

*official file*

DEC 14 1987

Docket No. 50-424  
License No. NPF-68

Georgia Power Company  
ATTN: Mr. James P. O'Reilly  
Senior Vice President-  
Nuclear Operations  
P. O. Box 4545  
Atlanta, GA 30302

Gentlemen:

SUBJECT: MEETING SUMMARY - VOGTLE FACILITY, UNIT 1, DOCKET NO. 50-424

This refers to the management meeting conducted at your request at the Vogtle site on November 17, 1987. This meeting was held to discuss with the NRC Vogtle Unit 1 operating performance.

It is our opinion that this meeting was beneficial and has provided a comprehensive overview of the Vogtle Unit 1 program. This in-depth presentation will better enable the NRC to further evaluate the issues.

In accordance with Section 2.790 of 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, we will be pleased to discuss them.

Sincerely,

ORIGINAL SIGNED BY:  
J. NELSON GRACE

J. Nelson Grace  
Regional Administrator

Enclosures:

1. List of Attendees
2. GPC Presentation

(cc w/encls: See Page 2)

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PDR ADDOCK 05000424  
PDR

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*12-15*

DEC 14 1987

cc w/encls:

P. D. Rice, Vice President, Project  
Director

C. W. Hayes, Vogtle Quality  
Assurance Manager

G. Bockhold, Jr., General Manager,  
Nuclear Operations

L. Gucwa, Manager, Nuclear Safety  
and Licensing

J. A. Bailey, Project Licensing  
Manager

D. Kirkland, III, Counsel,  
Office of the Consumer's Utility  
Council

D. Feig, Georgians Against  
Nuclear Energy

bcc w/encls:

E. Reis, OGC

M. Miller, NRR

M. Sinkule, RII

DRS Technical Assistant

NRC Resident Inspector

Document Control Desk

State of Georgia

RII

*[Signature]*  
PBalmain  
12/10/87

RII

*[Signature]*  
MSinkule  
12/10/87

RII

*[Signature]*  
VBrownlee  
12/10/87

RII

*[Signature]*  
LReyes  
12/10/87

RII

*[Signature]*  
MErnst  
12/10/87

ENCLOSURE 1

LIST OF ATTENDEES

U. S. Nuclear Regulatory Commission - Region II

M. L. Ernst, Deputy Regional Administrator  
L. A. Reyes, Director, Division of Reactor Projects (DRP)  
V. L. Brownlee, Chief, Branch 3, DRP  
M. V. Sinkule, Chief, Section 3B, Division of Reactor Projects (DRP)  
W. Cline, Chief, Nuclear Materials Safety and Safeguards Branch, Division of Radiation Safety and Safeguards (DRSS)  
D. R. McGuire, Chief, Physical Security Section, DRSS  
J. F. Rogge, Senior Resident Inspector (Operations), DRP  
C. W. Burger, Resident Inspector (Operations), DRP  
R. J. Schepens, Resident Inspector (Construction), DRP

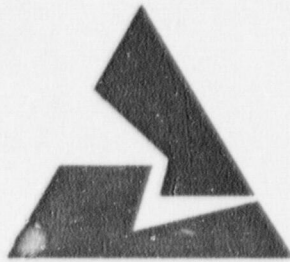
NRC - Office of Nuclear Reactor Regulation

S. A. Varga, Director, Division of Reactor Projects - I/II  
M. A. Miller, Project Manager, Directorate II-3  
J. Hopkins, Project Manager, Directorate II-3

Georgia Power Company

H. G. Baker, Senior Executive Vice President  
J. P. O'Reilly, Senior Vice President of Nuclear Operations  
G. Bockhold, General Manager, Vogtle  
L. T. Gucwa, Manager, Nuclear Safety and Licensing  
R. M. Bellamy, Plant Manager, Vogtle  
T. V. Greene, Plant Support Manager, Vogtle  
W. F. Kitchens, Operations Manager, Vogtle  
M. B. Lackey, Superintendent, Work Planning and Controls  
E. M. Howard, Manager, Training, EP, and Security





VOGTLE ELECTRIC GENERATING PLANT

ENERGY FROM

EXCELLENCE

AND

EFFICIENCY

NRC MANAGEMENT VISIT

17 NOV 1987



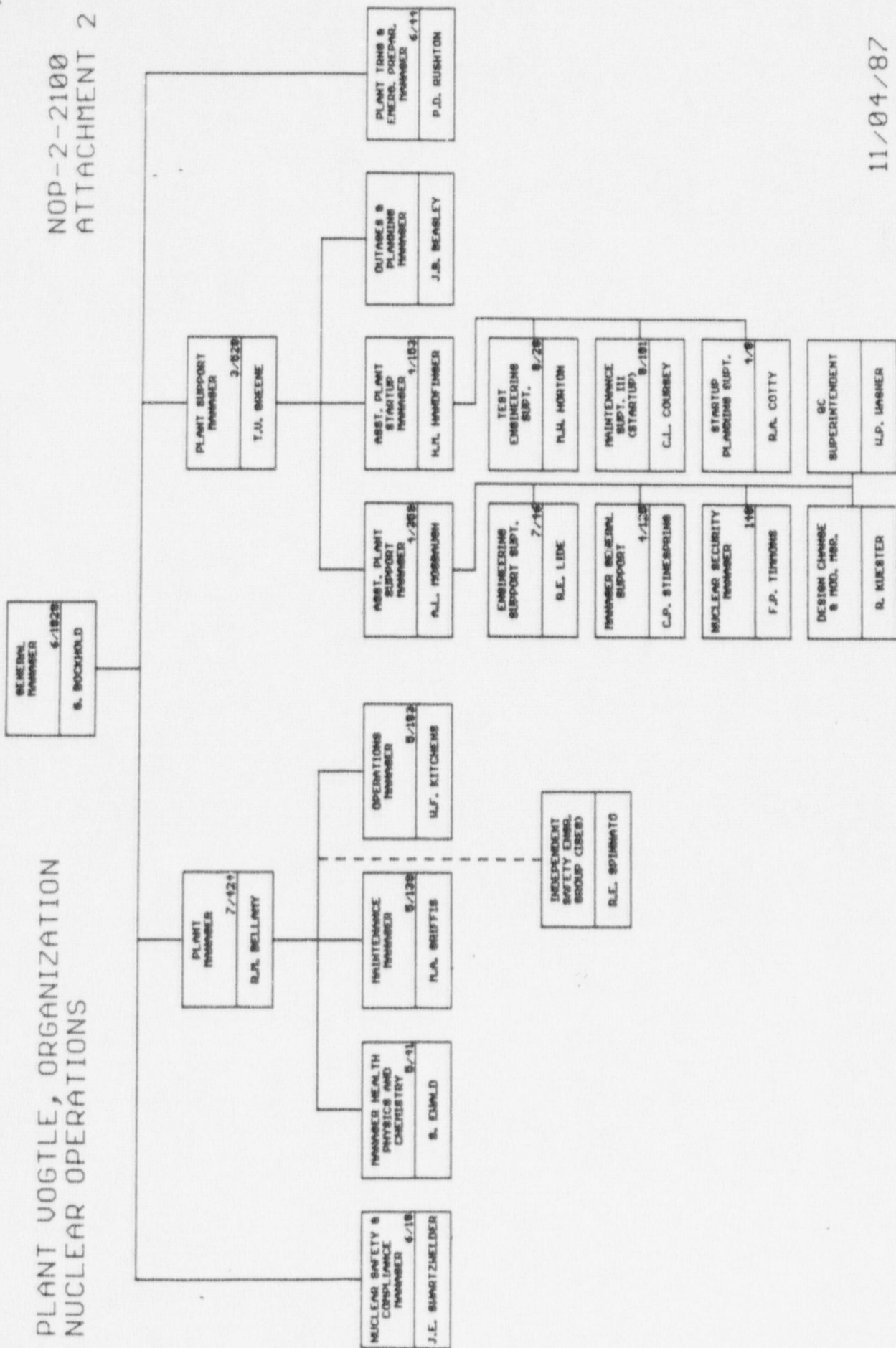
AGENDA  
NRC MANAGEMENT MEETING  
17 NOVEMBER, 1987

<u>TIME</u>	<u>TOPIC</u>	<u>SPEAKER</u>
10:30 AM	INTRODUCTIONS AND OPENING REMARKS	J. P. O'REILLY SR VP, NUCLEAR
10:45 AM	NRC OPENING REMARKS	NRC STAFF
11:00 AM	OPERATIONS OVERVIEW	G. BOCKHOLD GENERAL MANAGER
11:10 AM	PLANT IMPROVEMENT PROGRAMS	R. M. BELLAMY PLANT MANAGER
11:30 AM	SPECIAL TRAINING PROGRAM	L. T. GUCWA MANAGER, NUC SAF & LIC
11:40 AM	OPERATIONAL EVENTS & PERFORMANCE TRENDS	W. F. KITCHENS OPERATIONS MANAGER
12:00 PM	BREAK FOR WORKING LUNCH	
12:10 PM	OCTOBER OUTAGE CRITIQUE	M. B. LACKEY SUPERINTENDENT WORK PLANNING AND CONTROLS
12:30 PM	SECURITY STATUS & TRENDS	T. V. GREENE PLANT SUPPORT MANAGER
12:45 PM	OPERATIONAL READINESS INSPECTION	E. M. HOWARD MANAGER TRG, EP, AND SECURITY
12:55 PM	NRC CONCLUDING REMARKS	NRC STAFF
1:10 PM	GPC CONCLUDING REMARKS	J. P. O'REILLY SR VP, NUCLEAR
1:20 PM	EXECUTIVE MANAGEMENT OVERVIEW	H. G. BAKER SR EXECUTIVE VP

