

Official file

SEP 22 1988

Docket Nos. 50-424, 50-425
License Nos. NPF-68, CPPR-109

✓ Georgia Power Company
ATTN: Mr. W. G. Hairston, III
Senior Vice President -
Nuclear Operations
P. O. Box 4545
Atlanta, GA 30302

Gentlemen:

SUBJECT: MEETING SUMMARY - VOGTLE FACILITY, UNITS 1 AND 2, DOCKET NOS. 50-424
AND 50-425

This refers to the management meeting conducted at the Vogtle site on September 1-2, 1988. This meeting was held at our request to discuss Unit 1 plant performance and Unit 2 construction status. A list of attendees, a brief summary and a copy of your handout are enclosed.

It is our opinion that this meeting was beneficial. Efforts to improve the Unit 1 performance and the continued on-schedule construction of Unit 2 were noted.

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,

M. L. Ernst / for

J. Nelson Grace
Regional Administrator

Enclosures:

- 1. Meeting Summary
- 2. List of Attendees
- 3. Georgia Power Company Presentation

(cc w/encls: See page 2)

8810070186 880922
PDR ADOCK 05000424
P PDC

140
11
245

SEP 22 1988

cc w/encls:

- ✓ R. P. McDonald, Executive Vice President, Nuclear Operations
- ✓ P. D. Rice, Vice President, Project Director
- ✓ C. W. Hayes, Vogtle Quality Assurance Manager
- ✓ G. Bockhold, Jr., General Manager, Nuclear Operations
- ✓ J. P. Kane, Manager Licensing and Engineering
- ✓ J. A. Bailey, Project Licensing Manager
- ✓ B. W. Churchill, Esq., Shaw, Pittman, Potts and Trowbridge
- ✓ B. Kirkland, III, Counsel, Office of the Consumer's Utility Council
- ✓ D. Feig, Georgians Against Nuclear Energy State of Georgia

bcc w/encls:

- ✓ E. Reis, OGC
- ✓ J. Hopkins, NRR
- M. Sinkule, RII
- DRS, Technical Assistant
- ✓ MRC Resident Inspector
- Document Control Desk

RII

CPatterson
9/19/88

RII

MSinkule
9/20/88

RII

VLBrownlee
9/21/88

RII

LReyes
9/21/88

RII

MErnst
9/21/88

ENCLOSURE 1

MEETING SUMMARY

On September 1-2, 1988 representatives of Georgia Power Company (GPC) met with the NRC at the Vogtle site. Plant performance for the past eight months was reviewed for Unit 1. Unit 2 construction and testing status as well as plans for licensing and fuel load were discussed. A list of meeting attendees is in Enclosure 2.

GPC gave a presentation which provided an overall status of Unit 1. The operational performance was discussed with a detailed review of the seven scrams which have occurred during the first seven months of 1988. NRC management commented that the number of scrams is three to four times the national average.

Unit 2 construction status is proceeding on or ahead of schedule with a February 1989 fuel load date. GPC has incorporated lessons learned from Unit 1. Construction is proceeding on schedule while maintaining a high commitment to quality and responsiveness to NRC concerns.

NRC management noted that the recently installed Corporate Vice President for Nuclear Operations has quickly and thoroughly become familiar with the issues at Plant Vogtle.

ENCLOSURE 2

LIST OF ATTENDEES

U. S. Nuclear Regulatory Commission - Region II

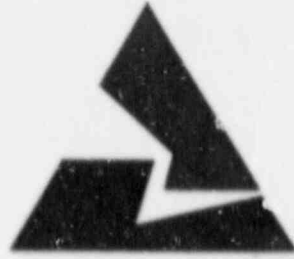
J. N. Grace, Regional Administrator
L. A. Reyes, Director, Division of Reactor Projects (DRP)
A. Herdt, Chief, Engineering Branch, Division of Reactor Safety
M. V. Sinkule, Chief, Section 3B, DRP
C. Patterson, Project Engineer, Section 3B, DRP
J. Rogge, Operations, Senior Resident Inspector
R. Schepens, Construction, Senior Resident Inspector
R. Aiello, Operations, Resident Inspector

NRC - Office of Nuclear Reactor Regulation

D. Matthews, Project Directorate II-3
J. Hopkins, Project Manager, Directorate II-3

Georgia Power Company

C. K. McCoy, Vice President, Nuclear Operations
P. D. Rice, Vice President, Project Director
R. H. Pinson, Vice President Engineering
G. Bockhold, General Manager, Nuclear Operations
R. M. Bellamy, Plant Manager
W. F. Kitchen, Operations Manager
J. E. Swartzelder, Nuclear Safety and Compliance Manager
C. C. Eckert, Health Physics and Chemistry Manager
A. L. Mosbauth, Assistant Plant Support Manager
P. D. Rushton, Training and Emergency Preparedness Manager
M. A. Griffis, Maintenance Manager
J. Barnie, Outage and Planning Manager
F. R. Timmons, Nuclear Security Manager
H. M. Handfinger, Assistant Plant Startup Manager
J. A. Bailey, Licensing Manager
T. V. Greene, Plant Support Manager
J. P. Kane, Manager Licensing and Engineering
W. Burns, Manager Licensing



VOGTLE ELECTRIC GENERATING PLANT

NRC

MANAGEMENT
PRESENTATION

PARTNERS IN PROFESSIONALISM

1 & 2 SEPTEMBER 1988

AGENDA
NRC MANAGEMENT MEETING
PLANT VOGTLE
SEPTEMBER 1, 1988

<u>TIME</u>	<u>TOPIC</u>	<u>SPEAKER</u>
11:00 A.M.	OPENING REMARKS AND INTRODUCTIONS	C. K. McCOY
11:15 A.M.	OPENING REMARKS AND INTRODUCTIONS	NRC
12:00 P.M.	OVERALL UNIT 1 STATUS	G. BOCKHOLD
12:20 P.M.	OPERATIONAL PERFORMANCE	W. F. KITCHENS
1:05 P.M.	LER/SUPERVEILLANCE	J. E. SWARTZWELDER
1:20 P.M.	HEALTH PHYSICS/CHEMISTRY STATUS	C. C. ECKERT
1:40 P.M.	TECHNICAL SUPPORT	A. L. MOSBAUGH
2:00 P.M.	TRAINING PROGRESS	P. D. RUSHTON
2:30 P.M.	MAINTENANCE STATUS	M. A. GRIFFIS
3:00 P.M.	REFUELING OUTAGE PLANS	J. B. BEASLEY
3:30 P.M.	SECURITY STATUS	F. R. TIMMONS
4:00 - 5:00 P.M.	TOUR UNIT 1 W/GPC	

AGENDA
NRC MANAGEMENT MEETING
PLANT VOGTLE
SEPTEMBER 2, 1988

<u>TIME</u>	<u>TOPIC</u>	<u>SPEAKER</u>
8:00 A.M.	OVERALL UNIT 2 STATUS	P. D. RICE
8:20 A.M.	CONSTRUCTION STATUS	R. H. PINSON
8:40 A.M.	STARTUP STATUS	H. M. HANDFINGER
9:00 A.M.	LICENSING STATUS	J. A. BAILEY
9:20 A.M.	SPECIAL PROGRAMS	R. H. PINSON
9:40 A.M.	UNIT 2 SUMMARY	P. D. RICE
10:00 - 11:00 A.M.	TOUR UNIT 2 W/GPC	
	RETURN TO ADMINISTRATION BUILDING AUDITORIUM	
11:00 A.M.	UNIT 1 AND 2 INTEGRATION PLANS	T. V. GREEN
11:20 A.M.	READINESS FOR UNIT 2 OPERATIONS	R. M. BELLAMY
12:00 P.M.	QUESTIONS AND CLOSING COMMENTS W/WORKING LUNCH	
12:30 P.M.	EXECUTIVE SUMMARY	C. K. McCOY

PLANT VOGTLE UNIT 1
1988 OVERALL UNIT 1 STATUS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT

