

September 29, 1994

Carolina Power and Light Company
ATTN: Mr. W. Campbell
Vice President
Nuclear Engineering Department
P. O. Box 1551
Raleigh, NC 27602

SUBJECT: MEETING SUMMARY - CAROLINA POWER AND LIGHT ENGINEERING

Gentlemen:

This refers to the management meeting conducted in the Region II Office on September 23, 1994. The purpose of the meeting was to discuss the Carolina Power and Light engineering program and improvements. A list of attendees and a copy of your slides are enclosed.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosures will be placed in the NRC Public Document Room.

Should you have any questions concerning this letter, please contact us.

Sincerely,



Bruce A. Boger, Acting Director
Division of Reactor Projects

Docket Nos.: 50-325, 50-324,
50-400 and 50-261
License Nos.: DPR-71, DPR-62,
NPF-63 and DPR-23

Enclosures: 1. List of Attendees
2. Licensee Slides

cc w/encls: H. W. Habermeyer, Jr.
Vice President
Nuclear Services Department
Carolina Power & Light Company
P. O. Box 1551 - Mail OHS7
Raleigh, NC 27602

(cc w/encls cont'd - See page 2)

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PDR ADOCK 05000261
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D. R. Young
Plant Manager
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J. W. Donahue
Plant Manager - Harris Plant
Carolina Power & Light Company
Shearon Harris Nuclear Power Plant
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R. Krich, Manager
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Associate General Counsel
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(cont'd)
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Dayne H. Brown, Director
Division of Radiation Protection
N. C. Department of Environmental
Commerce & Natural Resources
P. O. Box 27687
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Max Batavia, Chief
Bureau of Radiological Health
Dept. of Health and Environmental
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H. Ray Starling
Manager - Legal Department
Carolina Power and Light Co.
P. O. Box 1551
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The Honorable Hugh Wells, Chairman
North Carolina Utilities Commission
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cc w/encls:

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Executive Director
Public Staff - NCUC
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Raleigh, NC 27626-0520

Public Service Commission
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Columbia, SC 29211

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City of Wilmington
P. O. Box 1810
Wilmington, NC 28402

Mayor
City of Southport
212 Frink Drive
Southport, NC 28461

Mayor
City of Boiling Spring Lakes
336 Cedar Road
Boiling Spring Lakes, NC 28461

Distribution w/encls:

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 U. S. Nuclear Regulatory Commission
 Route 5, Box 413
 Hartsville, SC 29550

NRC Resident Inspector
 U. S. Nuclear Regulatory Commission
 5421 Shearon Harris Road
 New Hill, NC 27562-9998

SEND	OFC	RII:DRP <i>HW</i>	RII:DRP <i>HW</i>	RII:DRP <i>HW</i>	RII:DRP <i>HW</i>	RII:DRP <i>HW</i>
TO	NAME	JStarefos:tj <i>FW</i>	CPatterson <i>FW</i>	JTedrow <i>FW</i>	WOrders <i>FW</i>	HChristensen <i>HW</i>
PDR?	DATE	09/28/94	09/28/94	09/28/94 <i>FW</i>	09/28/94 <i>FW</i>	09/28/94
Yes	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

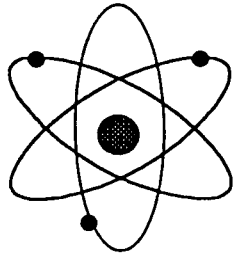
LIST OF ATTENDEES

Nuclear Regulatory Commission:

S. D. Ebnetter, Regional Administrator, Region II (RII)
A. F. Gibson, Director, Division of Reactor Safety (DRS), RII
J. R. Johnson, Acting Deputy Director, Division of Radiation Safety
and Safeguards
B. A. Boger, Acting Director, Division of Reactor Projects (DRP), RII
B. S. Mallett, Acting Deputy Director, DRS, RII
H. O. Christensen, Acting Chief, Reactor Projects Branch 1, DRP, RII
C. A. Casto, Acting Chief, Engineering Branch, DRS, RII
P. D. Milano, Project Manager, Office of Nuclear Reactor Regulation

Licensee Attendees:

W. Orser, Executive Vice President, Nuclear Generation Group
W. Campbell, Vice President, Engineering
S. Zimmerman, Manager, Nuclear Fuels Department
R. Grazio, Manager, Brunswick Engineering Support Services
G. Rolfson, Manager, Harris Engineering Support Services
G. Miller, Manager, Robinson Engineering Support Services
R. Rogan, Manager, Regulatory Compliance



NRC - CP&L ENGINEERING MANAGEMENT MEETING

CP&L

September 23, 1994
Enclosure 2

AGENDA

- **Introduction** **Bill Campbell**
- **Improvement Initiatives Completed** **Bill Campbell**
- **Remaining Challenges** **Bill Campbell**
- **Organization Changes** **Bill Campbell**
- **BNP Engineering Backlog** **Bob Grazio**
- **BNP Major Outsourcing** **Bob Grazio**
- **RNP AIT Fuels Actions** **Sherwood Zimmerman**

