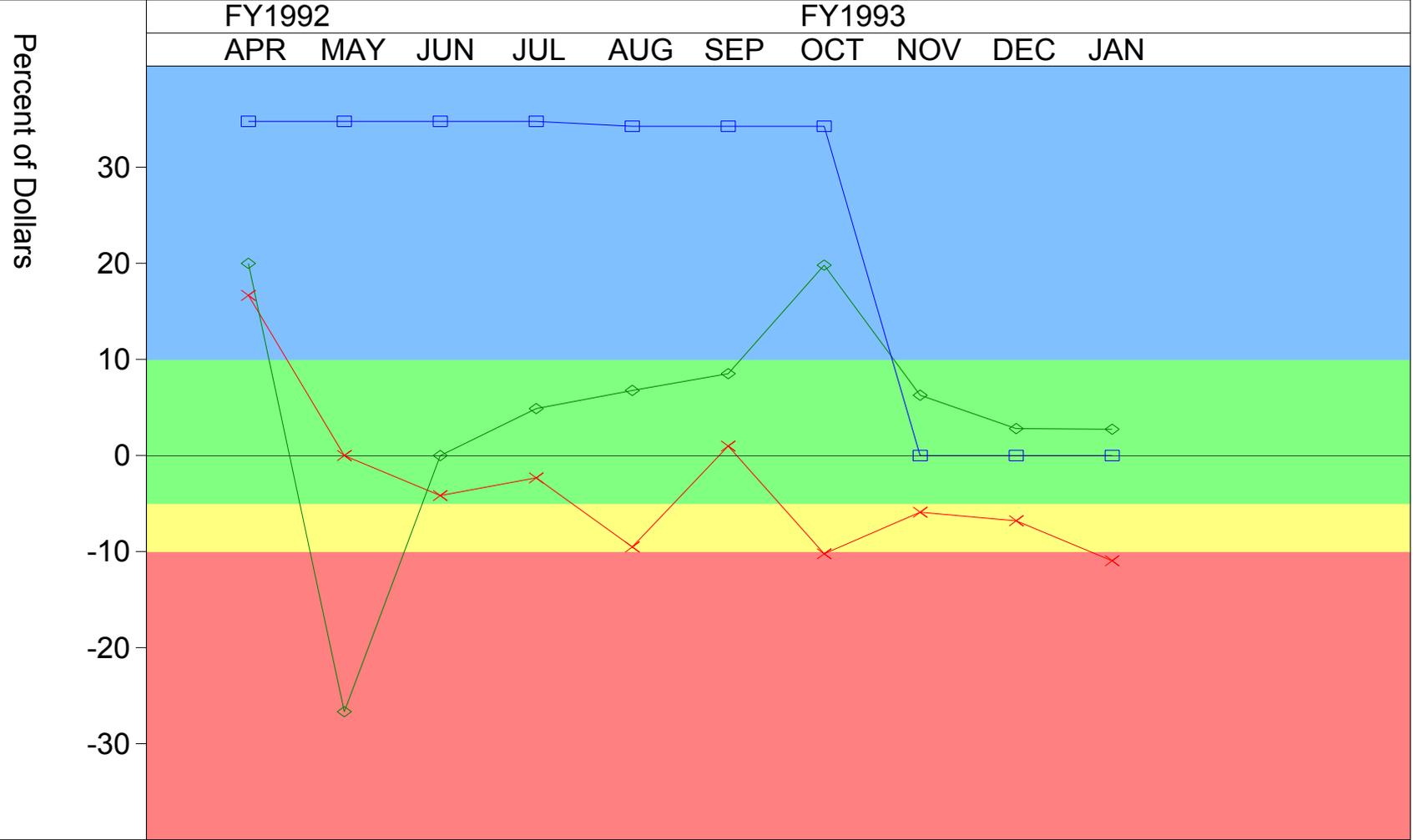
—x—	COST	1.0	0.0	-1.0	-1.0	-6.0	1.0	-13.0	-13.0	-16.0	-26.4
—◇—	SCHED	1.0	-4.0	0.0	2.0	4.0	8.0	21.0	13.0	6.4	6.4
—□—	VAC	136.0	136.0	136.0	136.0	134.0	134.0	134.0	0.0	0.0	0.0

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Cumulative Variance Percent

Name: SYS ENGINEERING



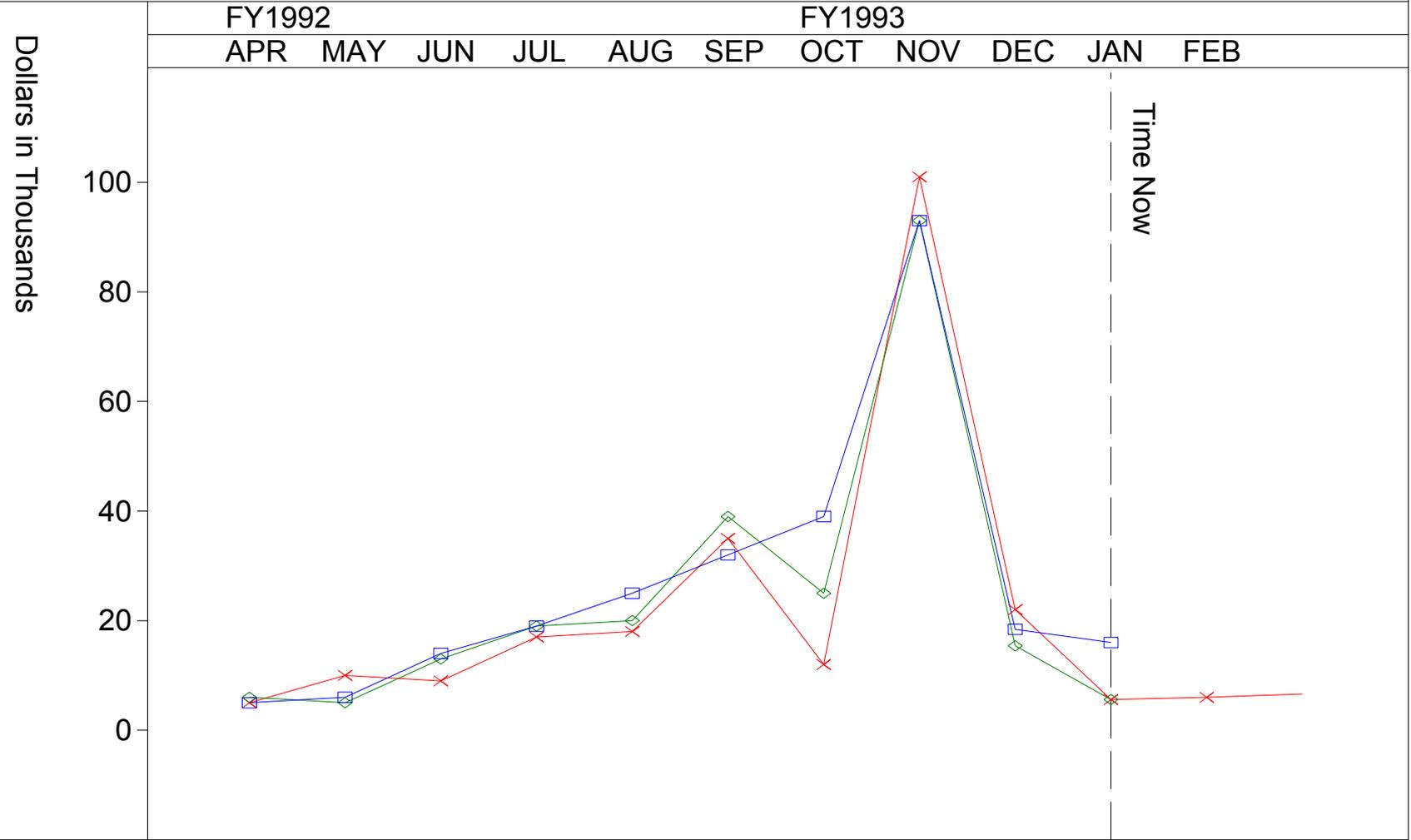
—x—	COST	16.67	0.00	-4.17	-2.33	-9.52	0.98	-10.24	-5.91	-6.80	-10.95
—◇—	SCHED	20.00	-26.67	0.00	4.88	6.78	8.51	19.81	6.28	2.79	2.73
—□—	VAC	34.78	34.78	34.78	34.78	34.27	34.27	34.27	0.00	0.00	0.00

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Cur Element Performance

Name: SYS ENGINEERING



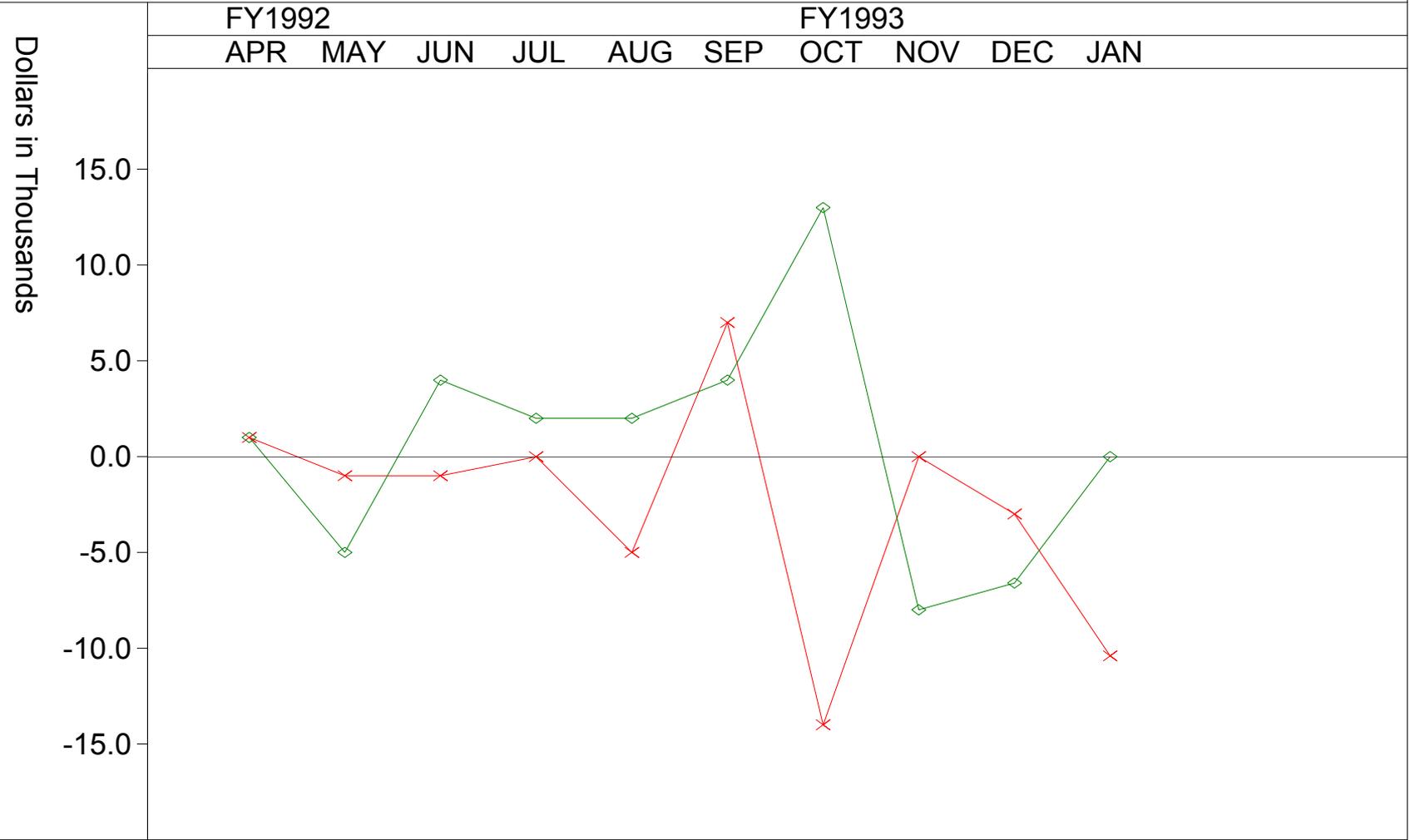
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
—x— BCWS	5.0	10.0	9.0	17.0	18.0	35.0	12.0	101.0	22.0	5.6	6.0
—◇— BCWP	6.0	5.0	13.0	19.0	20.0	39.0	25.0	93.0	15.4	5.6	
—□— ACWP	5.0	6.0	14.0	19.0	25.0	32.0	39.0	93.0	18.4	16.0	

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Current Variance

Name: SYS ENGINEERING



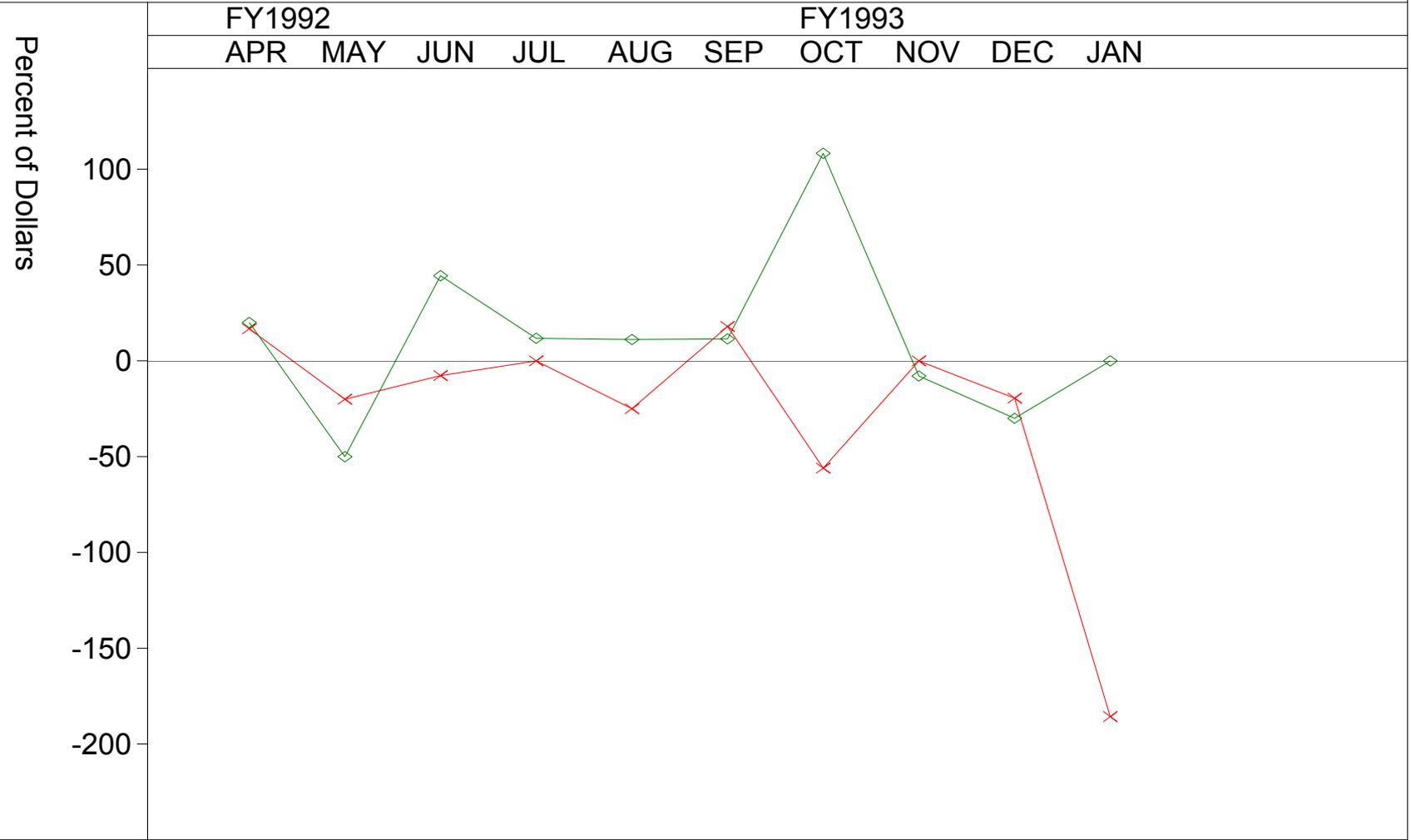
—x—	COST	1.00	-1.00	-1.00	0.00	-5.00	7.00	-14.00	0.00	-3.00	-10.40
—◇—	SCHED	1.00	-5.00	4.00	2.00	2.00	4.00	13.00	-8.00	-6.60	0.00

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Current Variance Percent

Name: SYS ENGINEERING



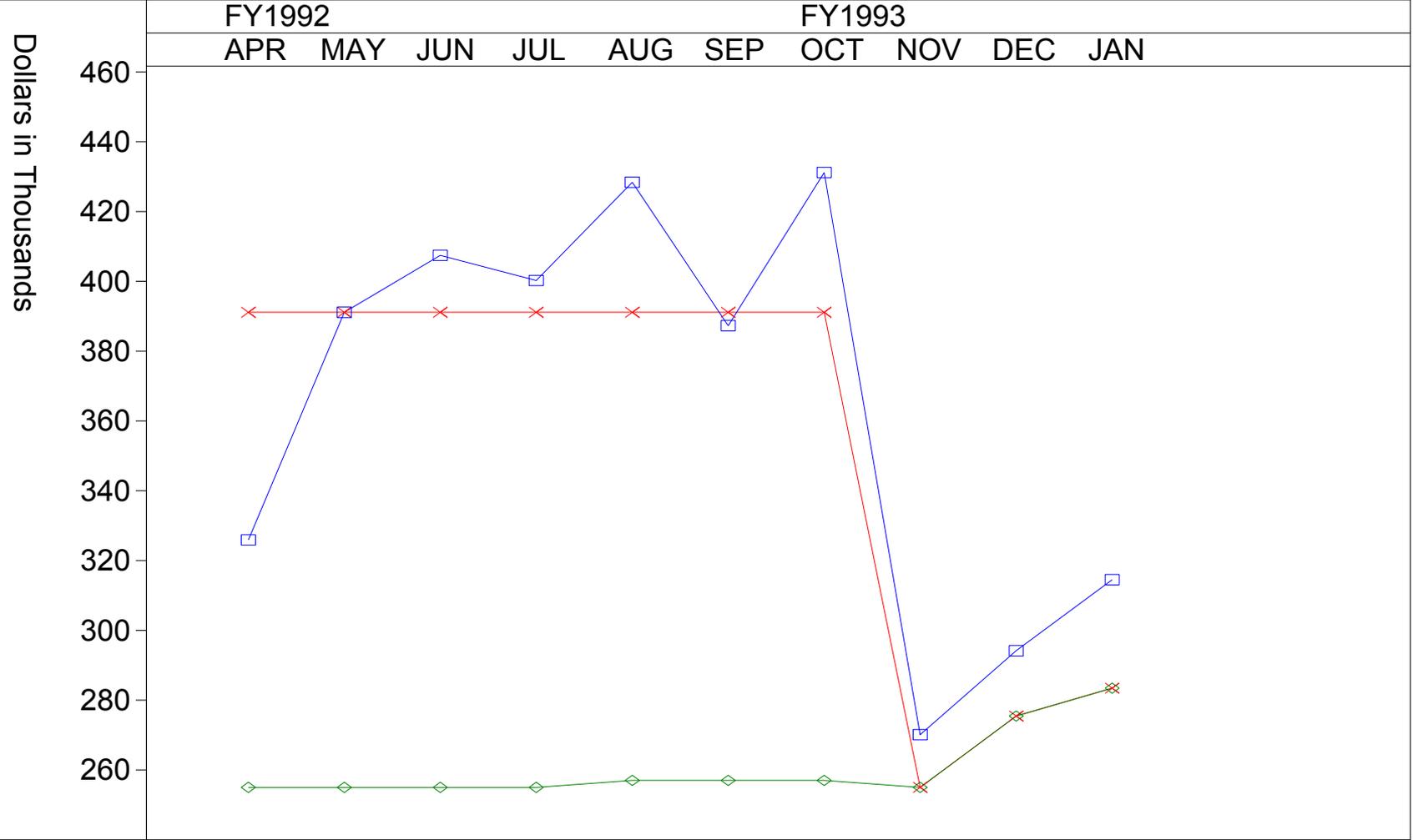
—x—	COST	16.67	-20.00	-7.69	0.00	-25.00	17.95	-56.00	0.00	-19.48	-185.71
—◇—	SCHED	20.00	-50.00	44.44	11.76	11.11	11.43	108.33	-7.92	-30.00	0.00

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Estimates at Completion

Name: SYS ENGINEERING



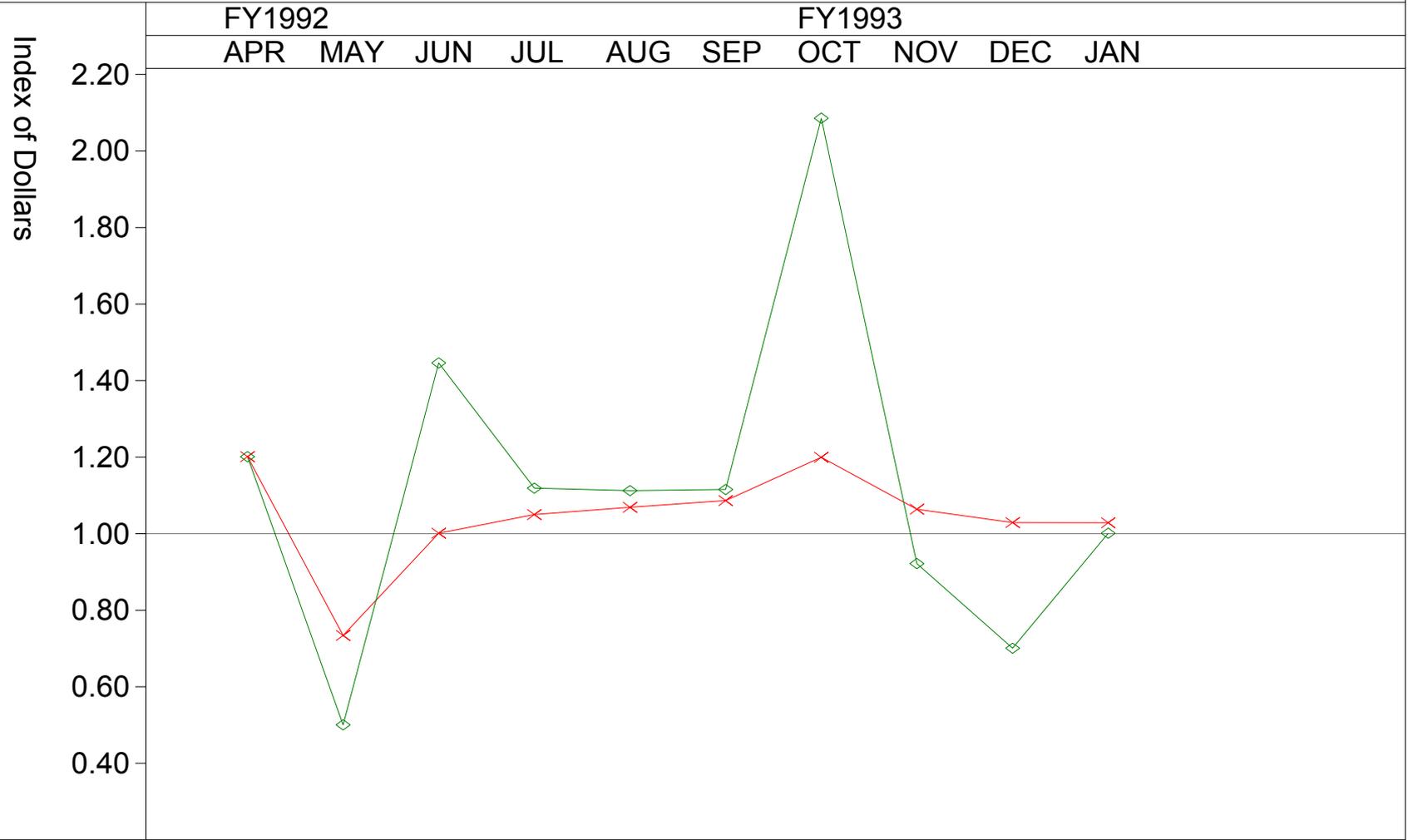
—x—	BAC	391.0	391.0	391.0	391.0	391.0	391.0	255.0	275.4	283.4	
—◇—	LRE	255.0	255.0	255.0	255.0	257.0	257.0	255.0	275.4	283.4	
—□—	CUM CP	25.8	391.0	407.3	400.1	428.2	387.2	431.0	270.1	294.1	314.4

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Schedule Performance Index

Name: SYS ENGINEERING



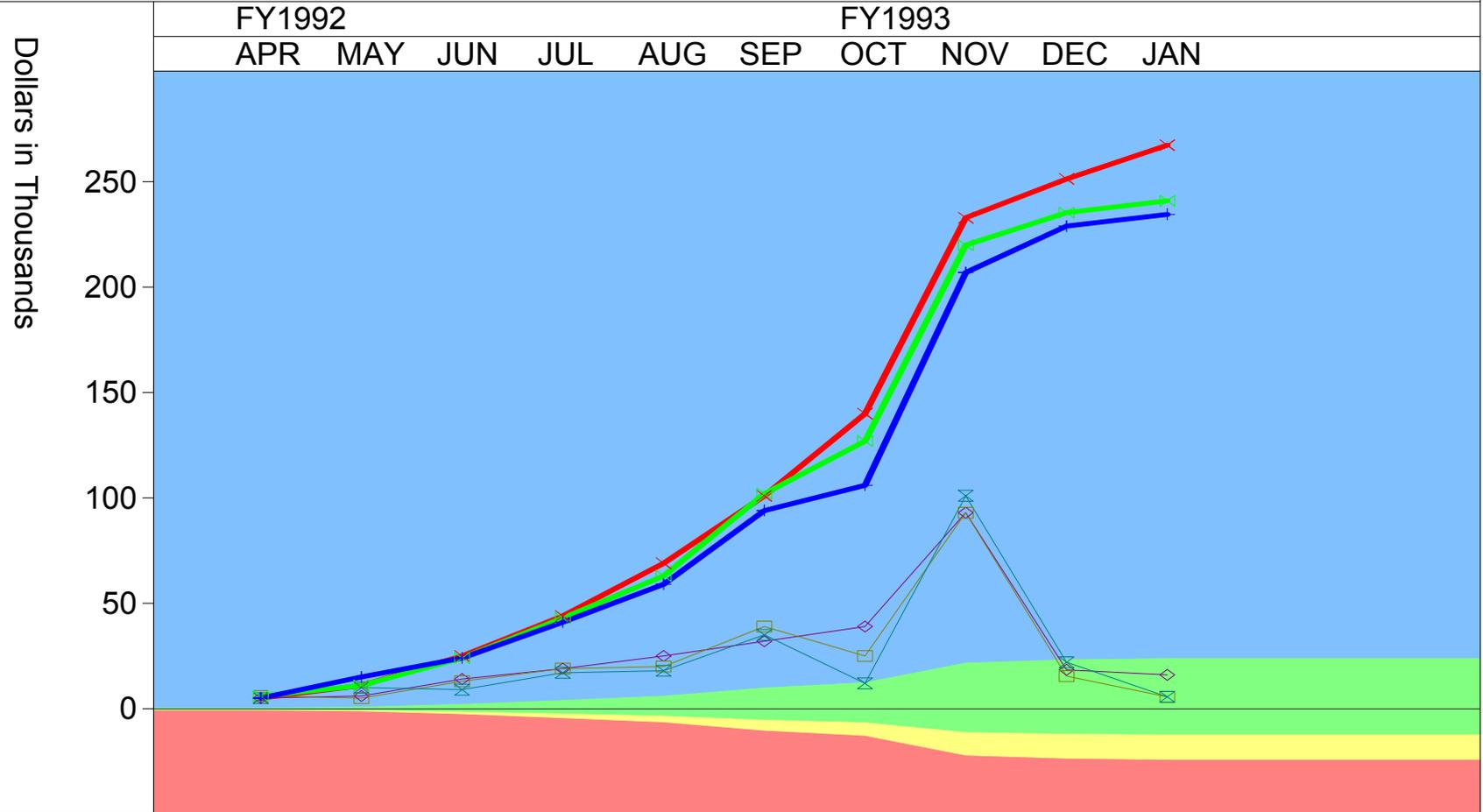
—x—	CUM	1.200	0.733	1.000	1.049	1.068	1.085	1.198	1.063	1.028	1.027
—◇—	CUR	1.200	0.500	1.444	1.118	1.111	1.114	2.083	0.921	0.700	1.000

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2200

Standard Earned Value

Name: SYS ENGINEERING



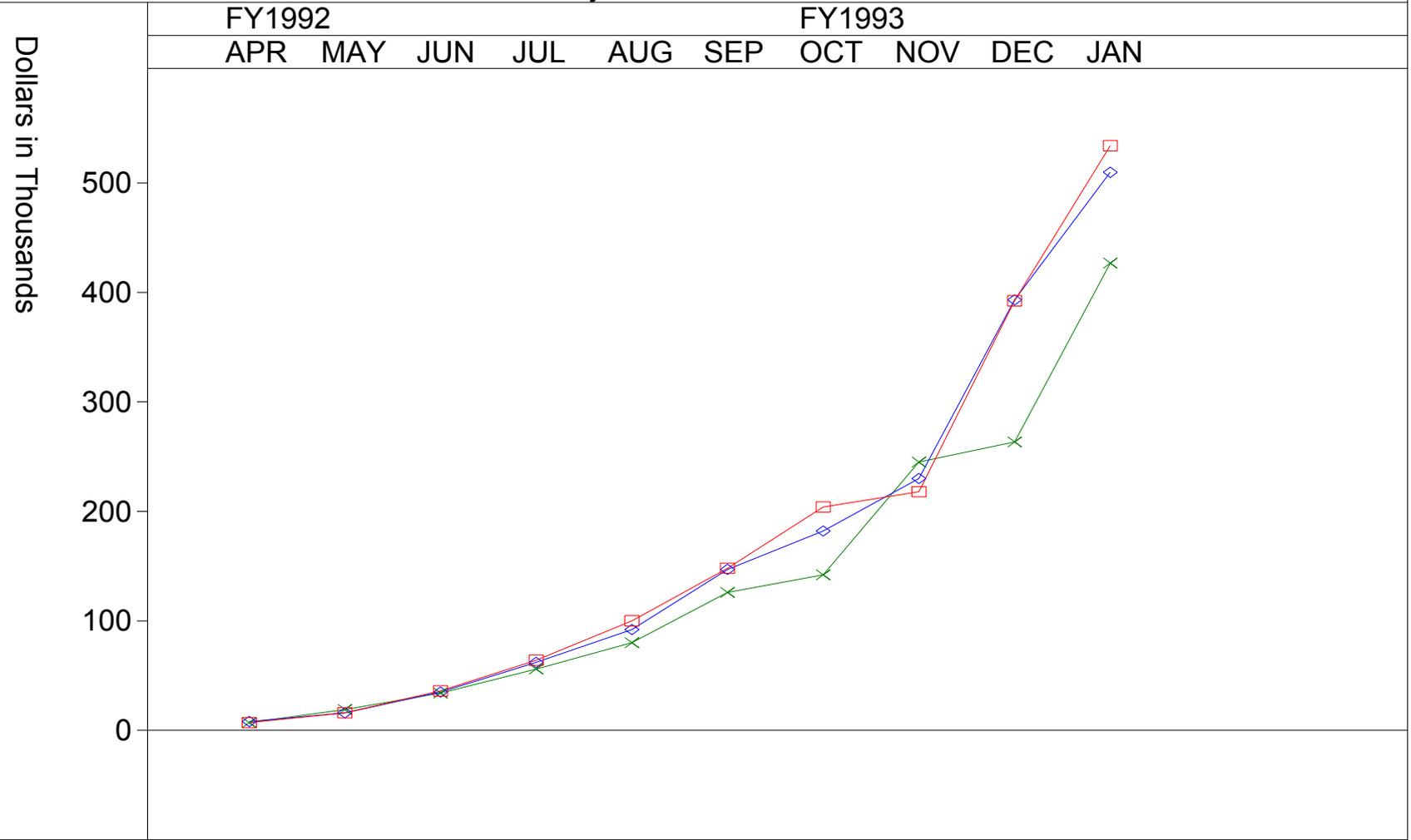
ACWPCUM5.0	11.0	25.0	44.0	69.0	101.0	140.0	233.0	251.4	267.4
ACWPCUR5.0	6.0	14.0	19.0	25.0	32.0	39.0	93.0	18.4	16.0
BCWPCUR6.0	5.0	13.0	19.0	20.0	39.0	25.0	93.0	15.4	5.6
BCWSCUR5.0	10.0	9.0	17.0	18.0	35.0	12.0	101.0	22.0	5.6
BCWPCUM6.0	11.0	24.0	43.0	63.0	102.0	127.0	220.0	235.4	241.0
BCWSCUM5.0	15.0	24.0	41.0	59.0	94.0	106.0	207.0	229.0	234.6