BY

GEORGE BOCKHOLD, JR
GENERAL MANAGER

SEPTEMBER 1, 1988

AGENDA

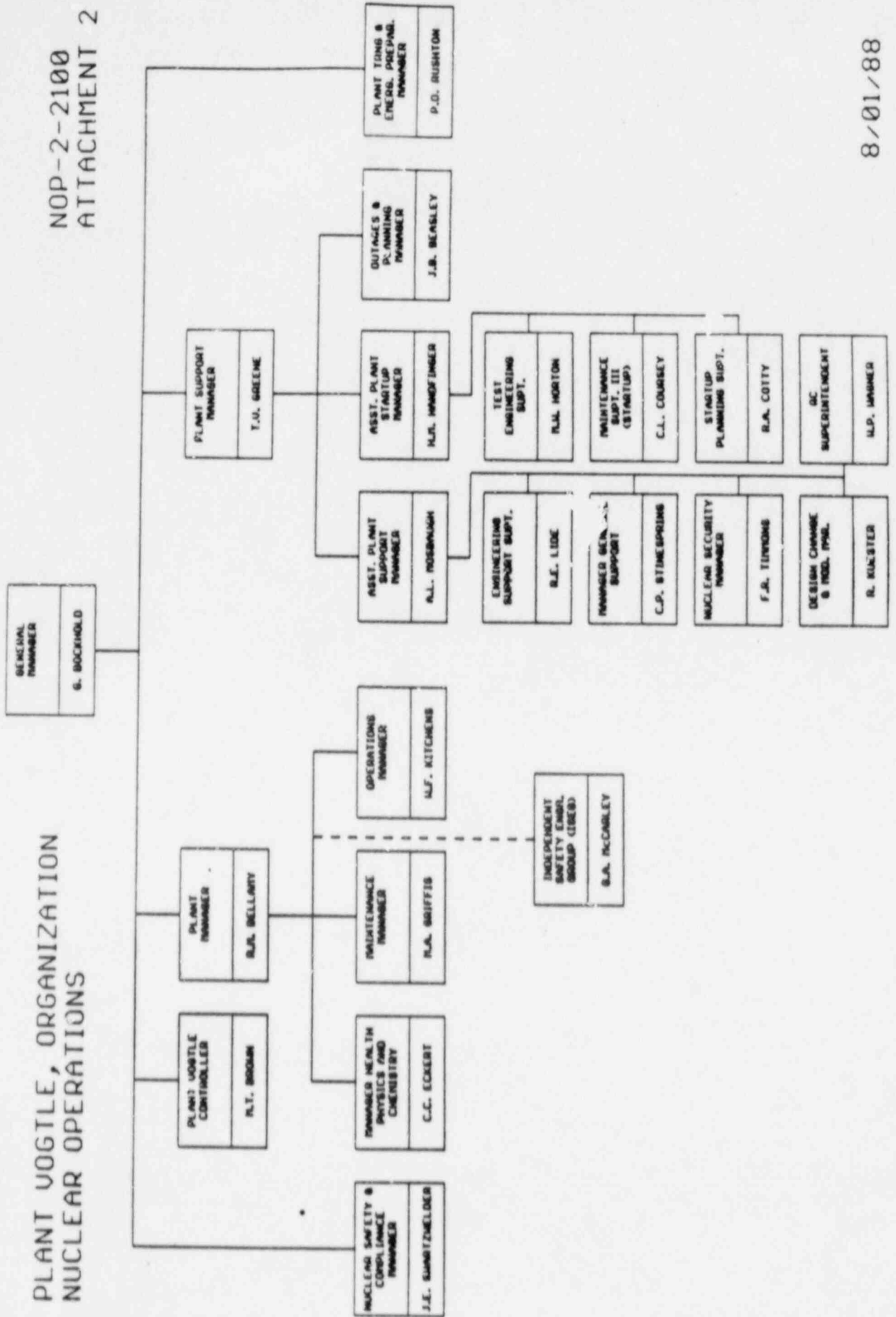
1. ORGANIZATION

2. KEY PERFORMANCE INDICATORS

3. AGENDA STRUCTURE

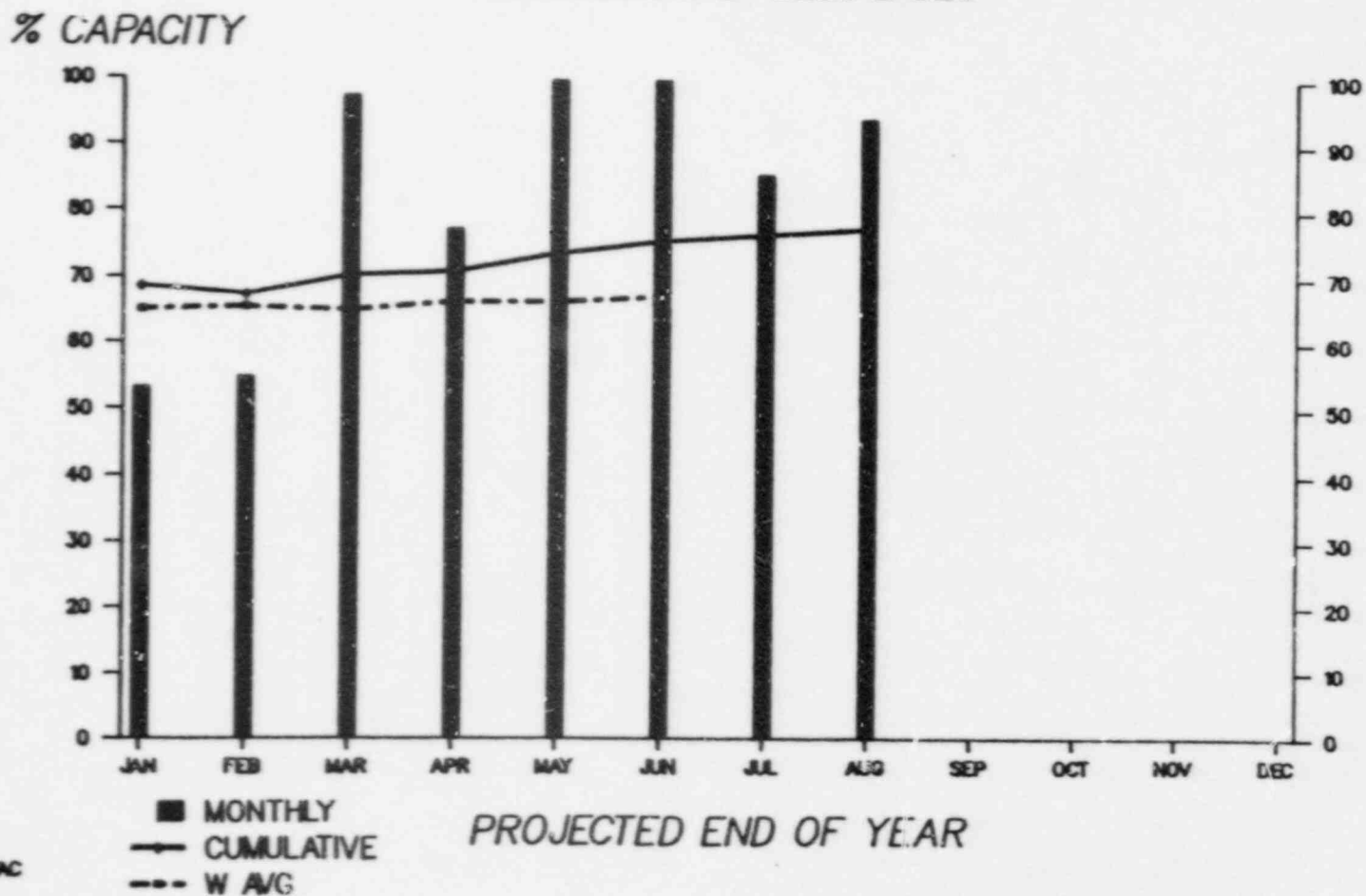
PLANT VOGTLE, ORGANIZATION
NUCLEAR OPERATIONS

NOP-2-2100
ATTACHMENT 2

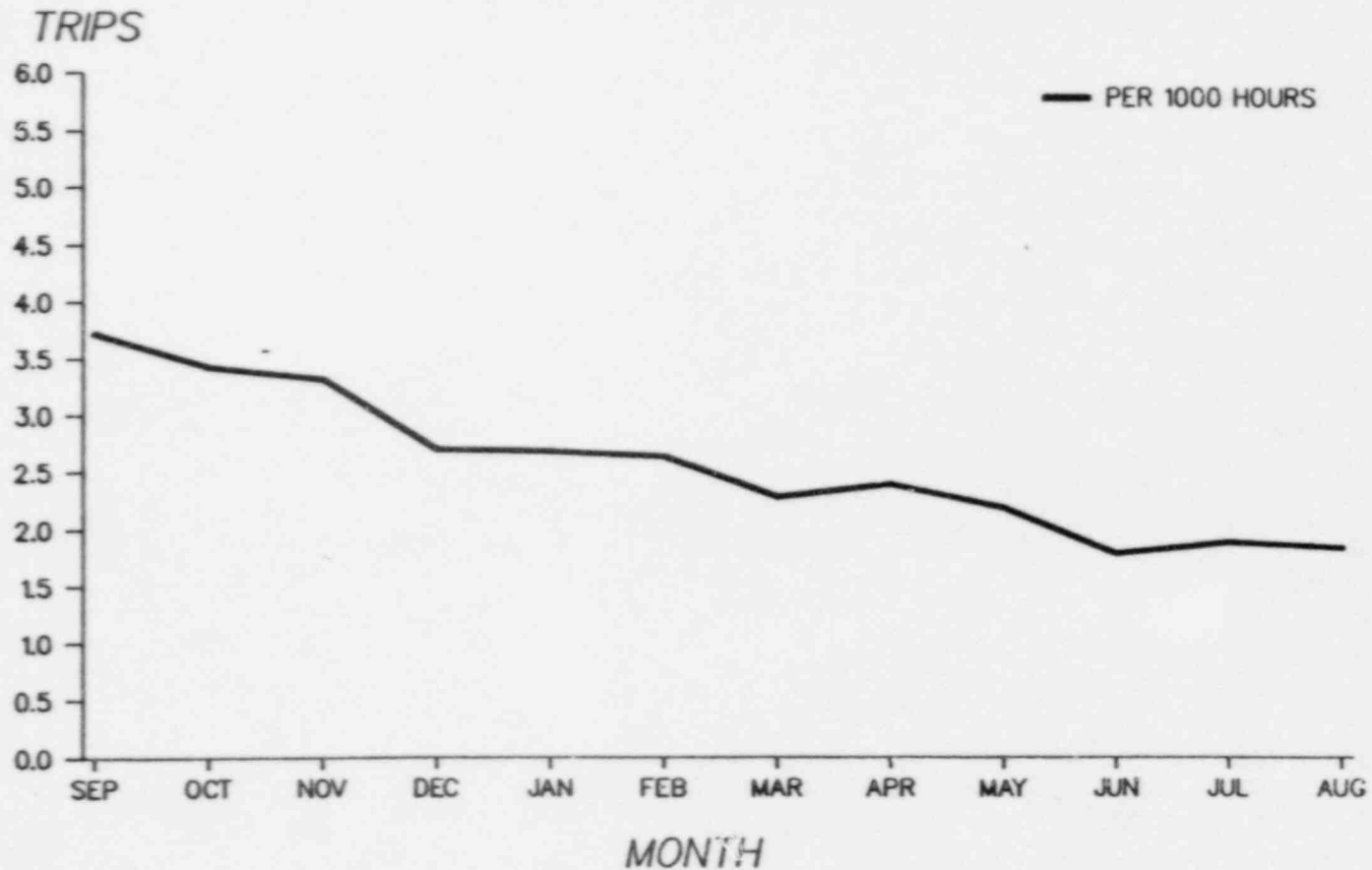


8/01/88

VOGTLE ELECTRIC GENERATING PLANT CAPACITY FACTOR

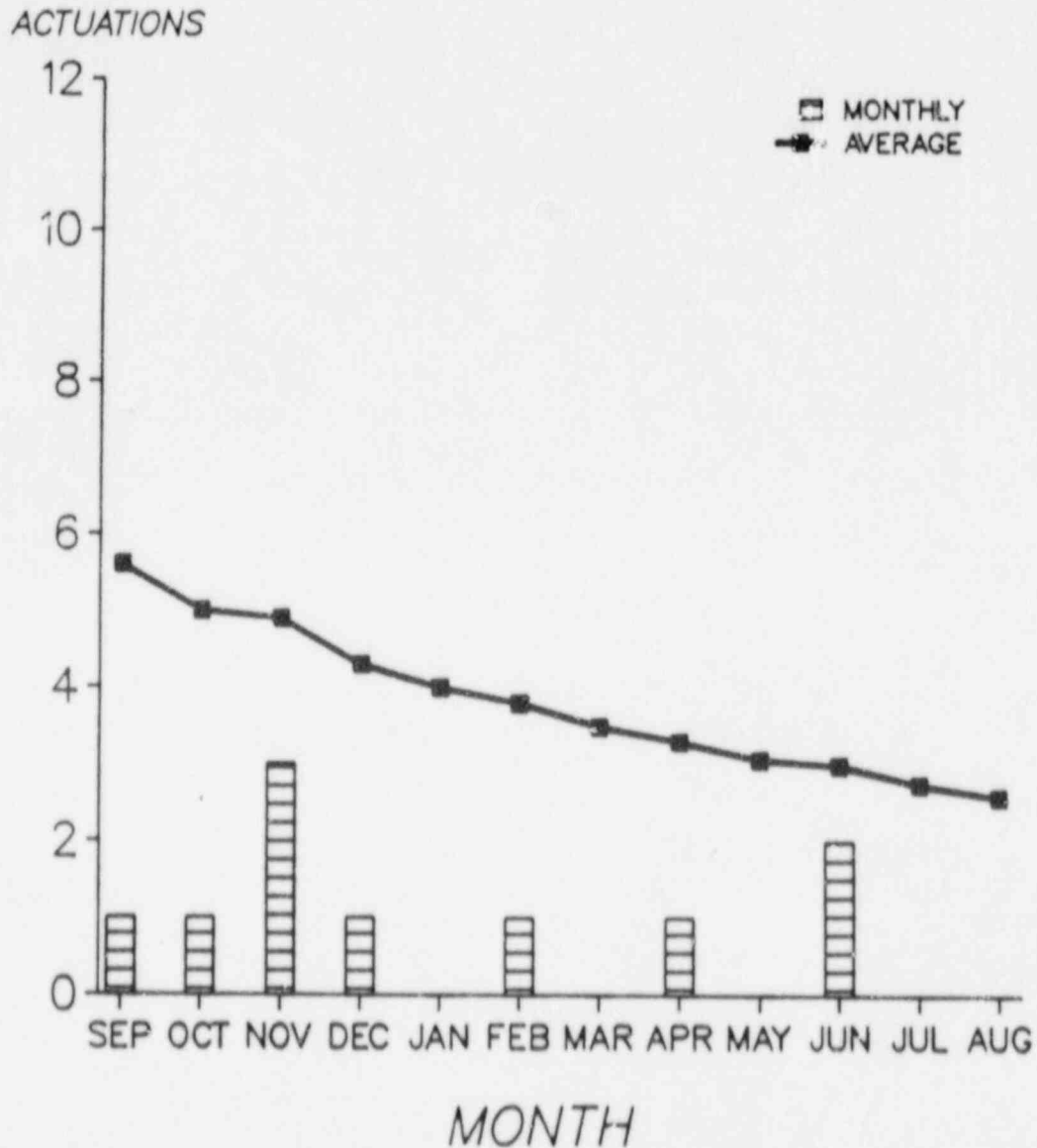


AUTOMATIC REACTOR TRIPS PER 1000 CRITICAL HOURS



ESFAS ACTUATIONS

ROLLING 12 MONTH



ESFAS

AEOD EVENTS TREND

LAST 7 MONTHS OF 1987 WERE COMPARED TO FIRST 7 MONTHS OF 1988

- o TOTAL AEOD EVENTS DOWN 62% (FROM 108 TO 41)
- o REACTOR TRIPS DOWN 46% (FROM 13 TO 7)
- o ESF ACTUATIONS DOWN 67% (FROM 12 TO 4)
- o MISSED TECH. SPEC. SURVEILLANCES DOWN 55% (FROM 22 TO 10)
- o EXCEEDED TECH. SPEC. LCO'S DOWN 55% (FROM 11 TO 5)
- o OTHER OPERATIONAL EVENTS DOWN 33% (FROM 6 TO 4)
- o SECURITY EVENTS DOWN 75% (FROM 44 TO 11)
- o TOTAL # OF LER'S DOWN 46% (FROM 54 TO 29)
- o PERSONNEL ERROR LER'S DOWN 45% (FROM 22 TO 12)