NUCLEAR ENGINEERING DEPARTMENT

Improvement Initiatives Completed

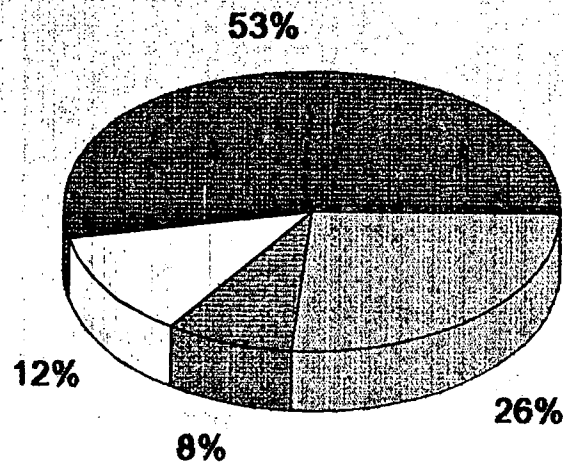
- Design Engineering Relocation
- Reorganization
- Self Assessment Plan
- Common Engineering Process (ESR)
- Staff Augmentation Contractors Reduced
- Training Enhancements
- Backlog Reduction
- Strengthened Technical Capabilities and Management Team
- Technical Issues Management
- Robinson Improvement Plan (NTIP) Developed
- Robinson Integrated Diesel Generator Improvement Plan
- CAD/CAE (\$1,297,000)

NUCLEAR ENGINEERING DEPARTMENT

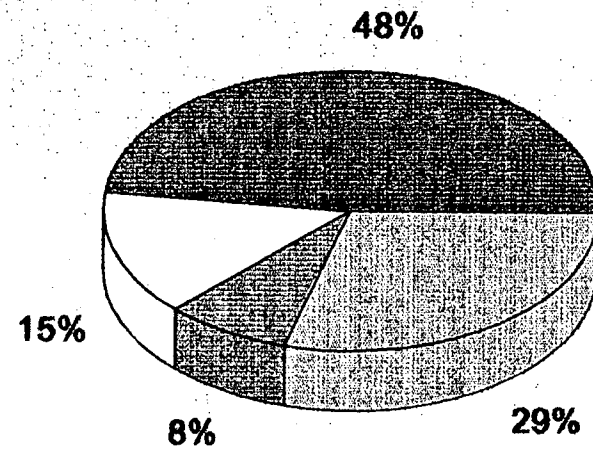
Remaining Challenges

- **Eliminate Backlog**
- **Human Performance**
- **Configuration Management Processes**
- **Effectiveness of System Engineering Program**
- **Improve Corrective Action/Self Assessment Effectiveness**
- **Implement System-Wide 2-Yr. Engineering Improvement Plan**