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3800

Adjusted Snake Chart

Name: I & A

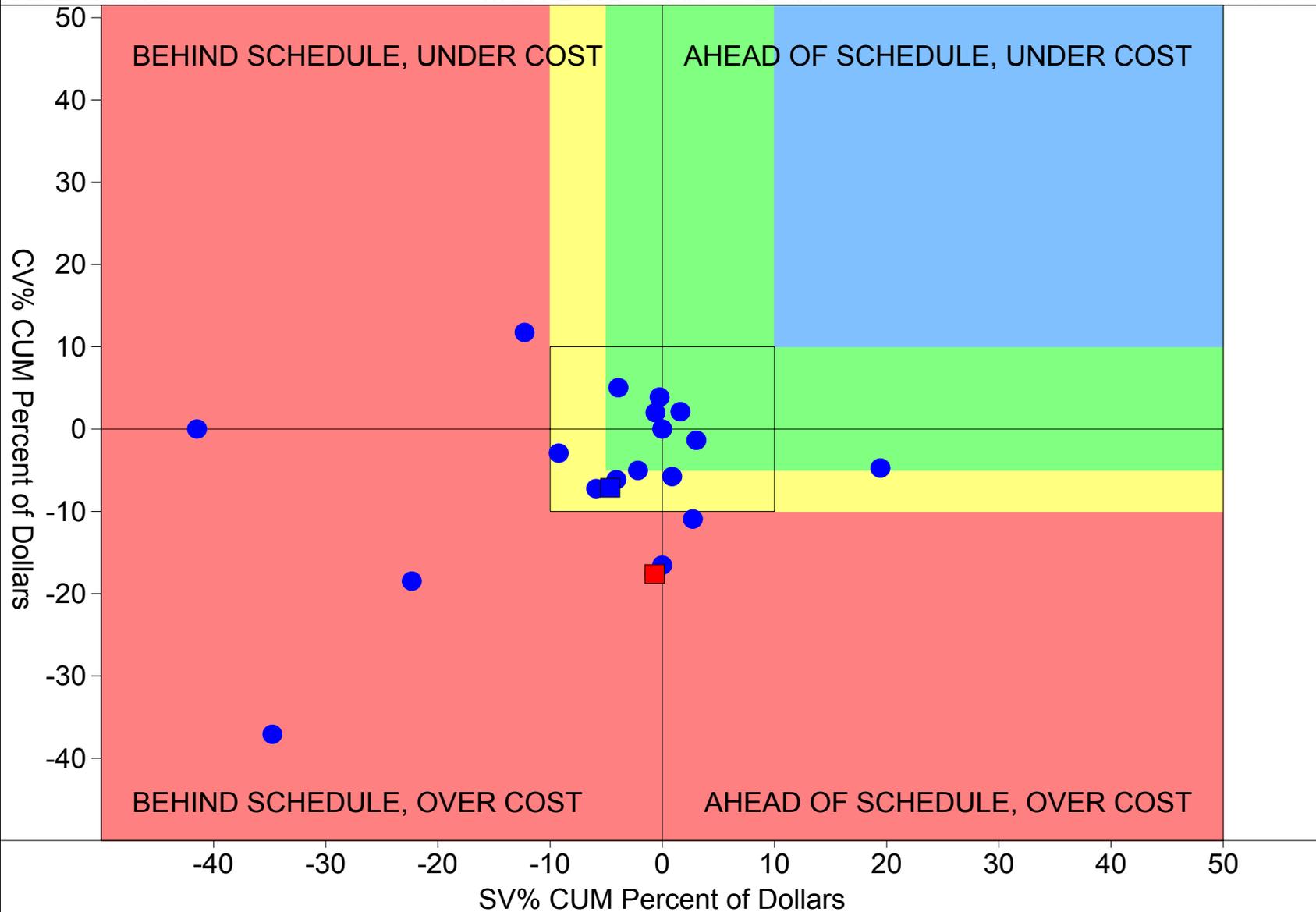


	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
—x— BCWSADJ 7.0	19.0	34.0	56.0	80.0	126.0	142.0	245.0	263.4	426.8	
—◇— BCWPADJ 8.0	16.0	35.0	62.0	92.0	147.0	182.0	230.0	393.2	509.8	
—□— ACWPADJ 7.0	16.0	36.0	64.0	100.0	148.0	204.0	218.0	392.4	534.0	

Filter (Lowest)
All Elements

Aggregate Bull's-eye Chart
MOH-2 WBS JAN 93 Dollars

Highlight (Description)
PCC

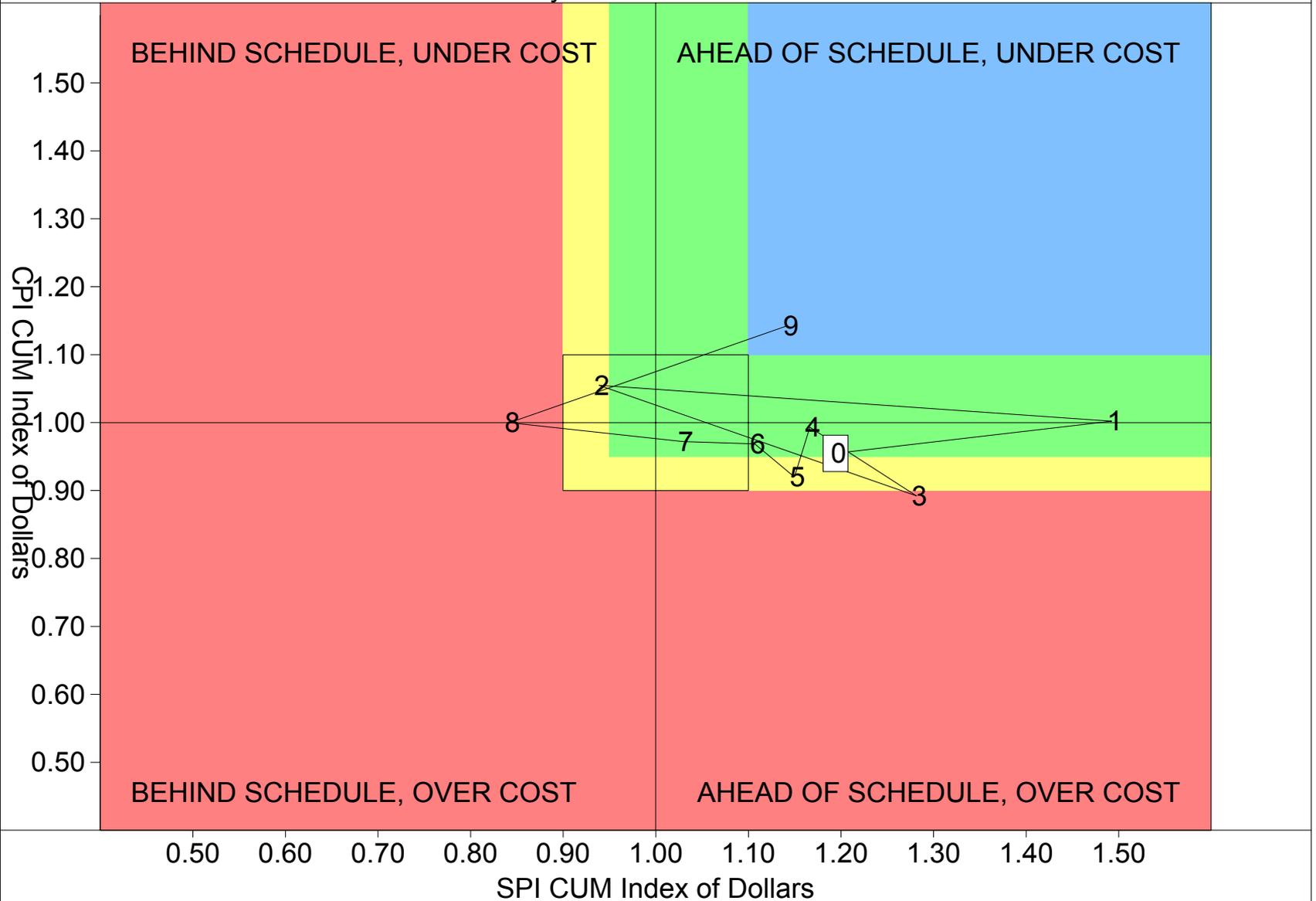


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3800

Bull's-eye Chart - As of: JAN 93

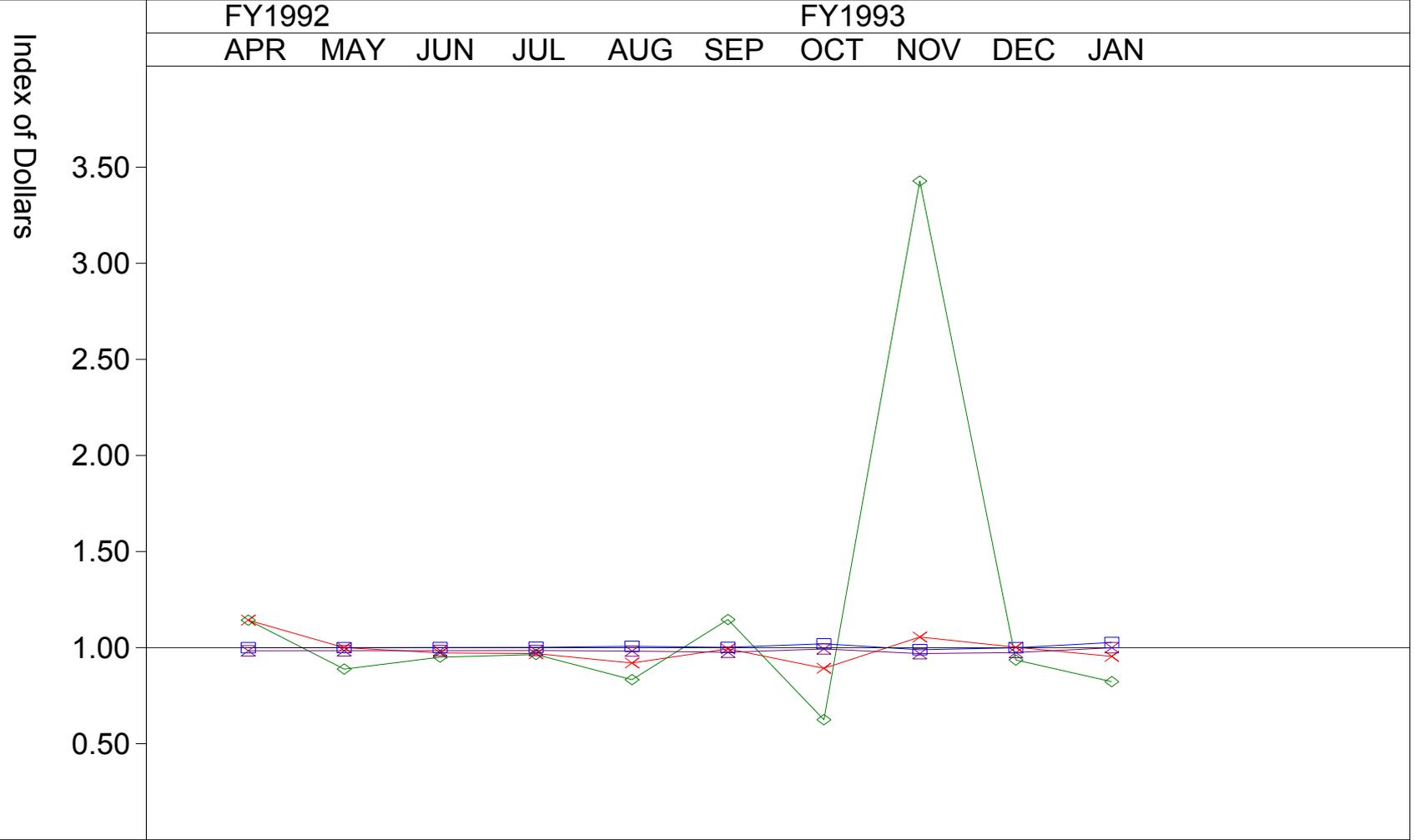
Name: I & A



MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR
 Cost Performance Index

Element: 3800

Name: I & A



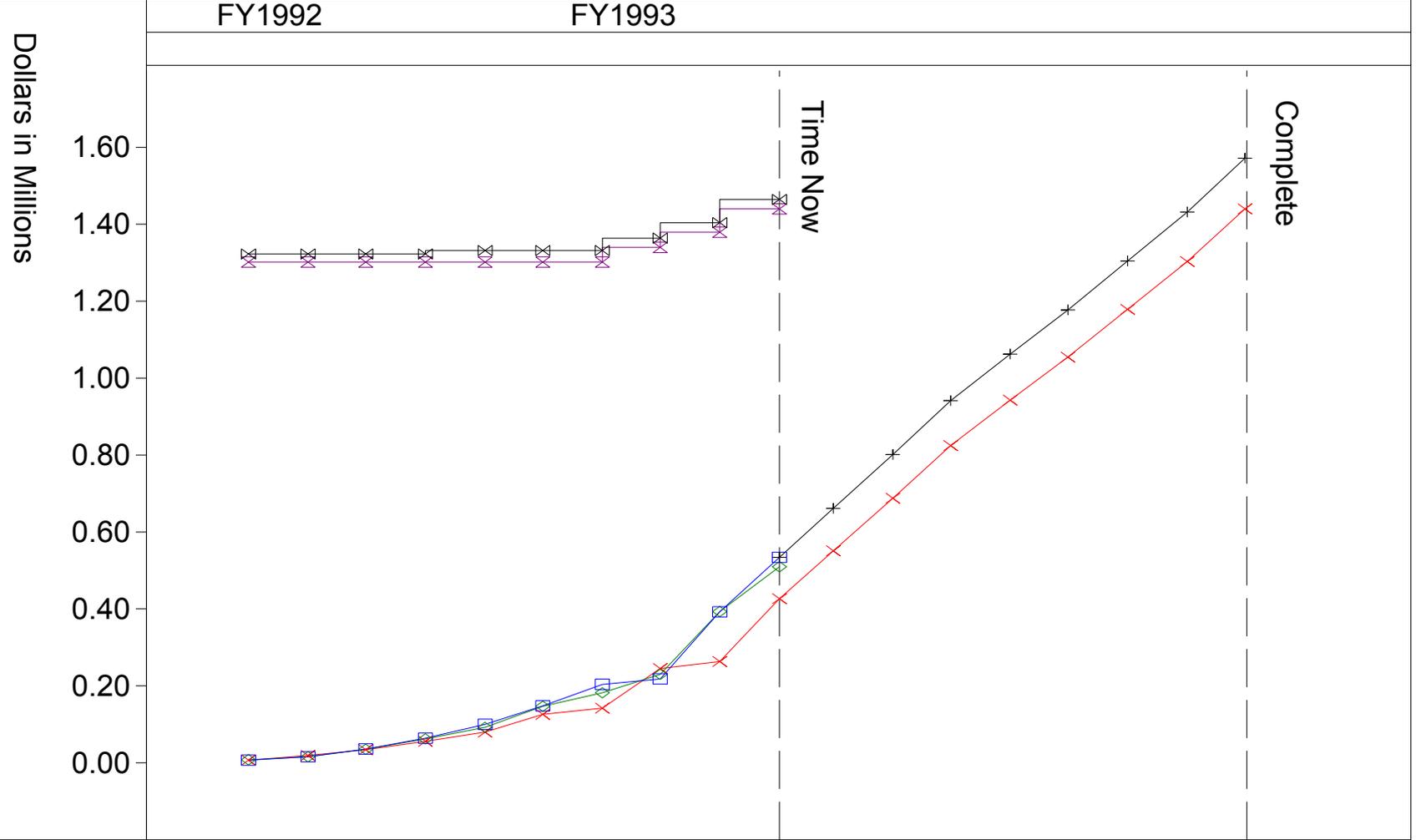
—x—	CUM	1.143	1.000	0.972	0.969	0.920	0.993	0.892	1.055	1.002	0.955
—◇—	CUR	1.143	0.889	0.950	0.964	0.833	1.146	0.625	3.429	0.936	0.823
—□—	TC-BAC	0.999	1.000	1.001	1.002	1.007	1.001	1.020	0.989	0.999	1.027
—x—	TC-LRE	0.983	0.984	0.984	0.985	0.982	0.976	0.993	0.969	0.975	0.999

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3800

Cum Element Performance

Name: I & A



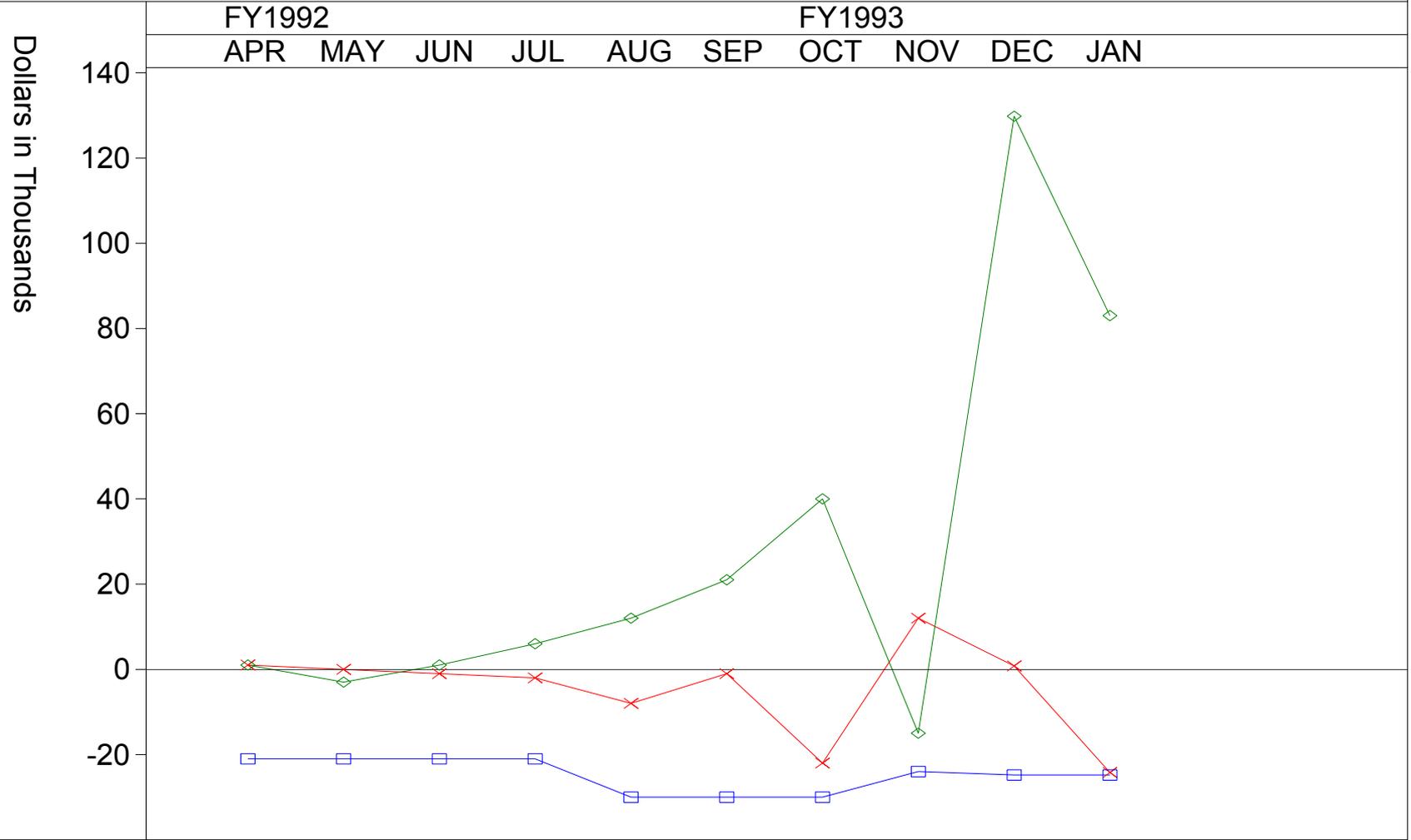
BCWS	— x —	0.427	BAC	— x —	1.440
BCWP	— ◇ —	0.510	LRE	— x —	1.465
ACWP	— □ —	0.534			
ETC	— + —	0.534			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3800

Cumulative Variance

Name: I & A



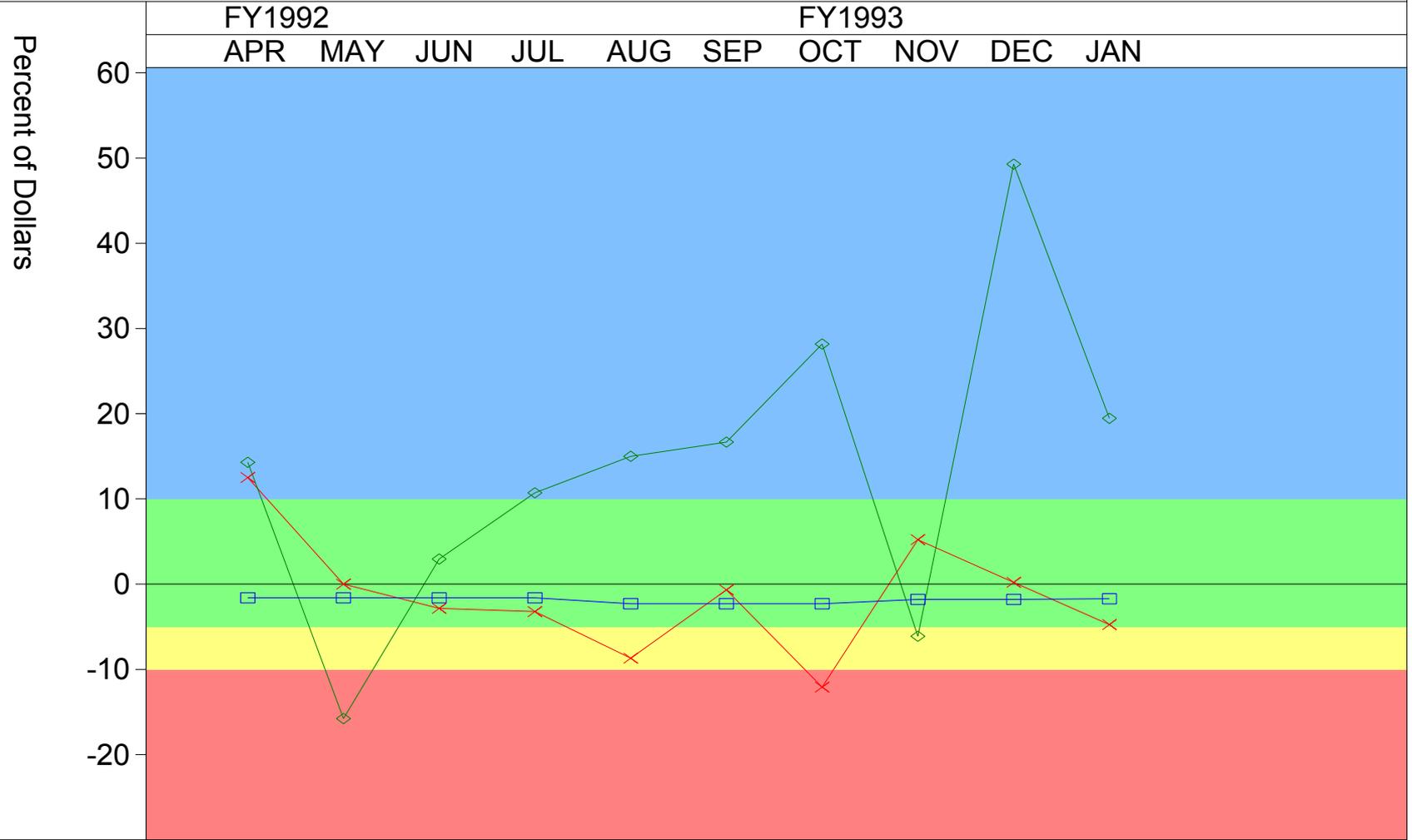
—x—	COST	1.0	0.0	-1.0	-2.0	-8.0	-1.0	-22.0	12.0	0.8	-24.2
—◇—	SCHED	1.0	-3.0	1.0	6.0	12.0	21.0	40.0	-15.0	129.8	83.0
—□—	VAC	-21.0	-21.0	-21.0	-21.0	-30.0	-30.0	-30.0	-24.0	-24.8	-24.8

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3800

Cumulative Variance Percent

Name: I & A



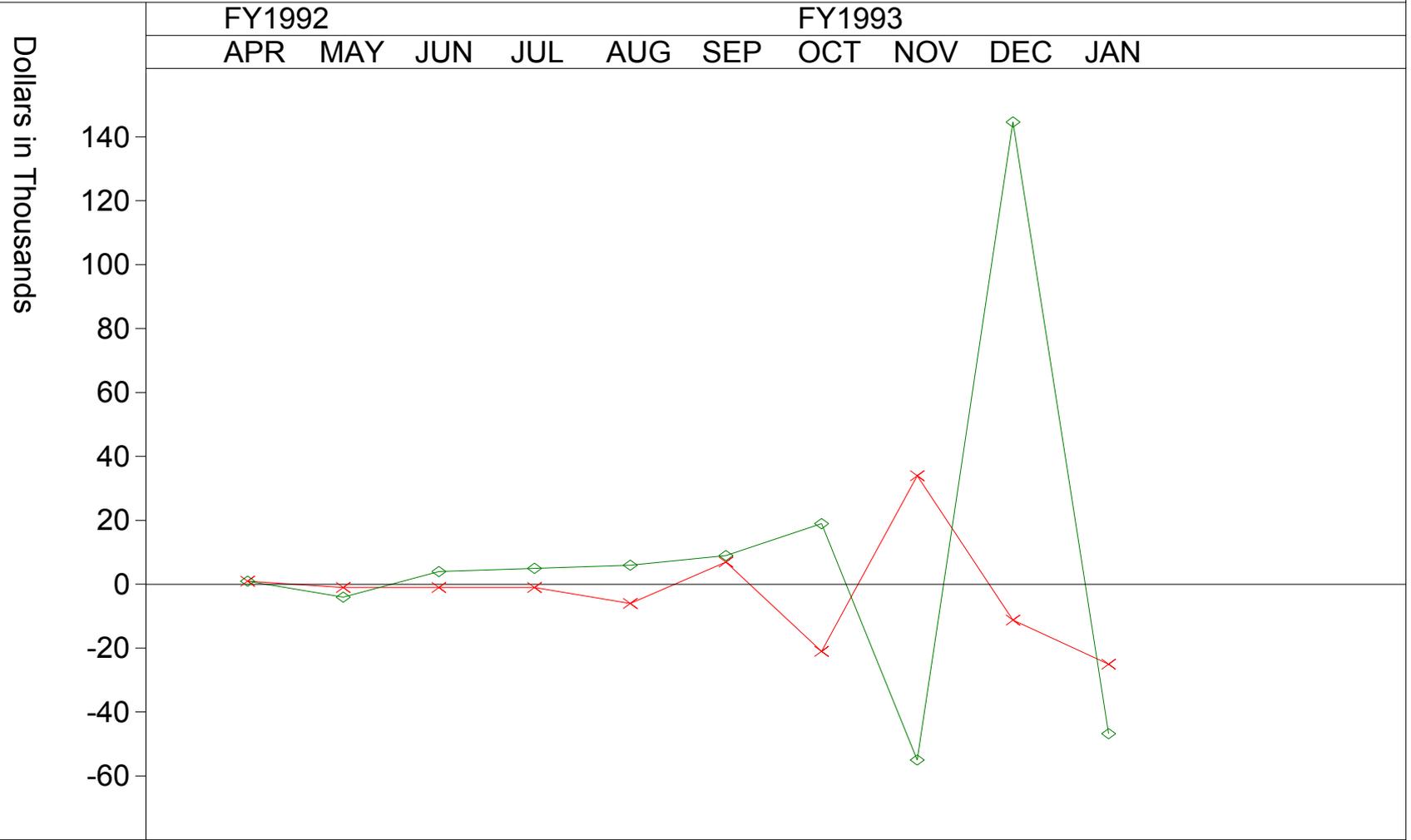
—x—	COST	12.50	0.00	-2.86	-3.23	-8.70	-0.68	-12.09	5.22	0.20	-4.75
—◇—	SCHED	14.29	-15.79	2.94	10.71	15.00	16.67	28.17	-6.12	49.28	19.45
—□—	VAC	-1.61	-1.61	-1.61	-1.61	-2.30	-2.30	-2.30	-1.79	-1.80	-1.72

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3800

Current Variance

Name: I & A



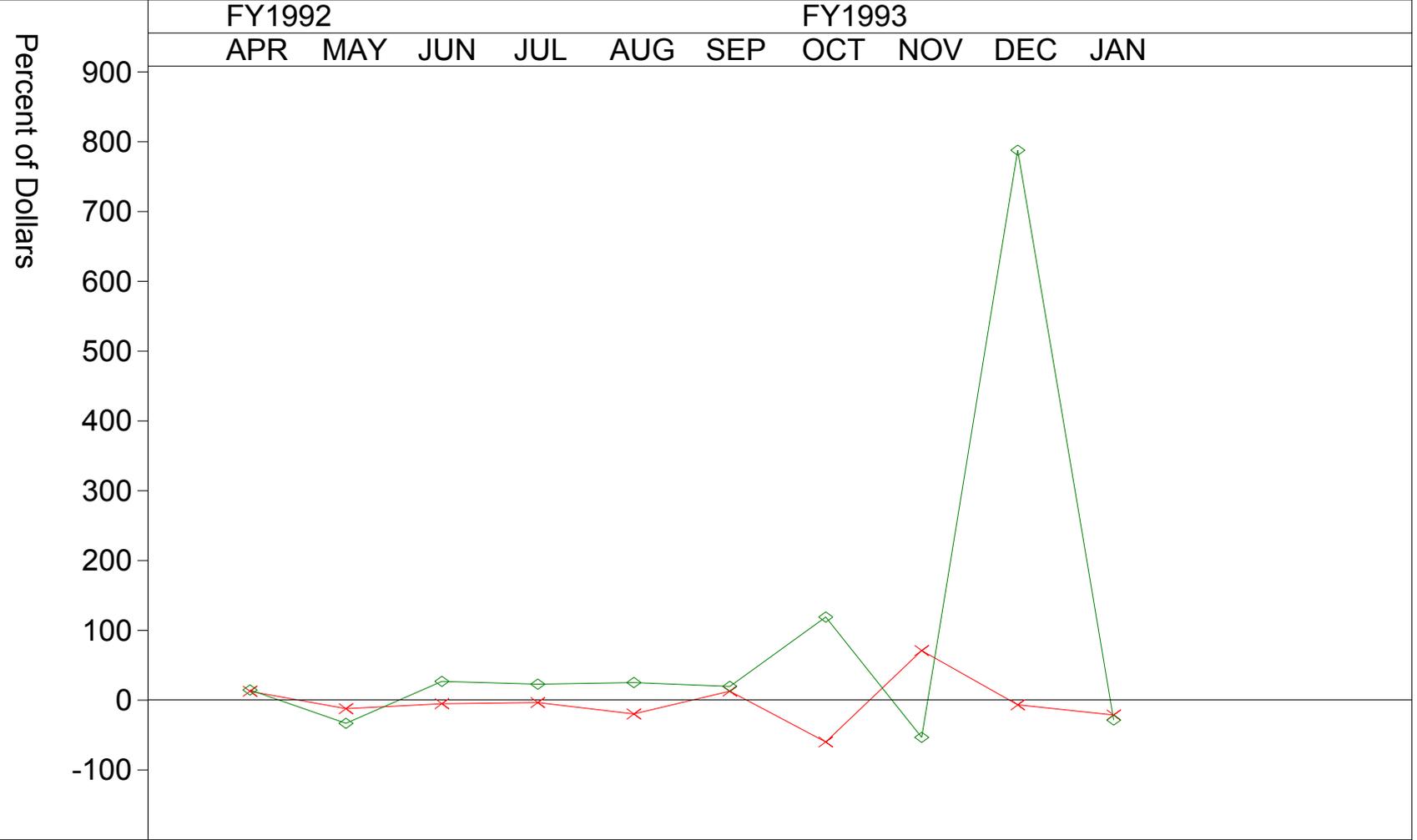
—x—	COST	1.0	-1.0	-1.0	-1.0	-6.0	7.0	-21.0	34.0	-11.2	-25.0
—◇—	SCHED	1.0	-4.0	4.0	5.0	6.0	9.0	19.0	-55.0	144.8	-46.8

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3800

Current Variance Percent

Name: I & A

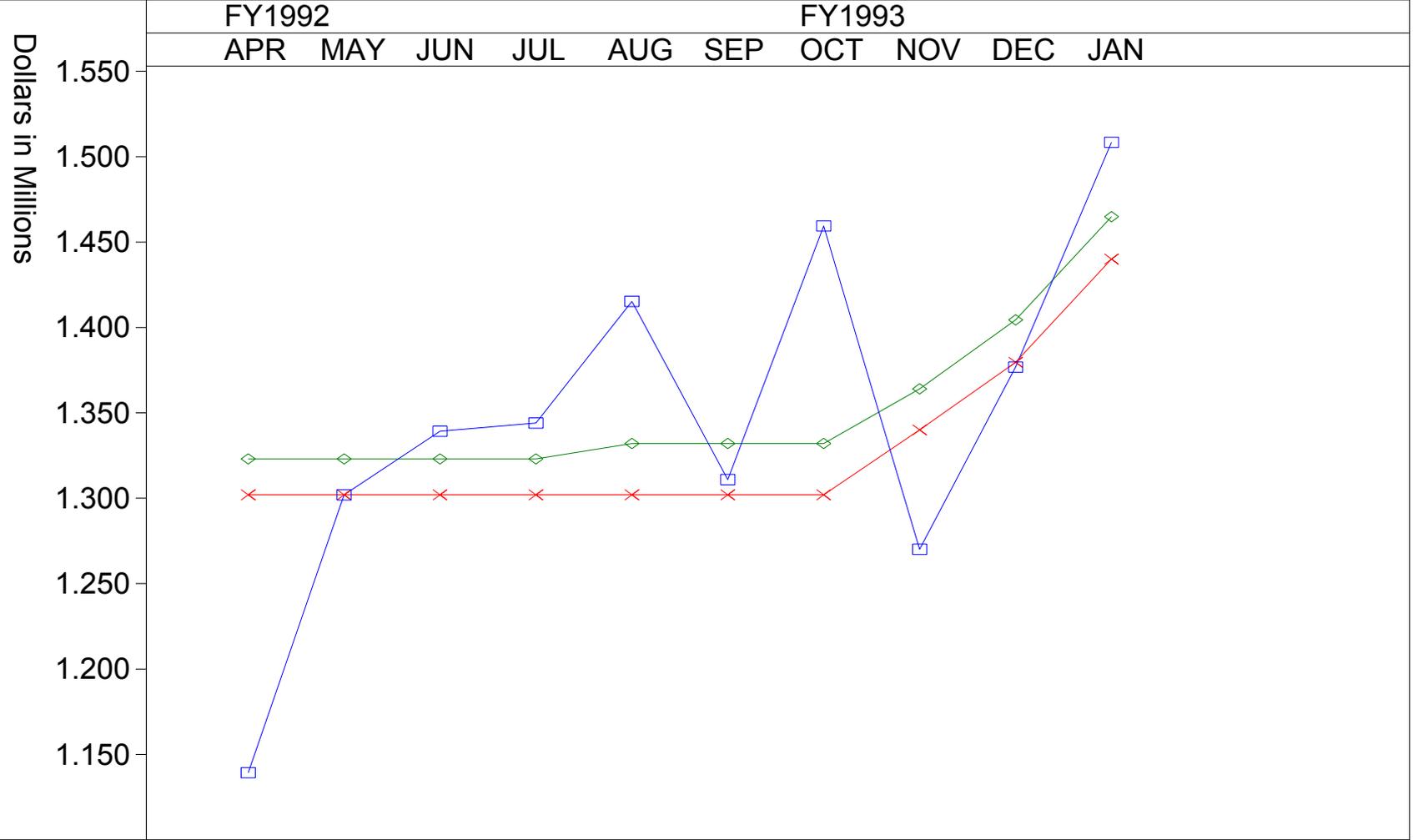


—x—	COST	12.50	-12.50	-5.26	-3.70	-20.00	12.73	-60.00	70.83	-6.86	-21.44
—◇—	SCHED	14.29	-33.33	26.67	22.73	25.00	19.57	118.75	-53.40	786.96	-28.64