MANAGEMENT FOCUS

- ATTENTION TO DETAIL
- CONTINUE TO IMPROVE WORK EXECUTION
- CONTINUE TO LEARN
 - INDUSTRY EXPERIENCES
 - UNIT 2 HFT/1R1

PLANT VOGTLE UNIT 1
1988 OPERATIONAL PERFORMANCE
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT

BY

W.F. (SKIP) KITCHENS
OPERATIONS MANAGER

SEPTEMBER 1, 1988

AGENDA

1. REACTOR TRIPS

- DESCRIPTION
- CAUSE
- CORRECTIVE ACTIONS

2. ENGINEERED SAFETY FEATURES ACTUATIONS

- DESCRIPTION
- CAUSE
- CORRECTIVE ACTIONS

3. OPERATIONAL IMPROVEMENTS

4. SUMMARY

REACTOR TRIP SUMMARY

- SIX UNPLANNED AUTOMATIC REACTOR TRIPS
 - 5 CAUSED BY EQUIPMENT FAILURE
 - 1 CAUSED BY PERSONNEL ERROR

- ONE UNPLANNED MANUAL REACTOR TRIP
 - INITIATED BECAUSE OF EQUIPMENT FAILURE

- EVENT CRITIQUES AND ROOT CAUSES DETERMINED

REACTOR TRIP FROM REACTOR COOLANT PUMP TRIP (JANUARY 17, 1988)

1. DESCRIPTION

- 100% POWER, ONLINE 67 DAYS
- RCP #2 SUPPLY BREAKER TRIPPED
- AUTO REACTOR TRIP ON LOW FLOW SIGNAL
- GOOD TRIP RECOVERY

2. CAUSE

- MALFUNCTION OF NON-SAFETY RELATED SYSTEM PROTECTION RELAY, TYPE KD-10, DISTANCE RELAY

3. CORRECTIVE ACTIONS

- RCP MOTOR AND POWER CABLES CHECKED (MEGGAR AND CONTINUITY)
- RCP MOTOR STARTING AND RUNNING CURRENTS AND VOLTAGE CHECKED
- KD-10 RELAY CALIBRATION SHOWED PHASE C-A PICKUP AND PHASE ANGLES UNSTABLE
- REPLACED KD-10 RELAY
- DESIGN CHANGE INSTALLED TO PROVIDE SUPERVISORY FAULT DETECTION TO RELAY CIRCUITRY

REACTOR TRIP FROM GENERATOR FIELD GROUND

(FEBRUARY 15, 1988)

1. DESCRIPTION

- 100% POWER, ONLINE 6 DAYS
- TURBINE TRIP/REACTOR TRIP FROM MAIN GENERATOR TRIP
- GOOD TRIP RECOVERY

2. CAUSE

- FIELD GROUND ON MAIN GENERATOR
- PERSONNEL ERROR
- ELECTRICIAN TAKING VIBRATION READINGS PLACED CONDUCTIVE INSTRUMENT PROBE ON COLLECTOR BRUSH RIGGING
- FOREMAN FAILED TO ADEQUATELY IMPLEMENT WORK ORDER INSTRUCTIONS

3. CORRECTIVE ACTIONS

- MAINTENANCE FOREMAN COUNCELED
- OTHER MAINTENANCE PERSONNEL INSTRUCTED

REACTOR TRIP FROM STATOR COOLING CONTROLLER FAILURE (APRIL 7, 1988)

1. DESCRIPTION

- 100% POWER, ONLINE 51 DAYS
- STATOR COOLANT ALARM AT 0838 CDT
- STATOR COOLANT TEMPERATURE INCREASING
- POWER REDUCTION STARTED AND SECOND STATOR COOLANT PUMP STARTED
- TURBINE TRIP/REACTOR TRIP ON HIGH STATOR COOLANT TEMPERATURE AT 0846 CDT
- GOOD TRIP RECOVERY

2. CAUSE

- TEMPERATURE CONTROLLER FAILURE CAUSED STATOR COOLING WATER TO BYPASS HEAT EXCHANGER
- MANUFACTURING ERROR--UNDERSIZED LINKAGE SHAFT ON CONTROLLER HAD INSUFFICIENT THREAD ENGAGEMENT WITHIN THUMB NUT
- EQUIPMENT SKID VIBRATION

3. CORRECTIVE ACTIONS

- REPLACED DEFECTIVE PART ON TEMPERATURE CONTROLLER
- RELOCATED CONTROLLER OFF THE SKID TO REDUCE VIBRATION
- INSPECTED FOR OTHER SUCH CONTROLLERS IN SIMILAR CONDITION IN PLANT

MANUAL REACTOR TRIP - FAILURE OF MAIN FEED ISOLATION VALVE (APRIL 24, 1988)

1. DESCRIPTION

- 100% POWER, ONLINE 17 DAYS
- LOOP 4 MFIV ALARM RECEIVED AT 0921 CDT
- LOOP 4 MFIV CLOSED INDICATION OBSERVED, AND ATTEMPTED TO REOPEN VALVE FROM CONTROL ROOM
- SHIFT SUPERVISOR DIRECTED MANUAL REACTOR TRIP AT 0922 CDT
- GOOD TRIP RESPONSE
- MAIN FEED REG VALVE NO. 2 DID NOT INDICATE FULLY CLOSED, OPERATOR VERIFIED CLOSED LOCALLY

2. CAUSE

- CLOSURE OF LOOP 4 MFIV
- AIR SOLENOID VALVE FAILED (SOLENOID COIL RESISTANCE INFINITY)

3. CORRECTIVE ACTIONS

- REPLACED COMPONENTS IN MFIV CONTROL SYSTEM CIRCUITRY (2 AIR SOLENOIDS, 4 RELAYS, AND 2 TIMER RELAYS)
- TESTED REMOVED PARTS IN MAINTENANCE SHOP TO DETERMINE CAUSE
- ADJUSTED VALVE INDICATION LIMIT SWITCH FOR MAIN FEED REG VALVE NO. 2

REACTOR TRIP FROM GENERATOR POTENTIAL TRANSFORMER FAILURE (JULY 14, 1988)

1. DESCRIPTION

- 100% POWER, ONLINE 78 DAYS
- MAIN GENERATOR TRIP CAUSED TURBINE TRIP/
REACTOR TRIP
- GOOD TRIP RECOVERY
- REVIEWED PLANT FAULT RECORDER TRACINGS,
GENERATOR TRIP CAUSED BY OVEREXCITATION
CONDITION SENSED BY VOLTS/HERTZ RELAY
- POTENTIAL TRANSFORMER PRIMARY SIDE FUSE
FOUND BLOWN

2. CAUSE

- COMPONENT FAILURE IN RELAYING/METERING
POTENTIAL TRANSFORMER 2A, CAUSING PRIMARY
FUSE TO BLOW
- COMPONENT FAILURE IN GENEREX EXCITATION
SYSTEM (SYNCHRONIZING CIRCUIT BOARD)

3. CORRECTIVE ACTIONS

- REPLACE PT 2A
- REPLACED ALL PRIMARY PT FUSES
- REPLACED MALFUNCTIONING CIRCUIT BOARDS
IN GENEREX
- FAILED PT BEING ANALYZED FOR CAUSE OF FAILURE
- RELIABILITY AND SENSITIVITY EVALUATION OF
GENEREX BEING PERFORMED

RTFGPTF

REACTOR TRIP FROM FAILED MAIN TRANSFORMER DISCONNECT SWITCH

(JULY 30, 1988)

1. DESCRIPTION

- 100% POWER, ONLINE 15 DAYS
- MAIN GENERATOR TRIP CAUSED TURBINE TRIP/
REACTOR TRIP
- REPORTS OF FLASH AND LOUD BANG IN SWITCHYARD,
POWER LINE DOWN AT MAIN STEPUP TRANSFORMER
- GOOD TRIP RECOVERY