nmm/17nov87

# PLANT VOGTLE, ORGANIZATION NUCLEAR OPERATIONS

NOP-2-2100  
ATTACHMENT 2



11/04/87

# VOGTLE OVERVIEW

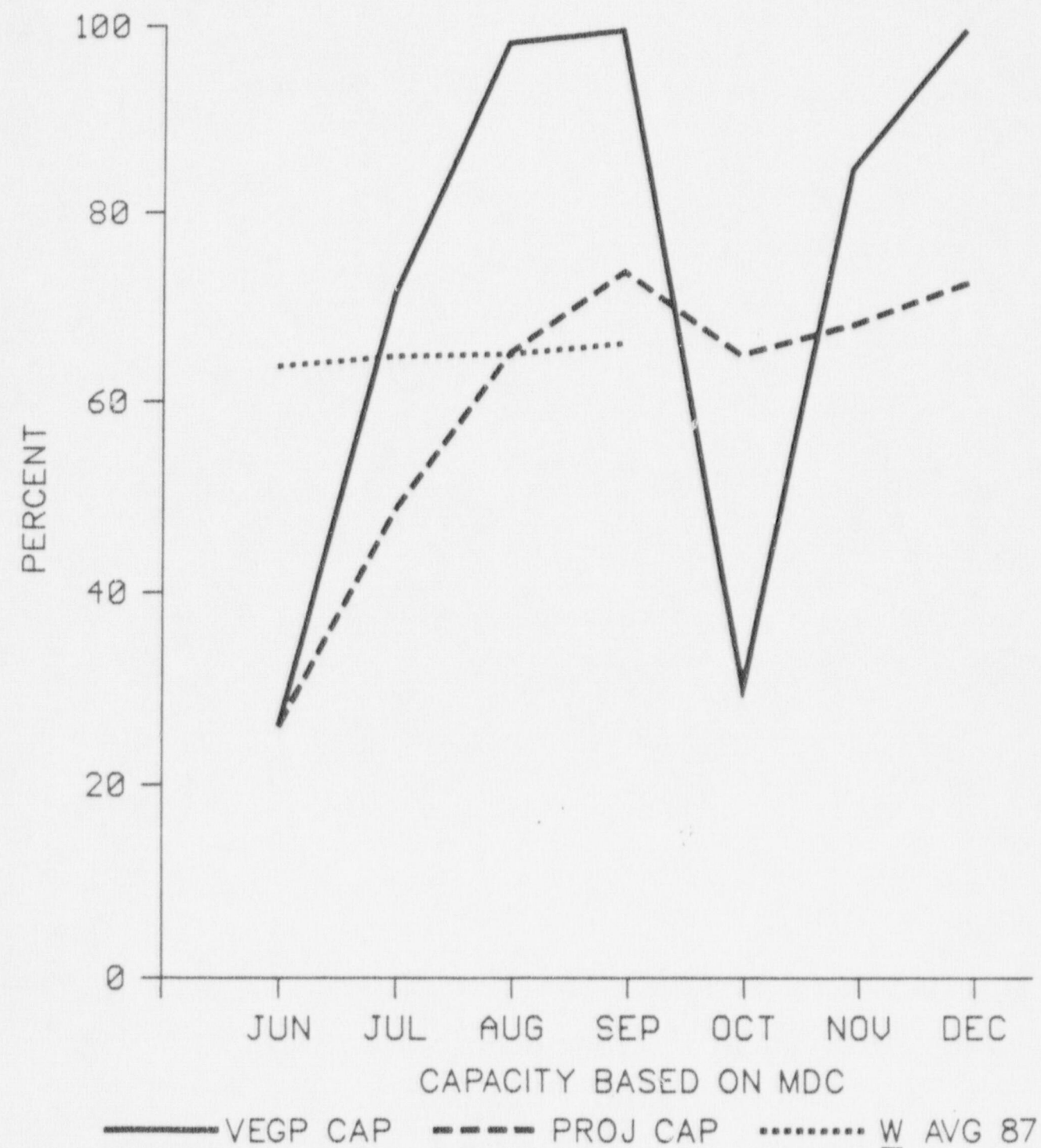
- SIGNIFICANT PROGRESS

- CONTINUING EFFORT

- ATTENTION TO DETAIL
- IMPLEMENTATION BY EVERY WORKER
- PLANT AND INDUSTRY LESSONS LEARNED

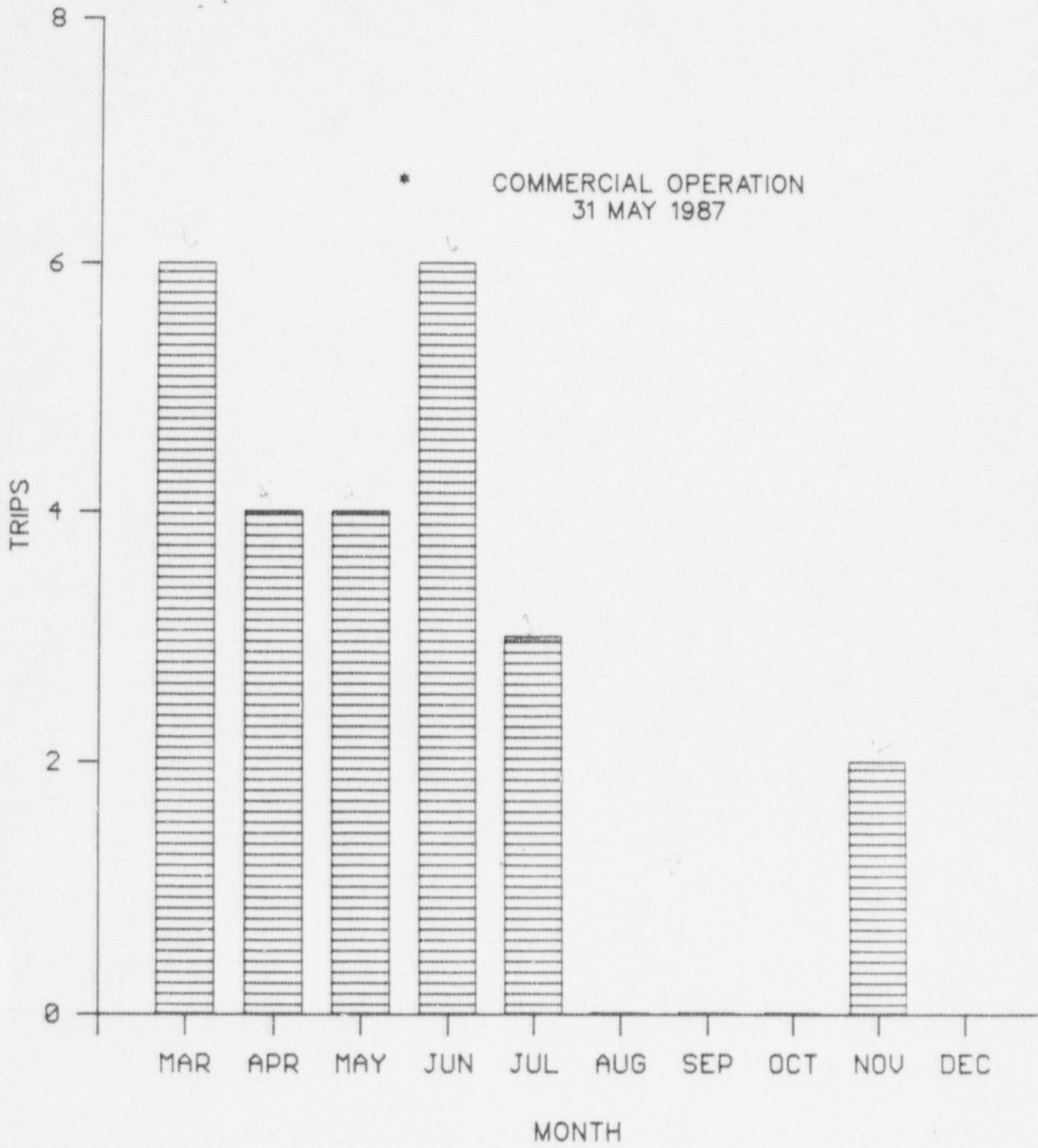


# PREDICTED PERFORMANCE VEGP-1

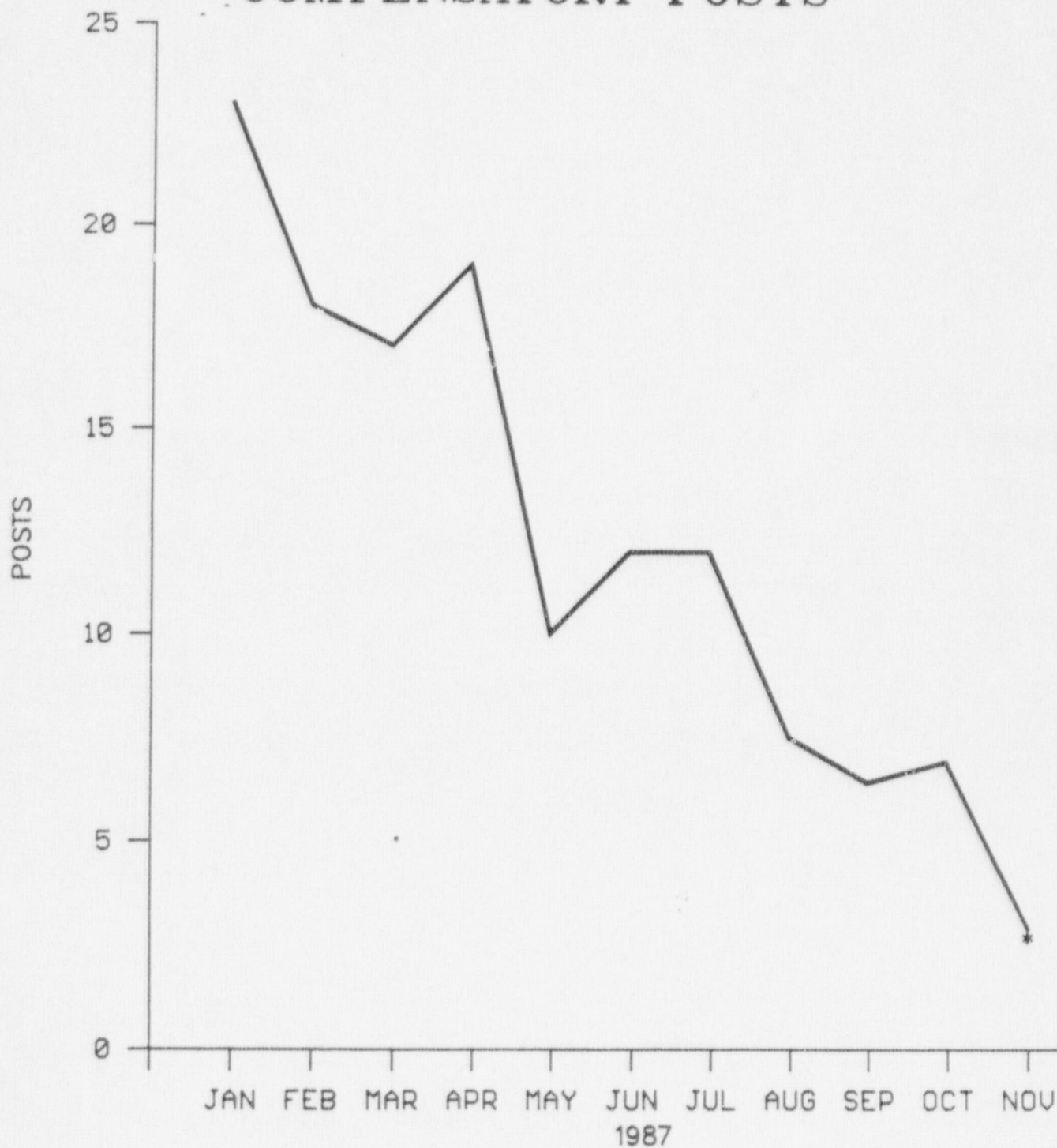


PREDPER

# Rx TRIP TREND 1987 TO-DATE



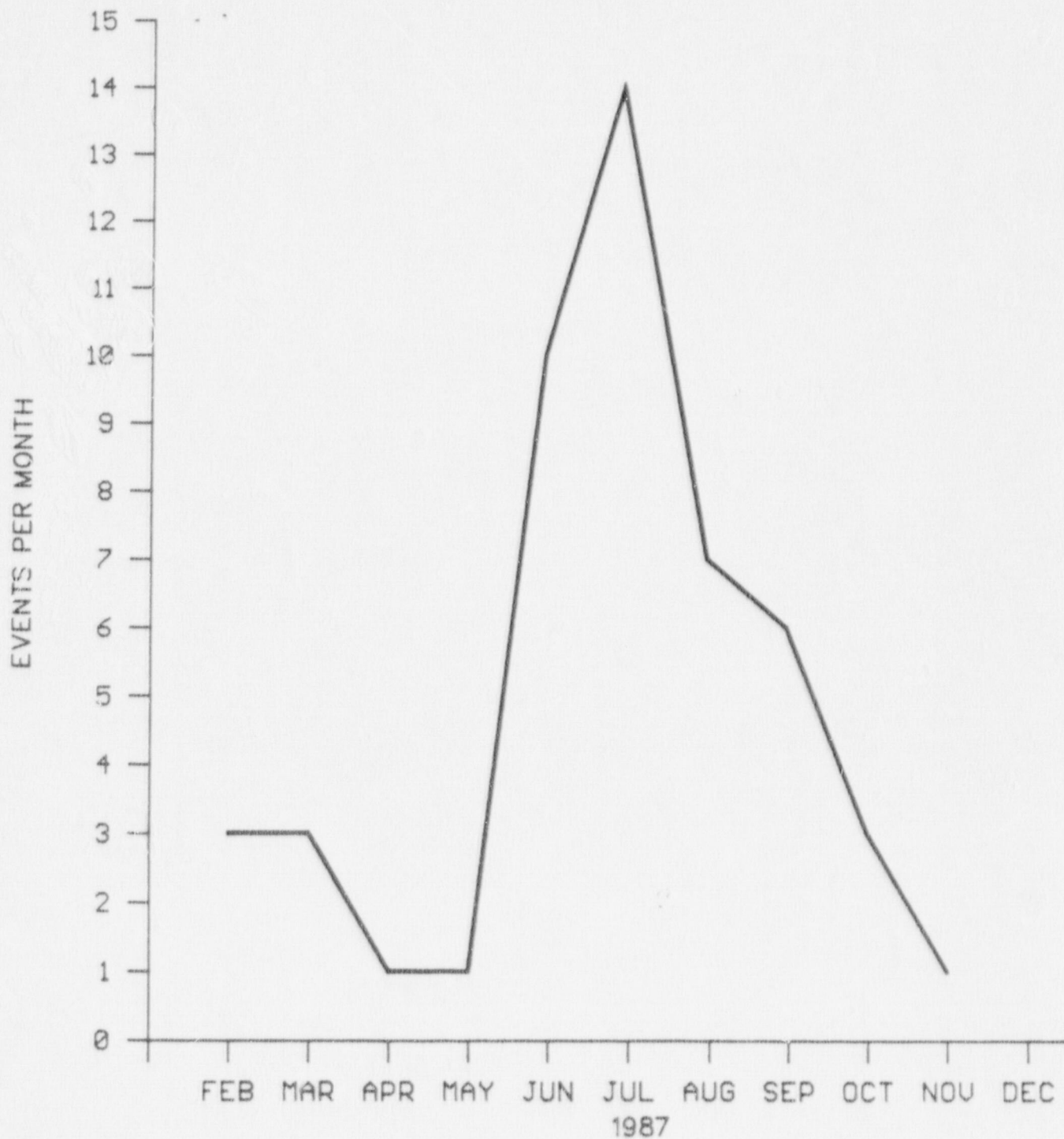
# SECURITY COMPENSATORY POSTS



\* PROJECTED FOR NOVEMBER



# REPORTABLE SECURITY EVENTS



RSE

# 1987 VOCTLE TOTAL DOSE - PROGRESS REPORT

Annual Goal (Commendable): 45 REM

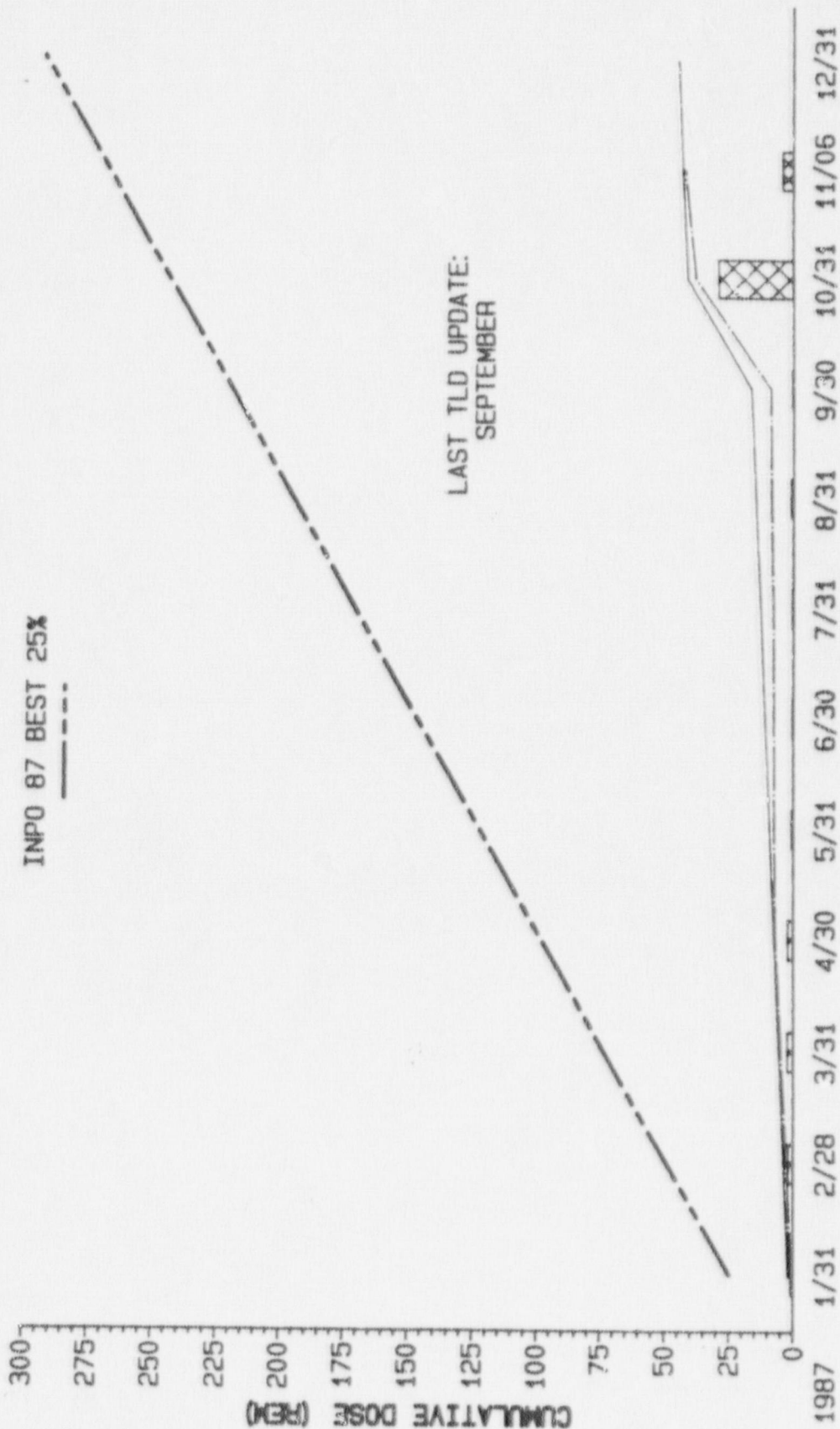
MONTHLY ACTUAL

XXXXXXXX

GOAL - 45 REM

CUMULATIVE ACTUAL

INPO 87 BEST 25%



## AGENDA

1. PREVIOUS OPERATIONS IMPROVEMENTS SUMMARY
2. IMPROVEMENTS SINCE LAST NRC MANAGEMENT MEETING
3. FOCUS ON FUTURE ACTIONS
4. SUMMARY

AGENDA



OPERATIONAL IMPROVEMENTS  
PREVIOUSLY DISCUSSED  
"VOGTLE IMPROVEMENT PROGRAM"

- BI-WEEKLY OPERATIONAL STATUS MEETING WITH J.P. O'REILLY AND CORPORATE MANAGERS