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR
Estimates at Completion

Element: 3800

Name: I & A



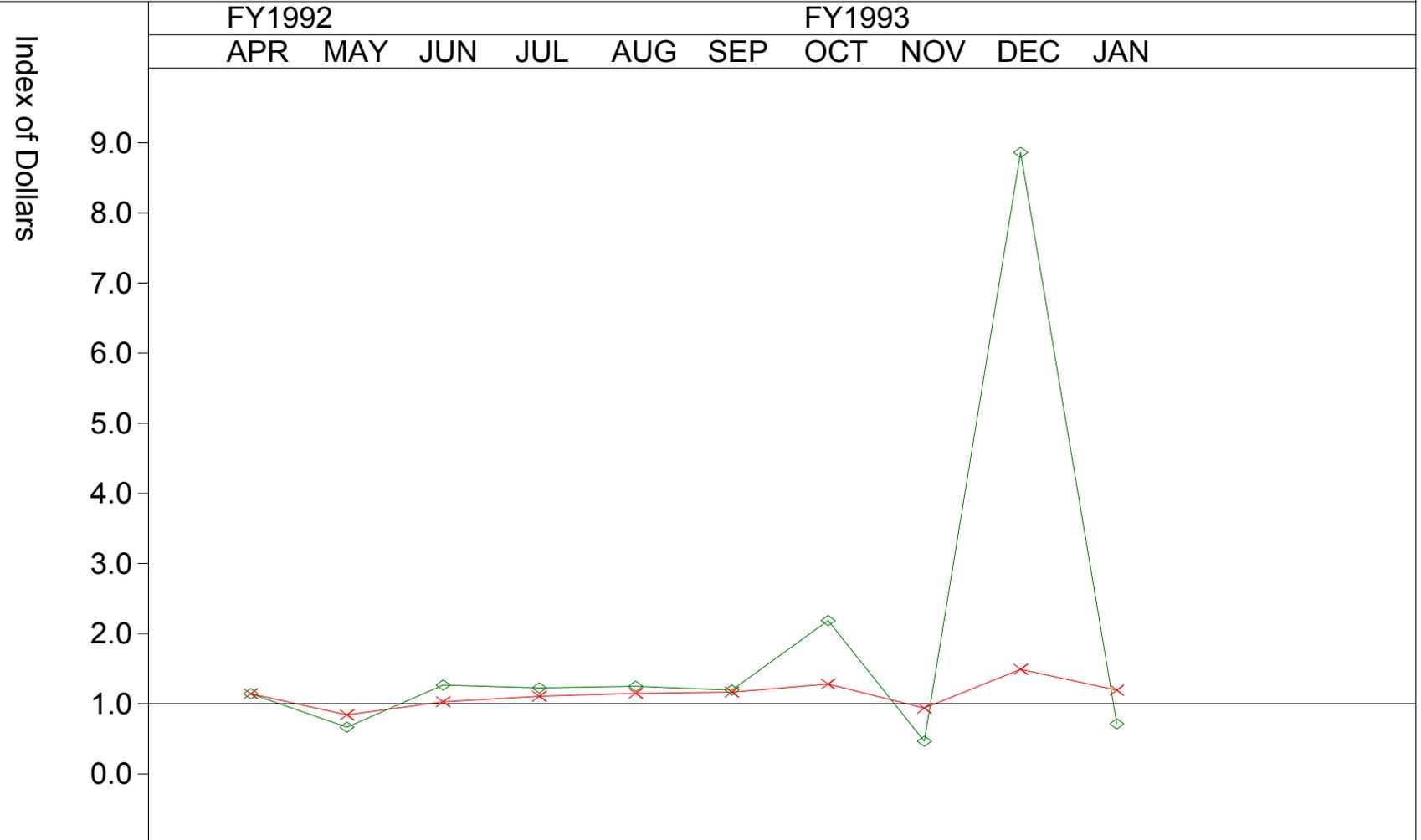
—x—	BAC	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.340	1.380	1.440
—◇—	LRE	1.323	1.323	1.323	1.323	1.332	1.332	1.332	1.364	1.404	1.465
—□—	CUM CPI	1.139	1.302	1.339	1.344	1.415	1.311	1.459	1.270	1.377	1.508

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3800

Schedule Performance Index

Name: I & A

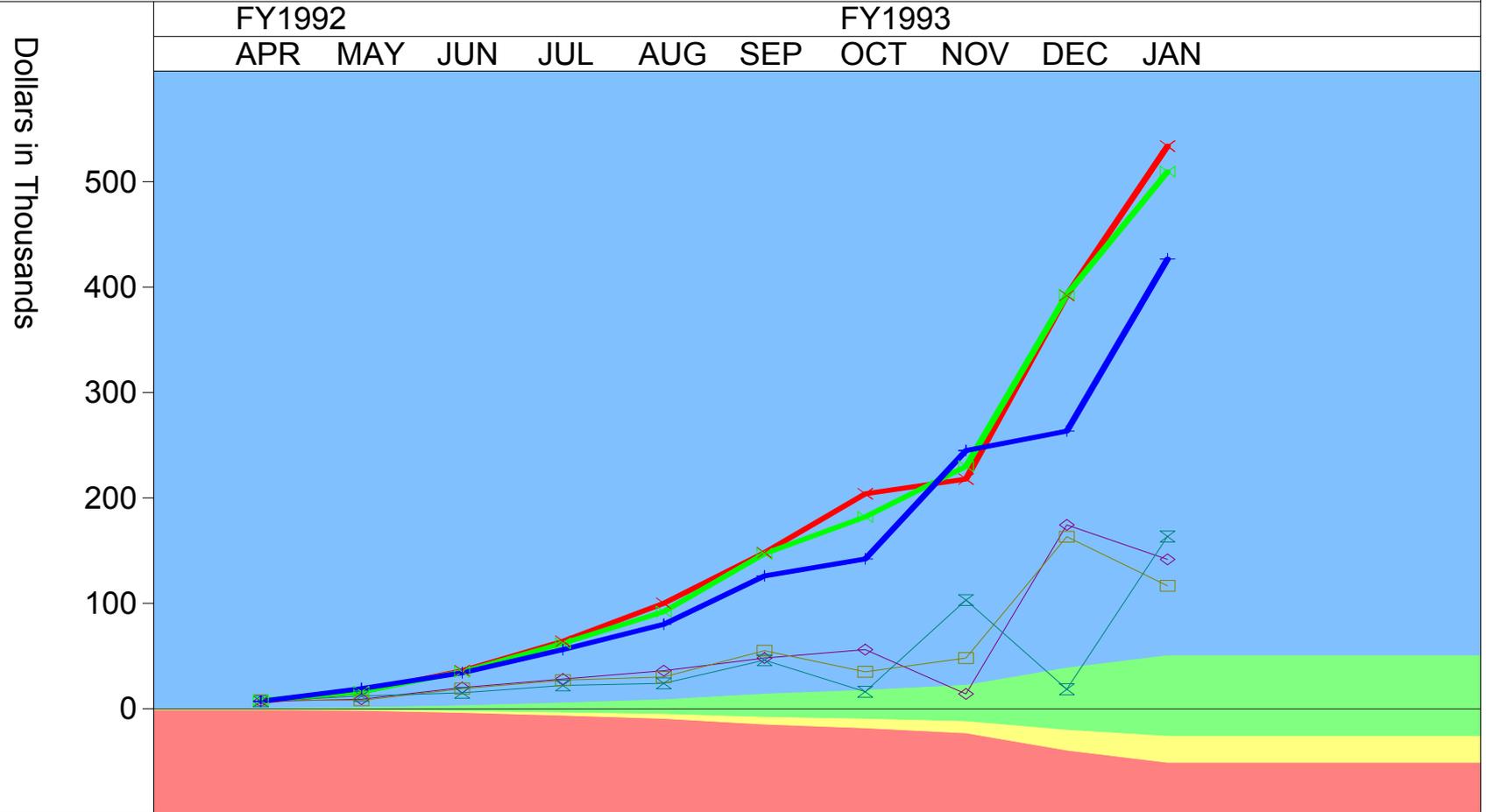


—x— CUM	1.143	0.842	1.029	1.107	1.150	1.167	1.282	0.939	1.493	1.194
—◇— CUR	1.143	0.667	1.267	1.227	1.250	1.196	2.188	0.466	8.870	0.714

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR
Standard Earned Value

Element: 3800

Name: I & A



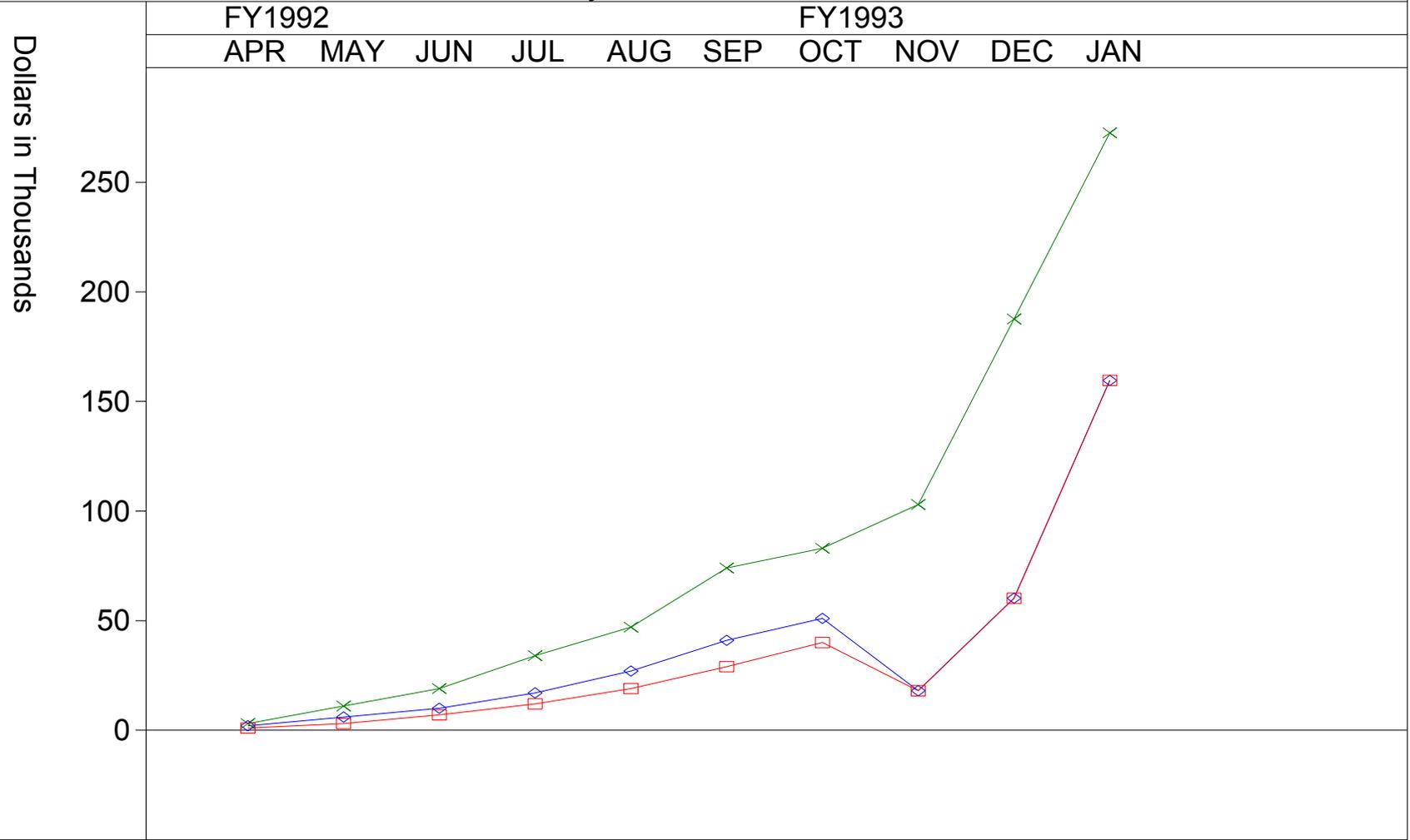
—x—	ACWPCUM7.0	7.0	16.0	36.0	64.0	100.0	148.0	204.0	218.0	392.4	534.0
—◇—	ACWPCUR7.0	7.0	9.0	20.0	28.0	36.0	48.0	56.0	14.0	174.4	141.6
—□—	BCWPCUR8.0	8.0	8.0	19.0	27.0	30.0	55.0	35.0	48.0	163.2	116.6
—x—	BCWSCUR7.0	7.0	12.0	15.0	22.0	24.0	46.0	16.0	103.0	18.4	163.4
—x—	BCWPCUM8.0	8.0	16.0	35.0	62.0	92.0	147.0	182.0	230.0	393.2	509.8
—+—	BCWSCUM7.0	7.0	19.0	34.0	56.0	80.0	126.0	142.0	245.0	263.4	426.8

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Adjusted Snake Chart

Name: DATA DISPLAY

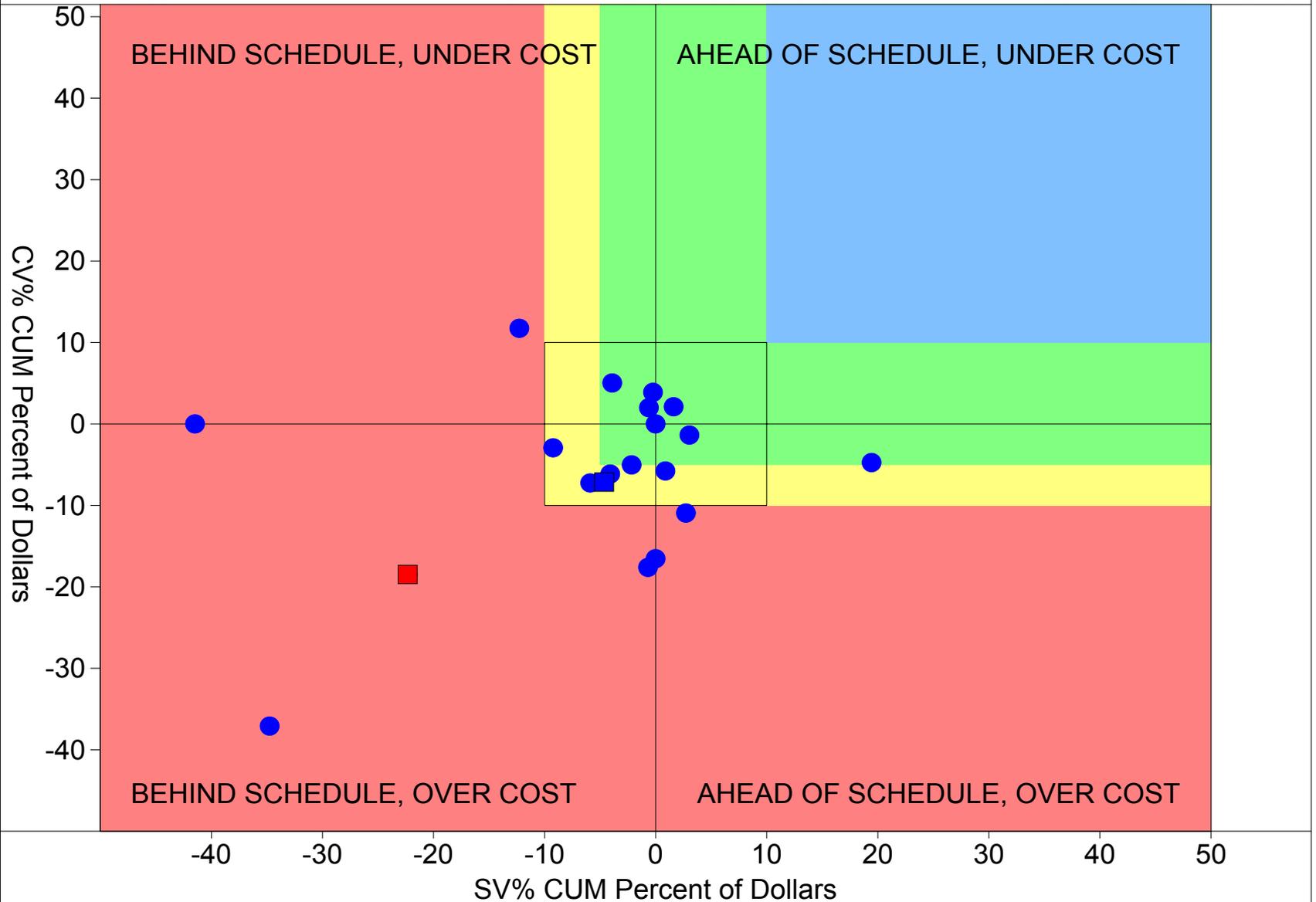


	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
BCWSADJ 3.0	11.0	19.0	34.0	47.0	74.0	83.0	103.0	187.6	272.6	
BCWPADJ 2.0	6.0	10.0	17.0	27.0	41.0	51.0	18.0	60.2	159.6	
ACWPADJ 1.0	3.0	7.0	12.0	19.0	29.0	40.0	18.0	60.2	159.6	

Filter (Lowest)
All Elements

Aggregate Bull's-eye Chart
MOH-2 WBS JAN 93 Dollars

Highlight (Description)
COMMUNICATIONS

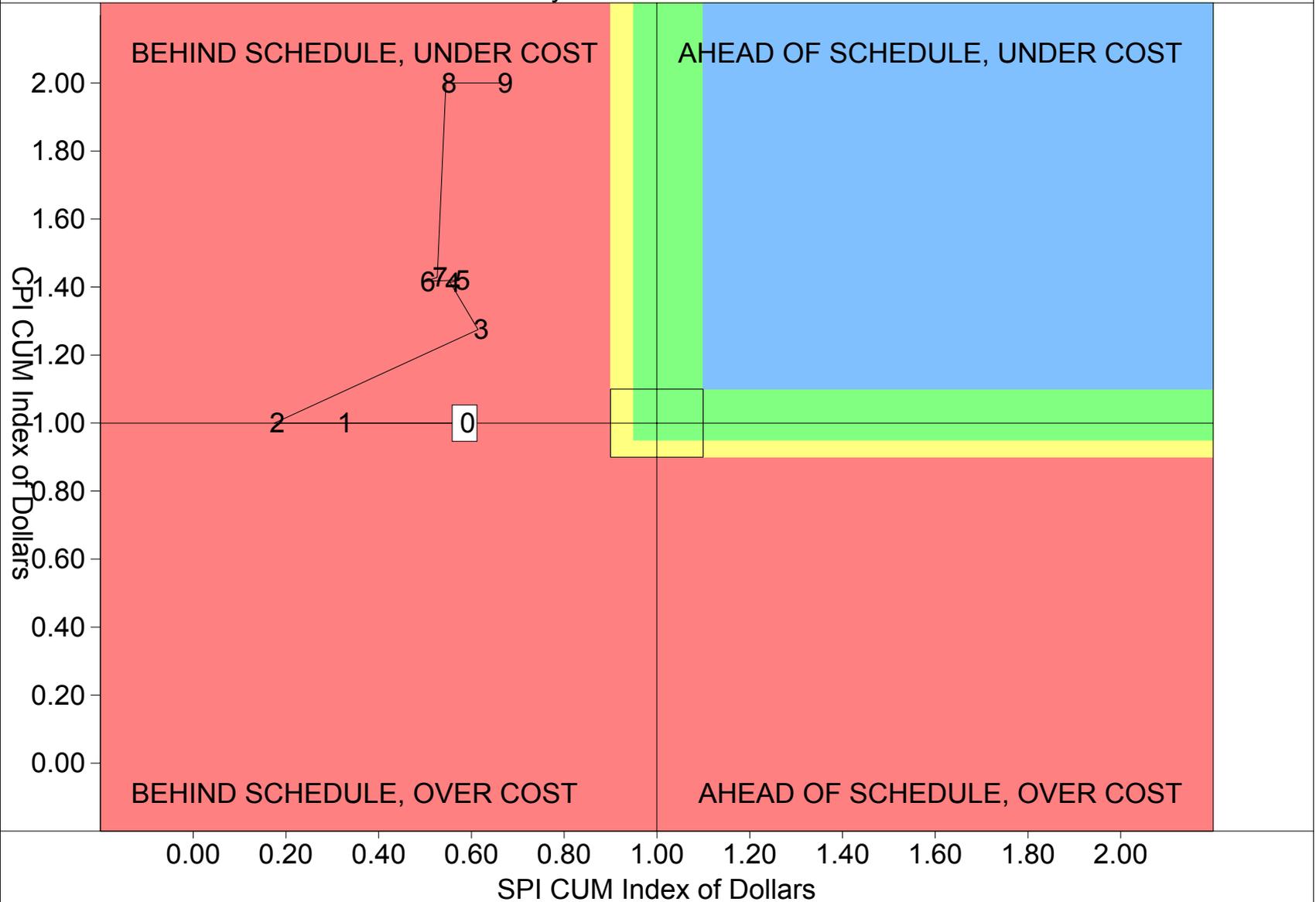


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Bull's-eye Chart - As of: JAN 93

Name: DATA DISPLAY

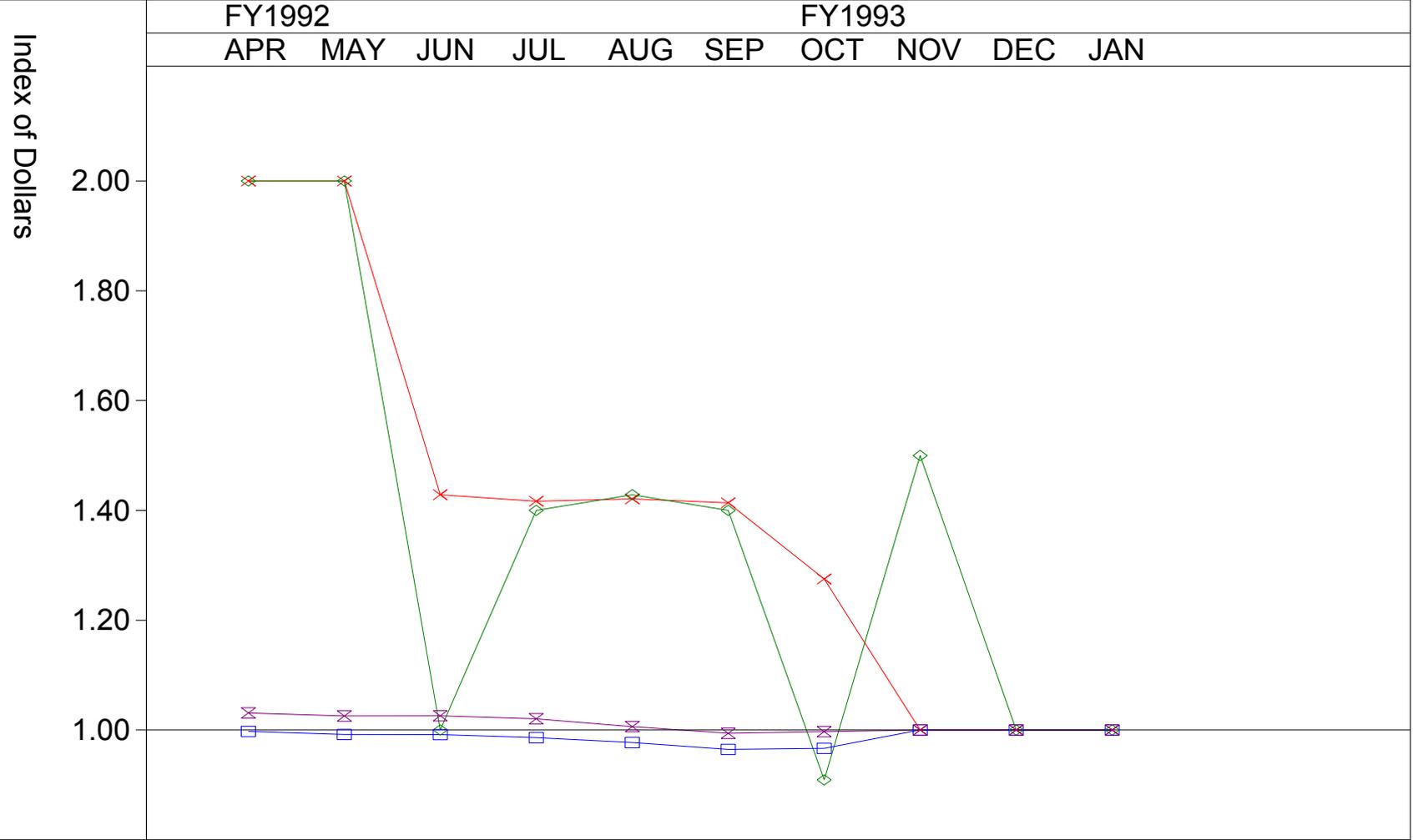


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Cost Performance Index

Name: DATA DISPLAY



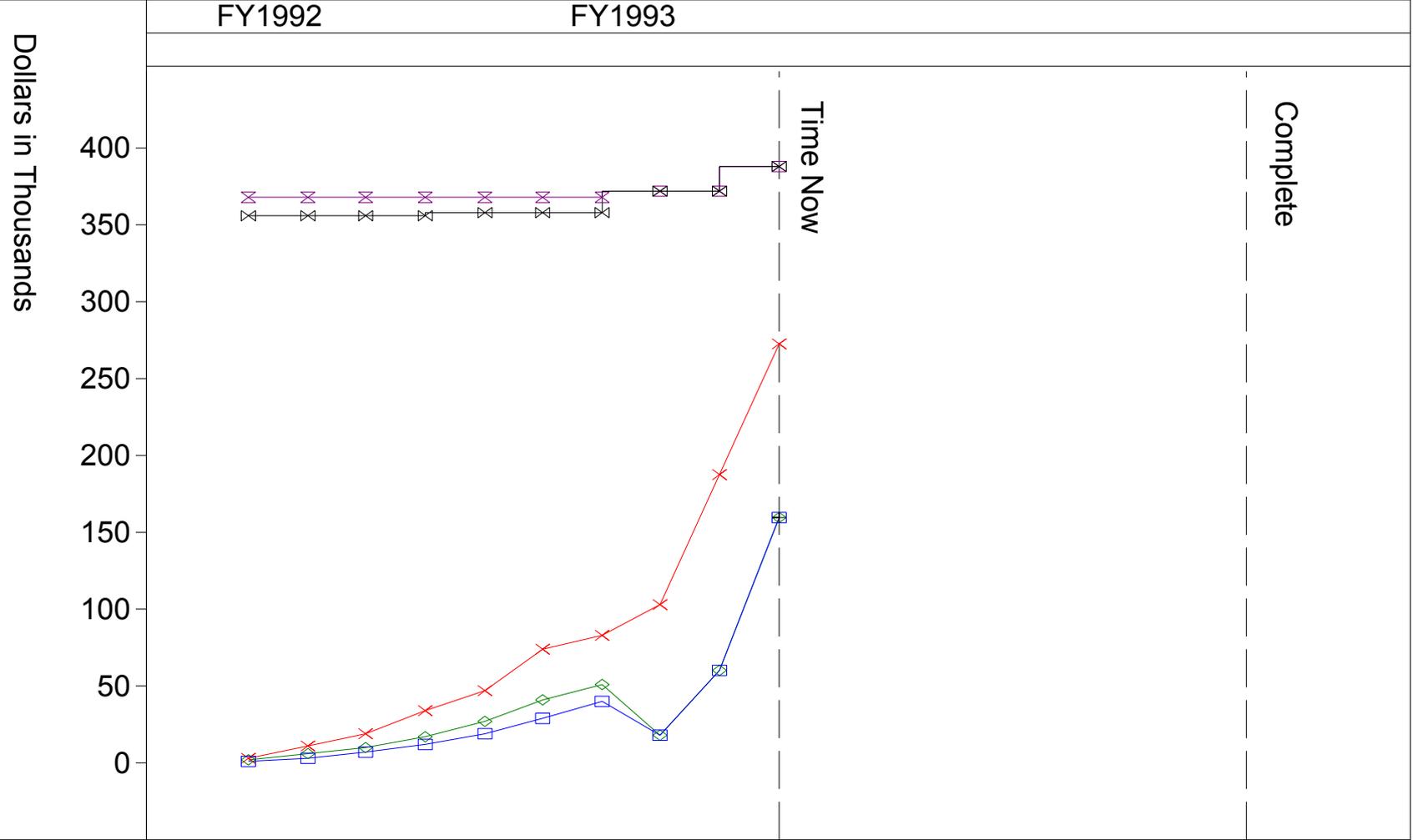
—x—	CUM	2.000	2.000	1.429	1.417	1.421	1.414	1.275	1.000	1.000	1.000
—◇—	CUR	2.000	2.000	1.000	1.400	1.429	1.400	0.909	1.500	1.000	1.000
—□—	TC-BAC	0.997	0.992	0.992	0.986	0.977	0.965	0.966	1.000	1.000	1.000
—x—	TC-LRE	1.031	1.025	1.026	1.020	1.006	0.994	0.997	1.000	1.000	1.000

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Cum Element Performance

Name: DATA DISPLAY



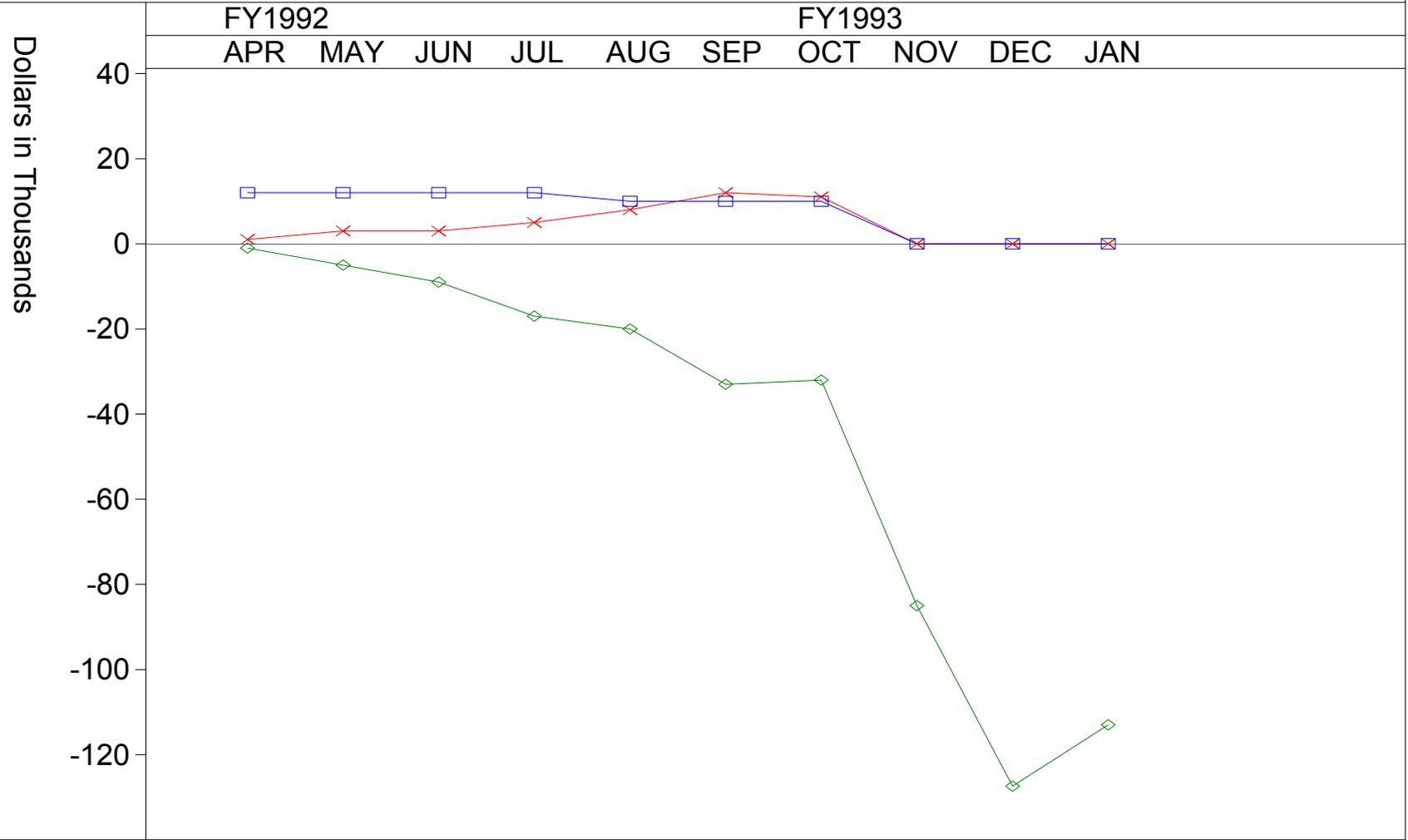
BCWS	— x —	272.6	BAC	— x —	388.0
BCWP	— ◆ —	159.6	LRE	— + —	388.0
ACWP	— □ —	159.6			
ETC	— + —	159.6			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Cumulative Variance