Causal Factors for 1994



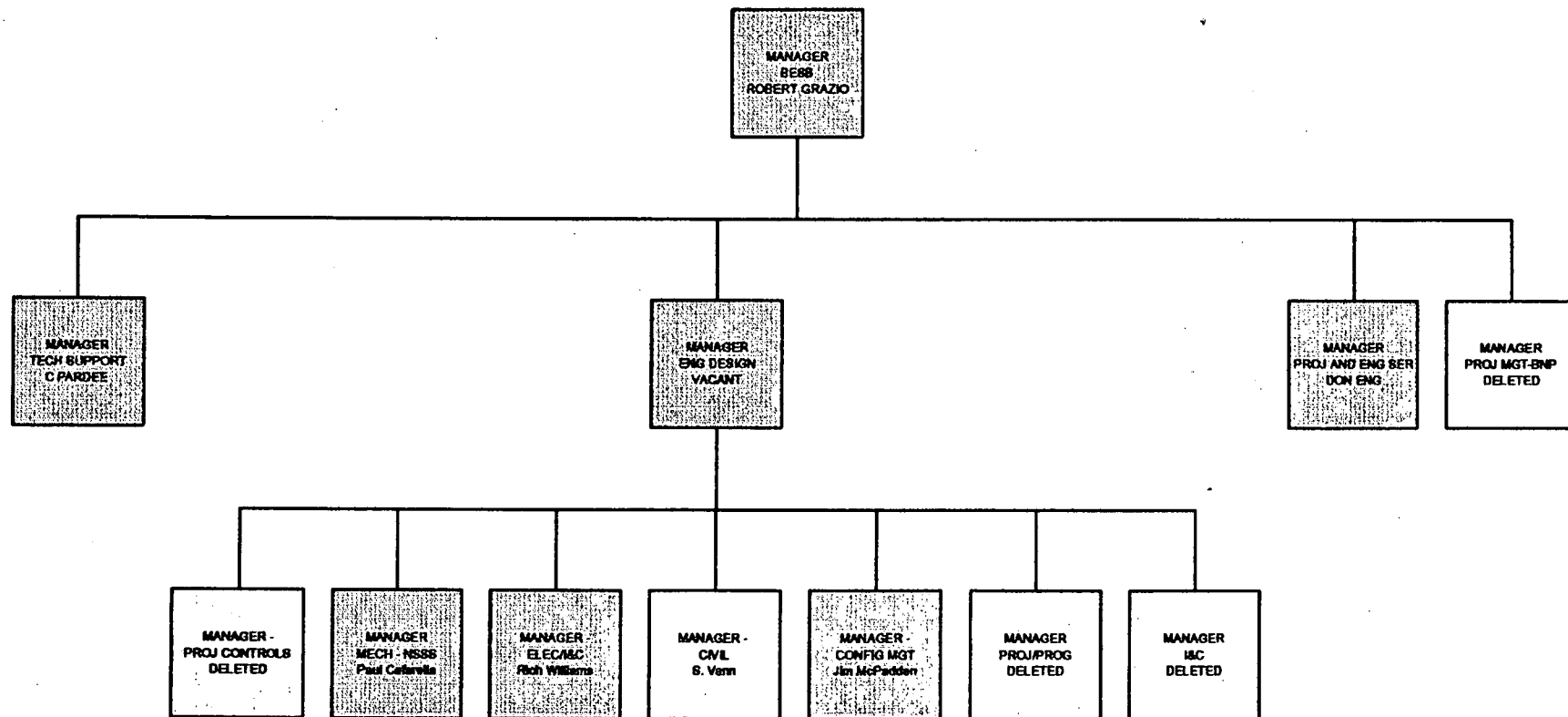
1994
Total



Second
Quarter



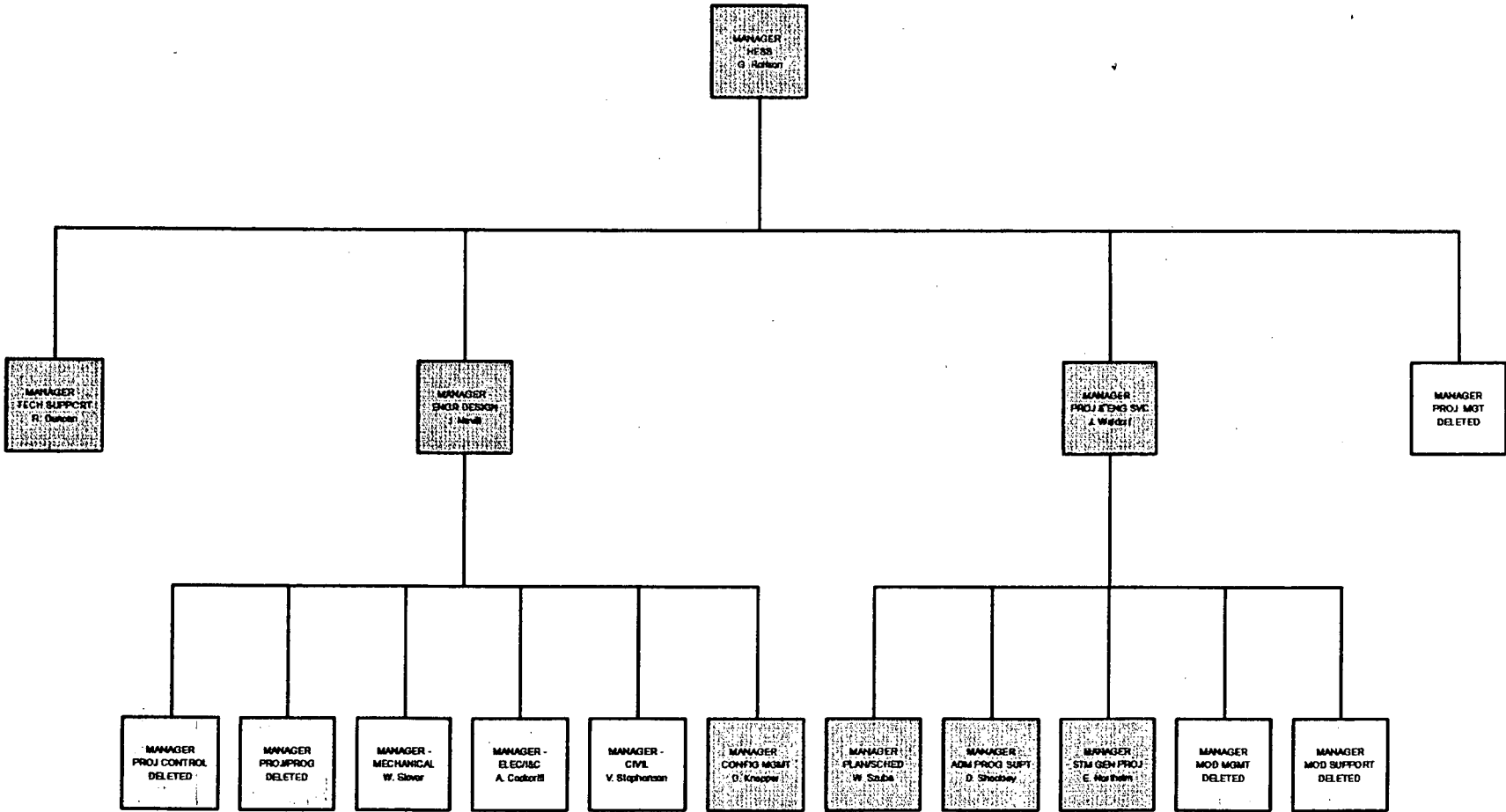
BRUNSWICK ENGINEERING SUPPORT SERVICES



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 New in position since 9/93

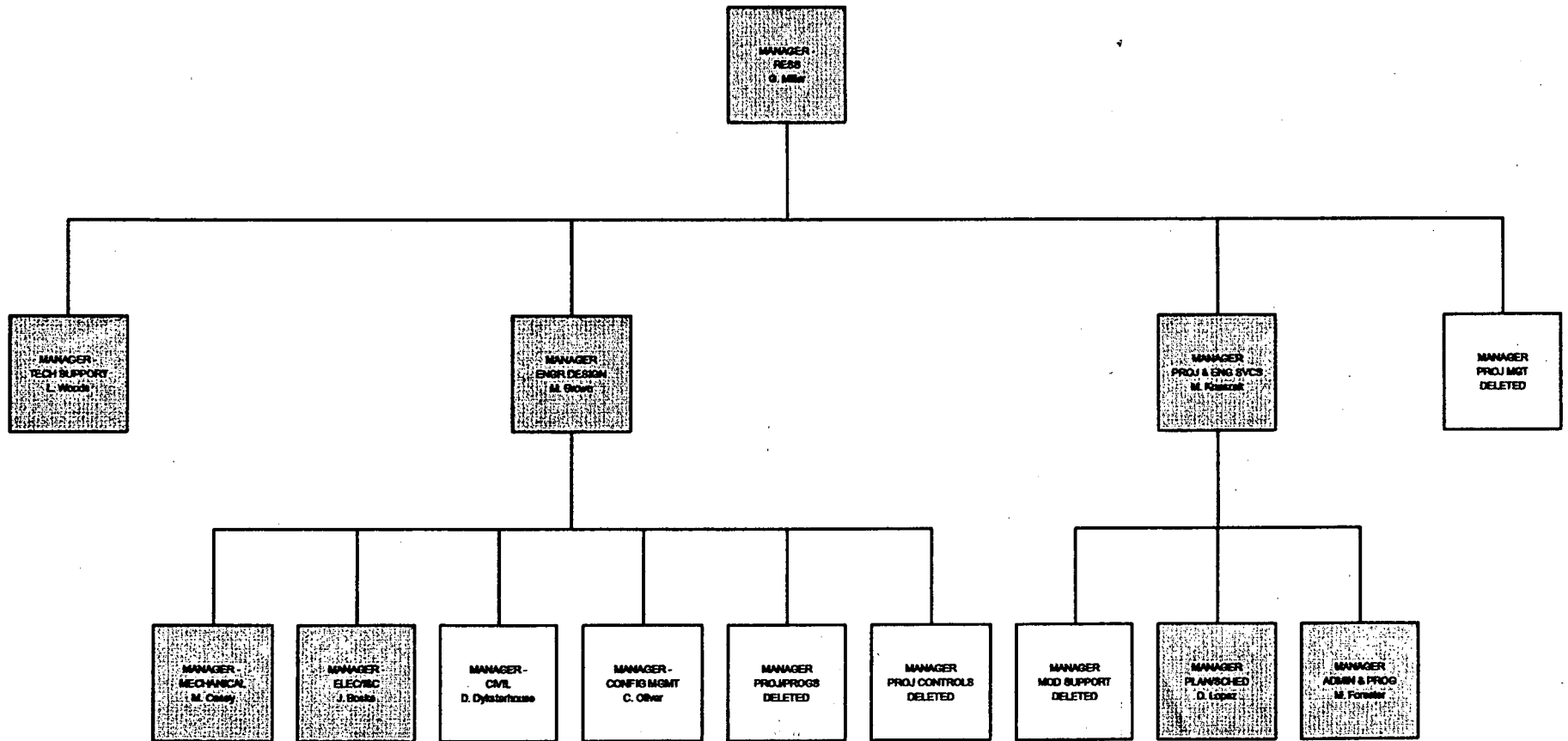
HARRIS ENGINEERING SUPPORT SERVICES