- SHIFT TEAMWORK AND MANAGEMENT
- ROOT CAUSE EVALUATIONS
- POSITIVE VALVE PROGRAM
- TRIP REDUCTION COMMITTEE
- MANAGEMENT DUTY OFFICER
- WATER KING
- SPECIAL STARTUP DETAIL
- RESPONSE TEAM
- REACTOR ENGINEERING STARTUP INVOLVEMENT
- HPES AND ISEG INVOLVEMENT
- RELIANCE ON INDUSTRY EXPERTS
- TRAINING ENHANCEMENTS
- FOCUS ON PLANT MATERIAL CONDITION
- POSITIVE DISCIPLINE

OPSIMPPD

## OPERATIONS IMPROVEMENTS SINCE LAST MEETING

### ORGANIZATIONAL

- TEN POINT OPERATOR IMPROVEMENT PROGRAM
  - OPERATOR KNOWLEDGE
- PLANT MEETING POLICY
  - REDUCES LENGTH OF MEETINGS
  - ENSURES "MEETING FREE" TIME
  - MANAGEMENT REVIEW OF MEETING NEEDS
- OPERATIONS MANAGEMENT COUNCIL
  - SENIOR PLANT MANAGEMENT
    - OPERATIONS MANAGER
    - NUCLEAR SAFETY AND COMPLIANCE MANAGER
    - ENGINEERING MANAGER
    - MAINTENANCE MANAGER
    - HP/CHEMISTRY MANAGER
  - PRB OVERSIGHT
  - EVENT ANALYSIS & NOTIFICATION -SHORT TERM
  - STRUCTURED MANAGEMENT ASSESSMENT
    - IN DEPTH VERTICAL SLICE REVIEW
    - SUBCOMMITTEE CONCEPT
  - PRIORITIZE CRITICAL PLANT PROBLEMS LIST
- ORGANIZATIONAL CHANGES