2. CAUSE

- 230KV PHASE A POWER LINE DISCONNECTED, MAIN
GENERATOR PROTECTION TRIP
- CONNECTION POINT ON DISCONNECT SWITCH LOOSE,
ARCING AND HOT SPOT RESULTED IN INSULATOR
FAILURE WITH DIRECT PATH TO GROUND

3. CORRECTIVE ACTION

- REPLACED INSULATOR AND HARDWARE
- PERFORMED INFRARED STUDY OF SIMILAR CONNEC-
TION POINTS
- ENGINEERING STUDY INITIATED TO EVALUATE CABLE
SUPPORT

REACTOR TRIP DUE TO LIGHTNING STRIKE (JULY 31, 1988)

1. DESCRIPTION

- 16% POWER, UNIT STARTUP IN PROGRESS
- AUTO REACTOR TRIP-NEGATIVE FLUX RATE FIRST OUT
- ERF COMPUTER OUT OF SERVICE
- GOOD TRIP RECOVERY-NORMAL CONTROL ROOM INDICATIONS
- EYEWITNESS REPORTS OF LIGHTNING STRIKING LOW VOLTAGE SWITCHYARD AND CONTAINMENT BUILDING

2. CAUSE

- LIGHTNING STRIKE CAUSED ELECTRICAL SURGE, CAUSING CRDM POWER SUPPLIES TO SHUT DOWN, AND CONTROL RODS TO FALL IN
- INADEQUATE DESIGN

3. CORRECTIVE ACTION

- RESET CRDM POWER SUPPLIES AND FUNCTIONALLY TESTED CRDM SYSTEM
- A 100 VOLT DC POWER SUPPLY AND A SUPERVISORY LOGIC CARD REPLACED IN CRDM SYSTEM
- CONTAINMENT BUILDING LIGHTNING PROTECTION INSPECTED
- ERF COMPUTER, FIRE PROTECTION COMPUTER, MAIN GENERATOR CONTROLS, PROCESS CONTROL SYSTEM, AND SOLID STATE PROTECTION SYSTEM CHECKED
- RE-EVALUATION OF NRC IEN 85-86

UNPLANNED ESF ACTUATIONS SUMMARY

- 3 EVENTS, 4 ACTUATIONS TOTAL
- 1 ACTUATION FROM PERSONNEL ERROR
(FEEDWATER ISOLATION)
- 3 CONTAINMENT VENTILATION ISOLATIONS

FEEDWATER ISOLATION FROM SG HIGH WATER LEVEL (FEBRUARY 1, 1988)

1. DESCRIPTION

- HOT SHUTDOWN, RCS AT 323 DEG. F, 330 PSIG
- CONDENSATE ON LONG CYCLE RECIRC
- DECAY HEAT REMOVAL WITH RHR IN SERVICE
- MAINTENANCE TROUBLESHOOTING #1 MAIN FEED ISOLATION VALVE
- CONTROL ROOM OPERATOR OPENED #1 MFIV FOR STROKE TEST PER MAINTENANCE REQUEST
- STEAM GENERATOR #1 LEVEL INCREASED FROM 57% TO 78%, INITIATING FEEDWATER ISOLATION SIGNAL
- MFIV #1 AND BYPASS FEED REG VALVES AUTO CLOSED

2. CAUSE

- LICENSED OPERATOR OPENED MFIV WITH CONDENSATE IN LONG CYCLE RECIRC (PERSONNEL ERROR)
- HAD PERFORMED SAME TASK SEVERAL TIMES ON PREVIOUS SHIFT IN HOT SHUTDOWN WITH CONDENSATE ON SHORT CYCLE RECIRC (CONDITIONS CHANGED)
- OPERATOR DID NOT INFORM OR DISCUSS TASK WITH SHIFT SUPERVISOR PRIOR TO OPENING MFIV

3. CORRECTIVE ACTION

- COUNCELED OPERATOR AND SHIFT SUPERVISOR
- BRIEFED OTHER LICENSED OPERATORS ON PROPER COMMUNICATIONS AND IMPORTANCE OF VERIFICATION OF SYSTEM ALIGNMENT
- PROCEDURE REVISED TO CAUTION NOT TO OPEN MFIVs OR BFIVs WHEN CONDENSATE ON LONG CYCLE RECIRC

FIFSGHML

CONTAINMENT VENTILATION ISOLATION FROM RELAY FAILURE (APRIL 10, 1988)

1. DESCRIPTION

- 93% POWER
- MAINTENANCE ON CHANNEL A OF RADIATION MONITOR 1RE-2565
- HIGH RAD SIGNAL FROM CHANNEL C OF 1RE-2565
- CVI SIGNAL INITIATED, VALVES AUTO CLOSED
- VERIFIED NO ACTUAL HIGH RAD CONDITION
- RESET CVI

2. CAUSE

- RELAY MALFUNCTIONED WHEN MODE KEYSWITCH OPERATED
- SIMULATED LOSS OF POWER CONDITION ON CHANNEL C
- DEFAULT VALUES CONSERVATIVELY LOW

3. CORRECTIVE ACTION

- REPLACED RELAY
- ENGINEERING EVALUATION OF RELAY APPLICATION
- DEFAULT VALUES REEVALUATED

CONTAINMENT VENTILATION ISOLATIONS FROM EXPOSED LEADS

(JUNE 10, 1988)

1. DESCRIPTION

- 100% POWER
- CVI SIGNAL INITIATED, APPROPRIATE VALVES CLOSED AT 0018 CDT
- VERIFIED NO ABNORMAL RADIATION CONDITION
- TROUBLESHOOTING OF RAD MONITOR RE-2565 SHOWED APPARENT POWER SUPPLY FAILURE ON CHANNEL C
- RE-2565C PLACED IN BYPASS AND CVI SIGNAL RESET AT 0206 CDT
- RE-2565C TAKEN OUT OF BYPASS TO RE-ENTER MONITOR SETPOINTS WHEN ANOTHER CVI OCCURRED AT 0212 CDT
- VERIFIED NO ABNORMAL RADIATION CONDITIONS
- RE-2565C PLACED IN BYPASS AT 0218 CDT

2. CAUSE

- INADEQUATE INSTALLATION—FLOW TRANSMITTER SHIELD WIRE PARTIALLY EXPOSED
- VIBRATION ON EQUIPMENT SKID CAUSED SLIGHT MOVEMENT OF WIRE — CONTACTED METAL ENCLOSURE AND GROUNDED
- LOSS OF POWER SIMULATED, DEFAULT VALUES INSERTED
- SUBSEQUENTLY, NORMAL BACKGROUND SUFFICIENT TO TRIGGER HIGH RAD ALARM