Name: DATA DISPLAY



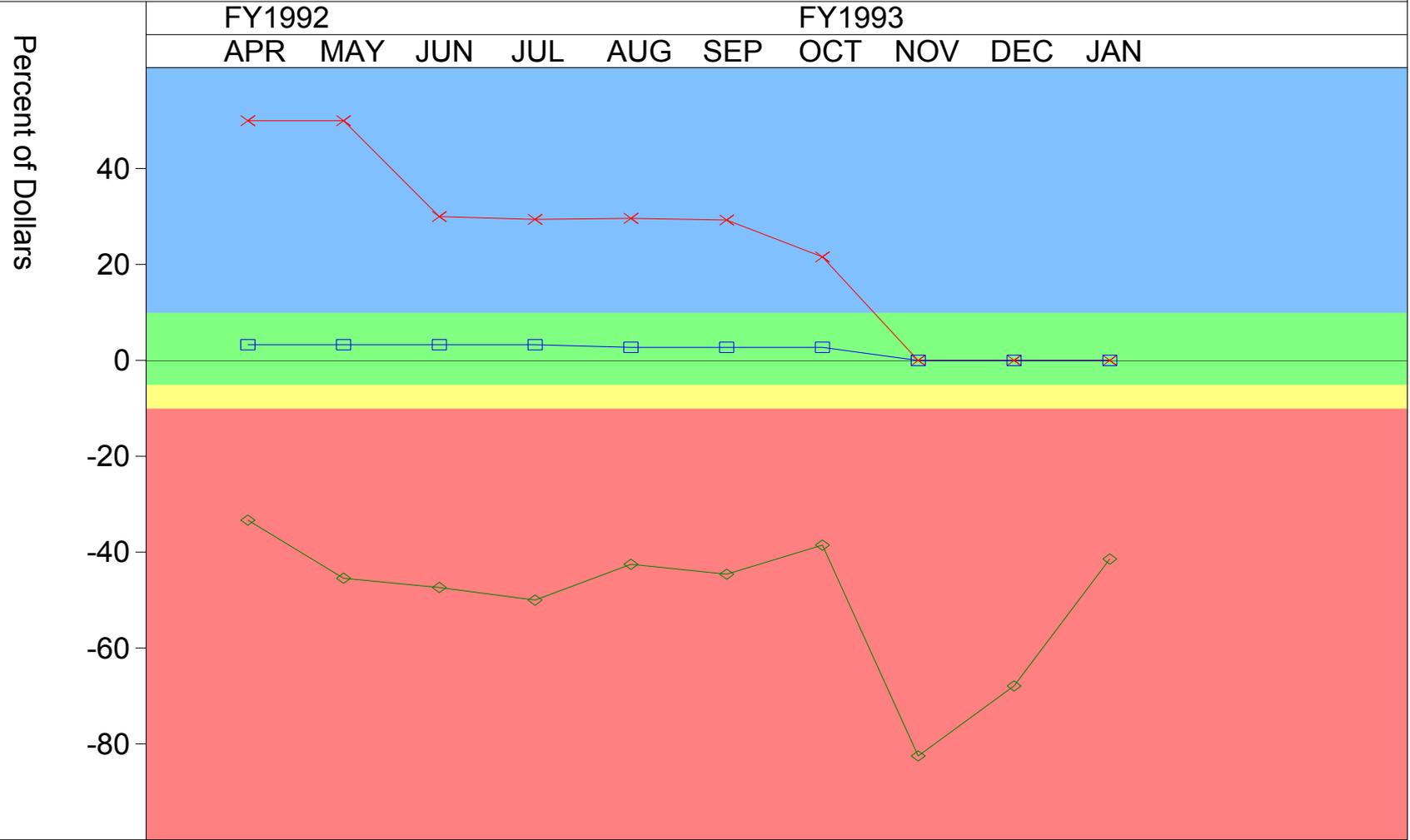
—x—	COST	1.00	3.00	3.00	5.00	8.00	12.00	11.00	0.00	0.00	0.00
—◇—	SCHED	-1.00	-5.00	-9.00	-17.00	-20.00	-33.00	-32.00	-85.00	-127.40	-113.00
—□—	VAC	12.00	12.00	12.00	12.00	10.00	10.00	10.00	0.00	0.00	0.00

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Cumulative Variance Percent

Name: DATA DISPLAY



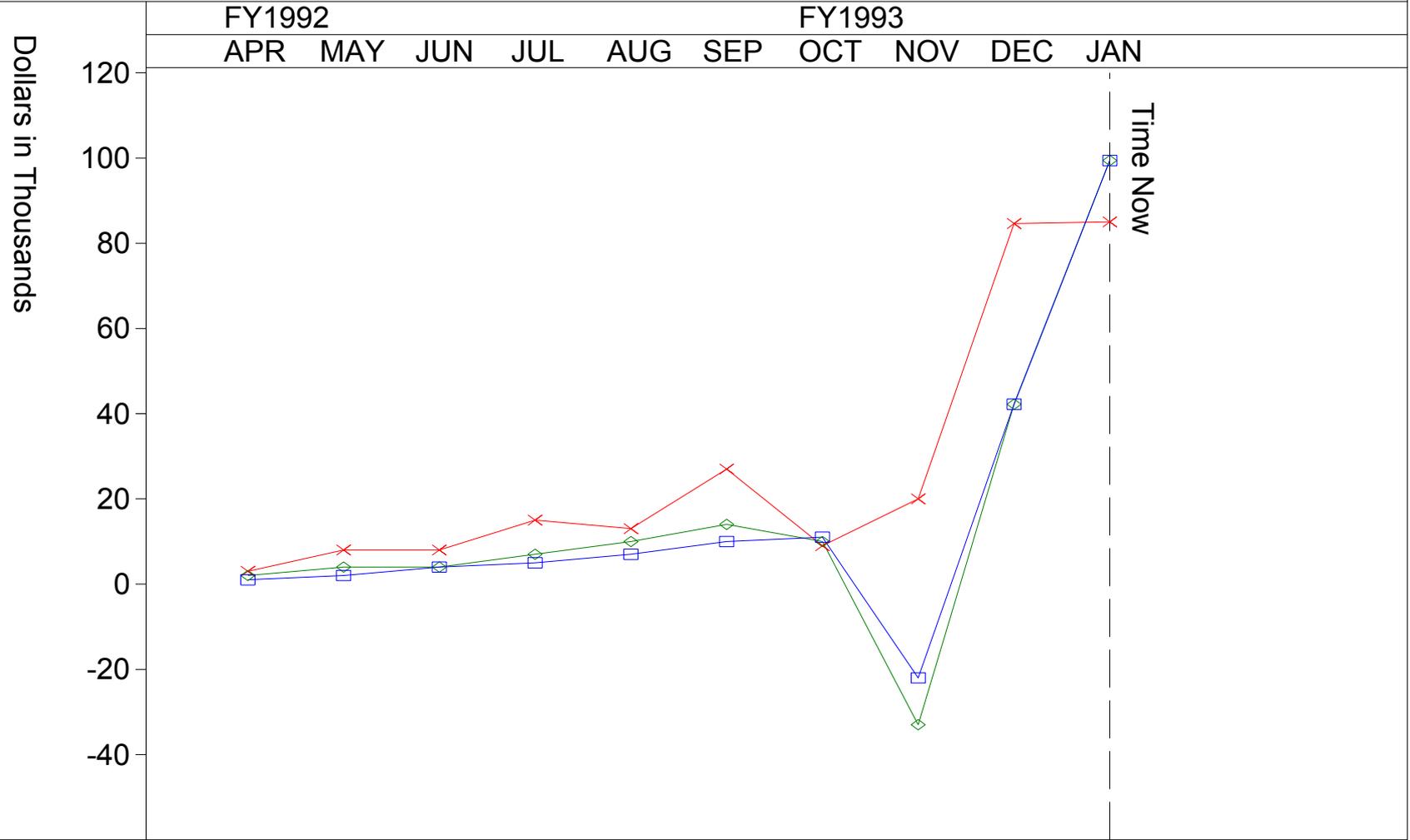
—x—	COST	50.00	50.00	30.00	29.41	29.63	29.27	21.57	0.00	0.00	0.00
—◇—	SCHED	-33.33	-45.45	-47.37	-50.00	-42.55	-44.59	-38.55	-82.52	-67.91	-41.45
—□—	VAC	3.26	3.26	3.26	3.26	2.72	2.72	2.72	0.00	0.00	0.00

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Cur Element Performance

Name: DATA DISPLAY



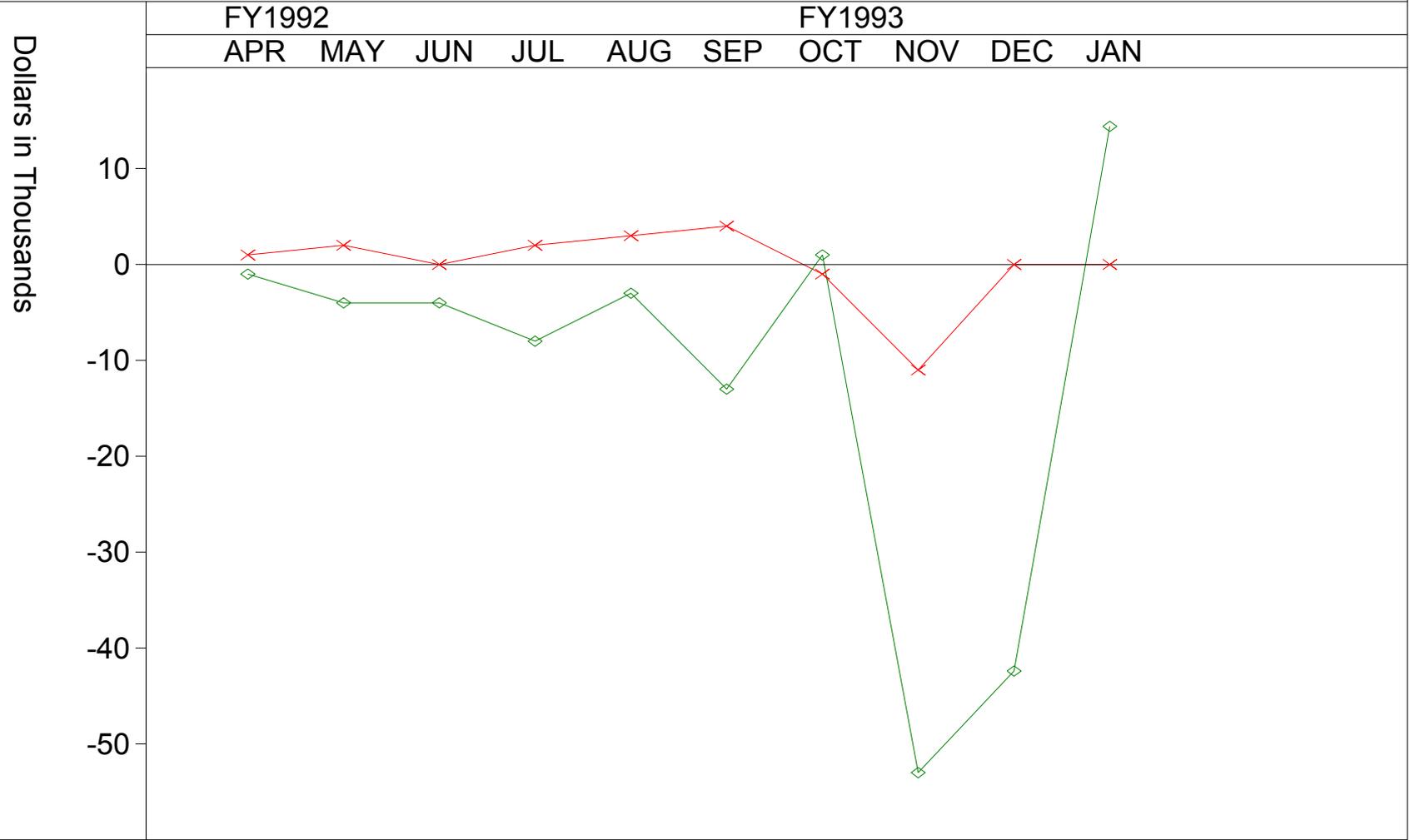
—x—	BCWS	3.0	8.0	8.0	15.0	13.0	27.0	9.0	20.0	84.6	85.0
—◇—	BCWP	2.0	4.0	4.0	7.0	10.0	14.0	10.0	-33.0	42.2	99.4
—□—	ACWP	1.0	2.0	4.0	5.0	7.0	10.0	11.0	-22.0	42.2	99.4

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Current Variance

Name: DATA DISPLAY



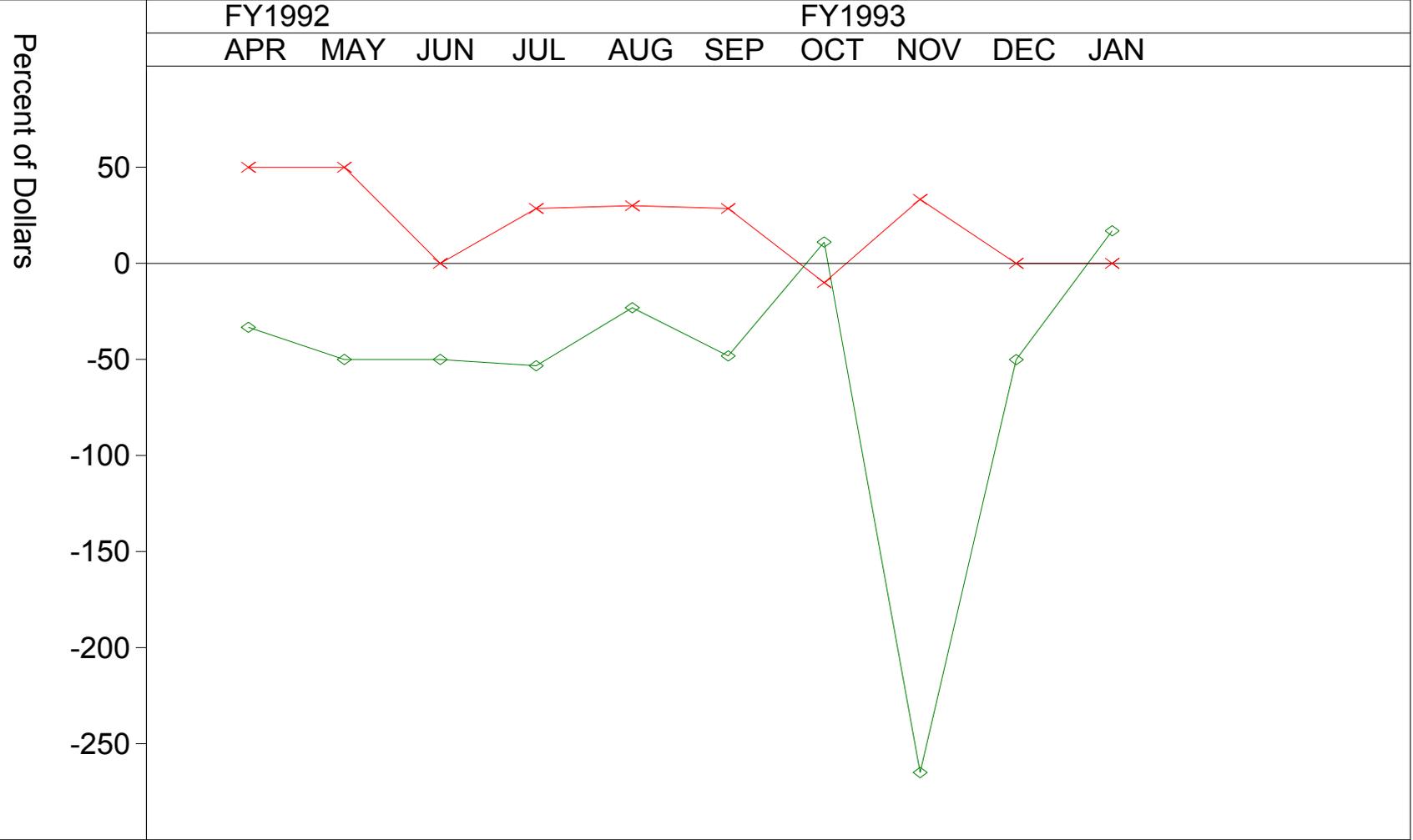
—x—	COST	1.00	2.00	0.00	2.00	3.00	4.00	-1.00	-11.00	0.00	0.00
—◇—	SCHED	-1.00	-4.00	-4.00	-8.00	-3.00	-13.00	1.00	-53.00	-42.40	14.40

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Current Variance Percent

Name: DATA DISPLAY



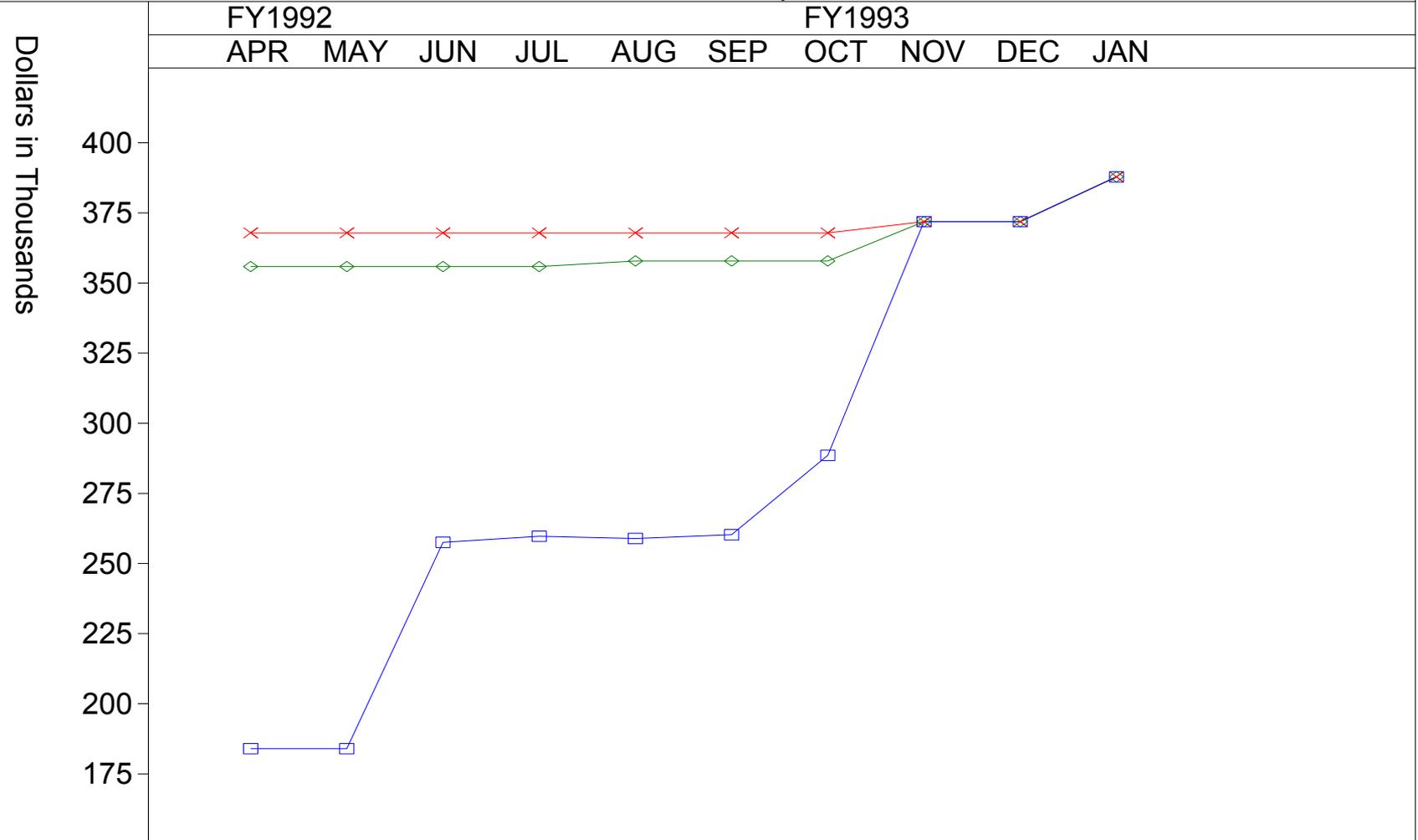
—x—	COST	50.00	50.00	0.00	28.57	30.00	28.57	-10.00	33.33	0.00	0.00
—◇—	SCHED	-33.33	-50.00	-50.00	-53.33	-23.08	-48.15	11.11	-265.00	-50.12	16.94

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Estimates at Completion

Name: DATA DISPLAY



	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
—x— BAC	368.0	368.0	368.0	368.0	368.0	368.0	368.0	372.0	372.0	388.0
—◇— LRE	356.0	356.0	356.0	356.0	358.0	358.0	358.0	372.0	372.0	388.0
—□— CUM CPI	184.0	184.0	257.6	259.8	259.0	260.3	288.6	372.0	372.0	388.0

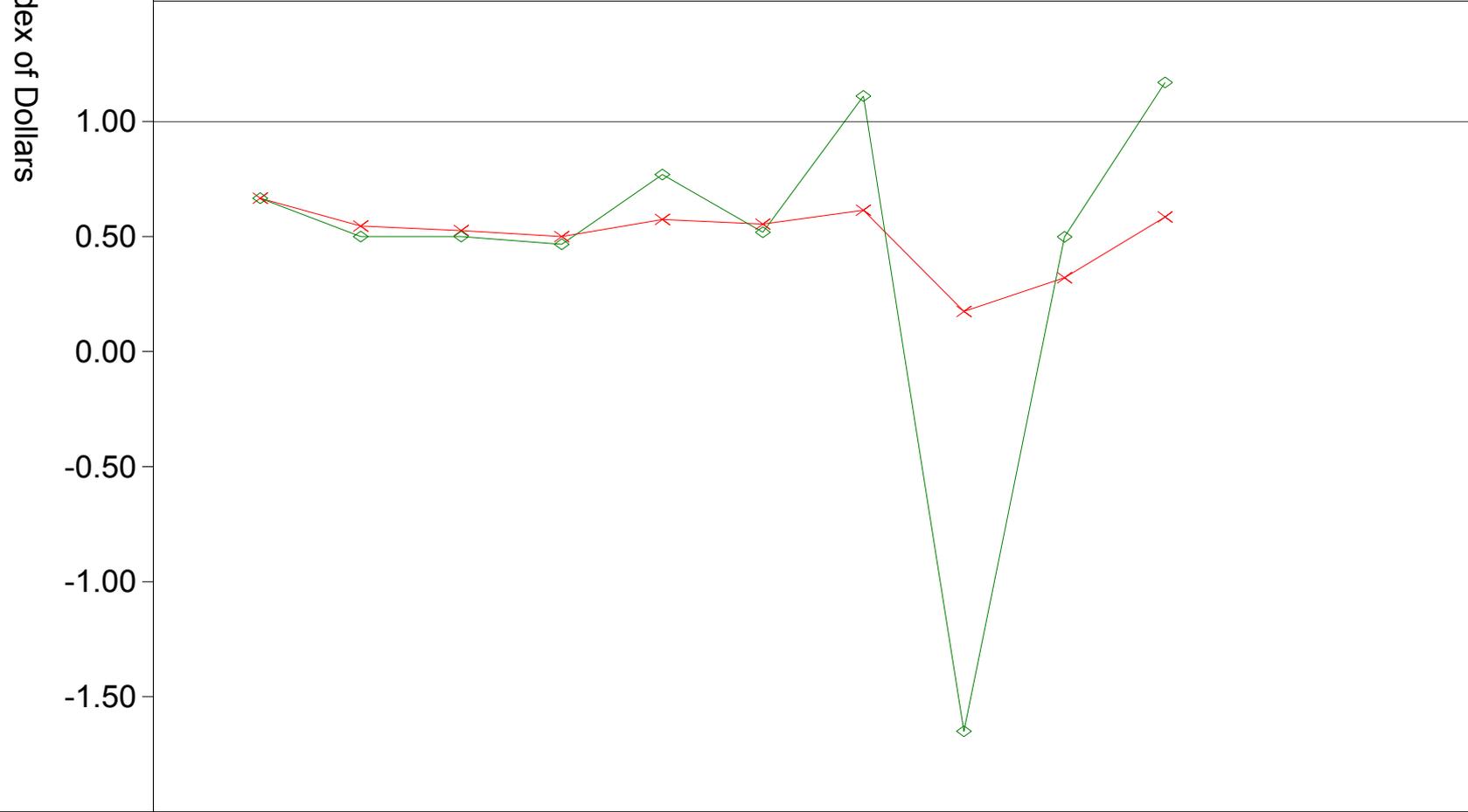
MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Schedule Performance Index

Name: DATA DISPLAY

	FY1992					FY1993				
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN



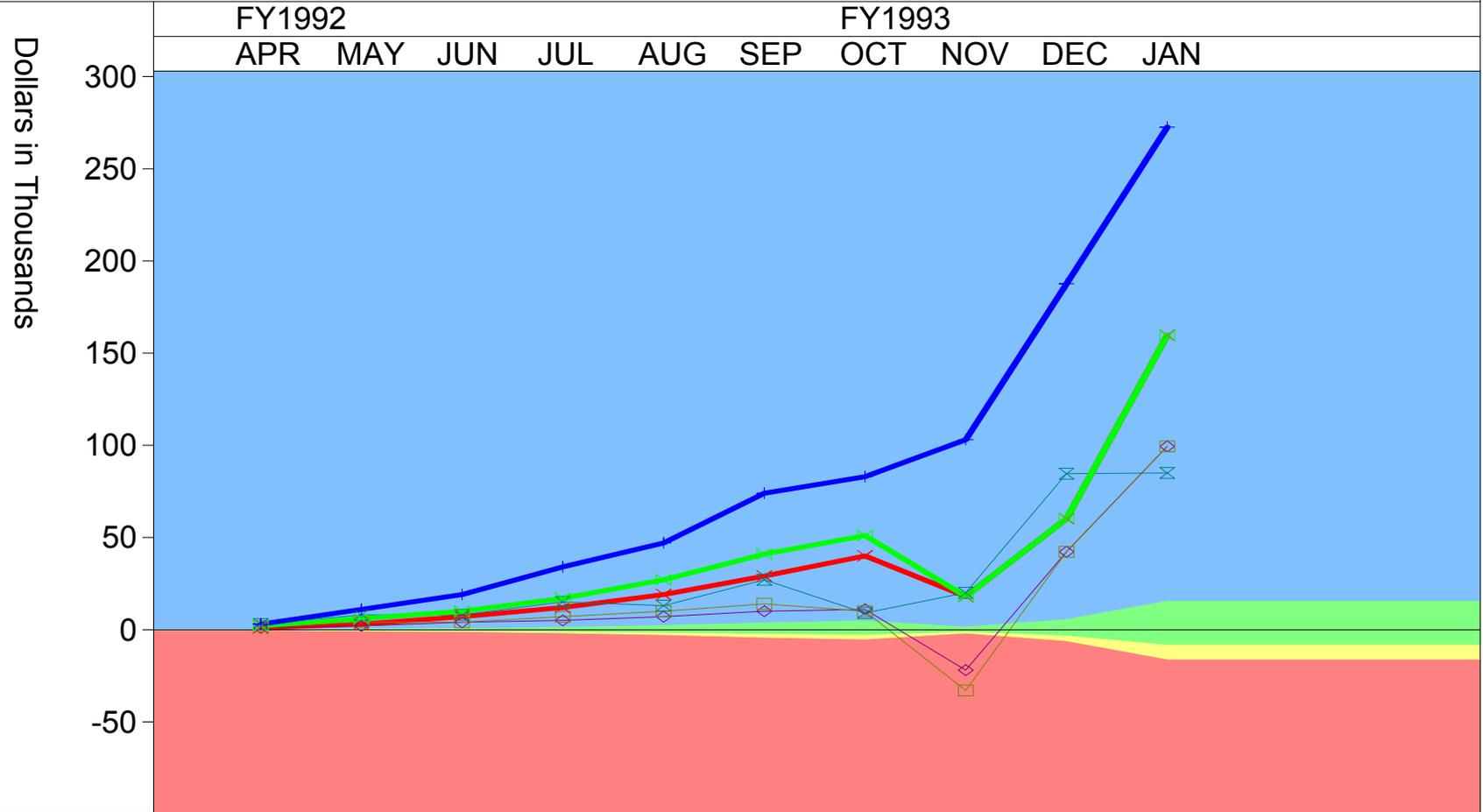
—x— CUM	0.667	0.545	0.526	0.500	0.574	0.554	0.614	0.175	0.321	0.585
—◇— CUR	0.667	0.500	0.500	0.467	0.769	0.519	1.111	-1.650	0.499	1.169

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3700

Standard Earned Value

Name: DATA DISPLAY



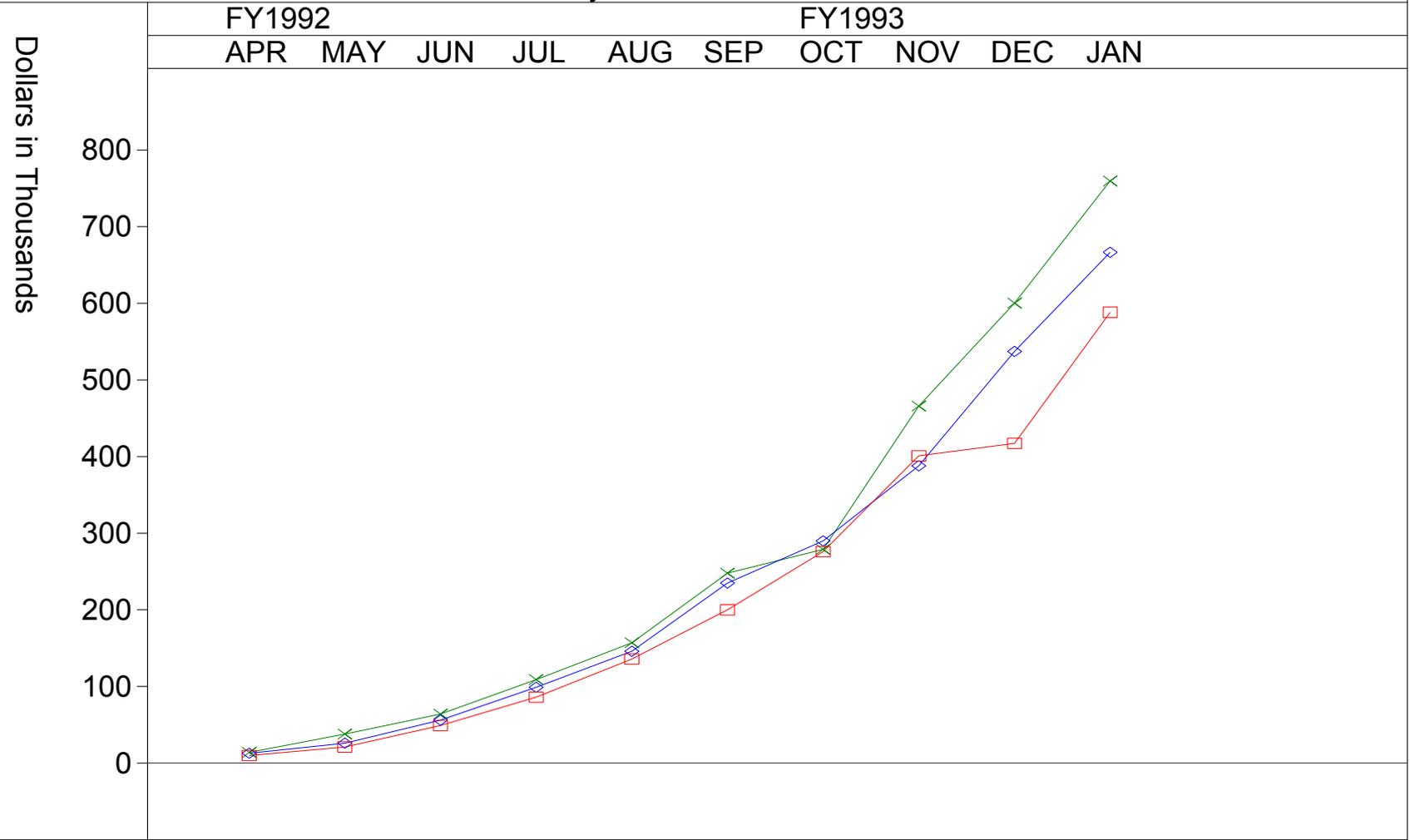
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
ACWPCUM1.0	3.0	7.0	12.0	19.0	29.0	40.0	18.0	60.2	159.6	
ACWPCUR1.0	2.0	4.0	5.0	7.0	10.0	11.0	-22.0	42.2	99.4	
BCWPCUR2.0	4.0	4.0	7.0	10.0	14.0	10.0	-33.0	42.2	99.4	
BCWSCUR3.0	8.0	8.0	15.0	13.0	27.0	9.0	20.0	84.6	85.0	
BCWPCUM2.0	6.0	10.0	17.0	27.0	41.0	51.0	18.0	60.2	159.6	
BCWSCUMB.0	11.0	19.0	34.0	47.0	74.0	83.0	103.0	187.6	272.6	

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Adjusted Snake Chart

Name: AUX EQUIP

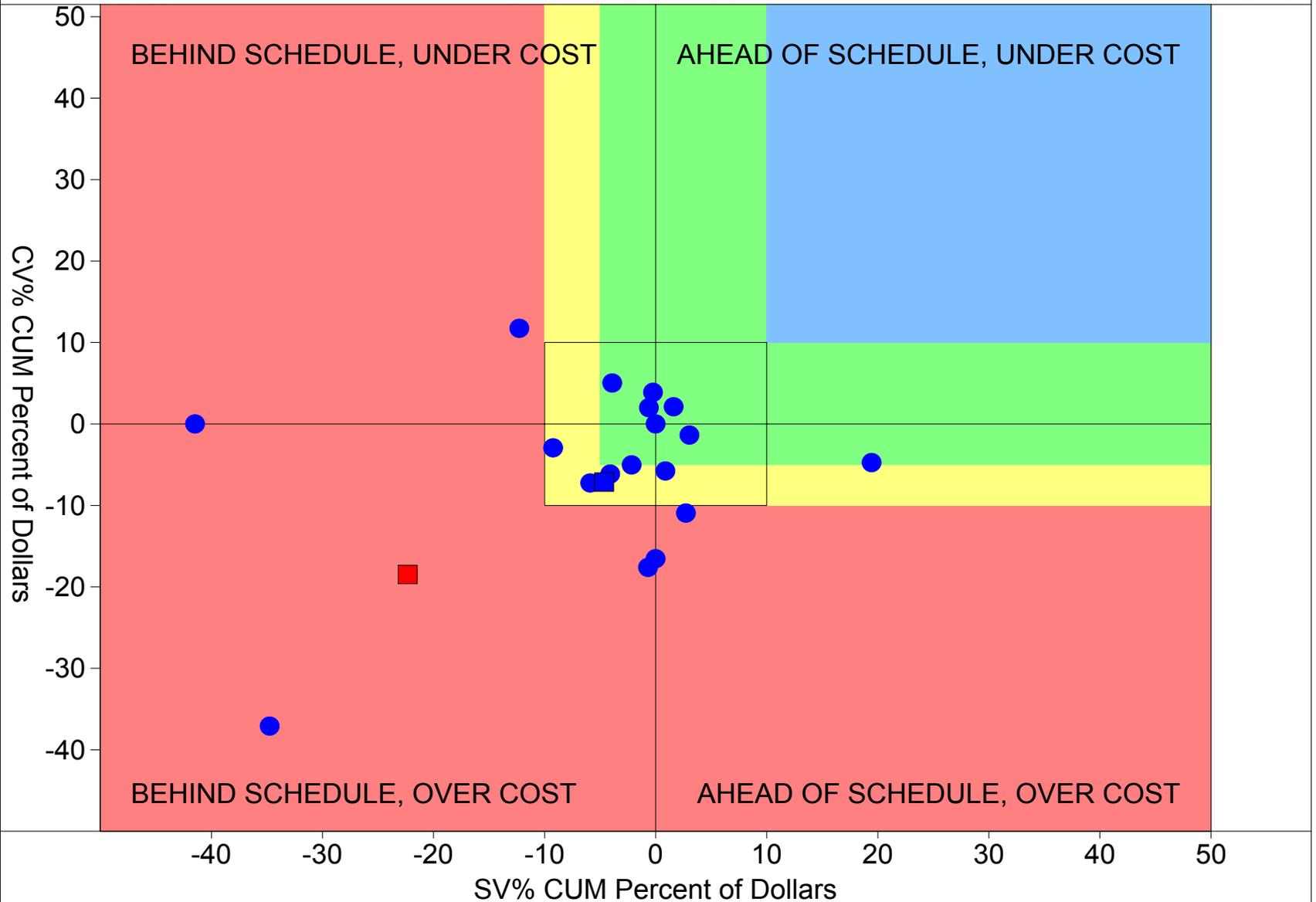


—x—	BCWSADJ	14.0	38.0	64.0	109.0	157.0	248.0	279.0	466.0	600.4	759.8
—◇—	BCWPADJ	13.0	26.0	56.0	99.0	146.0	235.0	290.0	388.0	537.2	666.6
—□—	ACWPADJ	10.0	21.0	49.0	86.0	136.0	200.0	276.0	401.0	417.2	588.4