  - ADDITIONAL SUPERVISORS ON DAY SHIFT TO "FIELD MANAGE" IN PLANT WORK
  - JOB ROTATION AND RESPONSIBILITIES CHANGE TO TIE OPERATIONS CLOSER TO N.S.A.C.

OPSIMP

## OPERATIONS IMPROVEMENTS FOCUS ON FUTURE ACTIONS

1. RE-REVIEW EFFECTIVENESS OF PREVIOUS PROGRAMS  
- STRENGTHEN OR MODIFY AS NEEDED TO SUPPORT  
PRESENT CONDITIONS
2. CONTINUE EMPHASIS ON "PRIDE OF OWNERSHIP" AND  
"PROFESSIONAL DISCIPLINE" OF OPERATING STAFF
3. REVIEW INDUSTRY EXPERIENCE FEEDBACK PROGRAM  
EFFECTIVENESS
4. STRENGTHEN MANAGEMENT ASSESSMENT ACTIVITIES
5. IMPROVE MATERIAL CONDITION OF PLANT
- 6 IDENTIFICATION OF CRITICAL SURVEILLANCE  
ACTIVITIES AND DEVELOPING OF QUALIFICATION  
REQUIREMENTS FOR PERFORMING THEM



# SPECIAL TRAINING PROGRAM COMMITMENT TO NUCLEAR SAFETY

## WHY:

- TO CONSISTENTLY ACHIEVE THE HIGHEST STANDARDS OF NUCLEAR SAFETY AND REGULATORY COMPLIANCE

## WHO:

- OPERATIONS DEPARTMENT, NUCLEAR SAFETY AND SENIOR MANAGEMENT PERSONNEL

## WHAT:

- NUCLEAR SAFETY LESSONS
- REGULATORY PROCESS
- TECHNICAL SPECIFICATIONS INTERPRETATIONS
- PHILOSOPHY OF BEING CONSERVATIVE AND CAUTIOUS
- COMMUNICATIONS
- PROFESSIONALISM
- CASE STUDIES