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New in position since 9/93

ROBINSON ENGINEERING SUPPORT SERVICES

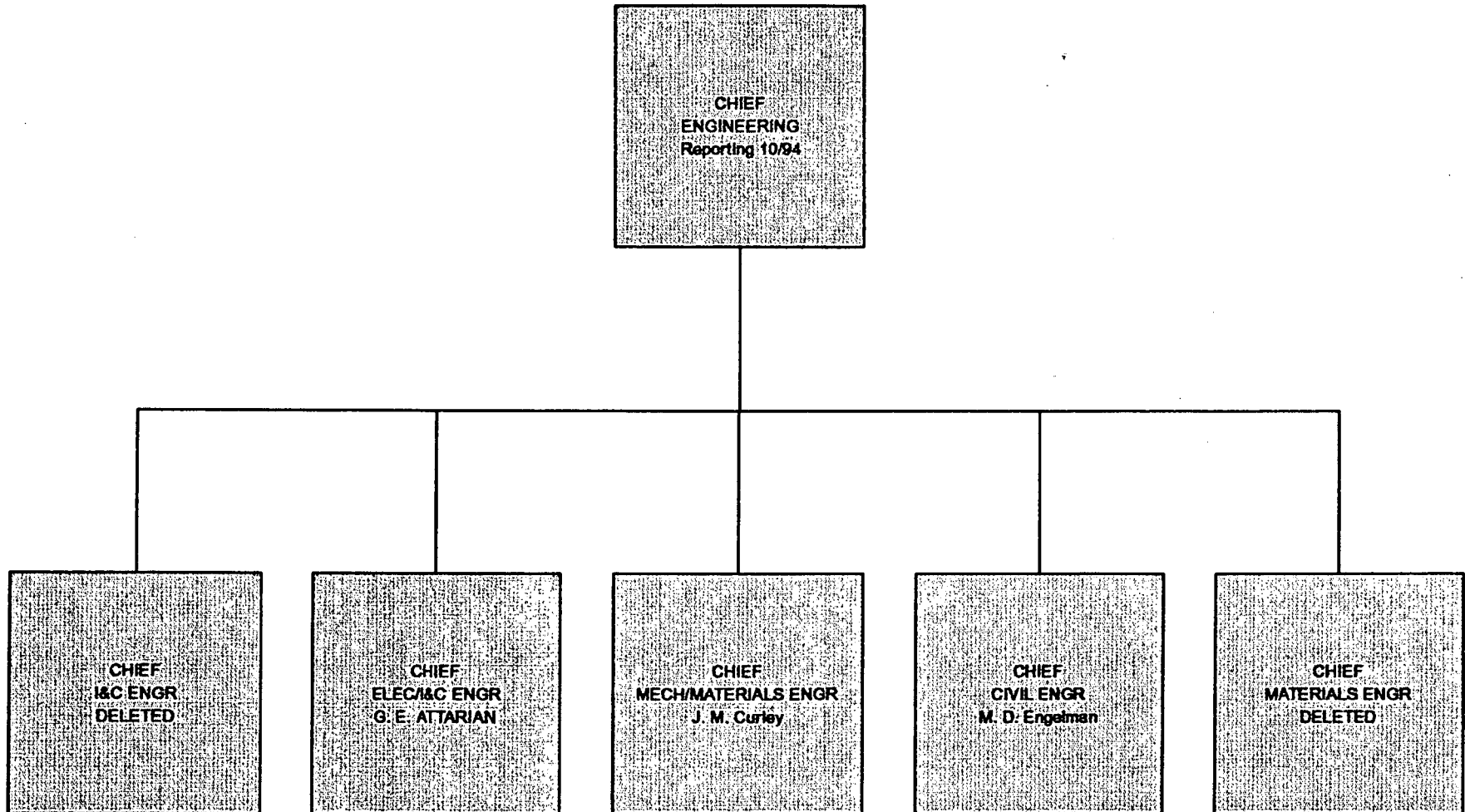


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 New in position since 9/93

CORPORATE NUCLEAR ENGINEERING DEPARTMENT

CHIEF ENGINEERING



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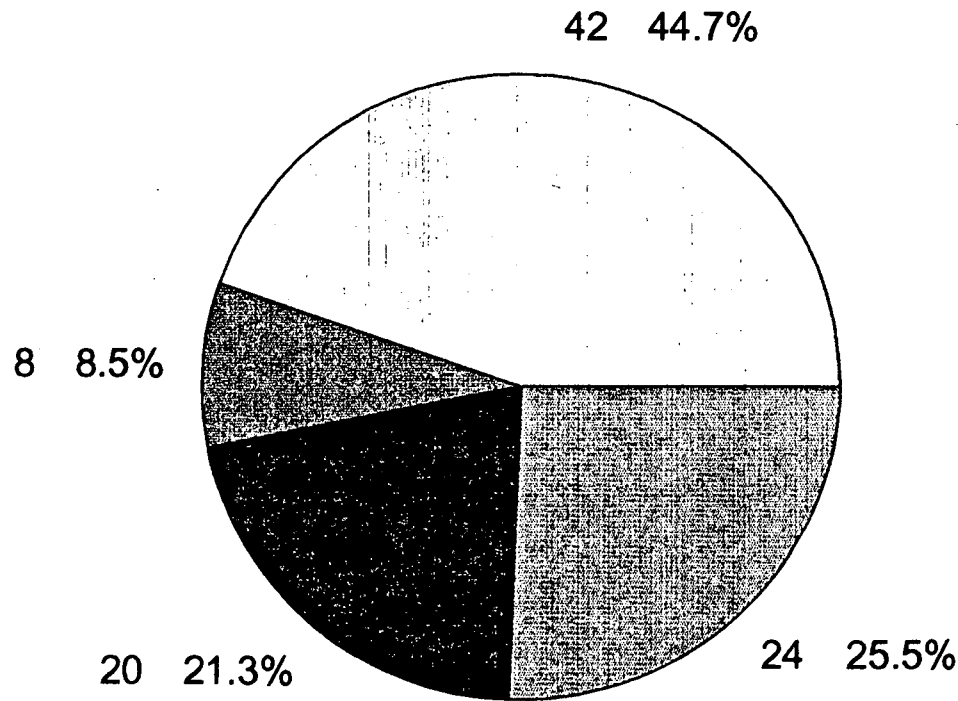