Filter (Lowest)
All Elements

Aggregate Bull's-eye Chart
MOH-2 WBS JAN 93 Dollars

Highlight (Description)
COMMUNICATIONS

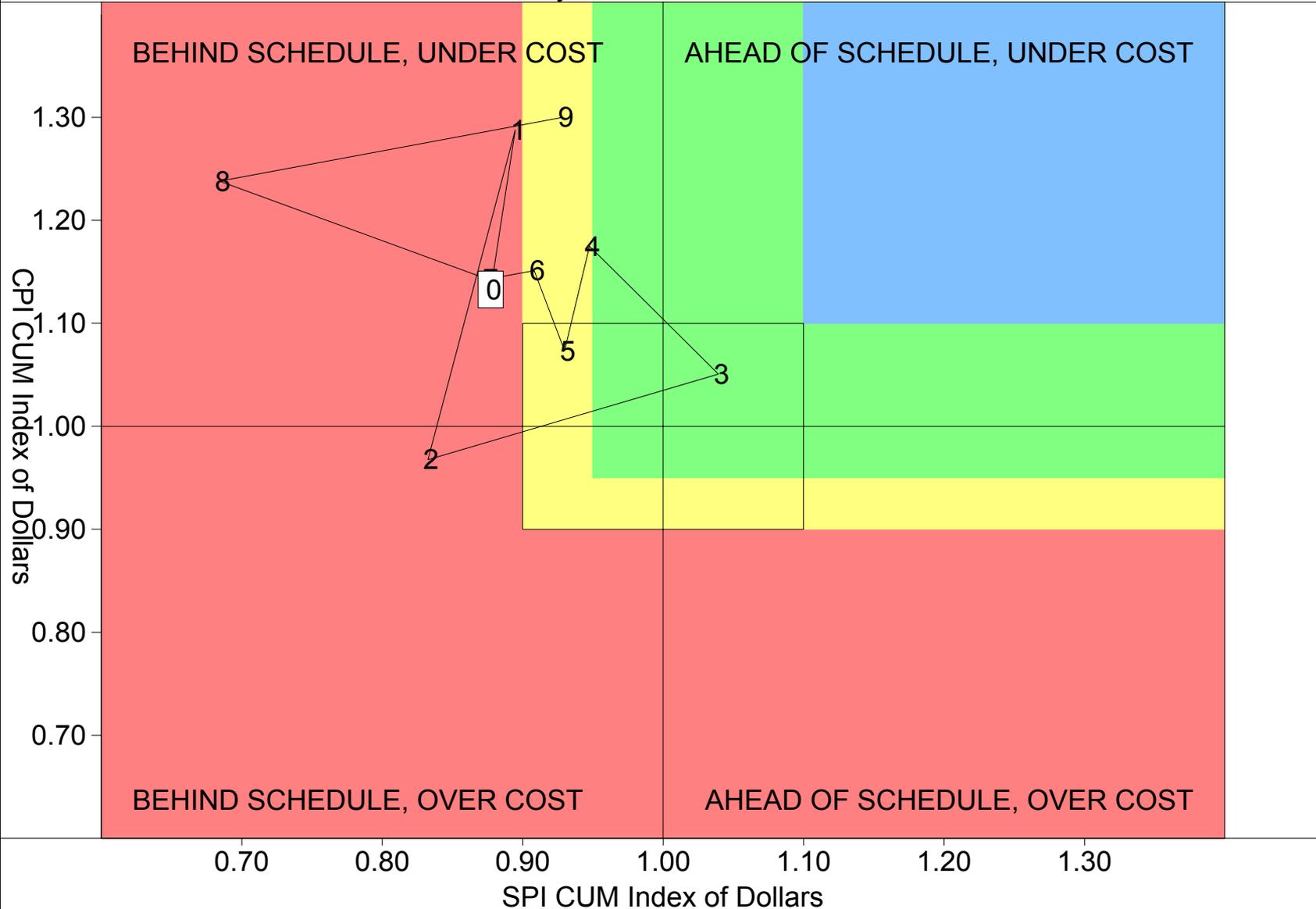


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Bull's-eye Chart - As of: JAN 93

Name: AUX EQUIP

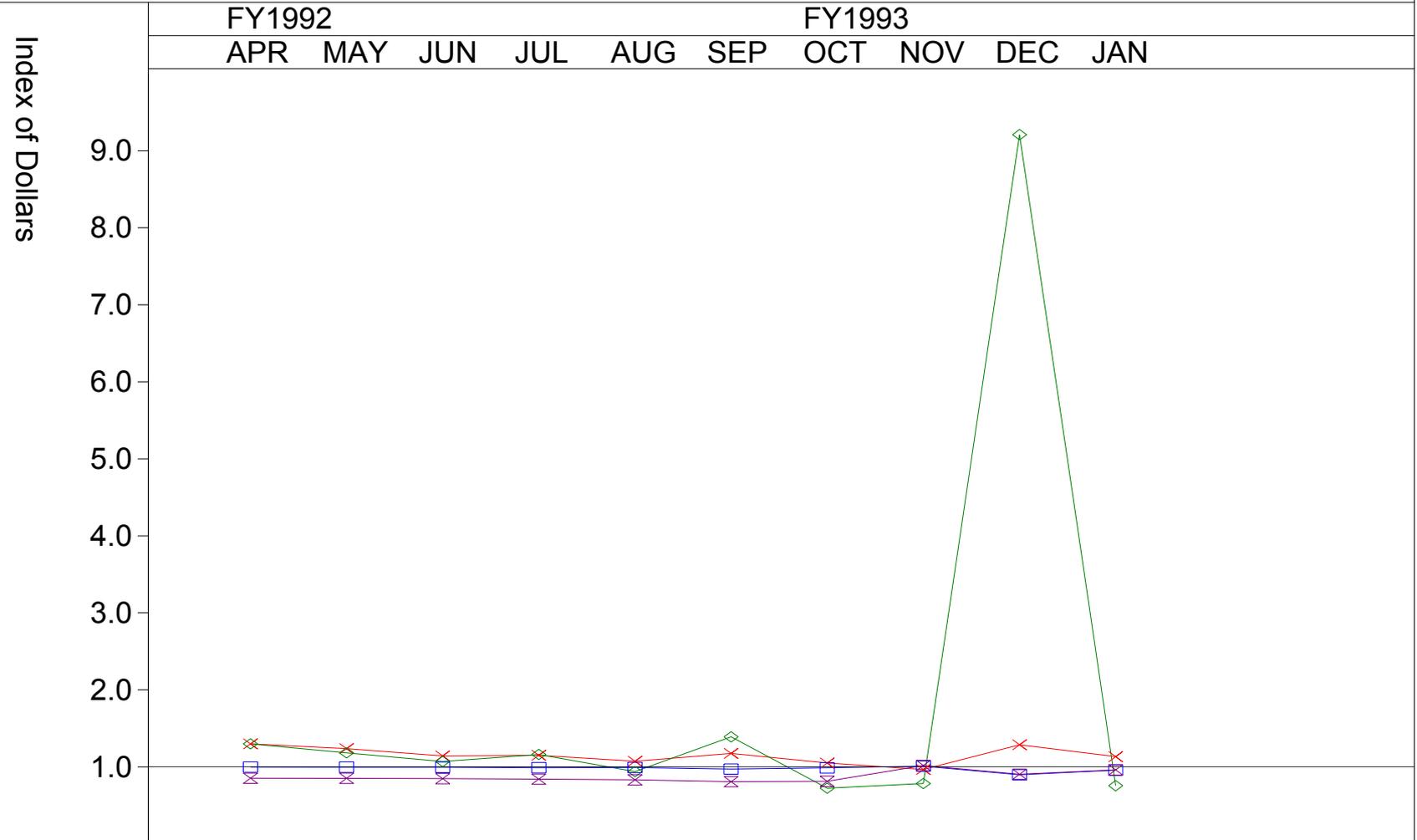


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Cost Performance Index

Name: AUX EQUIP



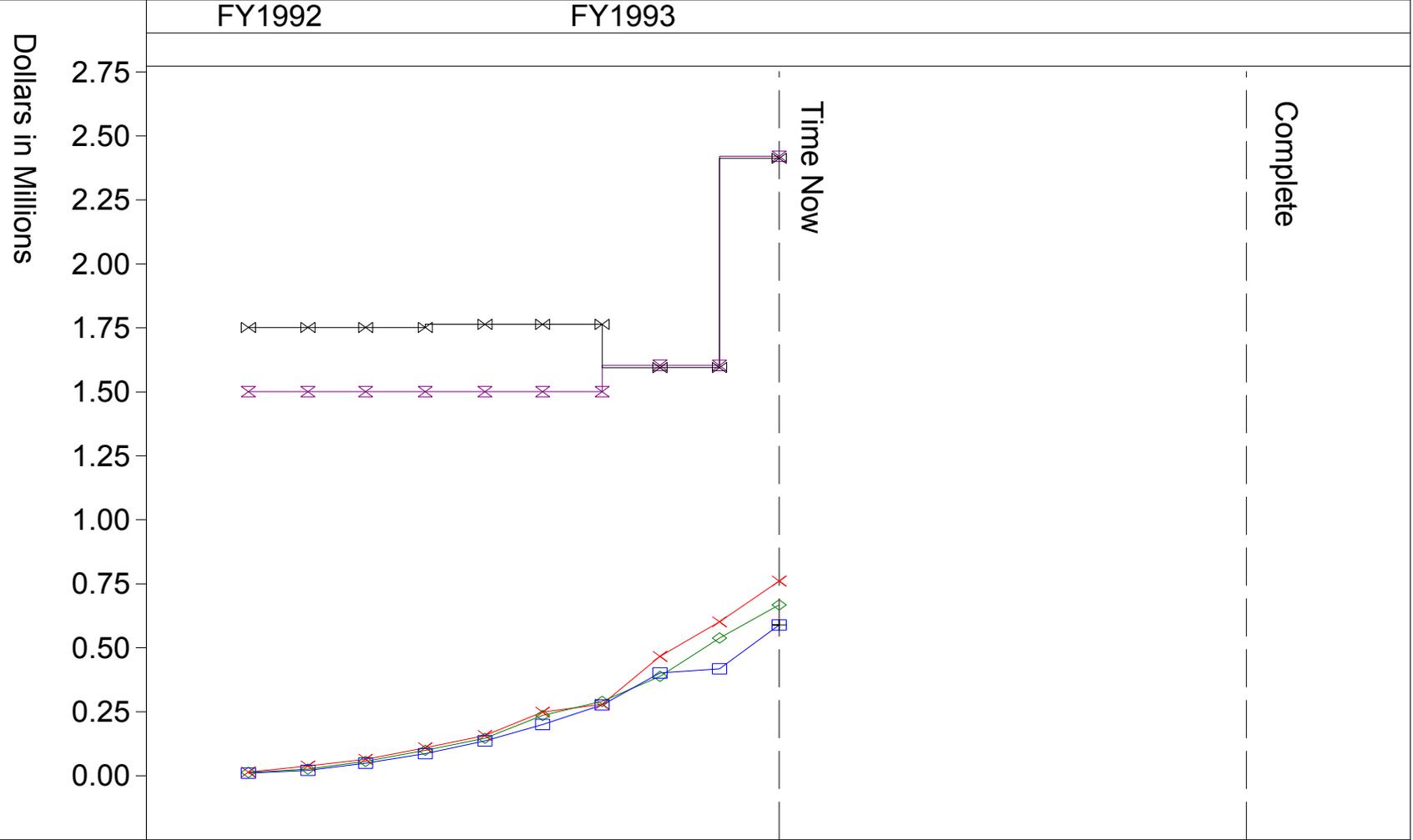
—x—	CUM	1.300	1.238	1.143	1.151	1.074	1.175	1.051	0.968	1.288	1.133
—◇—	CUR	1.300	1.182	1.071	1.162	0.940	1.391	0.724	0.784	9.210	0.756
—□—	TC-BAC	0.998	0.997	0.995	0.991	0.993	0.973	0.989	1.011	0.899	0.957
—x—	TC-LRE	0.854	0.852	0.848	0.841	0.832	0.809	0.814	1.018	0.905	0.962

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Cum Element Performance

Name: AUX EQUIP



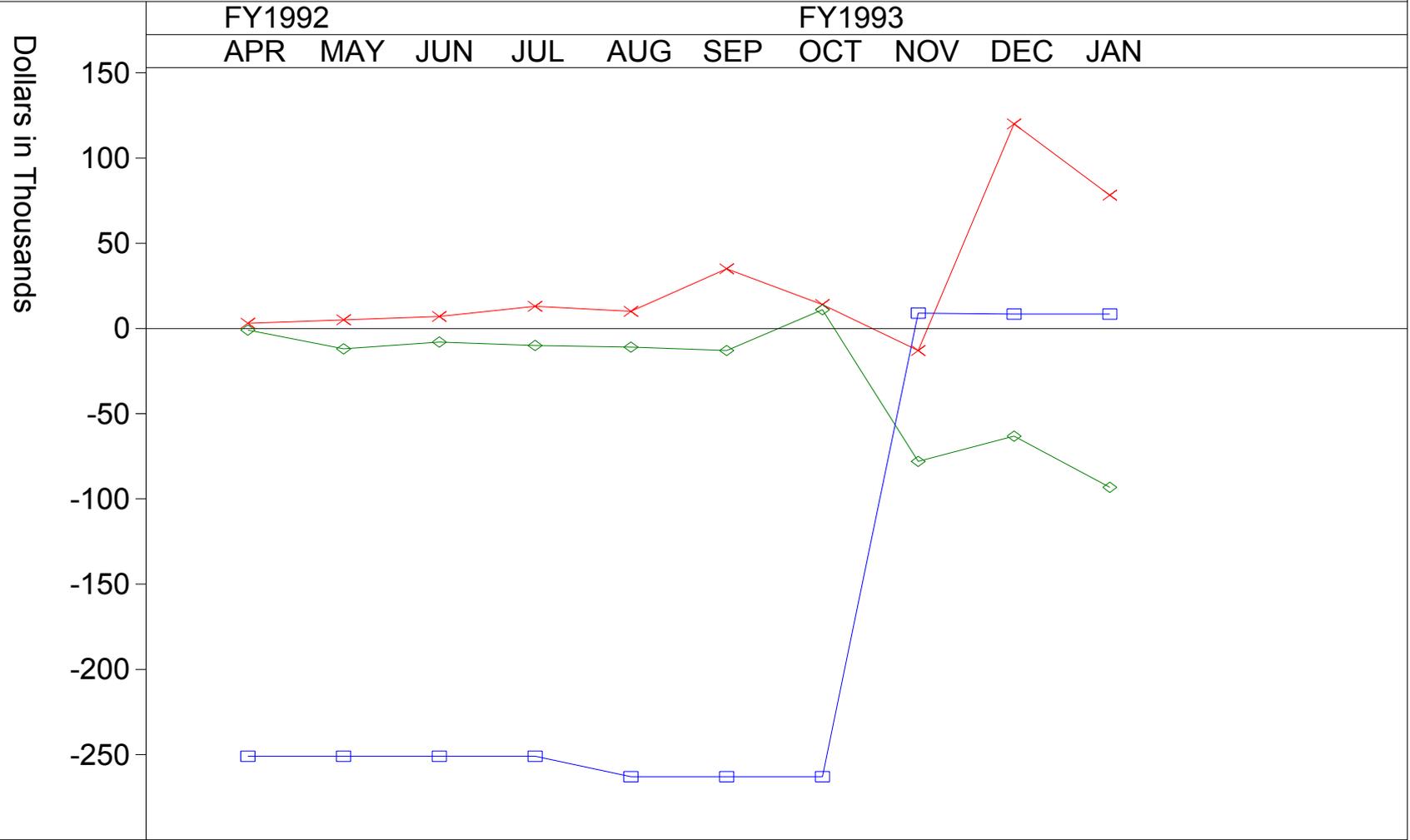
BCWS	— x —	0.760	BAC	— x —	2.418
BCWP	— ◇ —	0.667	LRE	— x —	2.410
ACWP	— □ —	0.588			
ETC	— + —	0.588			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Cumulative Variance

Name: AUX EQUIP



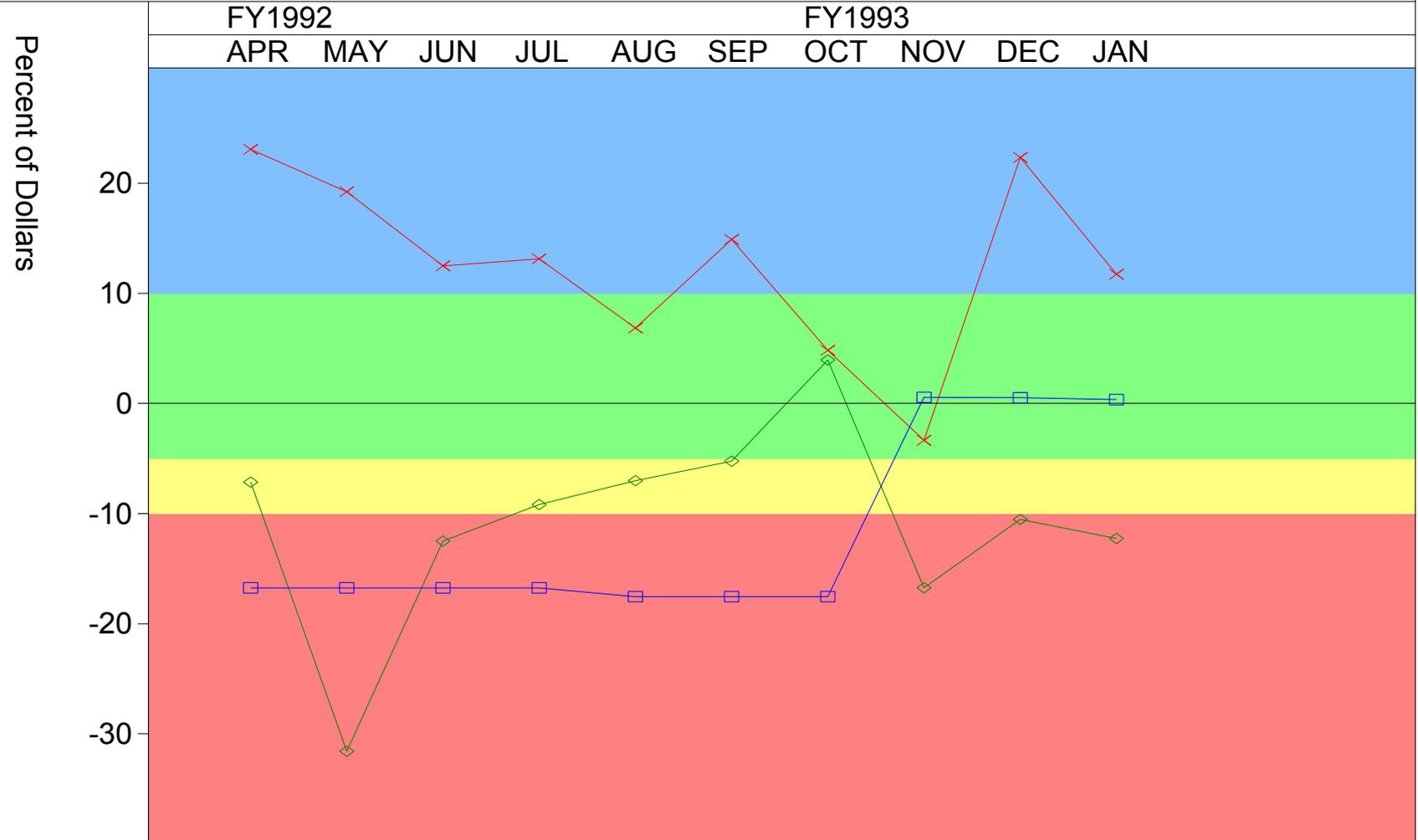
—x—	COST	3.0	5.0	7.0	13.0	10.0	35.0	14.0	-13.0	120.0	78.2
—◇—	SCHED	-1.0	-12.0	-8.0	-10.0	-11.0	-13.0	11.0	-78.0	-63.2	-93.2
—□—	VAC	-251.0	-251.0	-251.0	-251.0	-263.0	-263.0	-263.0	9.0	8.4	8.4

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Cumulative Variance Percent

Name: AUX EQUIP



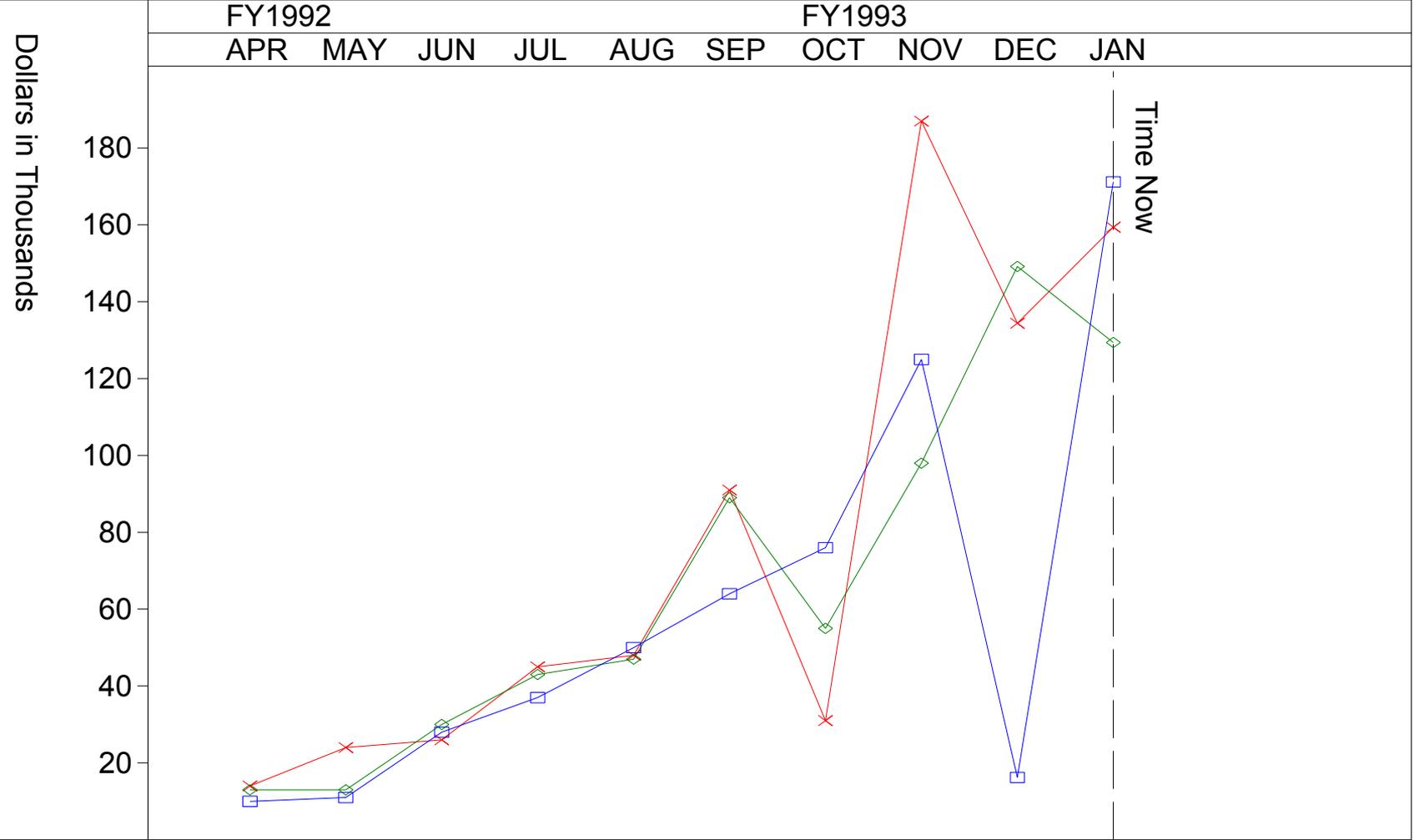
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
—x— COST	23.08	19.23	12.50	13.13	6.85	14.89	4.83	-3.35	22.34	11.73
—◇— SCHED	-7.14	-31.58	-12.50	-9.17	-7.01	-5.24	3.94	-16.74	-10.53	-12.27
—□— VAC	-16.74	-16.74	-16.74	-16.74	-17.55	-17.55	-17.55	0.56	0.52	0.35

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Cur Element Performance

Name: AUX EQUIP



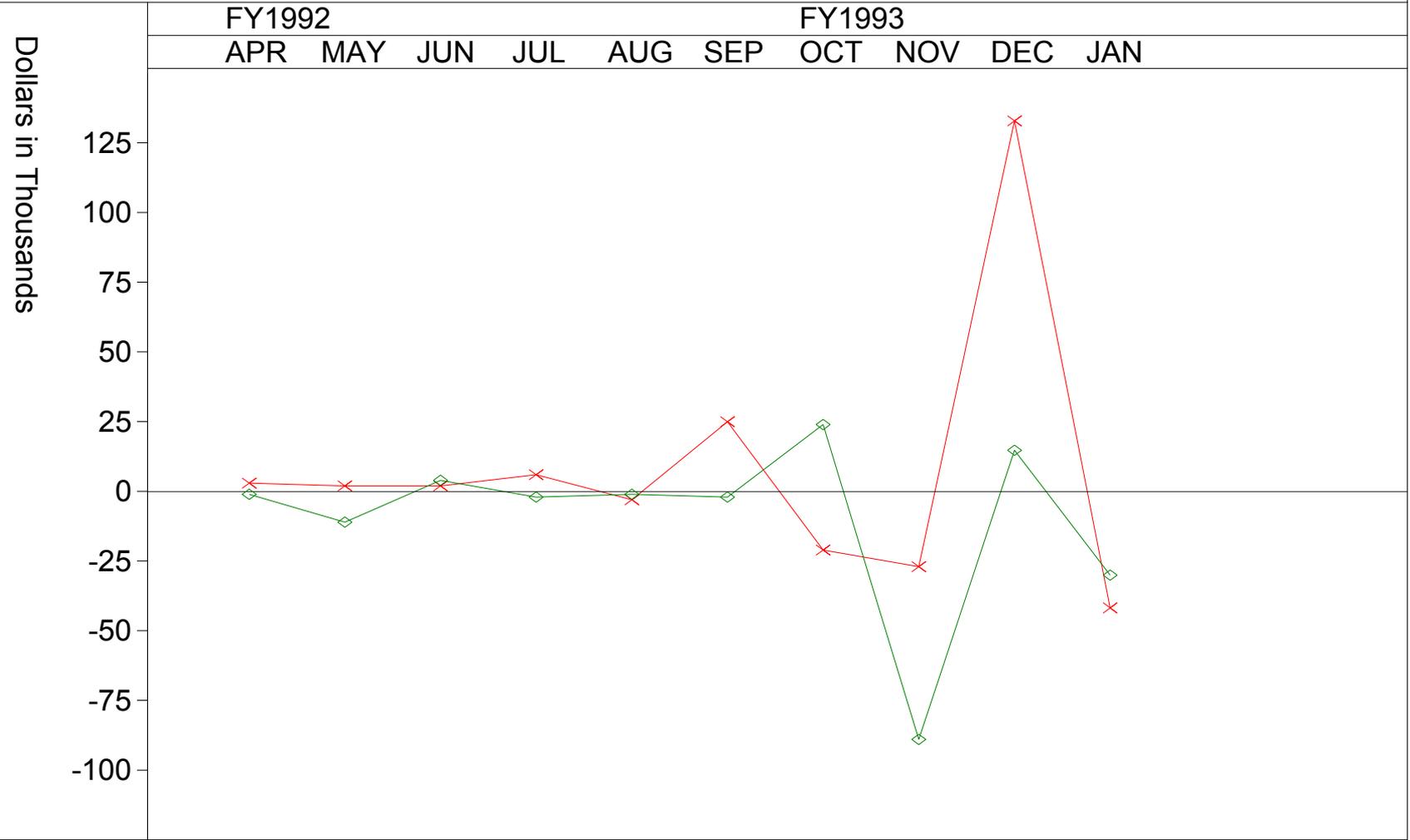
	FY1992	FY1993									
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	
—x— BCWS	14.0	24.0	26.0	45.0	48.0	91.0	31.0	187.0	134.4	159.4	
—◇— BCWP	13.0	13.0	30.0	43.0	47.0	89.0	55.0	98.0	149.2	129.4	
—□— ACWP	10.0	11.0	28.0	37.0	50.0	64.0	76.0	125.0	16.2	171.2	

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Current Variance

Name: AUX EQUIP



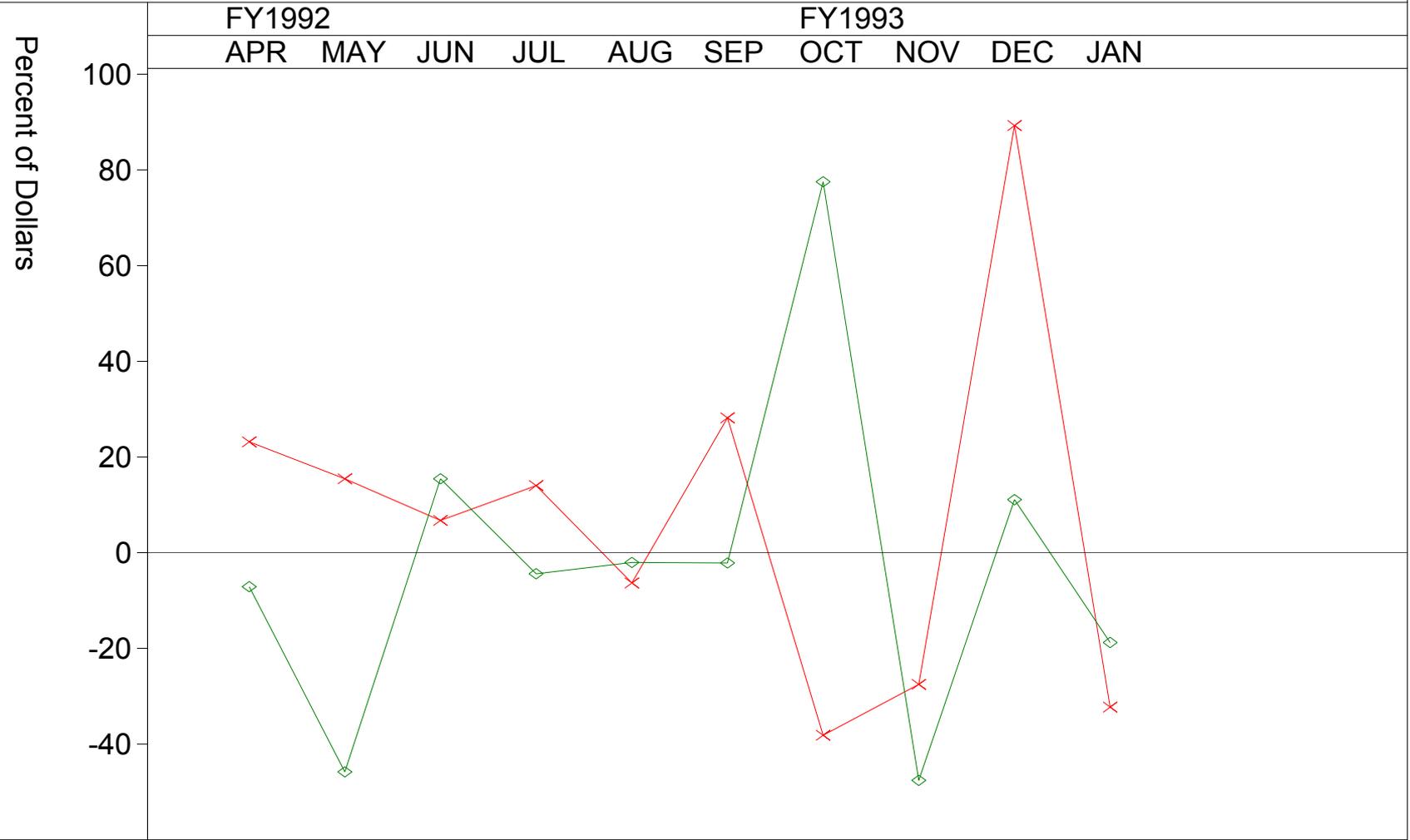
—x—	COST	3.0	2.0	2.0	6.0	-3.0	25.0	-21.0	-27.0	133.0	-41.8
—◇—	SCHED	-1.0	-11.0	4.0	-2.0	-1.0	-2.0	24.0	-89.0	14.8	-30.0