## WHEN:

- SEVERAL SESSIONS BEGINNING NOV. 23, 1987

## HOW:

- SELF-TAUGHT BY SENIOR MANAGEMENT
- PARTICIPATIVE DISCUSSIONS

STPCTNS

REACTOR TRIPS AND ESF ACTUATIONS  
UPDATE  
EVENTS SINCE AUGUST 9, 1987

- TWO UNPLANNED AUTOMATIC REACTOR TRIPS  
TURBINE HIGH VIBRATION SIGNAL (NOVEMBER 5)  
TRIP BREAKER SURVEILLANCE ERROR (NOVEMBER 11)
  
- FOUR UNPLANNED ESF ACTUATIONS  
THREE PROCESS & EFFLUENT RADIATION MONITORING  
CONTROL ROOM ISOLATIONS (SEPTEMBER 21 AND  
OCTOBER 26)  
CONTAINMENT VENT ISOLATION (NOVEMBER 9)
  
- ONE AUXILIARY FEEDWATER AUTO START  
(NOVEMBER 5)

RXTAEAU

# INADVERTENT AFW AUTO START (NOVEMBER 5, 1987)

## PLANT STATUS

- HOT STANDBY
- AFW PUMPS IN SERVICE
- MAIN FEED PUMP RESET BUT SHUT DOWN
- WORK ORDER TO CLEAN CONDENSATE PUMP STRAINER

## EVENT

- OPERATOR SHUT WRONG CONDENSATE PUMP DISCHARGE VALVE
- MAIN FEED PUMPS TRIPPED ON LOW SUCTION PRESSURE
- AFW DISCHARGE VALVES OPENED
- STEAM GENERATOR BLOWDOWN VALVES CLOSED

## CAUSES

- OPERATOR ERROR (DIRECT CAUSE)
- LOCAL CONTROL PANEL LABELING AND LAYOUT (ROOT CAUSE)
- PORTABLE MANLIFT RESTRICTED ACCESS TO CONTROL PANEL
- OPERATING PROCEDURES CONTRIBUTED

## CORRECTIVE ACTIONS

- IMPROVE LABELING
- REVIEW AND REVISE OTHER REMOTE PANEL LABELING
- DESIGNATE STORAGE LOCATIONS FOR PORTABLE LIFTS
- REVISE PROCEDURES TO ENABLE ACTUATION PRIOR TO MODE 2



# REACTOR TRIP OF NOVEMBER 11, 1987

## PLANT STATUS

- 100% POWER, STEADY STATE CONDITIONS
- REACTOR TRIP BREAKER TESTING (A TRAIN)

## EVENT

- OPERATOR PUSHED B TRAIN BREAKER LOCAL PUSH BOTTON BY MISTAKE
- REACTOR TRIPPED
- CONTROL ROOM OPERATOR INITIATED MANUAL REACTOR TRIP
- CONTROL ROOM OPERATOR MANUALLY STARTED A TRAIN AFW PUMP
- STABLE HOT STANDBY CONDITIONS ACHIEVED

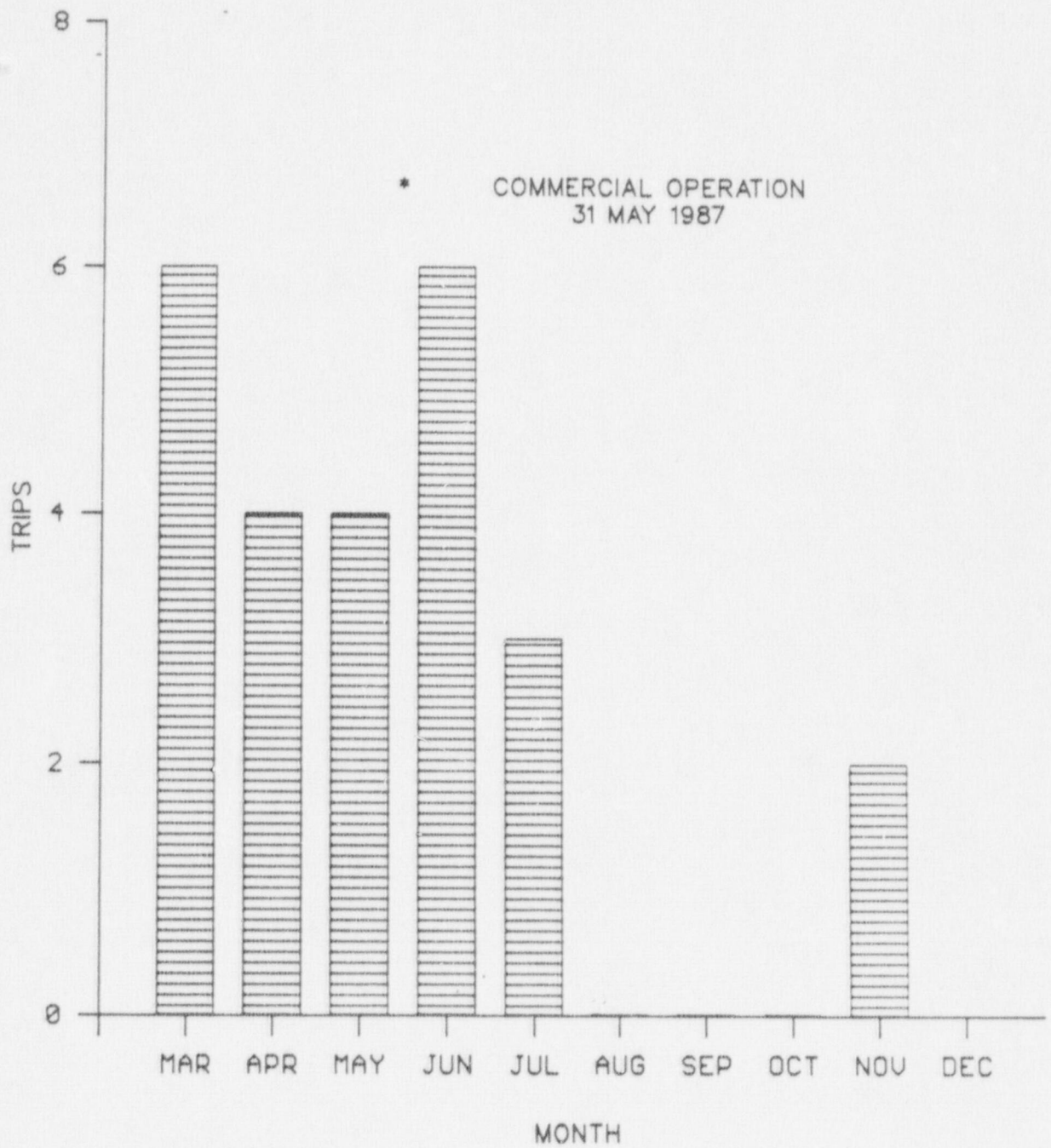
## CAUSES

- OPERATOR ERROR (DIRECT CAUSE)
- LOCAL CONTROL PANEL LABELING AND LAYOUT (ROOT CAUSE)
- TRAINING/EXPERIENCE

## CORRECTIVE ACTIONS

- INSTALL LABELING
- REVISE PROCEDURE CONSISTENT WITH LABELING
- REVIEW AND REVISE OTHER REMOTE PANEL LABELING
- IMPROVE PERSONNEL QUALIFICATION FOR SURVEILLANCE TESTS
- POSITIVE DISCIPLINE

# Rx TRIP TREND 1987 TO-DATE



RXTRIP

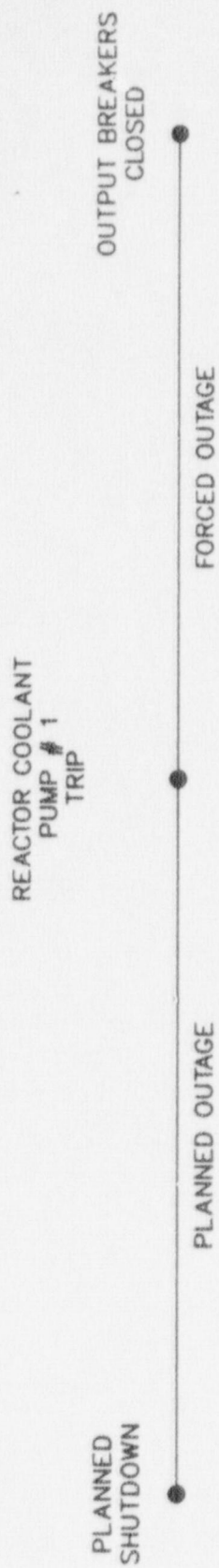
## OCTOBER OUTAGE 1987

"GETTING READY FOR WATTS AHEAD"