New in position since 9/93

NUCLEAR ENGINEERING DEPARTMENT

Outplaced Profile

September 1993 - August 1994

□ Tech. (Engineers) ■ Manager
■ Non-Technical ■ Technical (Non-Eng.)

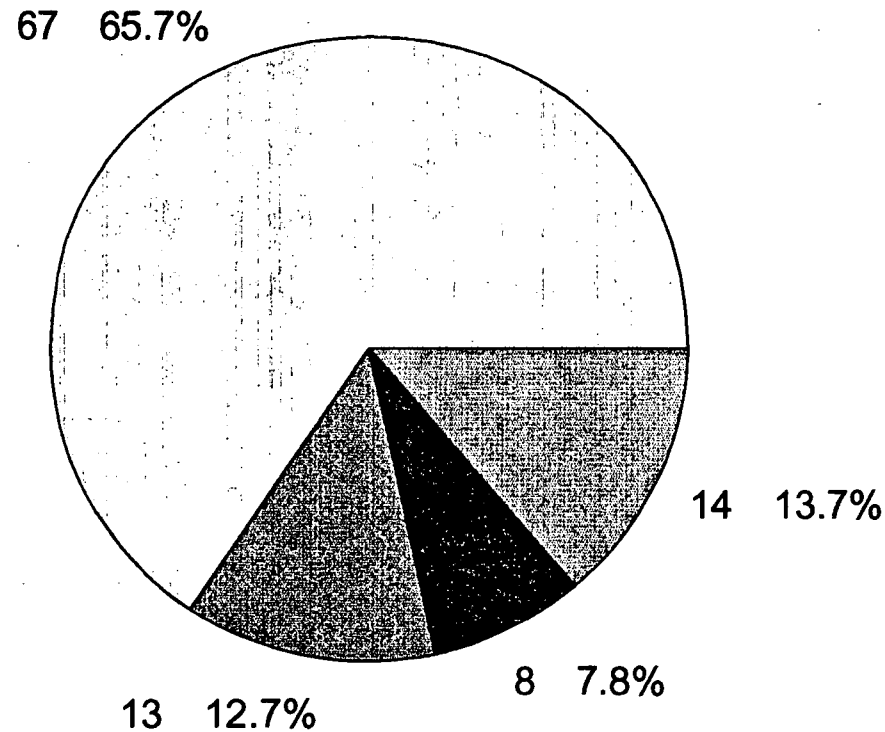


NUCLEAR ENGINEERING DEPARTMENT

New Hire Profile

September 1993 - April 1994

□ Tech. (Engineers) ■ Manager
■ Non-Technical ■ Tech. (Non-Eng.)