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Current Variance Percent

Name: AUX EQUIP



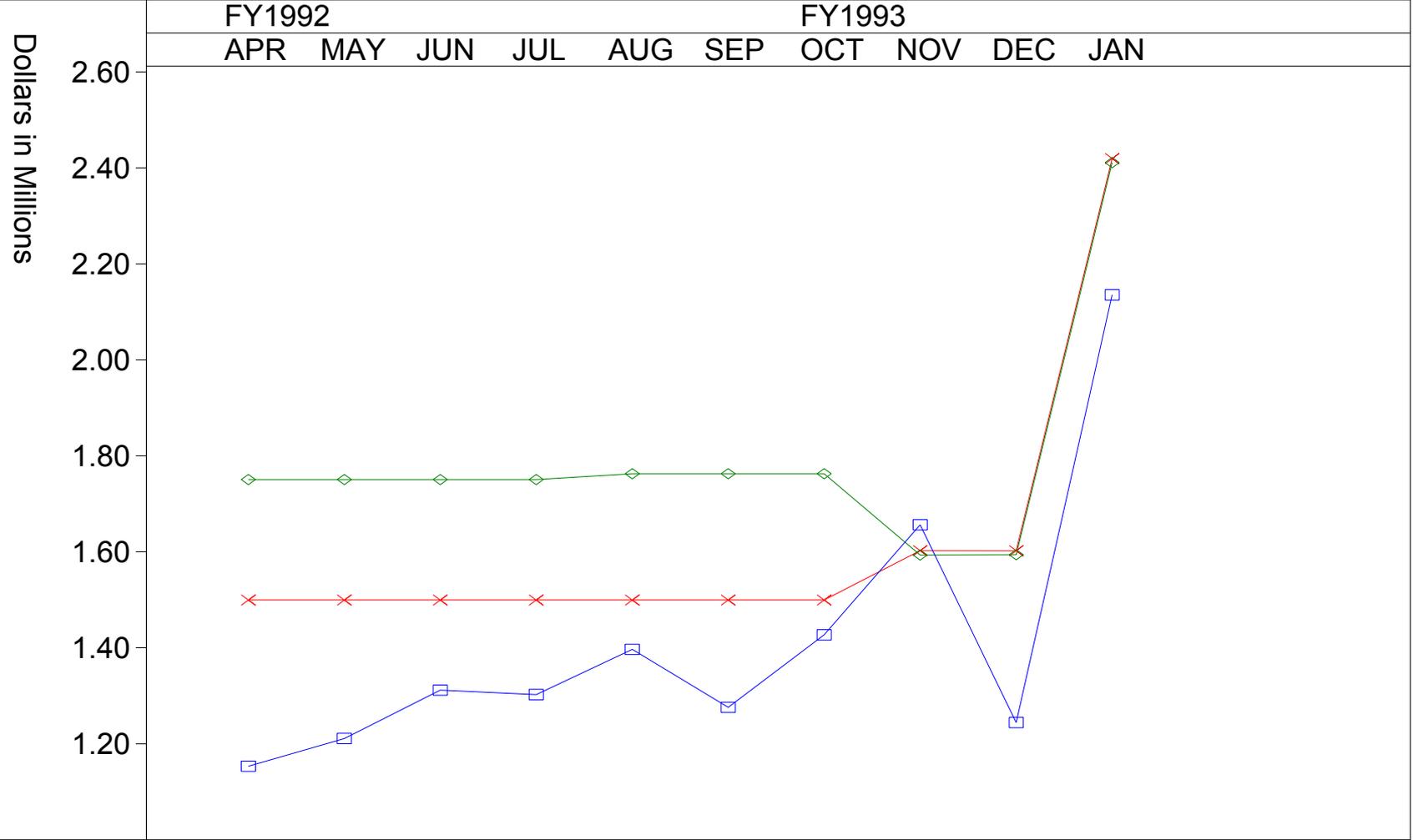
—x—	COST	23.08	15.38	6.67	13.95	-6.38	28.09	-38.18	-27.55	89.14	-32.30
—◇—	SCHED	-7.14	-45.83	15.38	-4.44	-2.08	-2.20	77.42	-47.59	11.01	-18.82

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Estimates at Completion

Name: AUX EQUIP



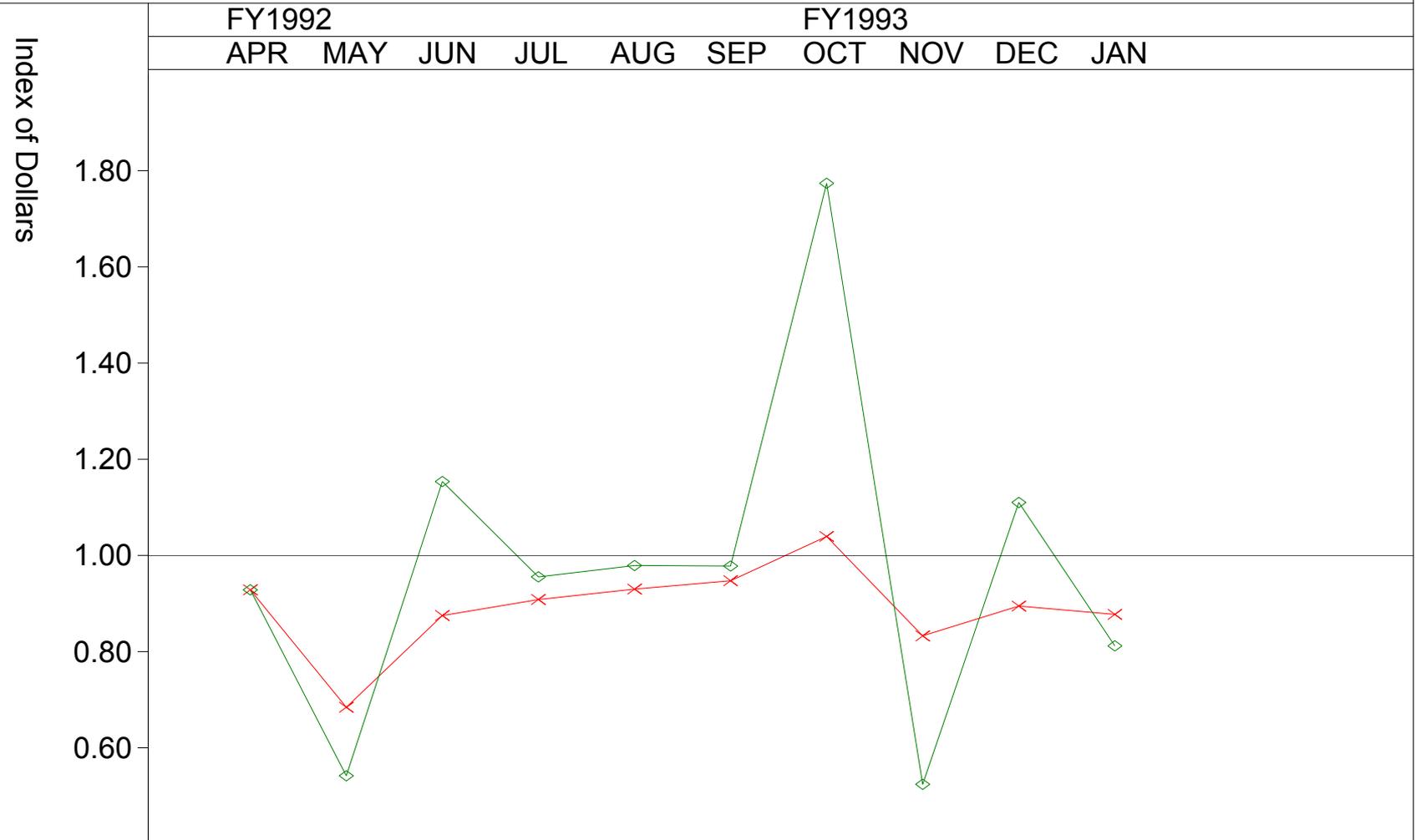
—x—	BAC	1.499	1.499	1.499	1.499	1.499	1.499	1.499	1.602	1.602	2.418
—◇—	LRE	1.750	1.750	1.750	1.750	1.762	1.762	1.762	1.593	1.593	2.410
—□—	CUM CPI	1.153	1.211	1.312	1.302	1.396	1.276	1.427	1.656	1.244	2.135

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Schedule Performance Index

Name: AUX EQUIP



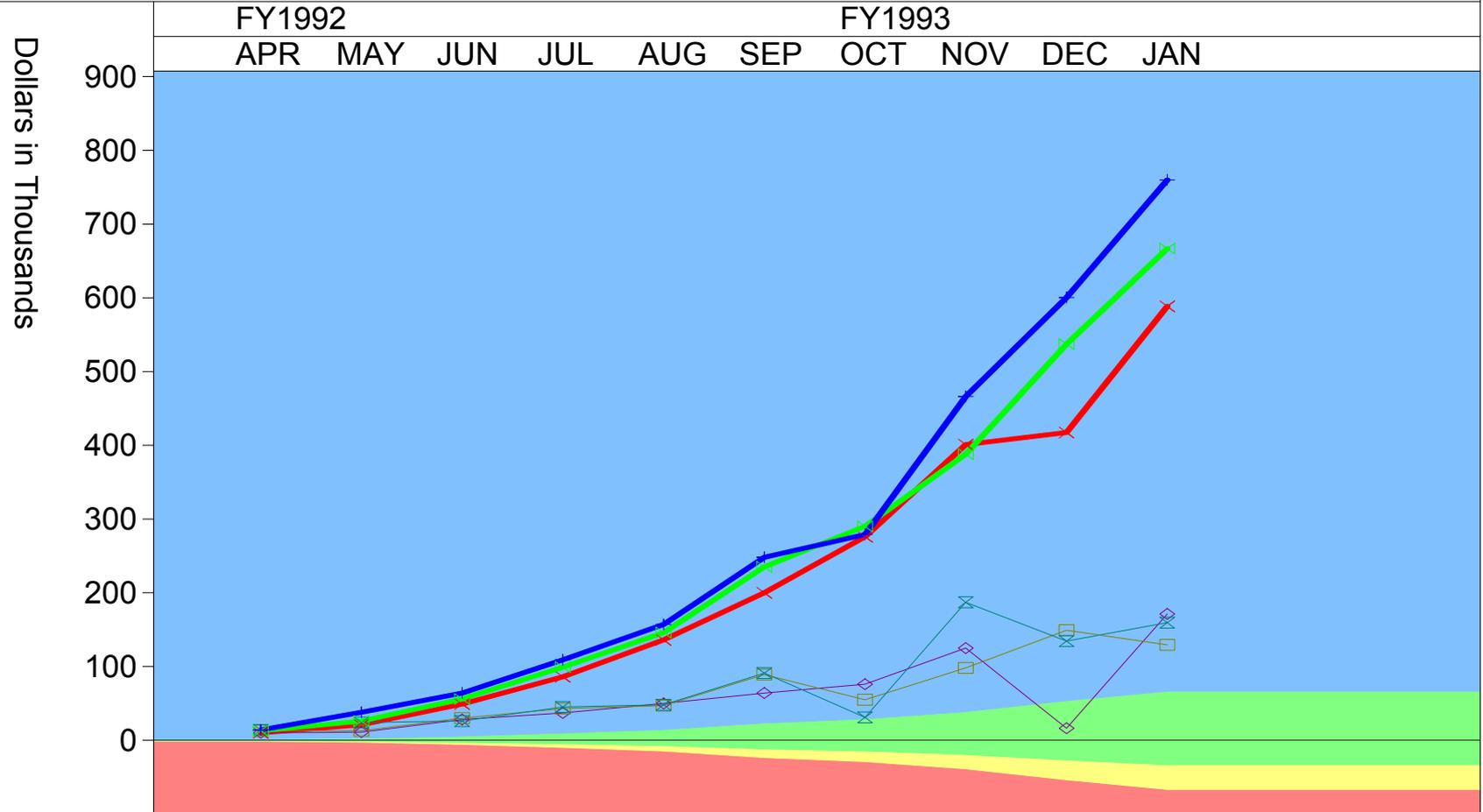
—x— CUM	0.929	0.684	0.875	0.908	0.930	0.948	1.039	0.833	0.895	0.877
—◇— CUR	0.929	0.542	1.154	0.956	0.979	0.978	1.774	0.524	1.110	0.812

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3300

Standard Earned Value

Name: AUX EQUIP



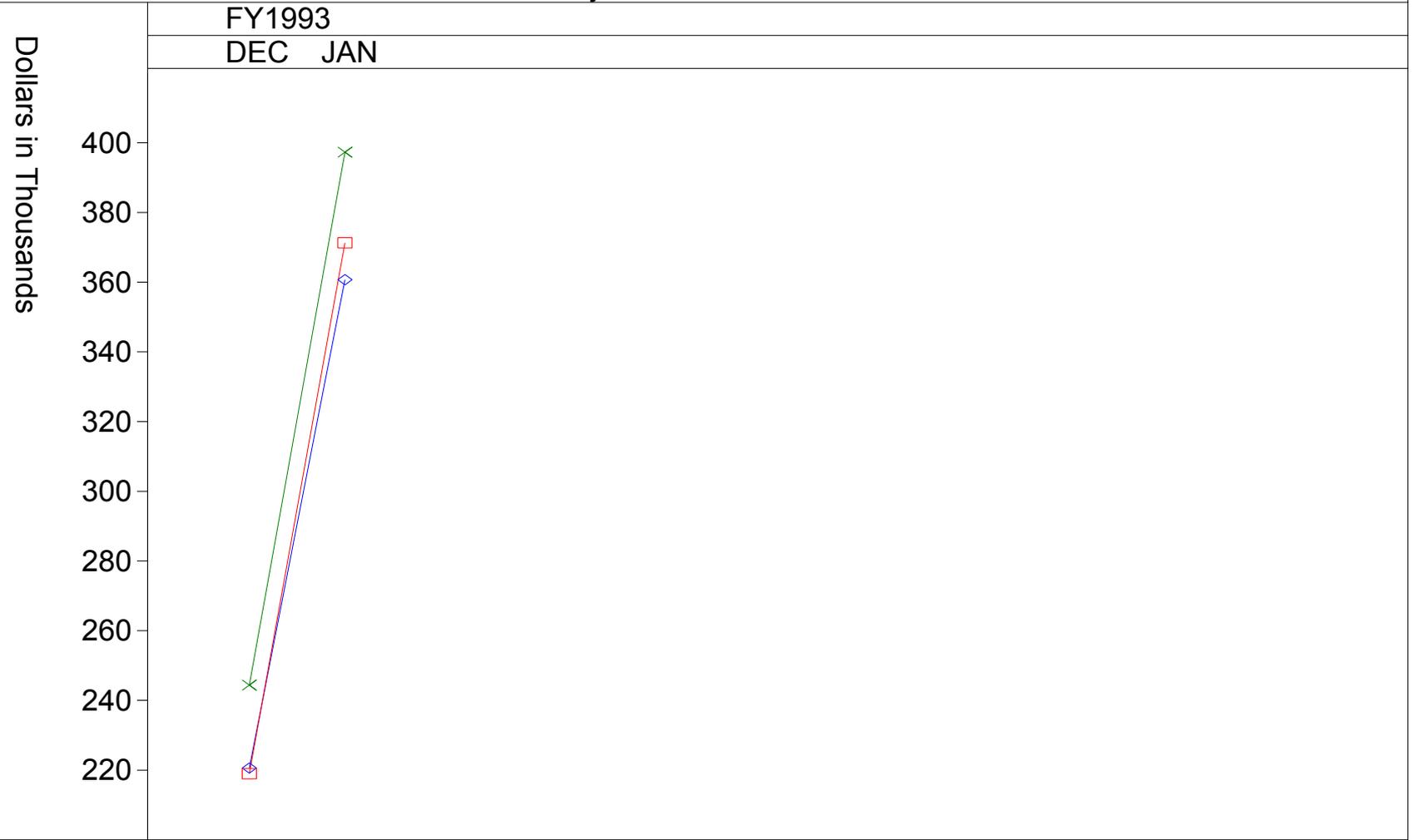
ACWPCUM	0.0	21.0	49.0	86.0	136.0	200.0	276.0	401.0	417.2	588.4
ACWPCUR	0.0	11.0	28.0	37.0	50.0	64.0	76.0	125.0	16.2	171.2
BCWPCUR	3.0	13.0	30.0	43.0	47.0	89.0	55.0	98.0	149.2	129.4
BCWSCUR	4.0	24.0	26.0	45.0	48.0	91.0	31.0	187.0	134.4	159.4
BCWPCUM	3.0	26.0	56.0	99.0	146.0	235.0	290.0	388.0	537.2	666.6
BCWSCUM	4.0	38.0	64.0	109.0	157.0	248.0	279.0	466.0	600.4	759.8

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Adjusted Snake Chart

Name: SENSORS

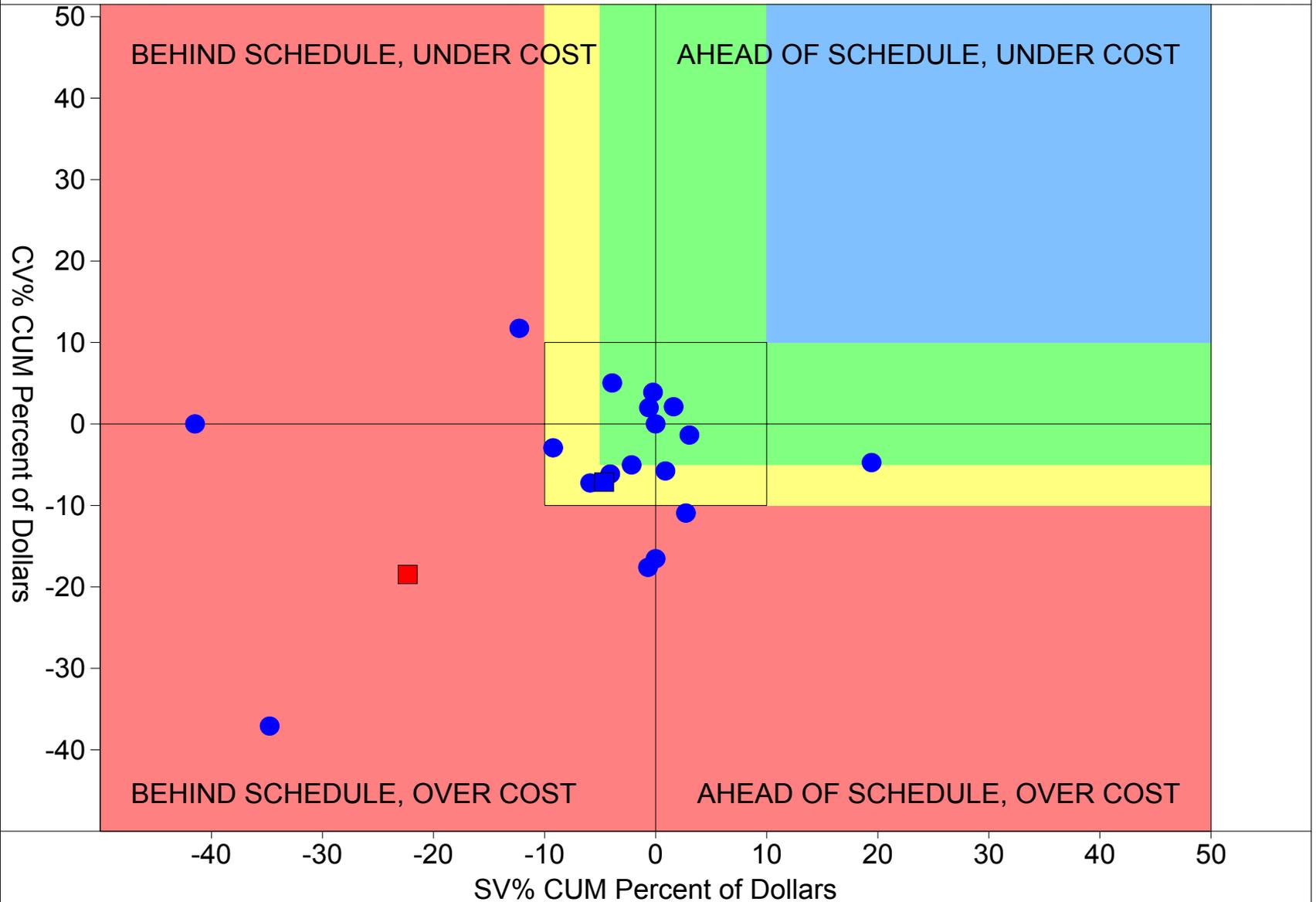


—x— BCWSA ~~244.4~~ 397.4
—◇— BCWPA ~~220.6~~ 360.8
—□— ACWPA ~~219.0~~ 371.4

Filter (Lowest)
All Elements

Aggregate Bull's-eye Chart
MOH-2 WBS JAN 93 Dollars

Highlight (Description)
COMMUNICATIONS

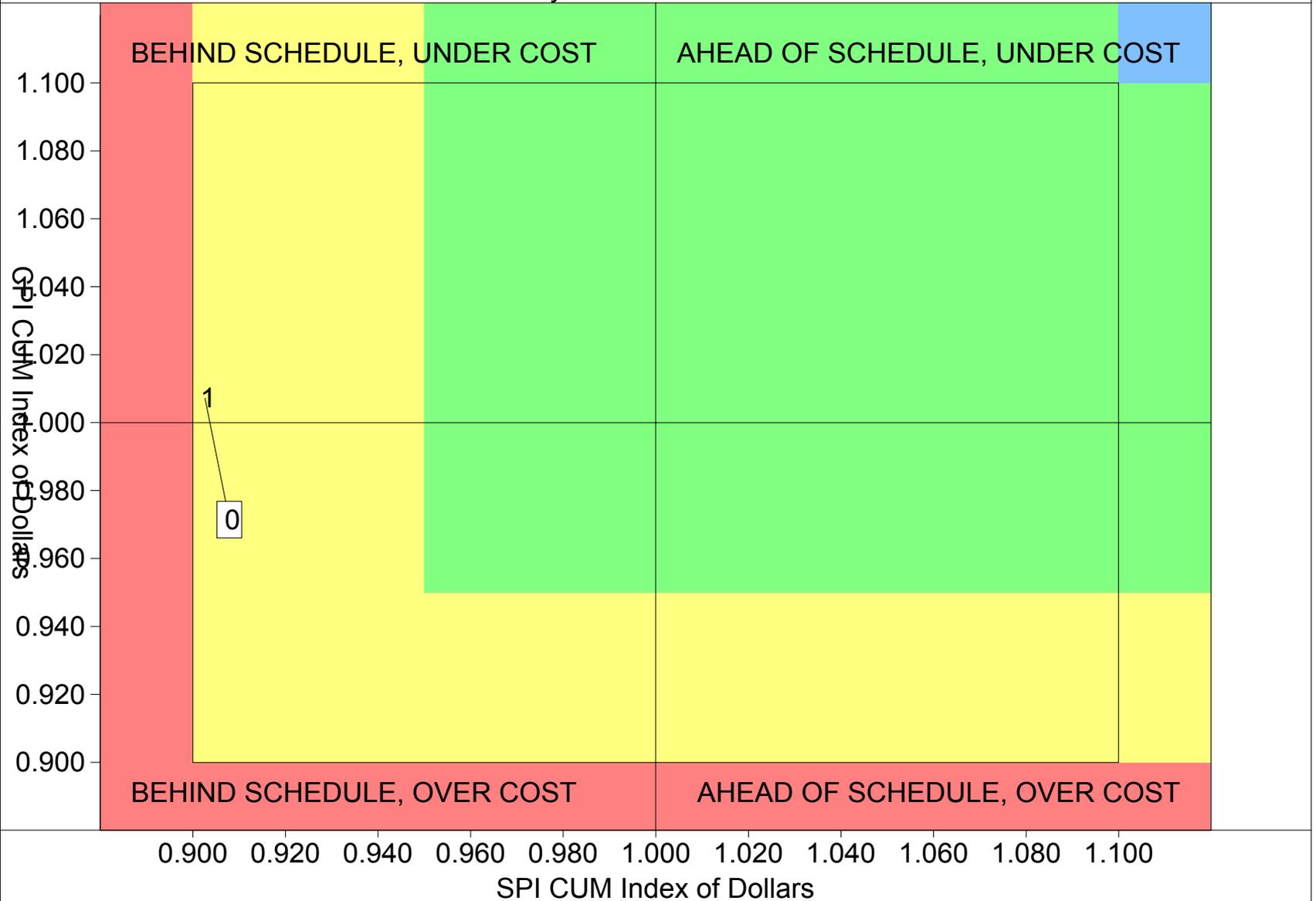


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Bull's-eye Chart - As of: JAN 93

Name: SENSORS

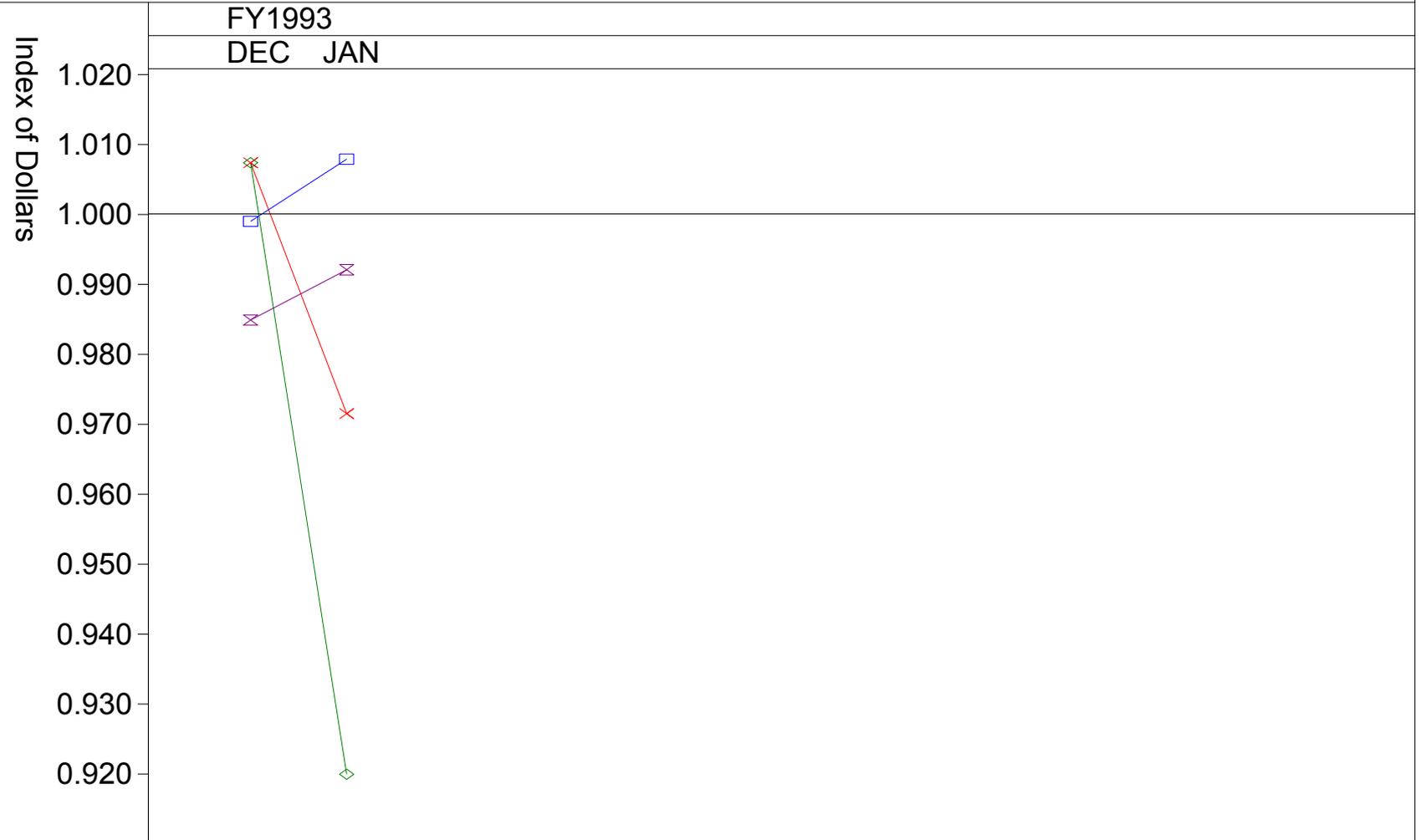


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Cost Performance Index

Name: SENSORS



—x—	CUM	1.007	0.971
—◇—	CUR	1.007	0.920
—□—	TC-BAC	0.999	1.008
—x—	TC-LRE	0.985	0.992

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

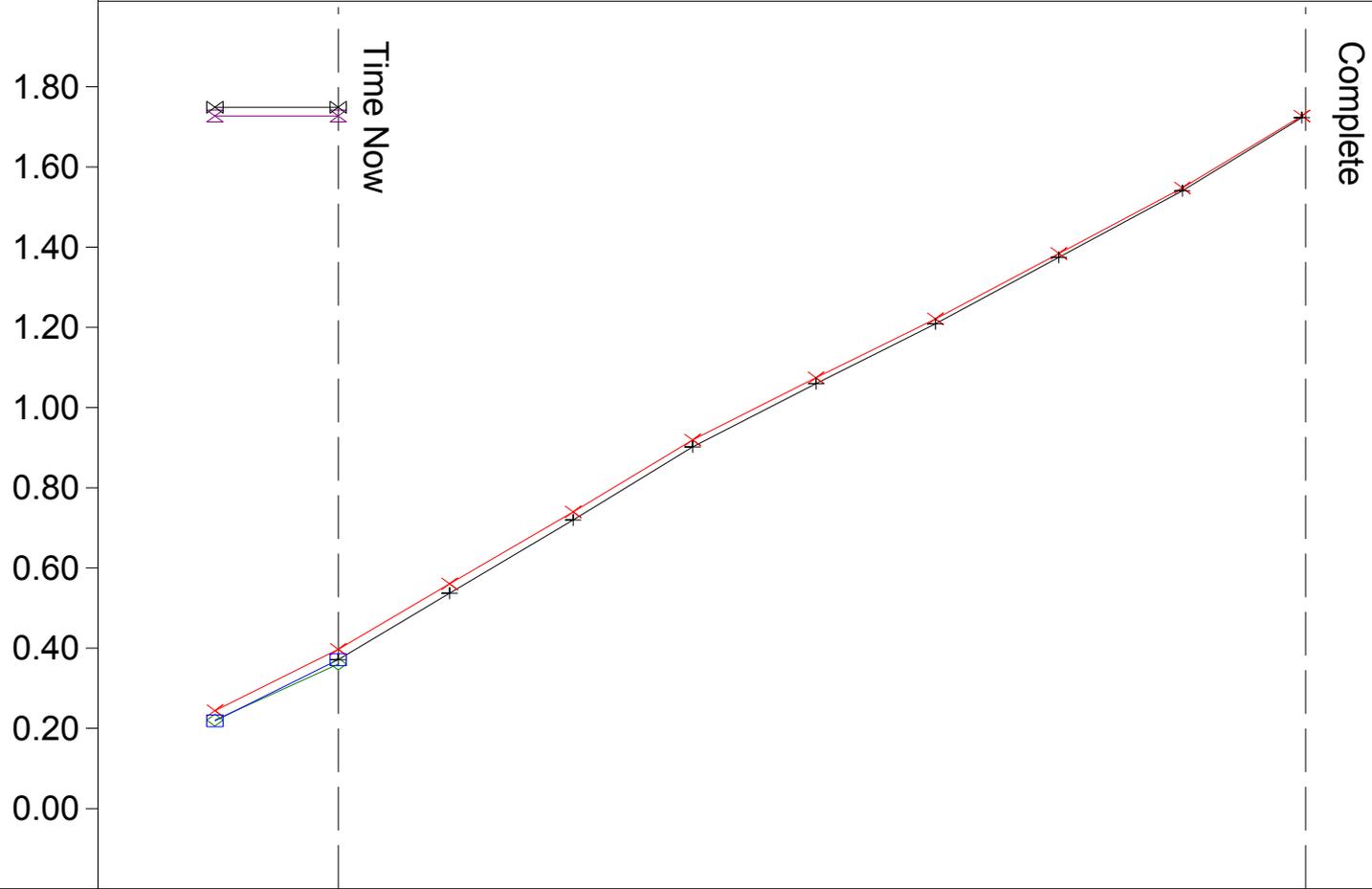
Element: 3100

Cum Element Performance

Name: SENSORS

FY1993

Dollars in Millions



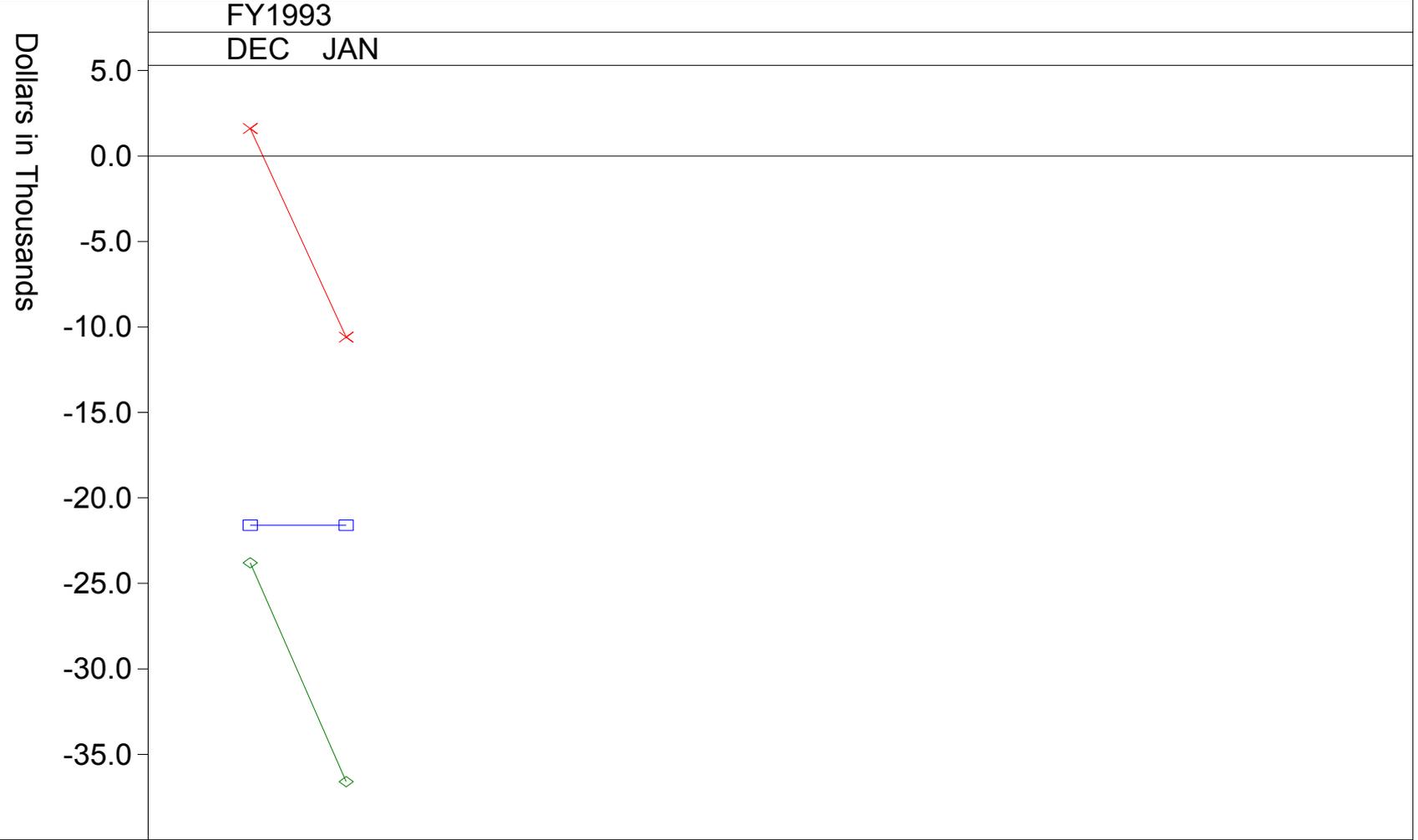
BCWS		0.397	BAC		1.728
BCWP		0.361	LRE		1.750
ACWP		0.371			
ETC		0.371			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Cumulative Variance