- LEARNING EXPERIENCE
- REFUELING OUTAGE APPROACH
- INDUSTRY CONCEPTS
- STRINGENT SELF EVALUATION



# OCTOBER OUTAGE 1987



FORCED OUTAGE

PLANNED OUTAGE

## PLANNED OUTAGE

### PRIMARY COMMITMENT

- STARTUP STRAINER REMOVAL
- FAST BUS TRANSFER
- SNUBBER INSPECTION

### SECONDARY OBJECTIVES

- BACKFLUSHABLE FILTER ISOLATION VALVE REPAIR
- CONOSEAL REPAIR/PRIMARY LEAKS
- REDUCTION OF CONTROL ROOM INSTRUMENTS OUT OF SERVICE

### SIGNIFICANT DISCOVERY WORK

- RCP # 4 TESTING

## FORCED OUTAGE

### SIGNIFICANT WORK

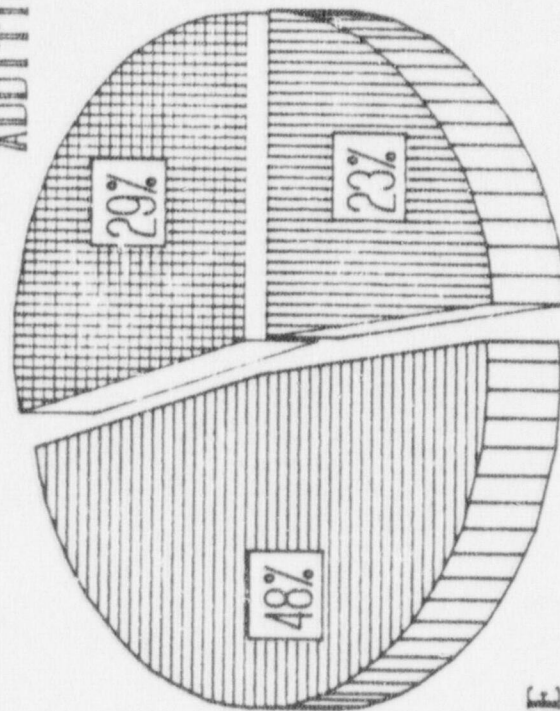
- RCP # 1 MOTOR REPLACEMENT
- BACKFLUSHABLE FILTER

# October Outage

Total Items Worked

(502)

ADDITIONS TO SCOPE  
(144)



FORCED OUTAGE  
(116)

ORIGINAL OUTAGE  
(242)

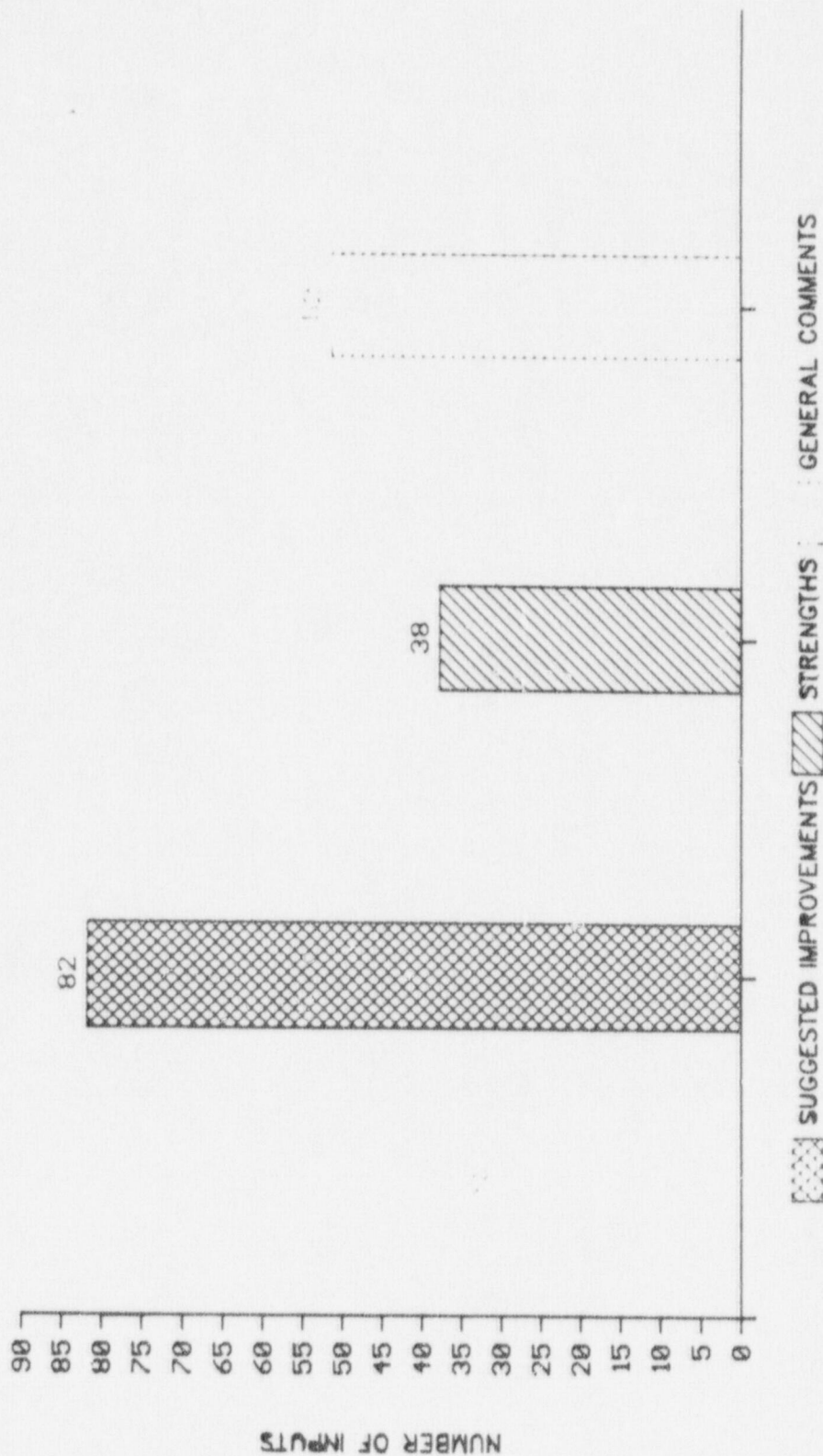


## OUTAGE ACHIEVEMENTS

- SNUBBER INSPECTION WORK COMPLETED AHEAD OF SCHEDULE
- STRAINER REMOVAL WORK COMPLETED AHEAD OF SCHEDULE
- TWENTY FOUR DESIGN CHANGES INSTALLED
- CONOSEAL WORK PERFORMED
- RCP MOTOR REPLACEMENT SCHEDULED AND EXECUTED WITHIN SEVEN DAYS

OUTACH

# OCTOBER OUTAGE CRITIQUE INPUTS RECEIVED\*



\* 18 DISCIPLINE AREAS RESPONDED.  
MOST INPUTS HAD MULTIPLE COMMENTS

## KEY IMPROVEMENTS

- COMMUNICATIONS
- ACTIVITIES COORDINATOR (LLRT AND FUNCTIONAL TESTS)
- SCHEDULE (ACCUMULATION OF BASELINE DATA)

KEYIMPU



## KEY STRENGTHS

- OUTAGE WAR ROOM
- MATERIAL STAGING/MATERIAL SUPPORT
- OUTAGE MANAGEMENT
- DETAILED WORK PACKAGE PREPLANNING
- HEALTH PHYSICS SUPPORT
- TEAM WORK