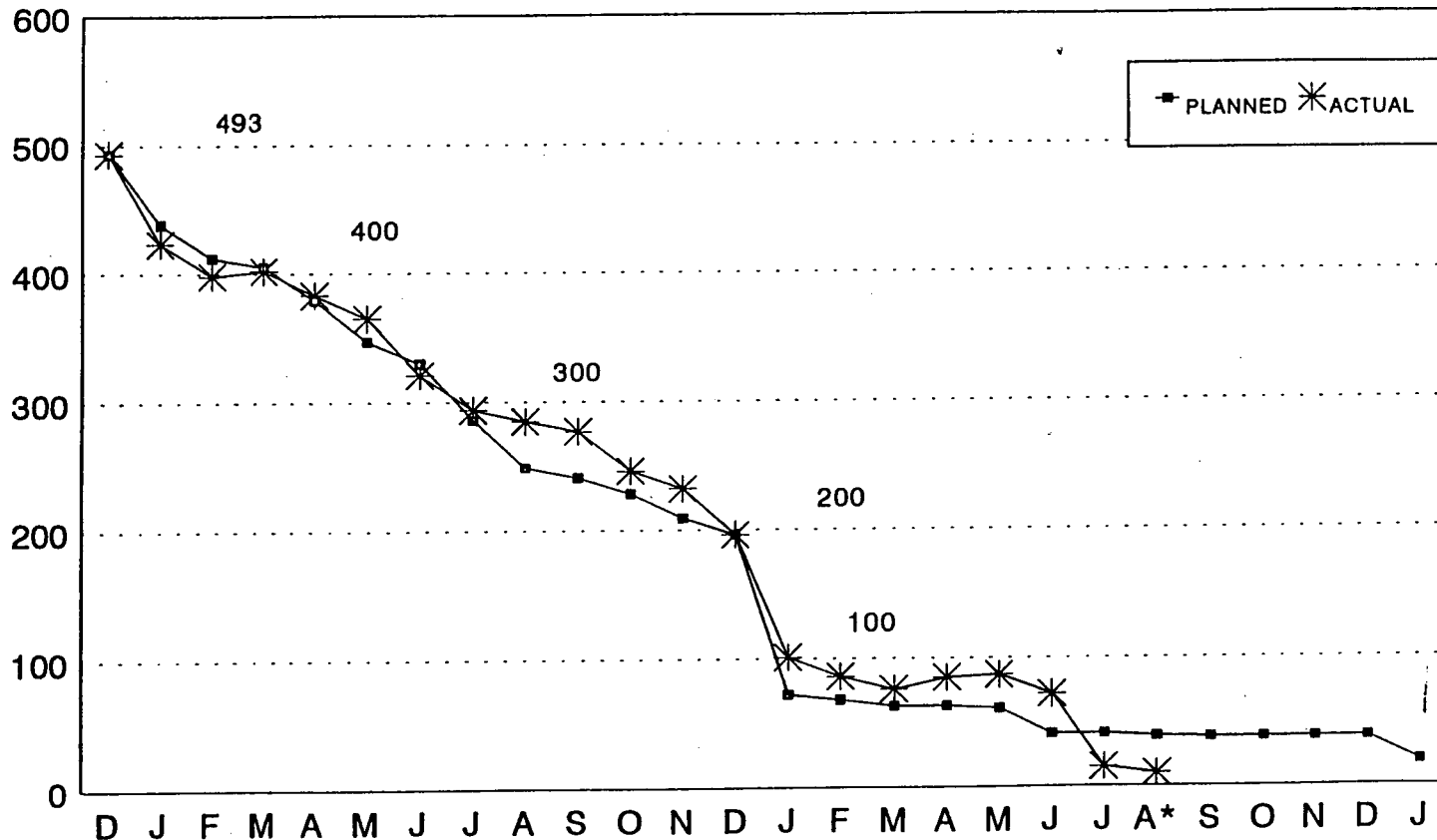


CP&L

NED CONTRACTOR DRAWDOWN

1993 - 1994

In House Contractor (Totals as of the first of each month)



PLANNED	493	438	412	405	379	347	330	286	249	241	228	209	196	72	68	63	63	61	41	41	39	38	38	38	38	19
ACTUAL	493	423	398	402	383	365	321	294	285	277	246	232	196	101	86	76	85	87	72	15	10					