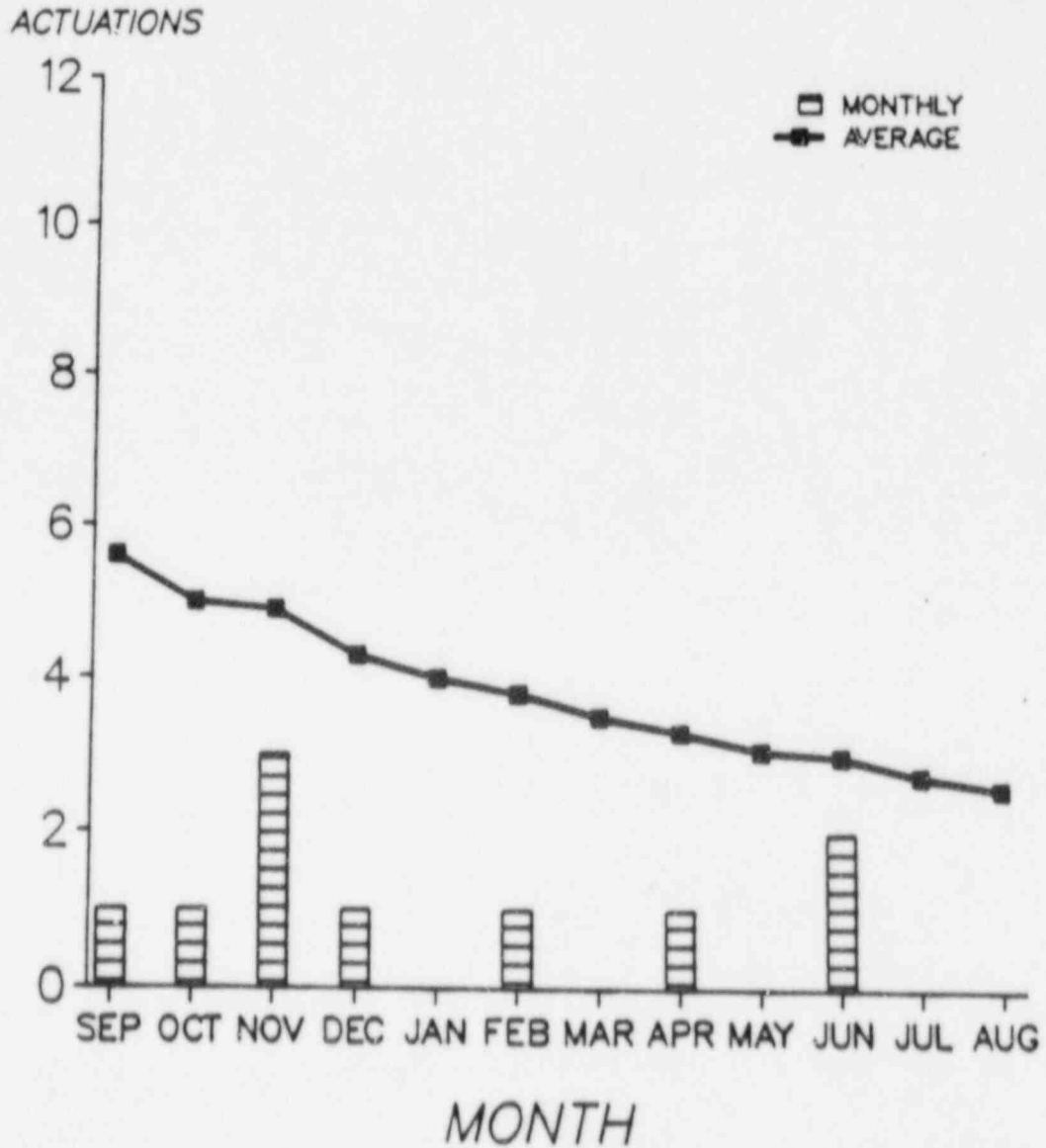
3. CORRECTIVE ACTION

- EXPOSED WIRE INSULATED
- SIMILAR WIRING INSPECTED
- NEW DEFAULT VALUES

CVIFEL

ESFAS ACTUATIONS

ROLLING 12 MONTH



ESFAS

PLANT VOGTLE UNIT 1
1988 LER AND SURVEILLANCE
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT