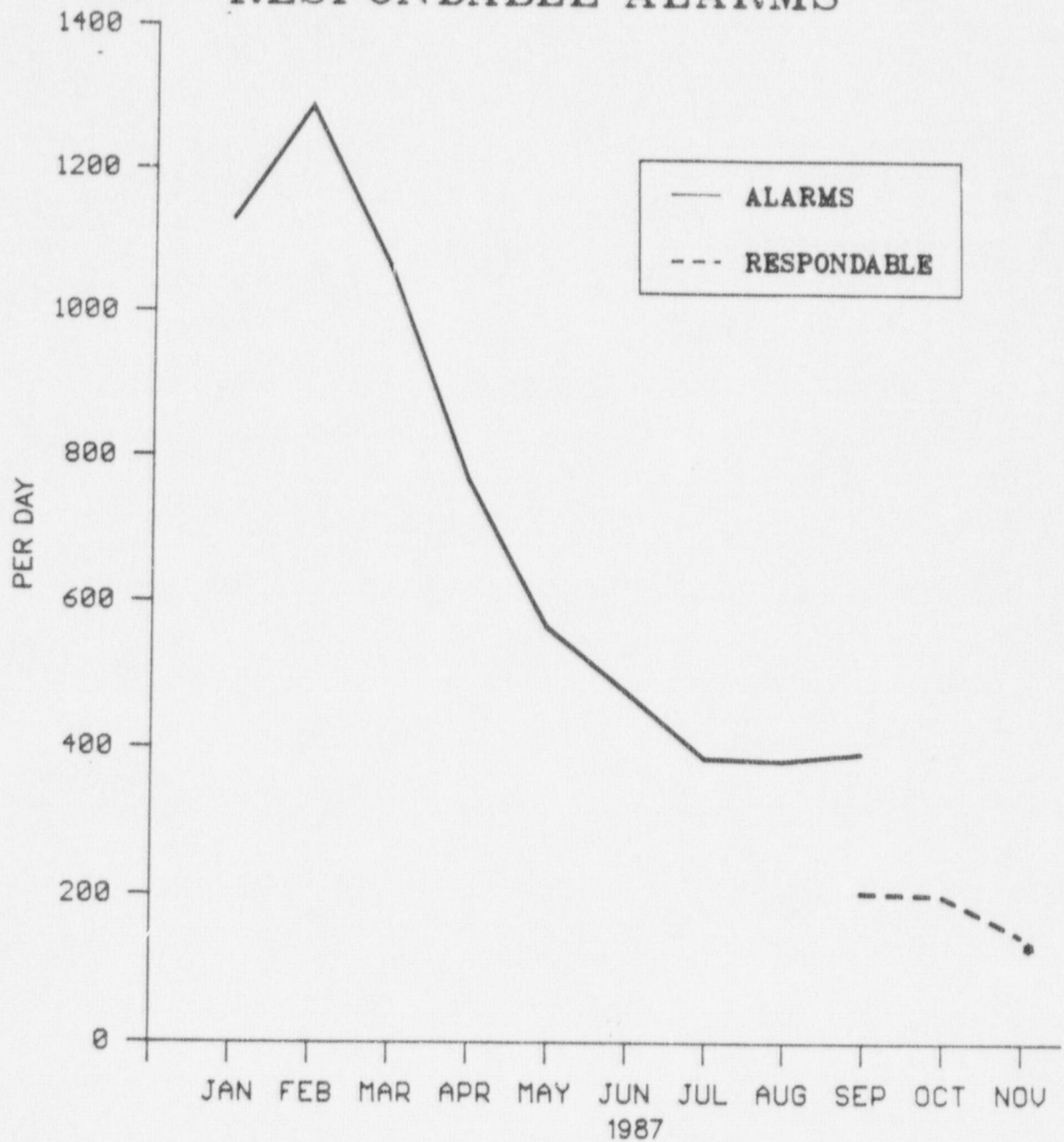
KEYSRTH

# SECURITY STATUS AND TRENDS

- PERFORMANCE INDICATORS
  - ALARMS
  - COMPENSATORY POSTS
  - OVERTIME
- SECURITY EVENTS
- BARRIER PROGRAM
- INCREASED GEORGIA POWER SECURITY MANPOWER
- PREPARATIONS FOR UNIT 2