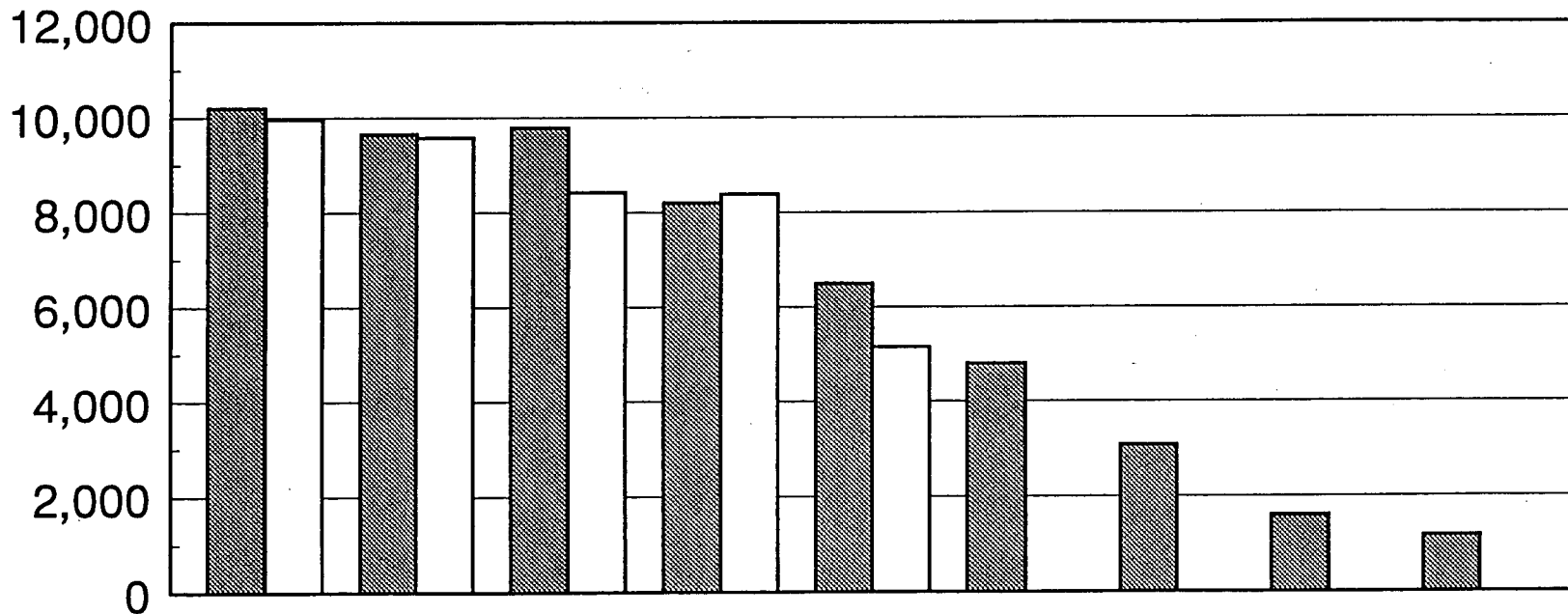
1992

1993

1994

* Actuals for August as of 8/31/94

BRUNSWICK ENGINEERING SUPPORT SECTION BACKLOG



	4/94	5/94	6/94	7/94	8/94	9/94	10/94	11/94	12/94
Planned	10,202	9,646	9,787	8,194	6,498	4,798	3,072	1,604	1,174
Actual	9,957	9,580	8,424	8,386	5,147				

AIT Findings - Corporate/Site Communications

- Inadequate corporate/site oversight and communications (miscalibrated nuclear instrumentation)
- Training not effective (low leakage core)
- Oversight of on-site contractor activities less than adequate (broken fuel inspection tool)

CP&L Improvements - Corporate/Site Communications

- **Interface Agreements (4 CP&L units) to control fuel vendor on-site activities**
 - ◆ Plant line management controls vendor activities
 - ◆ Corporate Fuel personnel support plant line management
- **Foreign material exclusion criteria**
- **Corporate Fuel calculations for nuclear instrumentation recalibration**

CP&L Improvements - Corporate/Site Communications

- Corporate Fuel personnel conduct reload core training
- Self-assessment - Corporate Fuel/vendor oversight process
- Plant Staff questioning attitude

CP&L Improvements - Corporate/Site Communications

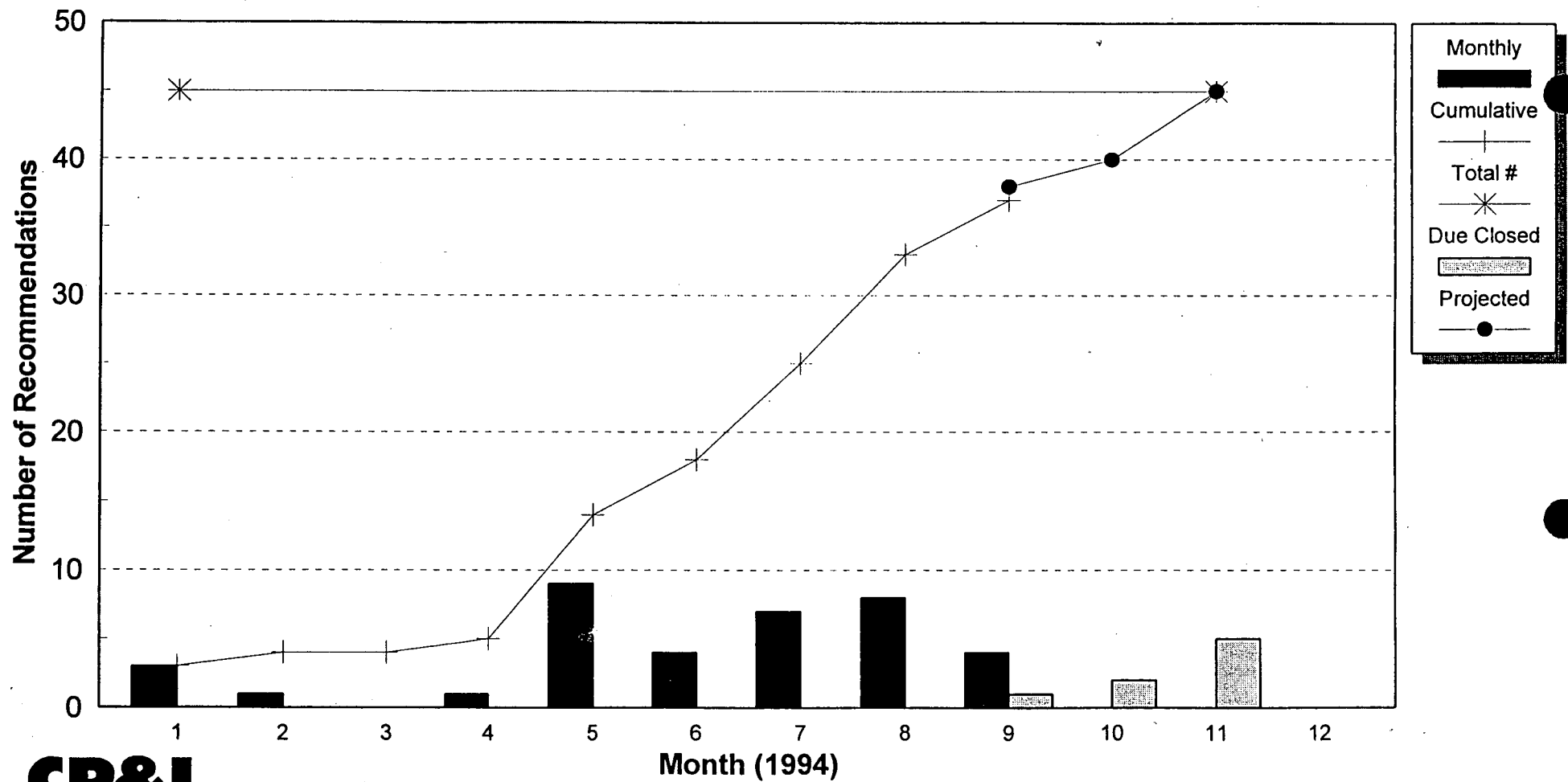
- **Site Nuclear Engineer/Corporate Fuel Peer Group**
 - ◆ Corporate Fuel/Tech. Support Generic Interface Agreement
 - ◆ Nuclear Generation Group Reactivity Management Program