Name: SENSORS



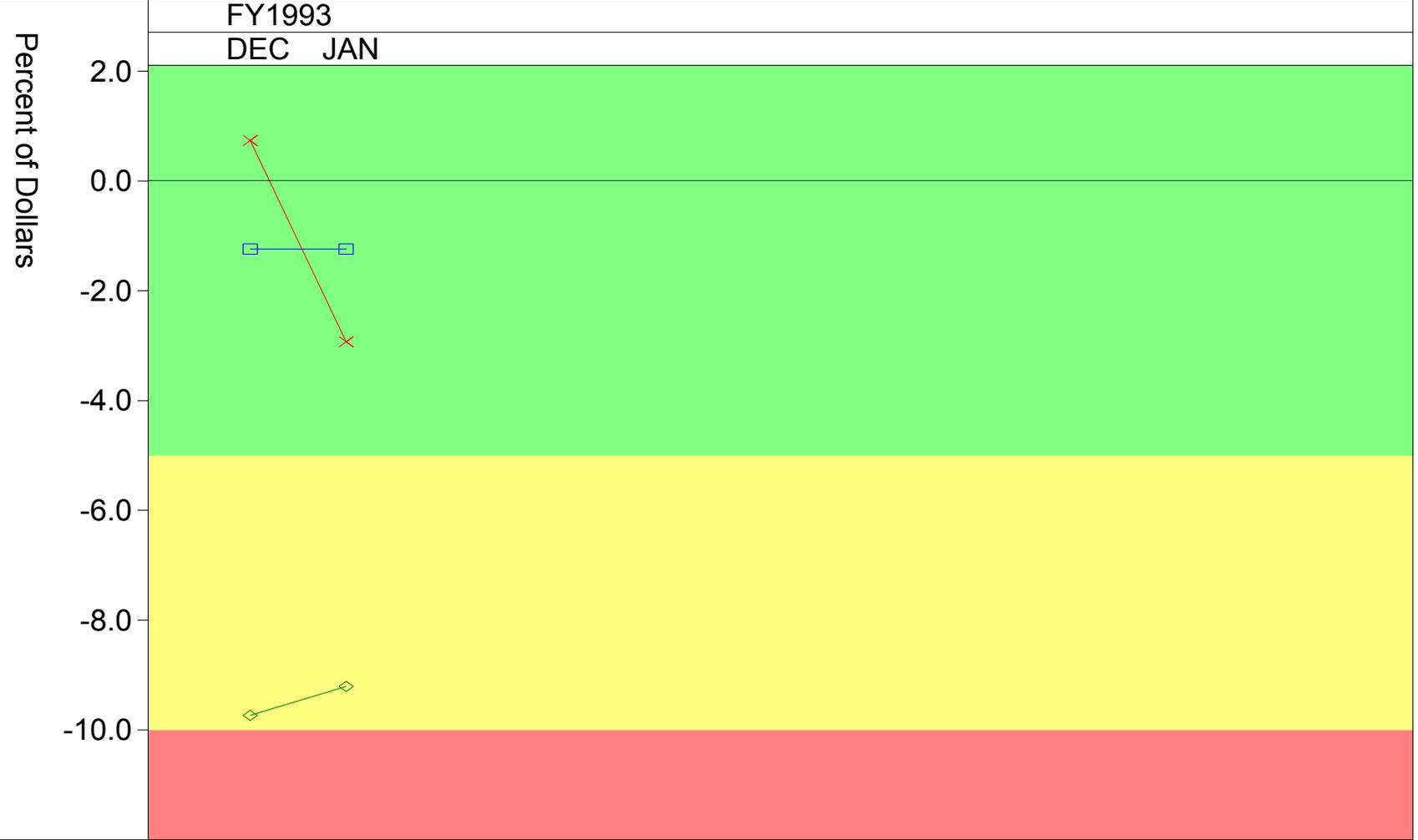
—x— COST 1.600-10.600
 —◇— SCHED -23.800-36.600
 —□— VAC -21.600-21.600

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Cumulative Variance Percent

Name: SENSORS



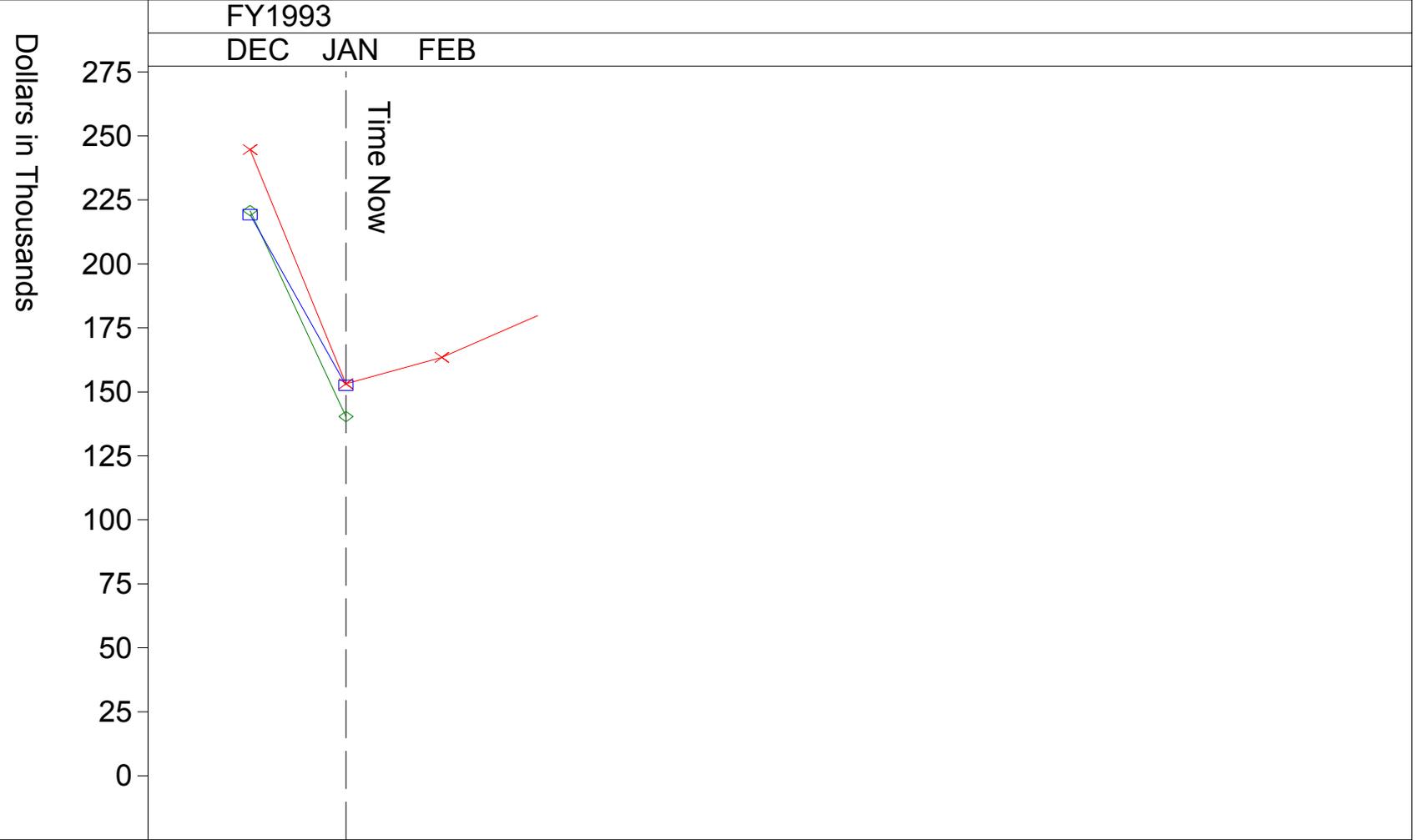
—x—	COST	0.73	-2.94
—◇—	SCHED	-9.74	-9.21
—□—	VAC	-1.25	-1.25

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Cur Element Performance

Name: SENSORS



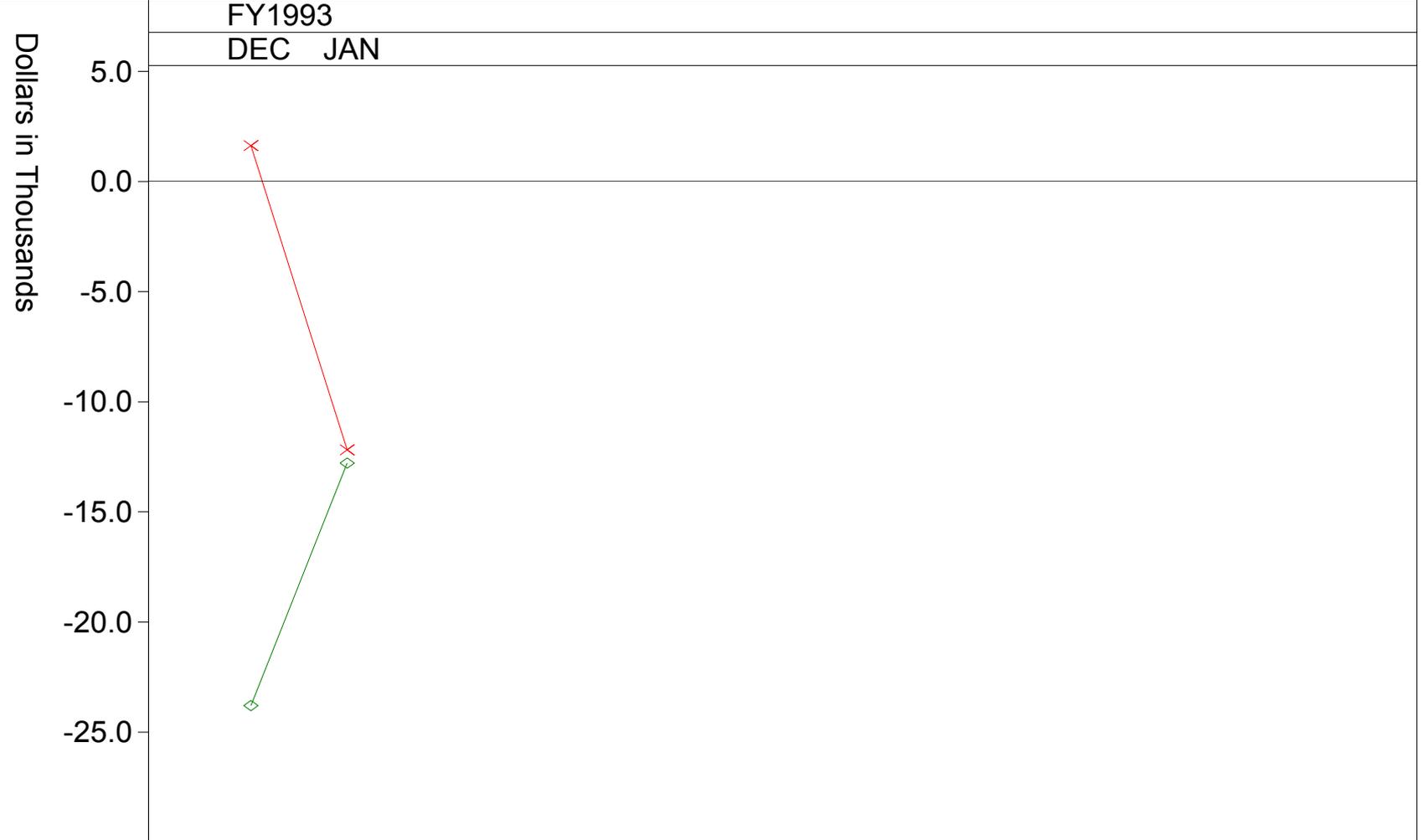
—x—	BCWS	244.4	153.0	163.3
—◇—	BCWP	220.6	140.2	
—□—	ACWP	219.0	152.4	

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Current Variance

Name: SENSORS



—x— COST 1.600-12.200
—◇— SCHED -23.800-12.800

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Current Variance Percent

Name: SENSORS



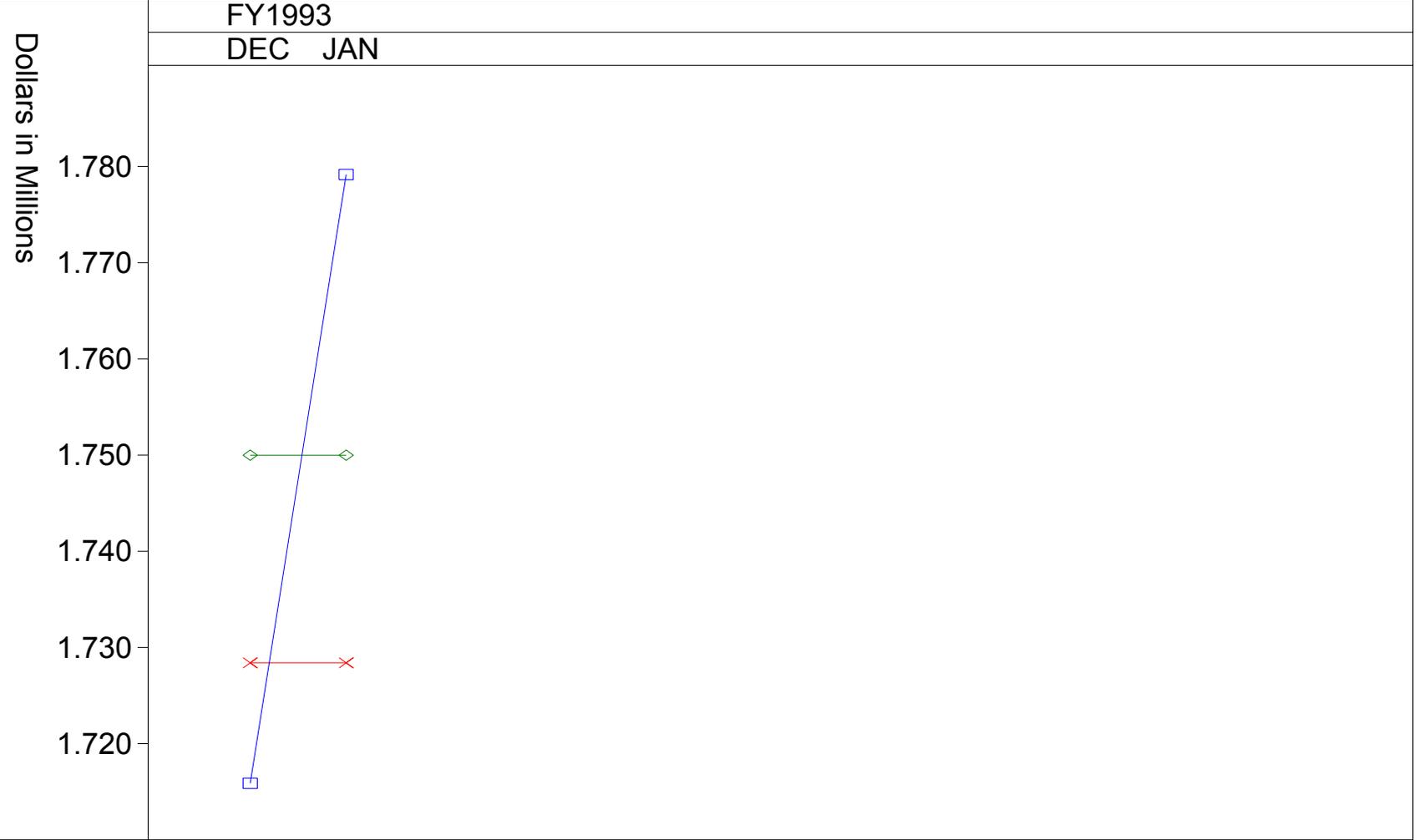
—x— COST 0.73 -8.70
—◇— SCHED -9.74 -8.37

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Estimates at Completion

Name: SENSORS



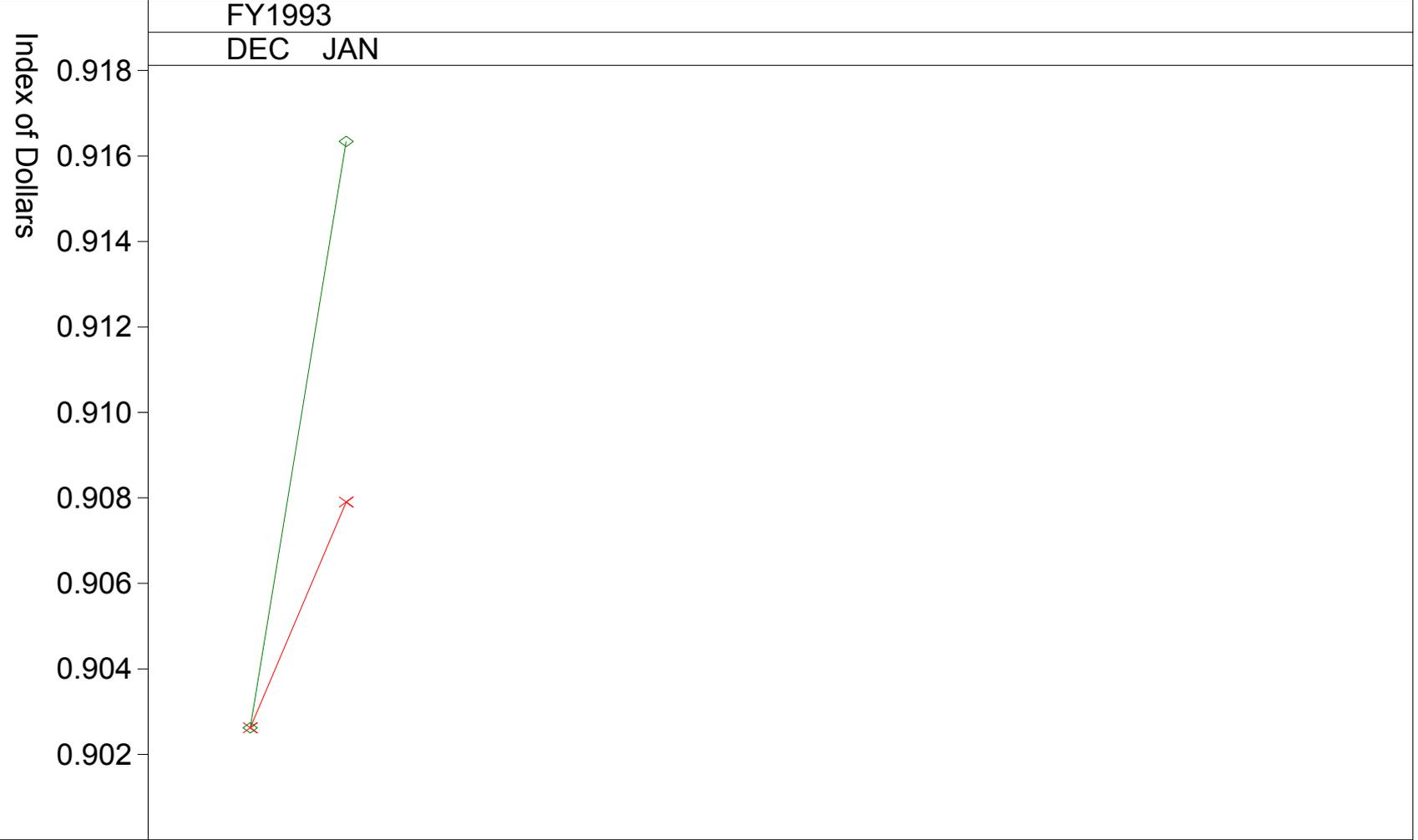
—x— BAC 1.728 1.728
—◇— LRE 1.750 1.750
—□— CUM CPI 1.716 1.779

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Schedule Performance Index

Name: SENSORS



—x—	CUM	0.903	0.908
—◇—	CUR	0.903	0.916

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 3100

Standard Earned Value

Name: SENSORS



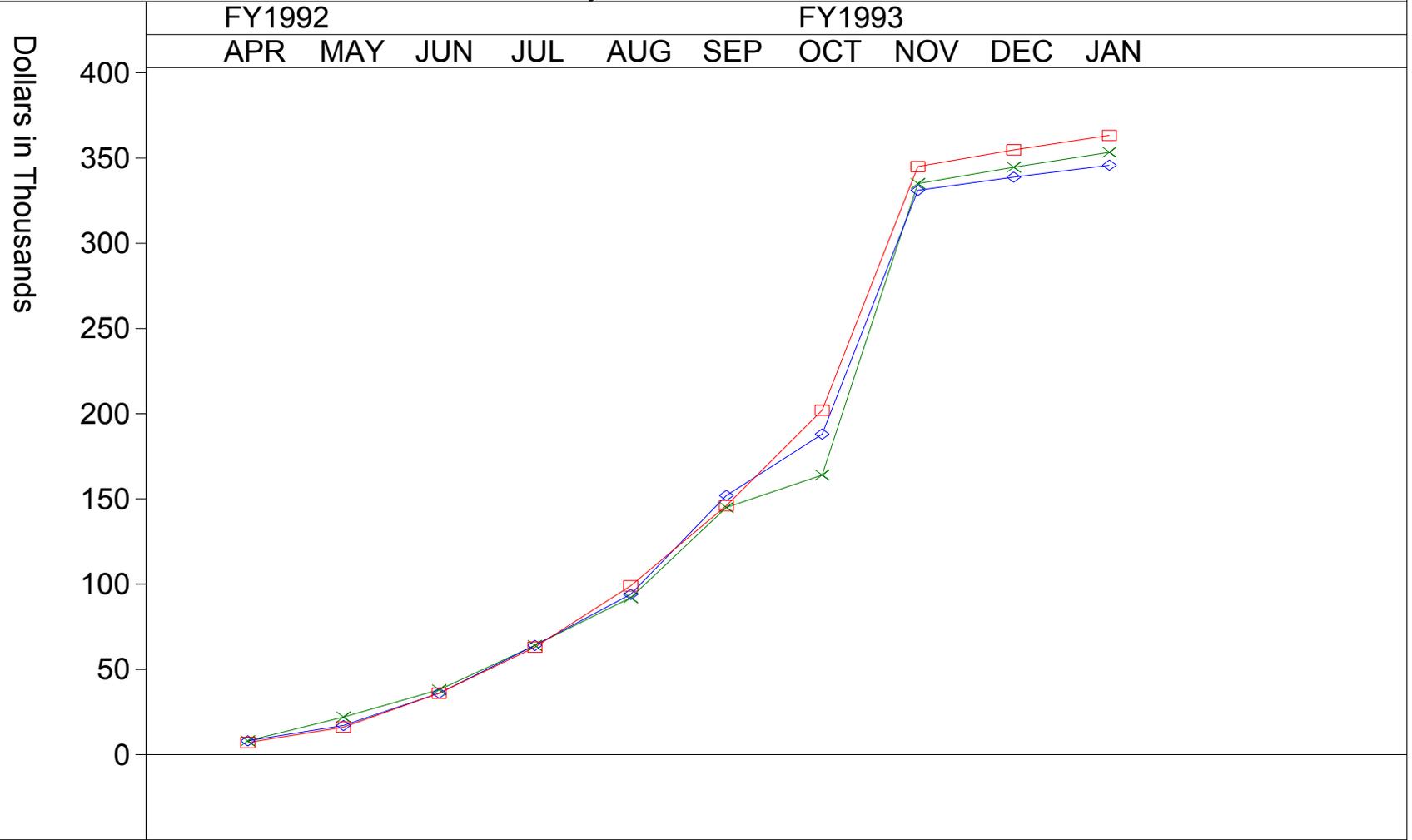
- ACWPC 219.0 371.4
- ACWPC 219.0 152.4
- BCWPC 220.6 140.2
- BCWSC 244.4 153.0
- BCWPC 220.6 360.8
- BCWSC 244.4 397.4

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Adjusted Snake Chart

Name: FUNC INTEGRA

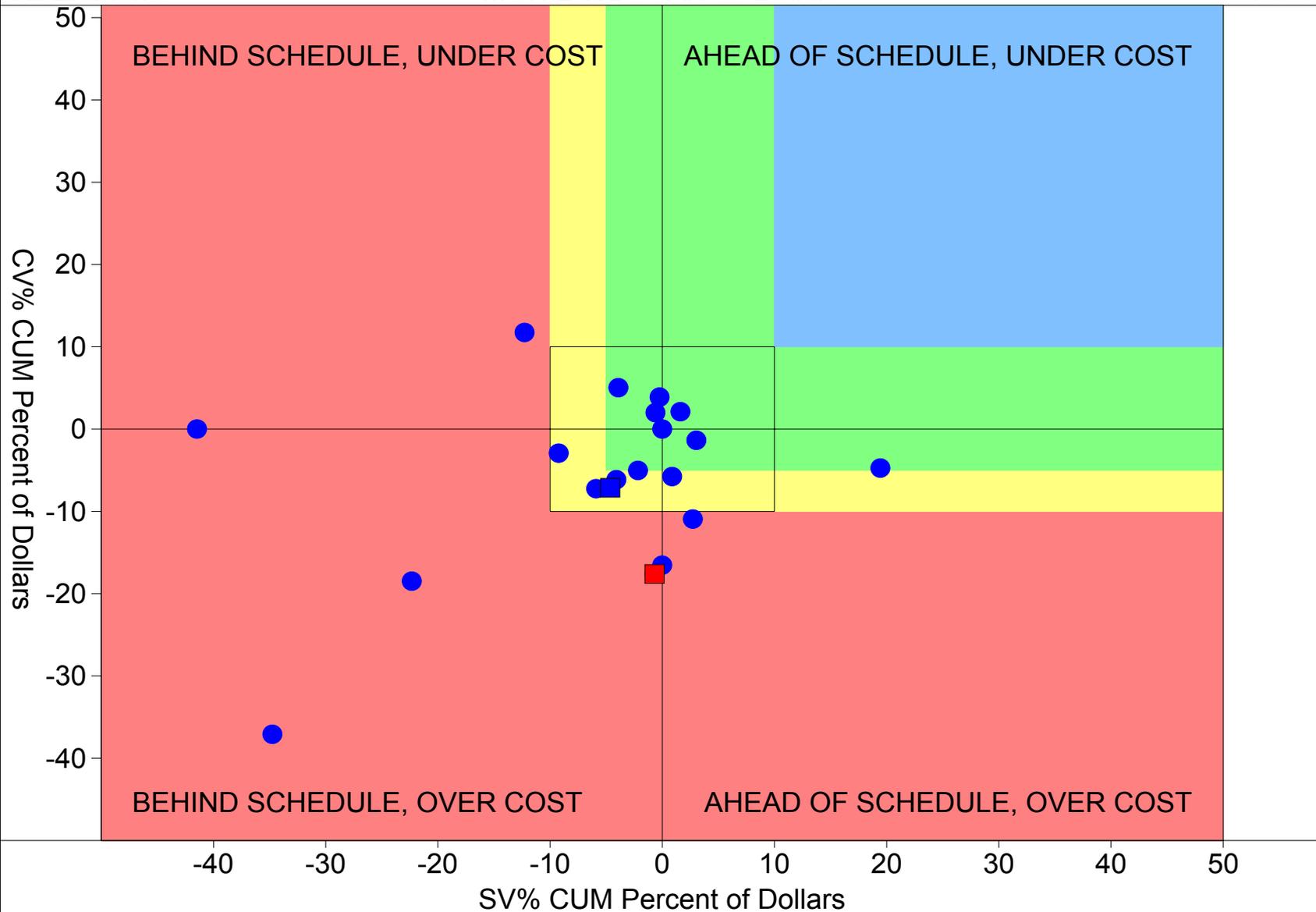


	FY1992	FY1993								
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
—x— BCWSADJ 8.0	22.0	38.0	64.0	92.0	145.0	164.0	335.0	344.6	353.4	
—◇— BCWPADJ 8.0	17.0	36.0	64.0	94.0	152.0	188.0	331.0	338.8	345.8	
—□— ACWPADJ 7.0	16.0	36.0	63.0	99.0	146.0	202.0	345.0	354.8	363.2	

Filter (Lowest)
All Elements

Aggregate Bull's-eye Chart
MOH-2 WBS JAN 93 Dollars

Highlight (Description)
PCC

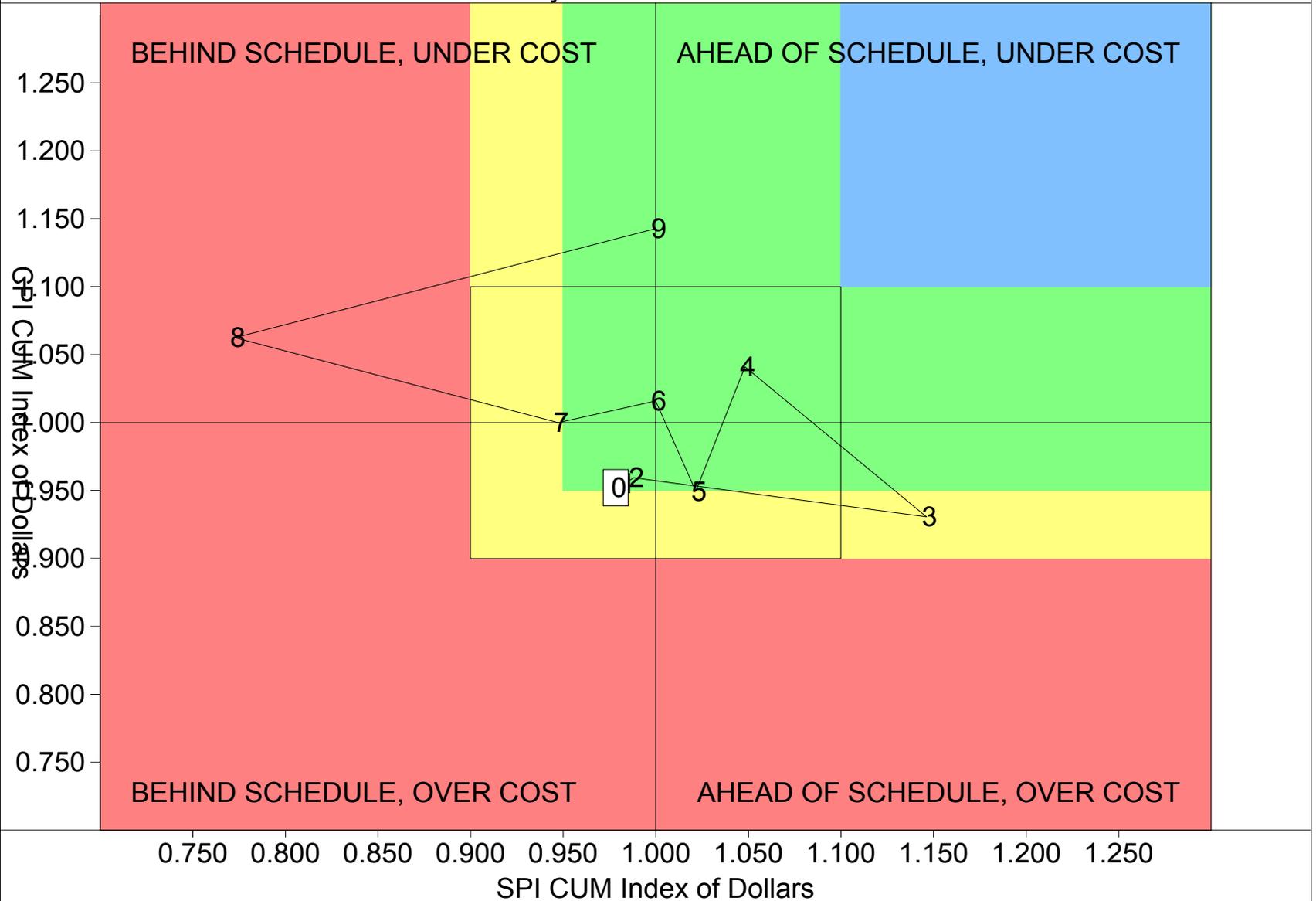


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Bull's-eye Chart - As of: JAN 93