SECSAT

# SECURITY EVENTS RESPONDABLE ALARMS

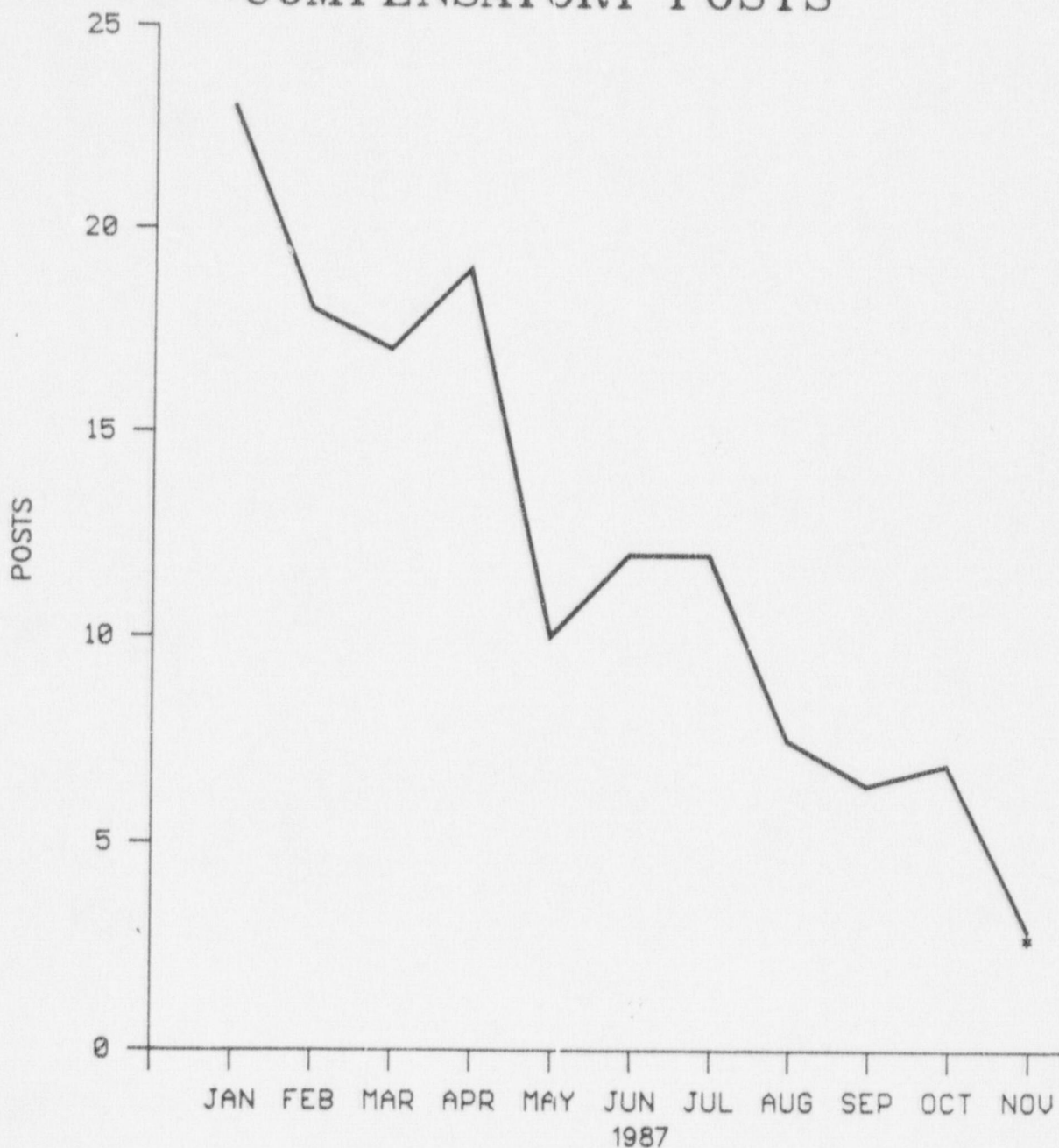


\* PROJECTED FOR NOVEMBER

SECFLARM



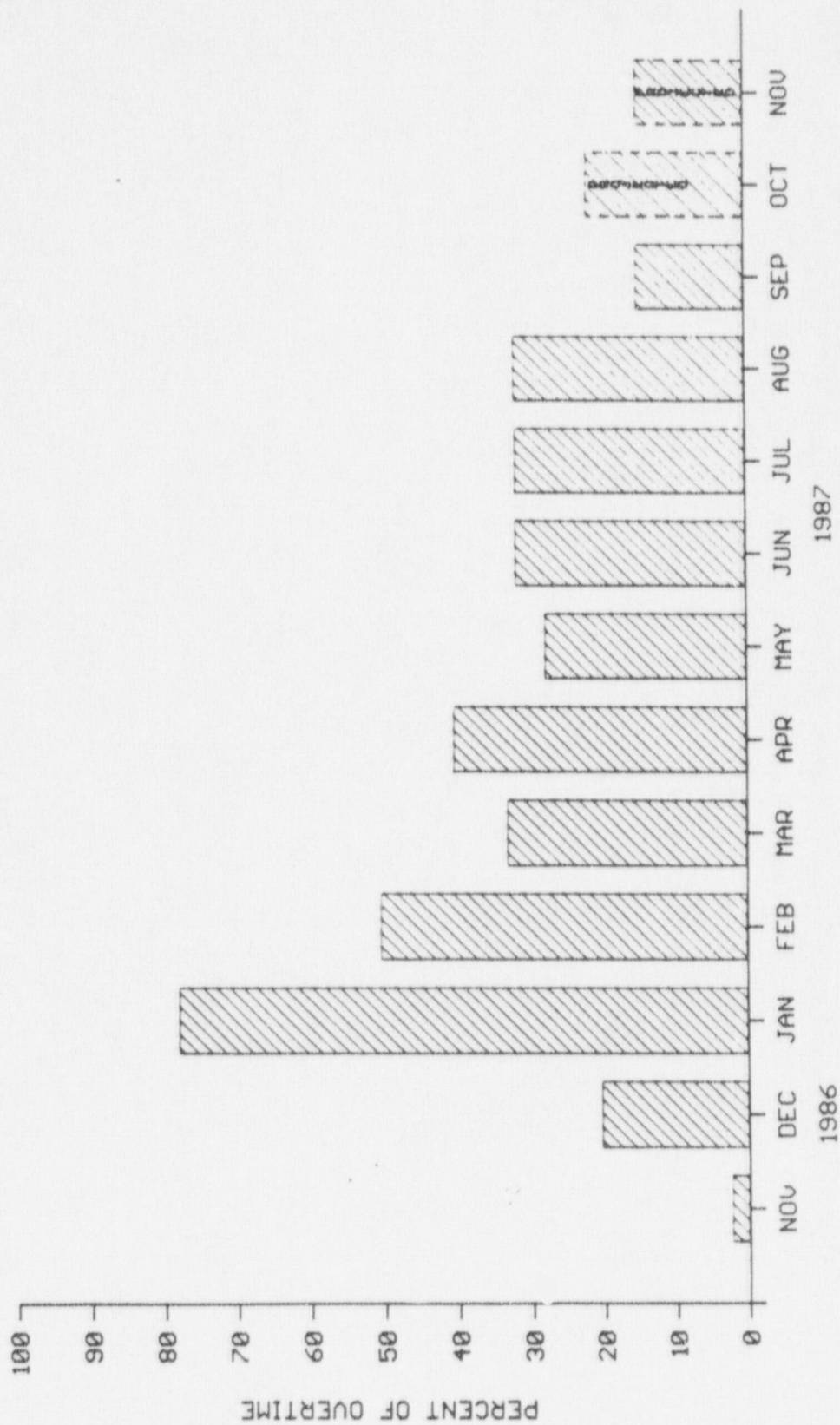
# SECURITY COMPENSATORY POSTS



\* PROJECTED FOR NOVEMBER

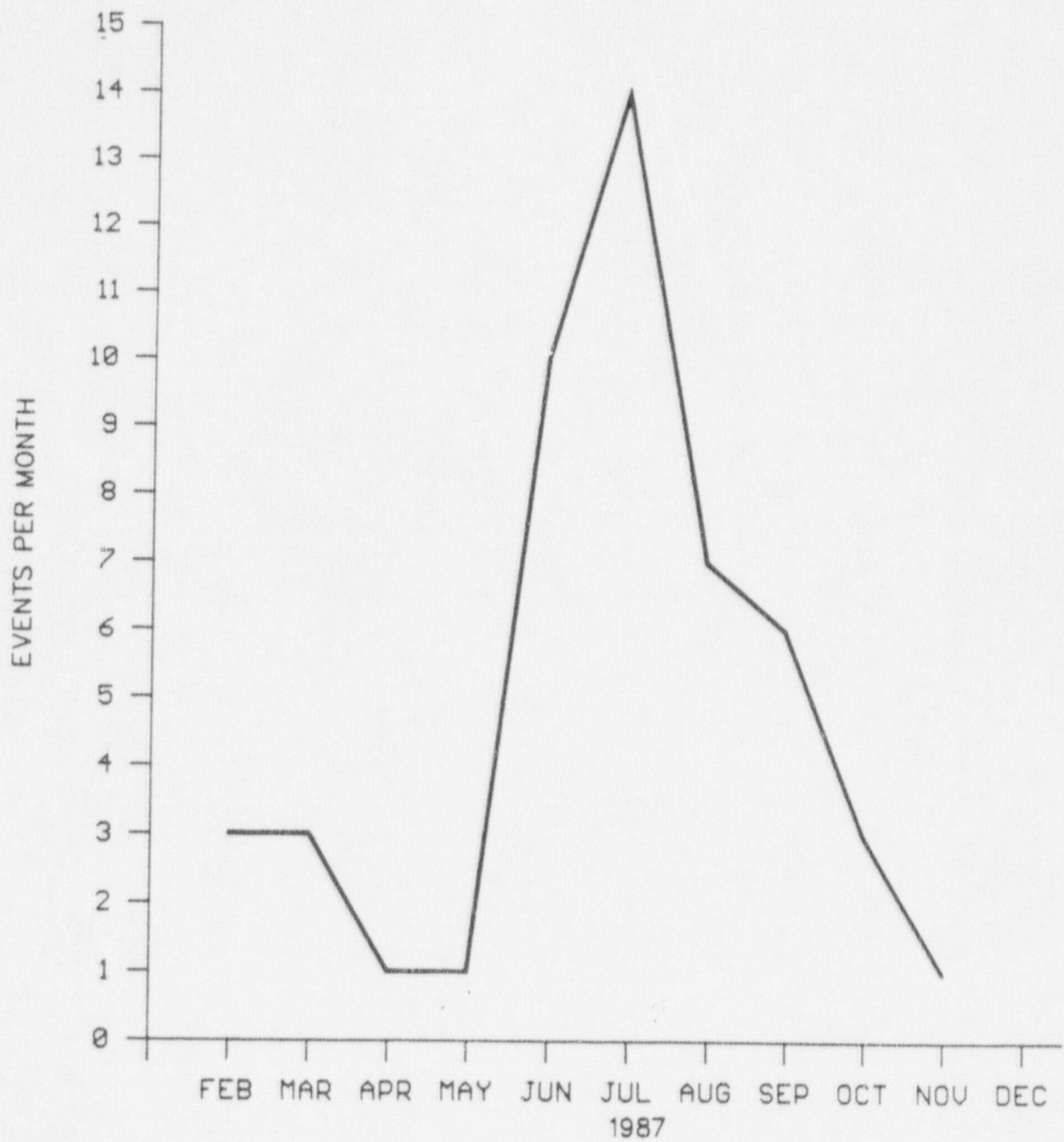
SECCOMP

# SECURITY OVERTIME



SECOT

# REPORTABLE SECURITY EVENTS



RSE



## SECURITY EVENTS SINCE LAST MEETING

- LICENSEE IDENTIFIED AND REPORTED
- DECREASED RATE OF INCIDENTS
- BARRIERS

# OPERATIONAL READINESS INSPECTION

SCOPE TO AUDIT ALL ASPECTS OF VOGTLE SECURITY OPERATIONS, INCLUDING PENETRATION RESISTANCE, TRAINING, RECORDS AND REPORTS, DISCIPLINE, SCHEDULES, EFFECTIVENESS AND KNOWLEDGE OF MANAGERS, SUPERVISORY, AND MANAGEMENT PERSONNEL.

TEAM: CONSULTANT WITH SIGNIFICANT SECURITY EXPERIENCE, INCLUDING NRC, SUPERVISORY PERSONNEL FROM PLANT HATCH AND CORPORATE SECURITY COORDINATORS AND MANAGERS.

DURATION: PERSONNEL PARTICIPATING WERE NOT CONSTRAINED BY TIME. ISSUES WERE TO BE FOLLOWED UNTIL THE EVALUATORS WERE SATISFIED THAT THE ASSIGNMENT WAS COMPLETED. THE INSPECTION PORTION WAS COMPLETED IN ABOUT TWO WEEKS FOR THE MAJORITY OF THE EVALUATORS.

# READINESS INSPECTION

## AREAS EVALUATED

### PENETRATION

### MISSION

PROBE, TEST, AND EVALUATE THE EFFECTIVENESS OF PHYSICAL BARRIERS AND ELECTRONIC EQUIPMENT.

### TRAINING

EVALUATE TO ENSURE TRAINING IS APPROPRIATE, EFFECTIVE, PROPERLY DOCUMENTED, AND CONSISTENT WITH FEDERAL AND STATE REQUIREMENTS.

### RECORDS AND REPORTS

TO EVALUATE THE QUALITY (ACCURACY AND APPROPRIATENESS) OF ALL SECURITY ASSOCIATED RECORDS.

### DISCIPLINE AND PERSONNEL

TO EVALUATE PROGRAMS, PROCEDURES, AND PRACTICES TO DETERMINE IF PERSONNEL RELATED MATTERS ARE HANDELED IN AN APPROPRIATE, EQUITABLE, AND CONSISTENT MANNER.

### SCHEDULES

TO EVALUATE SCHEDULING IN TERMS OF EFFECTIVENESS, EFFICIENCY, AND EQUITABLE PRACTICES.

### MANAGERIAL, SUPERVISORY, AND SECURITY OFFICER EFFECTIVENESS

EVALUATION THROUGH OBSERVATION AND INTERVIEWS OF EACH GROUP.

READINESS