BY

J.E. SWARTZWELDER

NUCLEAR SAFETY AND COMPLIANCE
MANAGER

SEPTEMBER 1, 1988

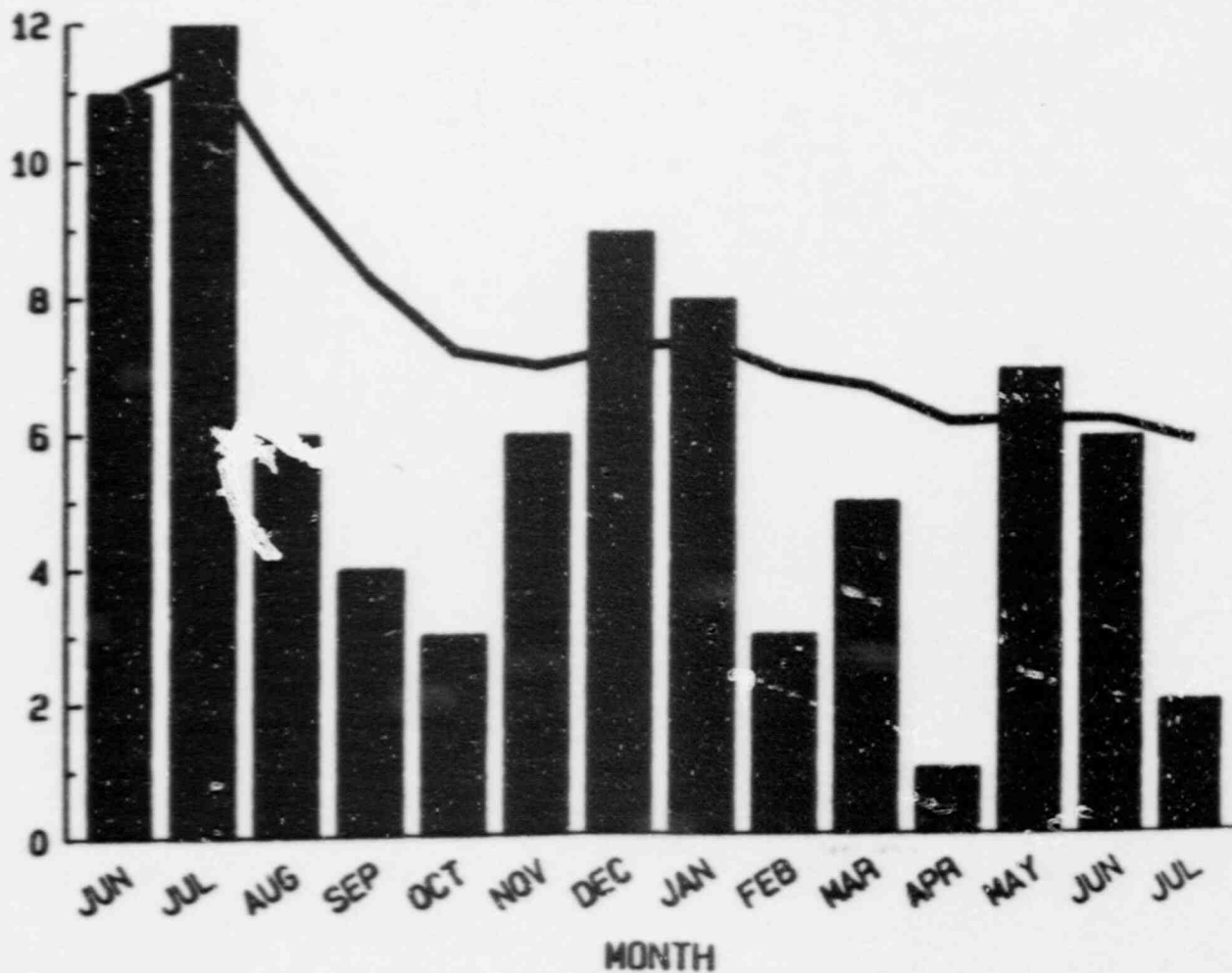
AGENDA

1. LER TRENDS

2. SURVEILLANCE IMPROVEMENTS

LER'S TO NRC JUNE 1987 TO JULY 1988

OF LER'S



CUMULATIVE AVERAGE
LER'S / MONTH

TOTAL
LER'S / MONTH

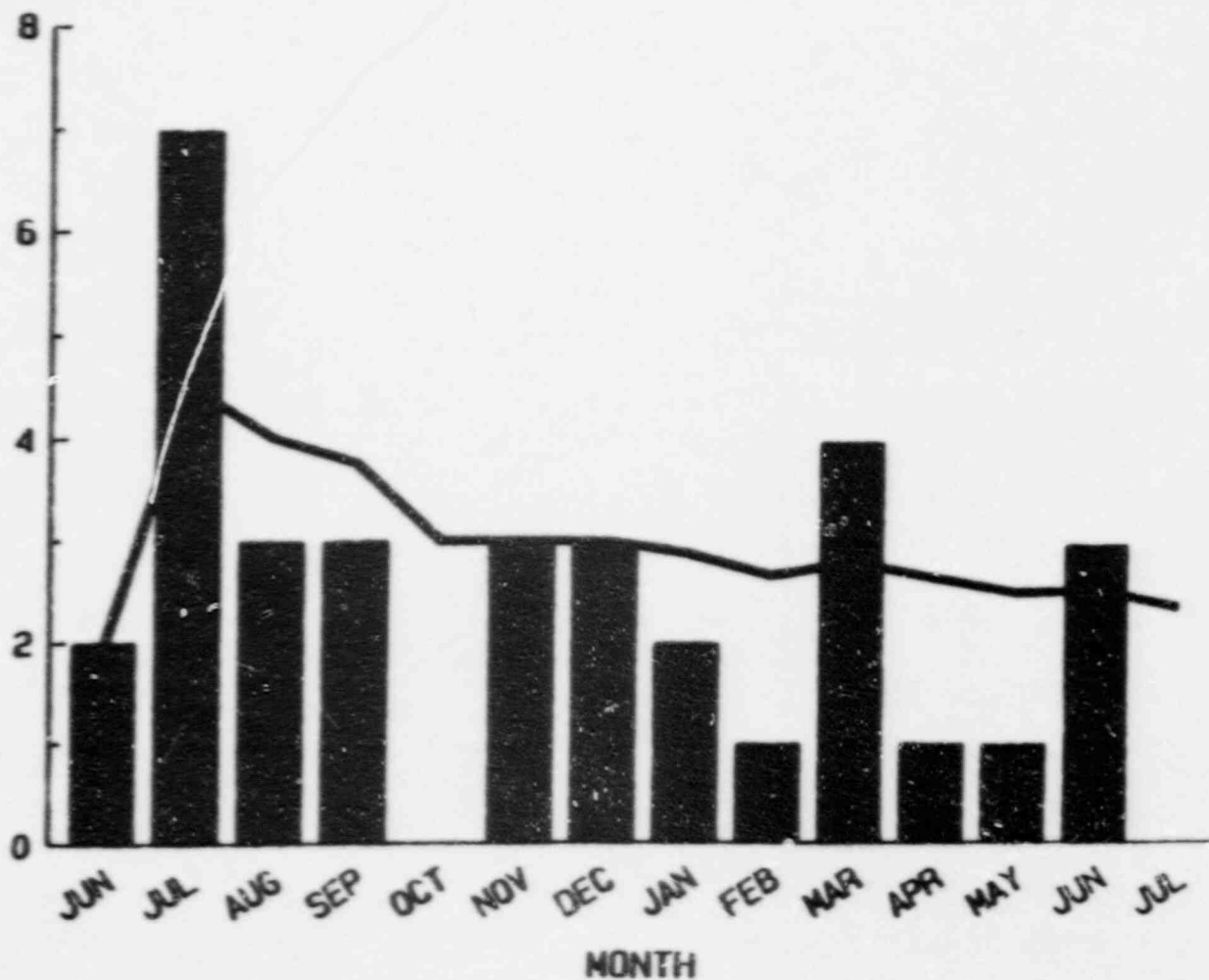
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- o EXCEEDED TECH. SPEC. LCU'S DOWN 55% (FROM 11 TO 5)
- o OTHER OPERATIONAL EVENTS DOWN 33% (FROM 6 TO 4)
- o SECURITY EVENTS DOWN 75% (FROM 44 TO 11)
- o TOTAL # OF LER'S DOWN 46% (FROM 54 TO 29)
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PERSONNEL ERROR LER'S TO NRC JUNE 1987 TO JULY 1988