Name: FUNC INTEGRA

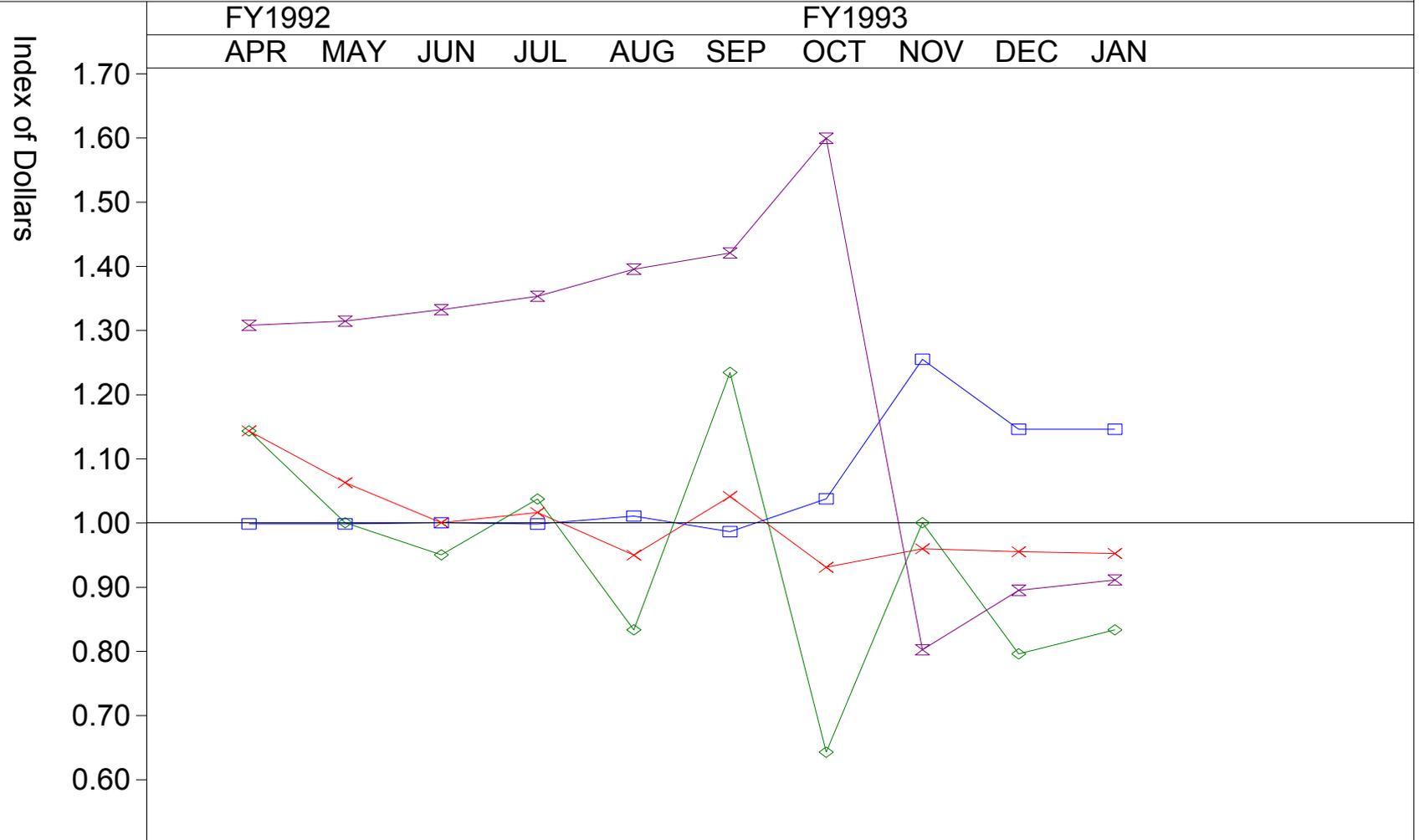


MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Cost Performance Index

Name: FUNC INTEGRA



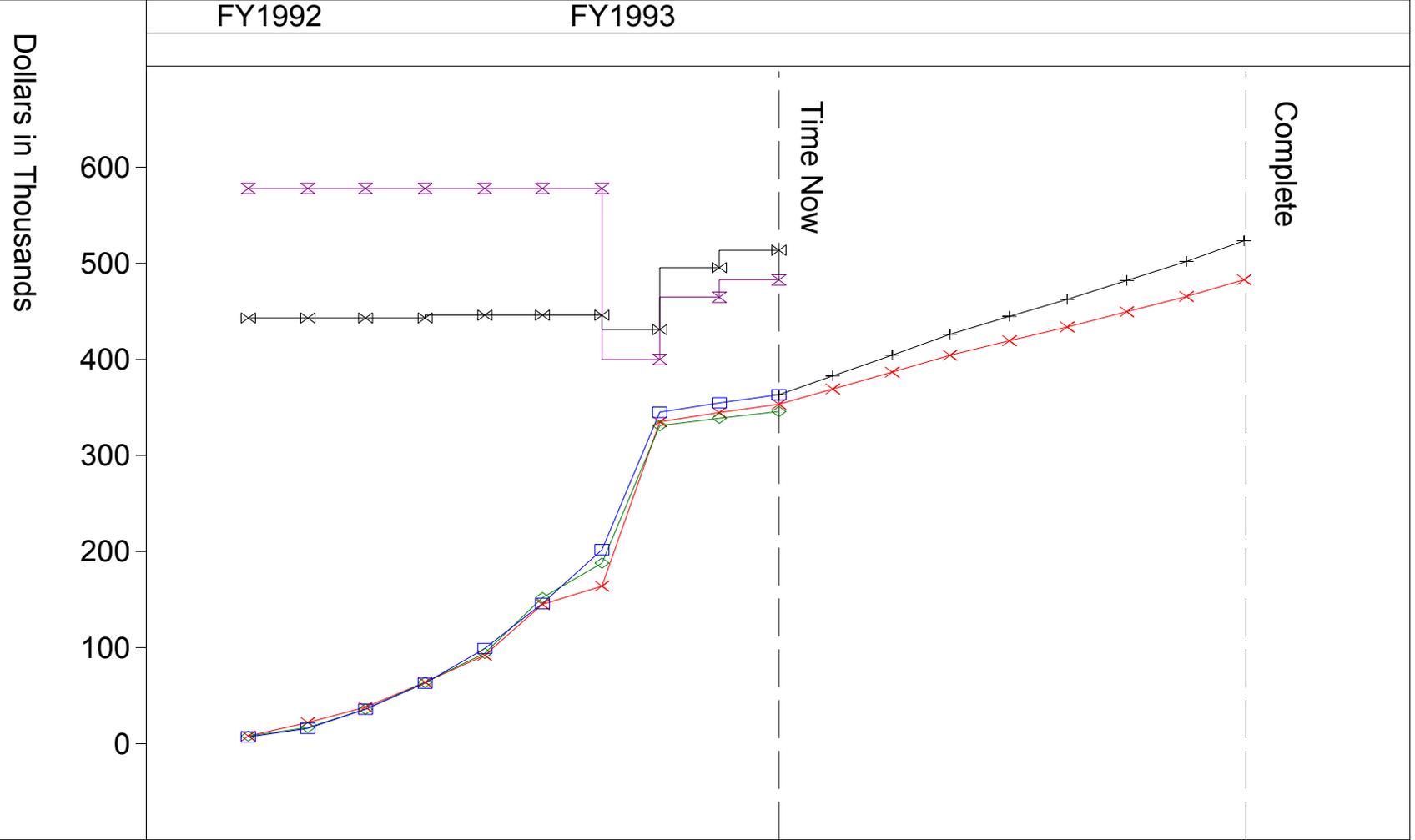
—x—	CUM	1.143	1.063	1.000	1.016	0.949	1.041	0.931	0.959	0.955	0.952
—◇—	CUR	1.143	1.000	0.950	1.037	0.833	1.234	0.643	1.000	0.796	0.833
—□—	TC-BAC	0.998	0.998	1.000	0.998	1.010	0.986	1.037	1.255	1.145	1.145
—x—	TC-LRE	1.307	1.314	1.332	1.353	1.395	1.420	1.598	0.802	0.895	0.911

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Cum Element Performance

Name: FUNC INTEGRA



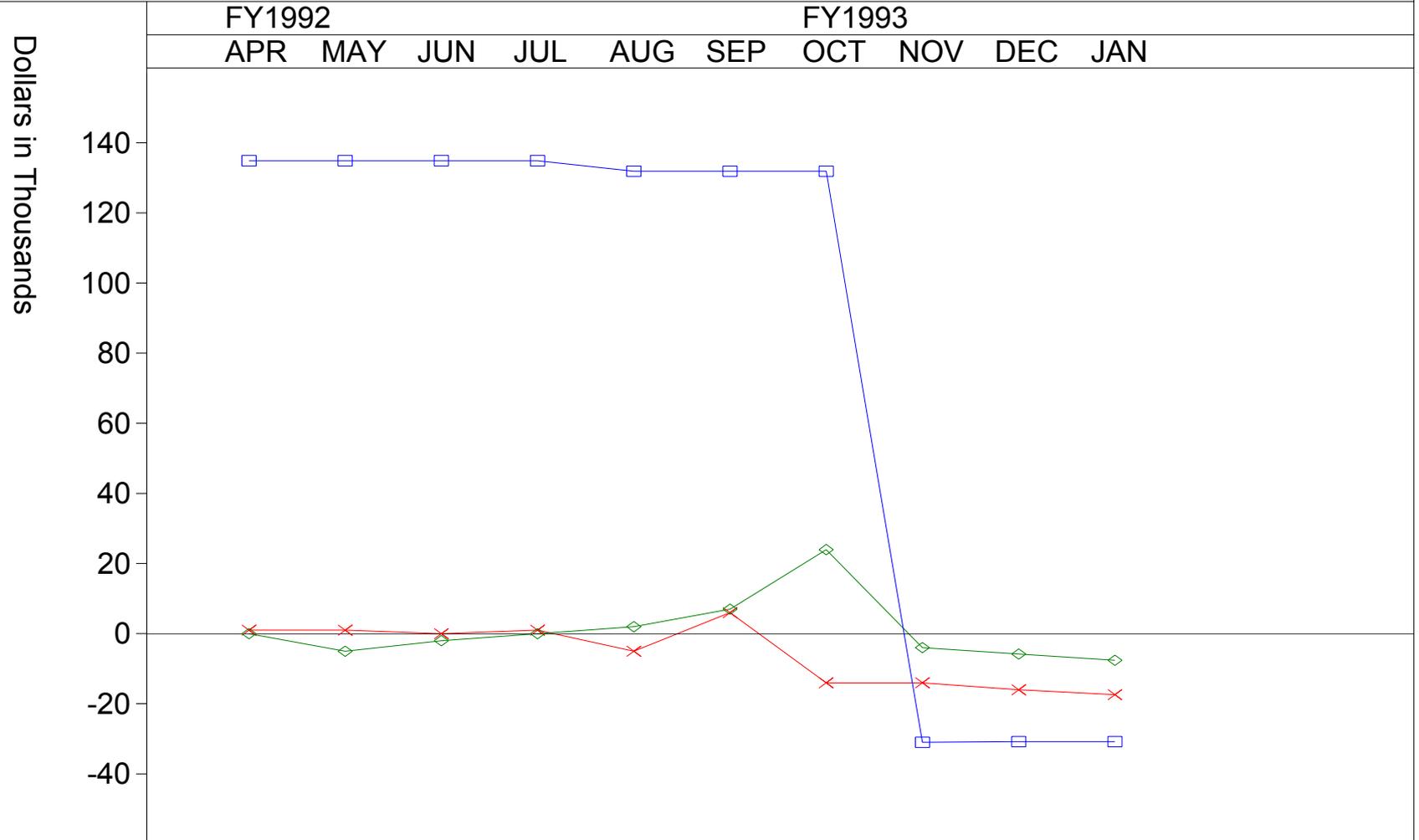
BCWS		353.4	BAC		482.8
BCWP		345.8	LRE		513.6
ACWP		363.2			
ETC		363.2			

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Cumulative Variance

Name: FUNC INTEGRA



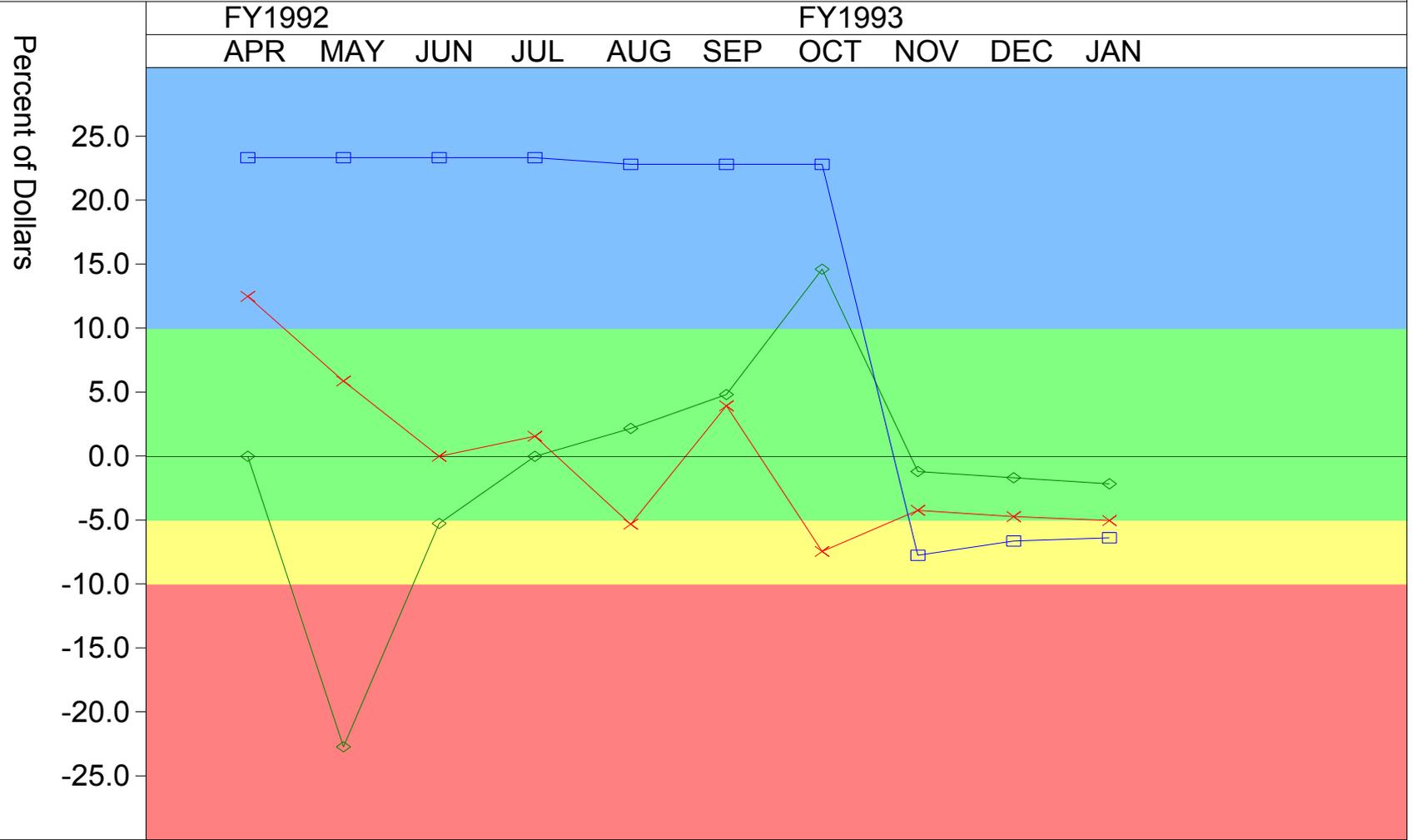
—x—	COST	1.0	1.0	0.0	1.0	-5.0	6.0	-14.0	-14.0	-16.0	-17.4
—◇—	SCHED	0.0	-5.0	-2.0	0.0	2.0	7.0	24.0	-4.0	-5.8	-7.6
—□—	VAC	135.0	135.0	135.0	135.0	132.0	132.0	132.0	-31.0	-30.8	-30.8

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Cumulative Variance Percent

Name: FUNC INTEGRA



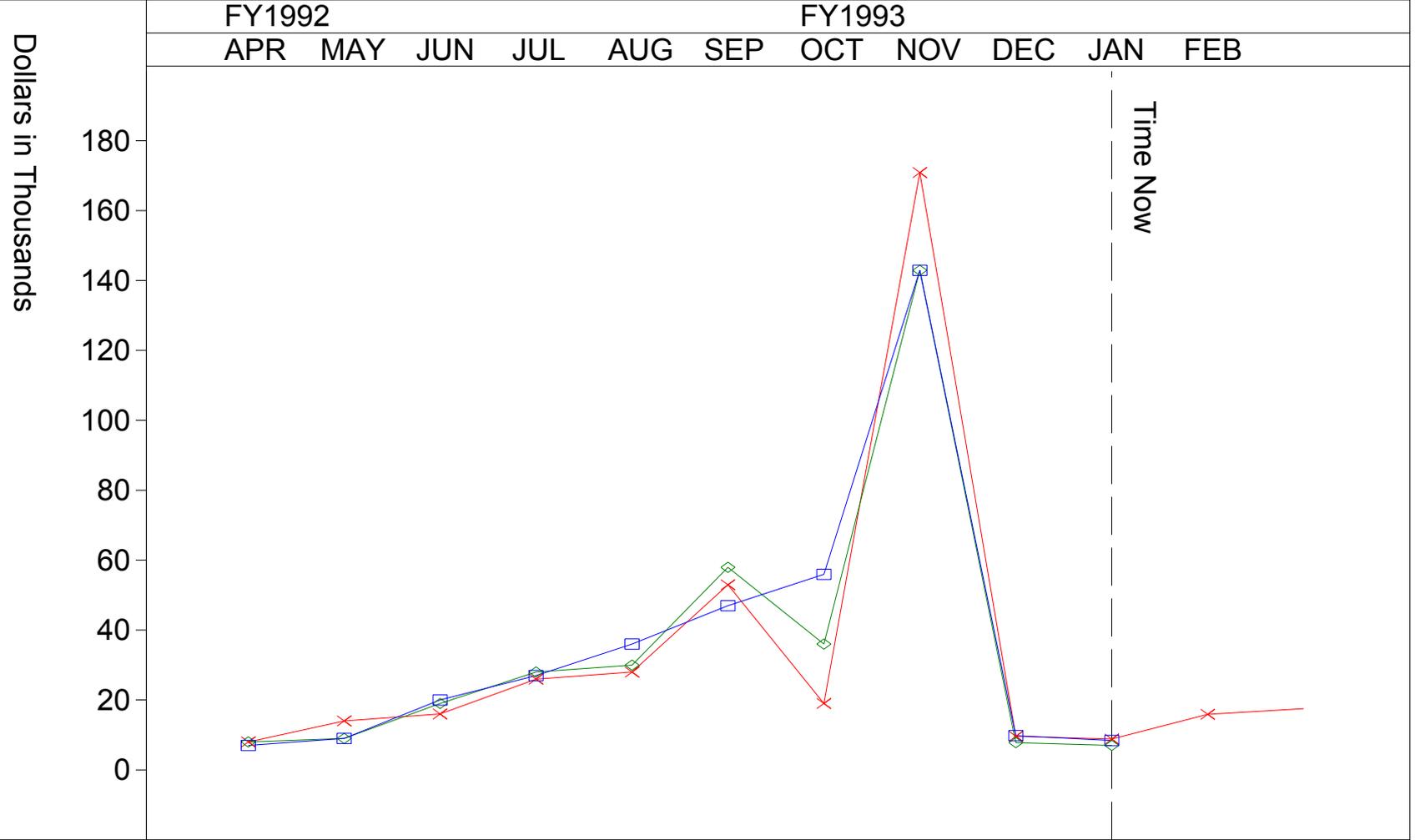
—x—	COST	12.50	5.88	0.00	1.56	-5.32	3.95	-7.45	-4.23	-4.72	-5.03
—◇—	SCHED	0.00	-22.73	-5.26	0.00	2.17	4.83	14.63	-1.19	-1.68	-2.15
—□—	VAC	23.36	23.36	23.36	23.36	22.84	22.84	22.84	-7.75	-6.63	-6.38

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Cur Element Performance

Name: FUNC INTEGRA



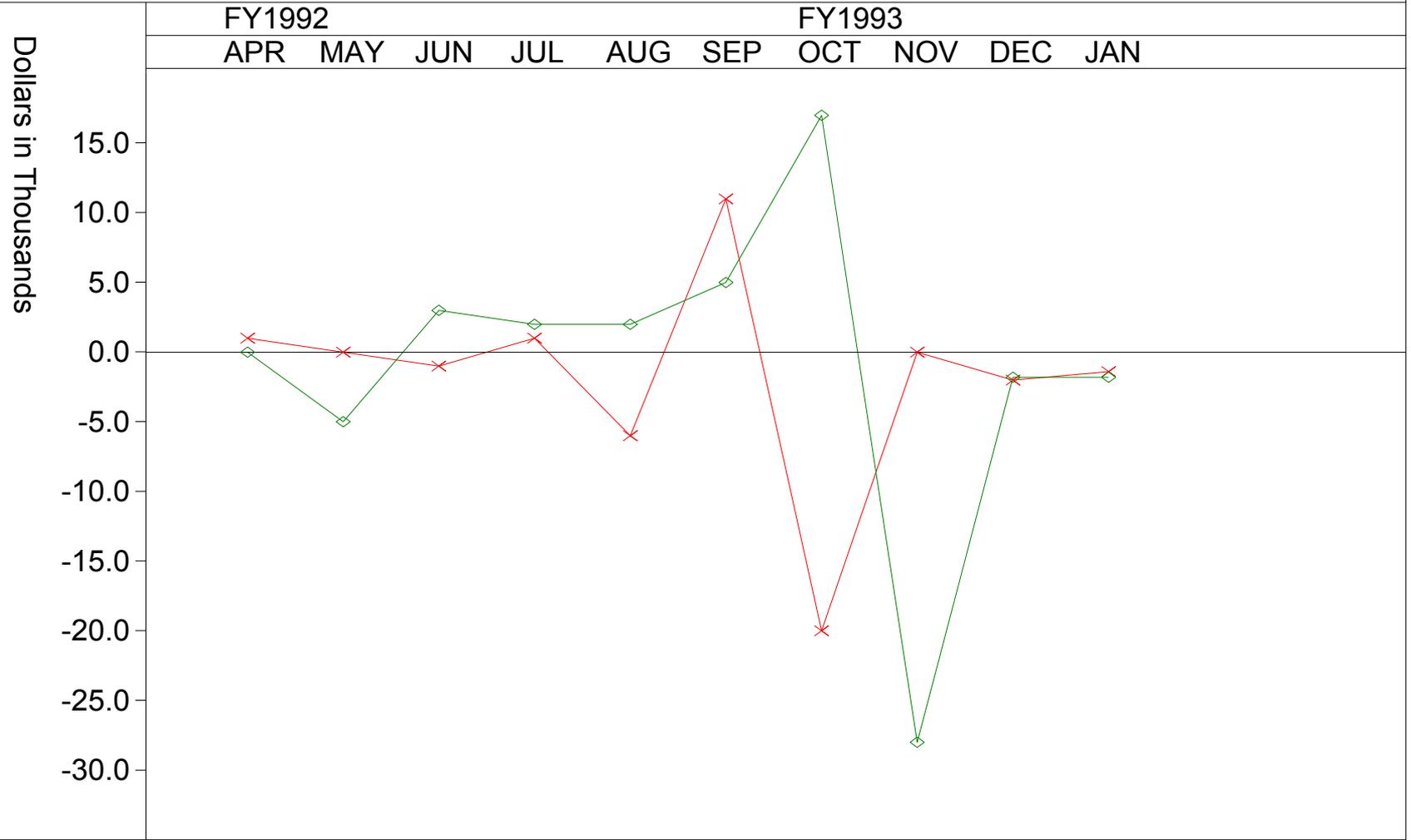
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
BCWS	8.0	14.0	16.0	26.0	28.0	53.0	19.0	171.0	9.6	8.8	15.9
BCWP	8.0	9.0	19.0	28.0	30.0	58.0	36.0	143.0	7.8	7.0	
ACWP	7.0	9.0	20.0	27.0	36.0	47.0	56.0	143.0	9.8	8.4	

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Current Variance

Name: FUNC INTEGRA



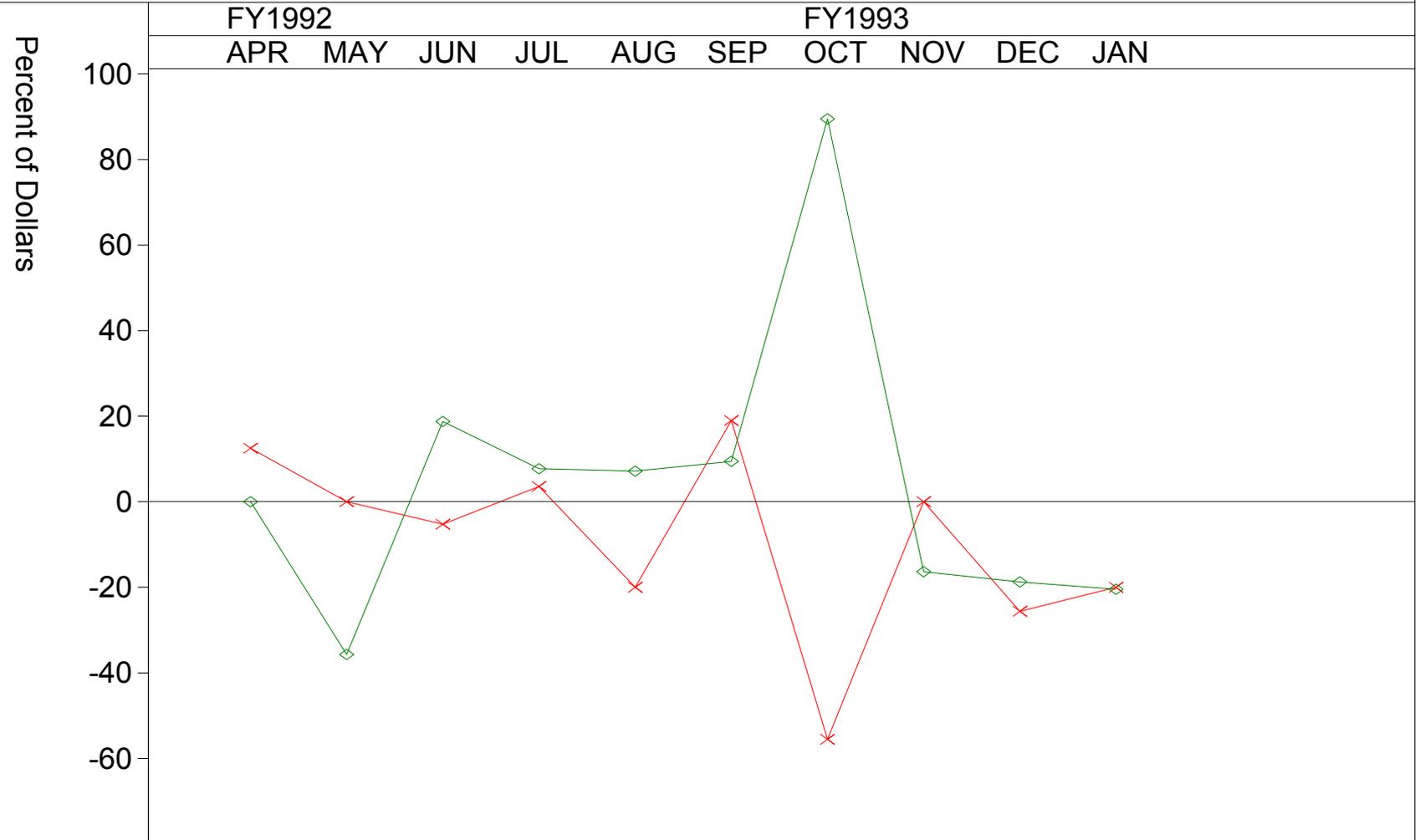
—x—	COST	1.00	0.00	-1.00	1.00	-6.00	11.00	-20.00	0.00	-2.00	-1.40
—◇—	SCHED	0.00	-5.00	3.00	2.00	2.00	5.00	17.00	-28.00	-1.80	-1.80

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Current Variance Percent

Name: FUNC INTEGRA



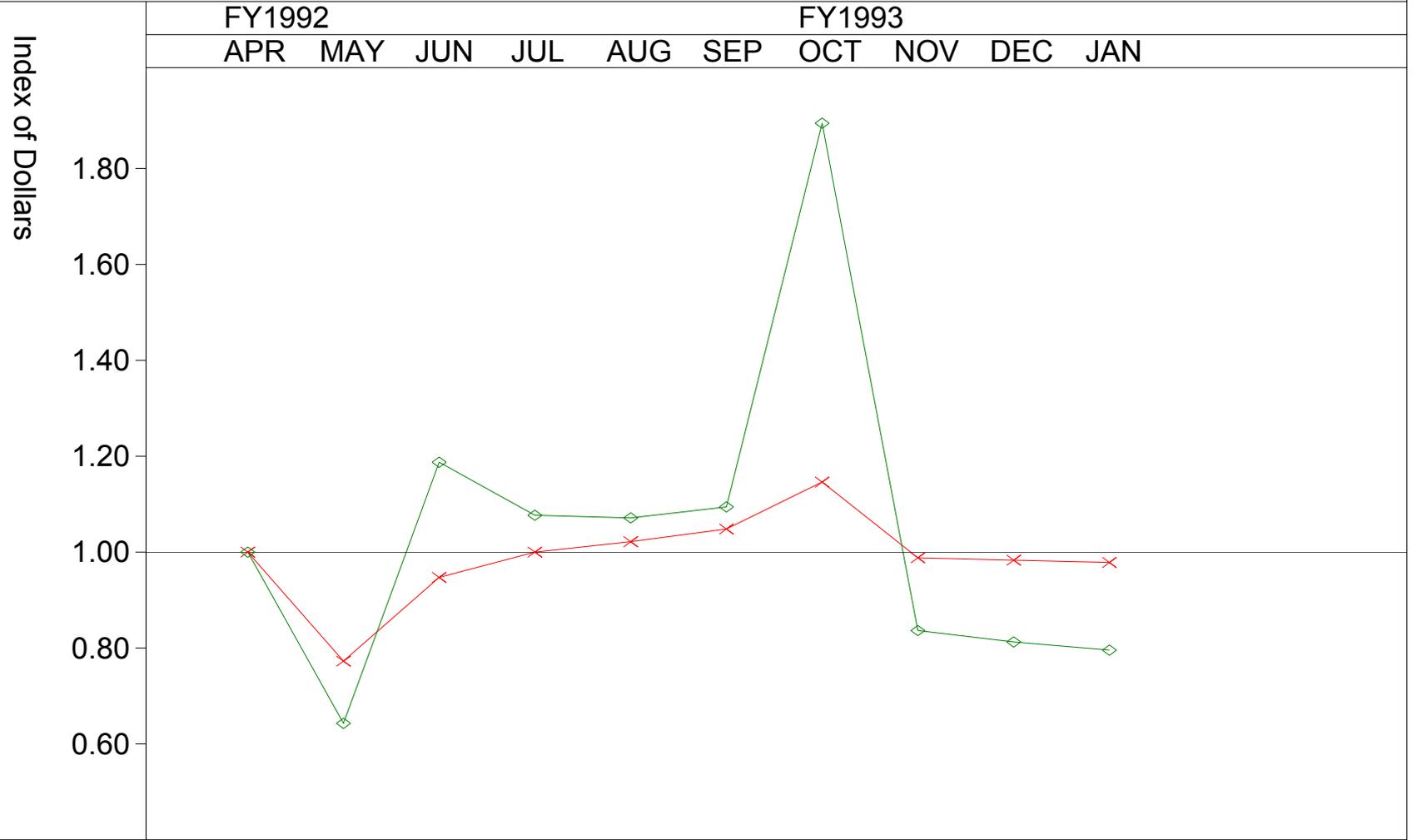
—x—	COST	12.50	0.00	-5.26	3.57	-20.00	18.97	-55.56	0.00	-25.64	-20.00
—◇—	SCHED	0.00	-35.71	18.75	7.69	7.14	9.43	89.47	-16.37	-18.75	-20.45

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Schedule Performance Index

Name: FUNC INTEGRA



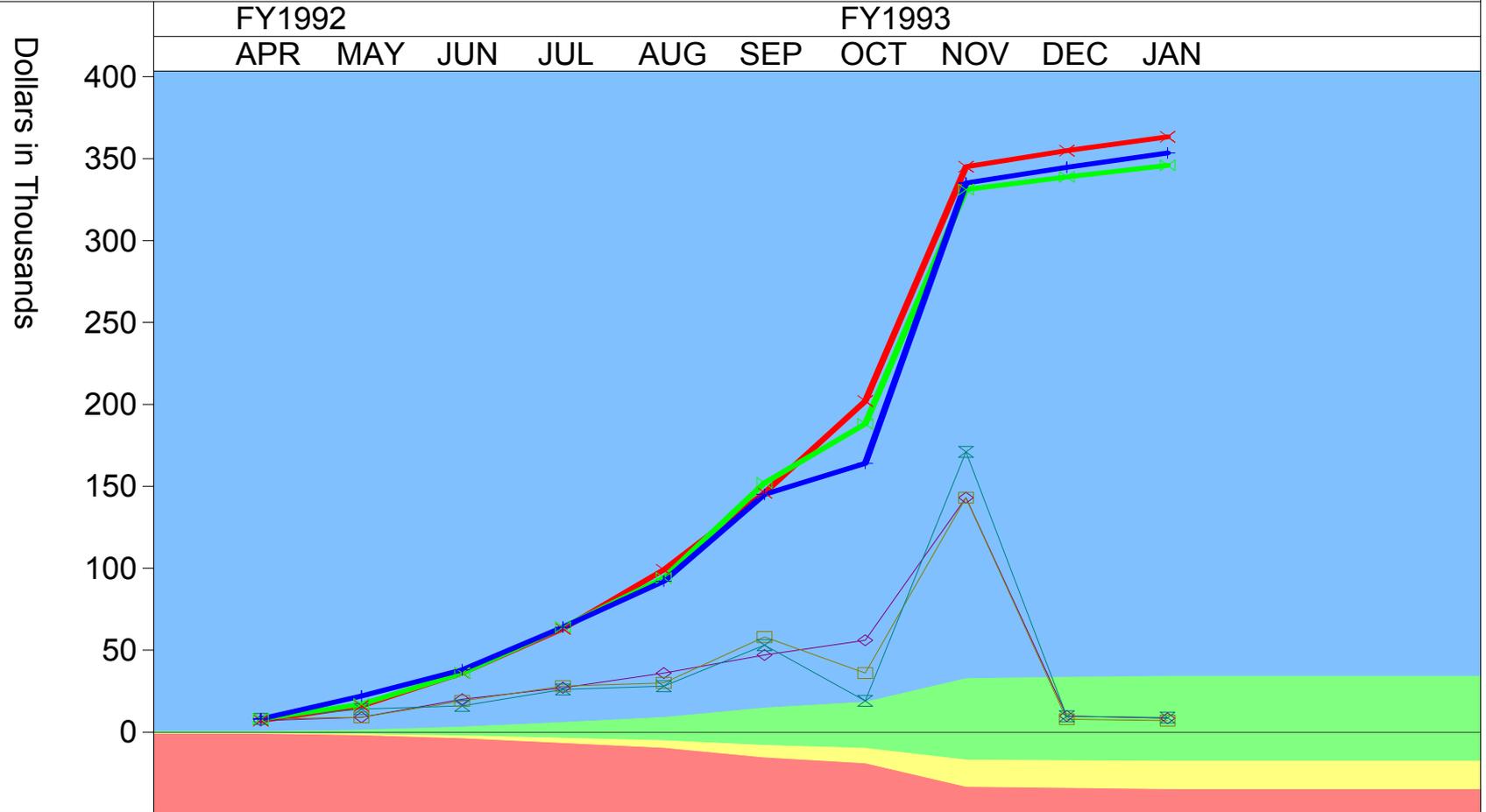
—x—	CUM	1.000	0.773	0.947	1.000	1.022	1.048	1.146	0.988	0.983	0.978
—◇—	CUR	1.000	0.643	1.188	1.077	1.071	1.094	1.895	0.836	0.813	0.795

MEGA HERZ ELEC & VEN F04695-86-C-0050 FPI RDPR

Element: 2300

Standard Earned Value

Name: FUNC INTEGRA



ACWPCUM7.0	7.0	16.0	36.0	63.0	99.0	146.0	202.0	345.0	354.8	363.2
ACWPCUR7.0	9.0	20.0	27.0	36.0	47.0	56.0	143.0	9.8	8.4	
BCWPCUR8.0	9.0	19.0	28.0	30.0	58.0	36.0	143.0	7.8	7.0	
BCWSCUR8.0	14.0	16.0	26.0	28.0	53.0	19.0	171.0	9.6	8.8	
BCWPCUM8.0	17.0	36.0	64.0	94.0	152.0	188.0	331.0	338.8	345.8	
BCWSCUM8.0	22.0	38.0	64.0	92.0	145.0	164.0	335.0	344.6	353.4	