Results to Date

- Each of Four CP&L Units:

- ◆ Successful design and fabrication of reload fuel (GE & Siemens)
- ◆ Successful startup physics testing
- ◆ Successful core operations

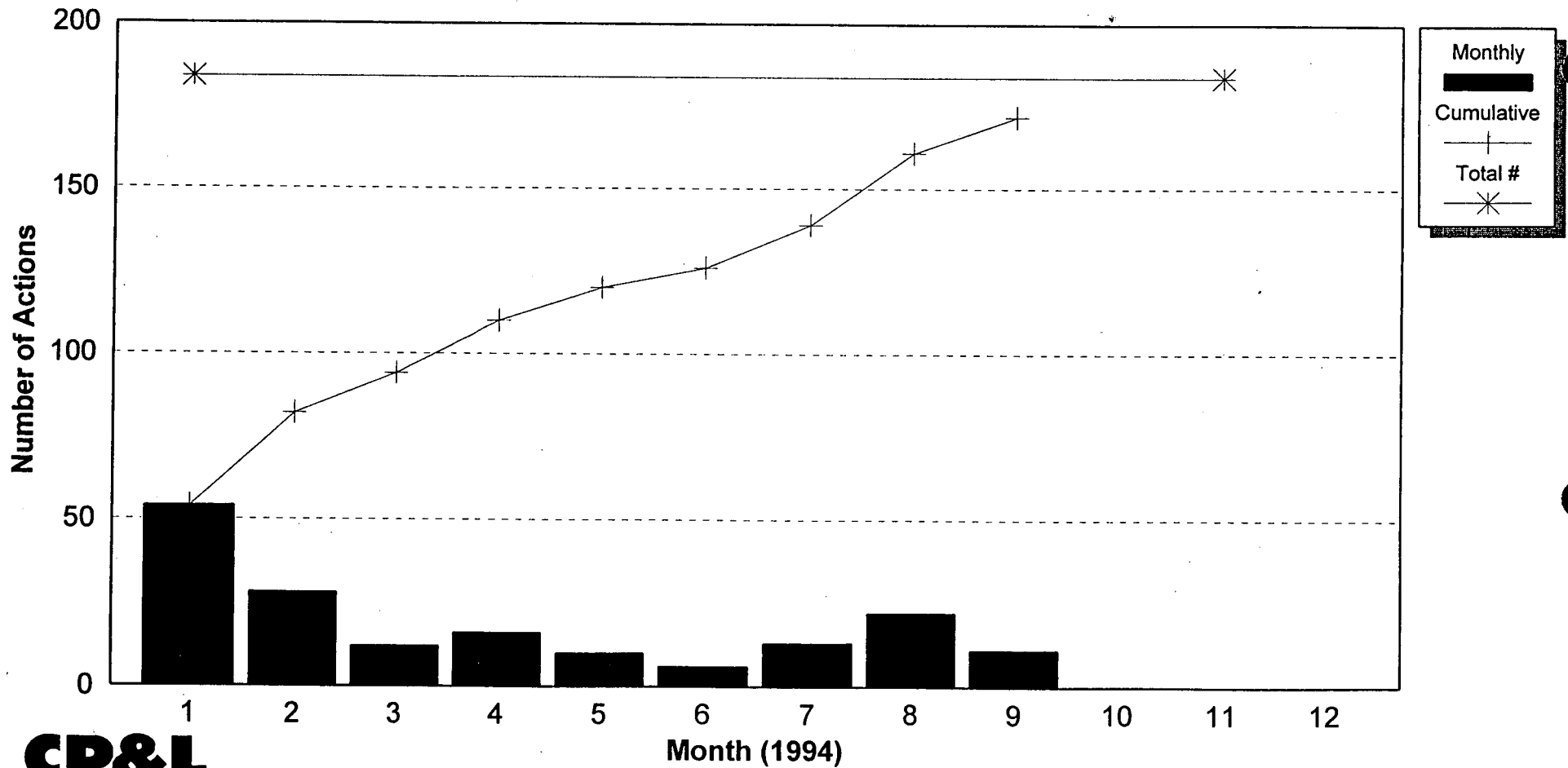
CP&L Investigative Teams' Recommendations



CP&L

Date: 9/20/94

Completed Actions



CP&L

Date: 9/20/94