OF LER'S



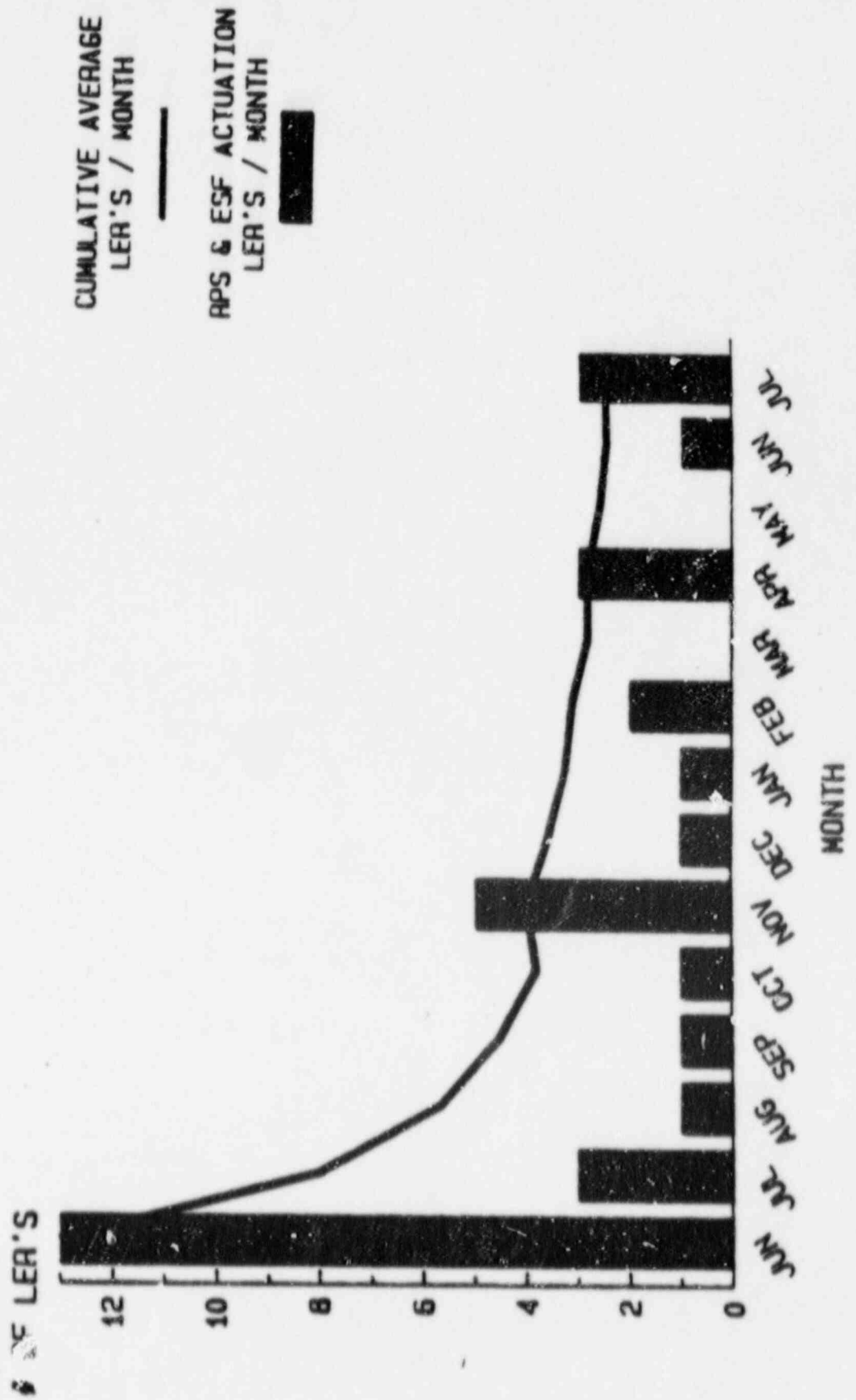
CUMULATIVE AVERAGE
LER'S / MONTH



PERSONNEL ERROR
LER'S / MONTH

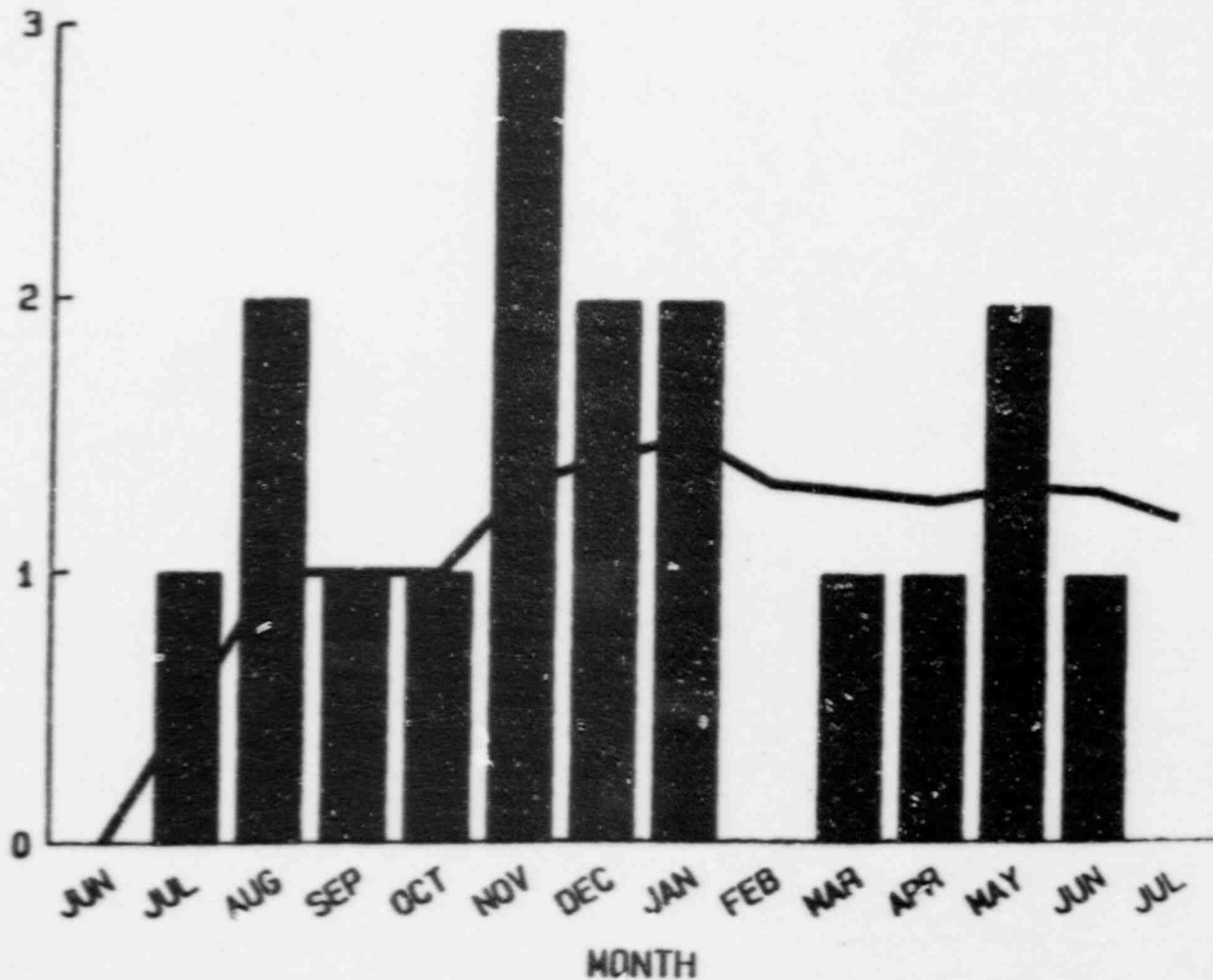


RPS & ESF ACTUATION LER'S TO NRC
 JUNE 1987 TO JULY 1988



MISSED TECH. SPEC. SURVEILLANCE LER'S TO NRC JUNE 1987 TO JULY 1988

OF LER'S



SURVEILLANCE PERFORMANCE IMPROVEMENTS

- REVIEW OF SPECIAL CONDITION TRIGGERS MAY 16, 1988
- REVISION OF DAILY REPORTING MAY 20, 1988
- DEVELOPED DEPARTMENTAL WEEKLY REPORT JULY 5, 1988
- TASK FORCE CONVENED JUNE 1, 1988
- 28-DAY SCHEDULE IMPLEMENTED AUGUST 2, 1988
- NON-USE OF GRACE PERIOD STRESSED JULY 1, 1988
- "WEEKLY HIGHLIGHTS" DEVELOPED AUGUST 7, 1988
- OSUS COORDINATION INSTITUTED AUGUST 22, 1988

PLANT VOGTLE UNIT 1
1988 HEALTH PHYSICS
AND CHEMISTRY STATUS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT
BY
CHRIS C. ECKERT
HEALTH PHYSICS/CHEMISTRY MANAGER
SEPTEMBER 1, 1988

HEALTH PHYSICS/CHEMISTRY

STATUS AND CHALLENGES:

- o CONTAMINATION CONTROL
 - o ARB
 - o TOOL CONTROL
 - o COMMON SENSE TAPE
 - o SIGNAGE
 - o HOT PARTICLE PROGRAM

- o SOURCES
 - o INVENTORY AND CONTROL
 - o TRAINING
 - o EVENT INVESTIGATION

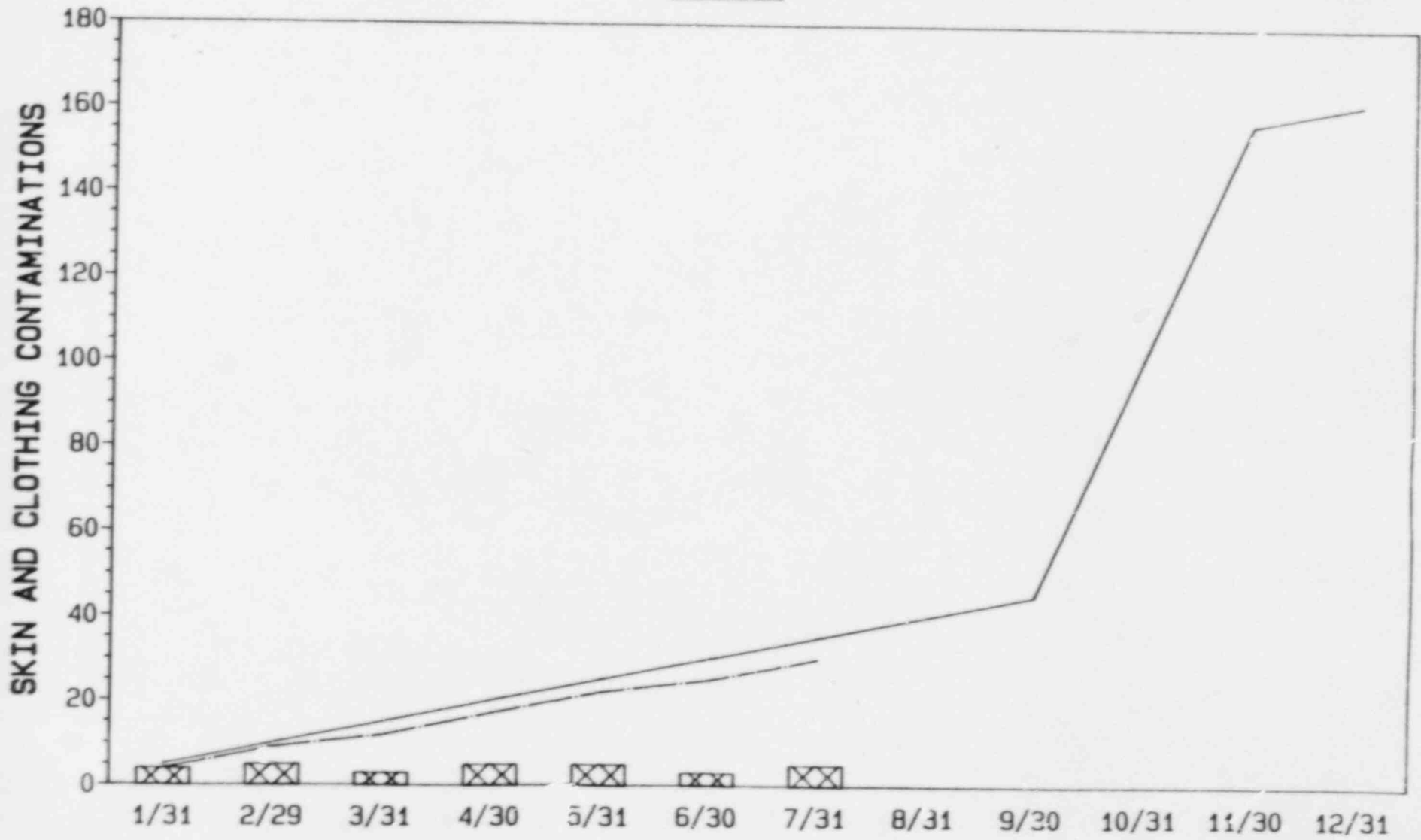
1988 VOGTLE CUMULATIVE SKIN AND CLOTHING CONTAMINATIONS

Annual Goal (Excellent): 162 CASES

162 SITE GOAL

MONTHLY ACTUAL

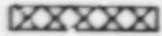
CUMULATIVE ACTUAL



1988 VOGTLE TOTAL DOSE - PROGRESS REPORT

Annual Goal (EXCELLENT): 180 REM

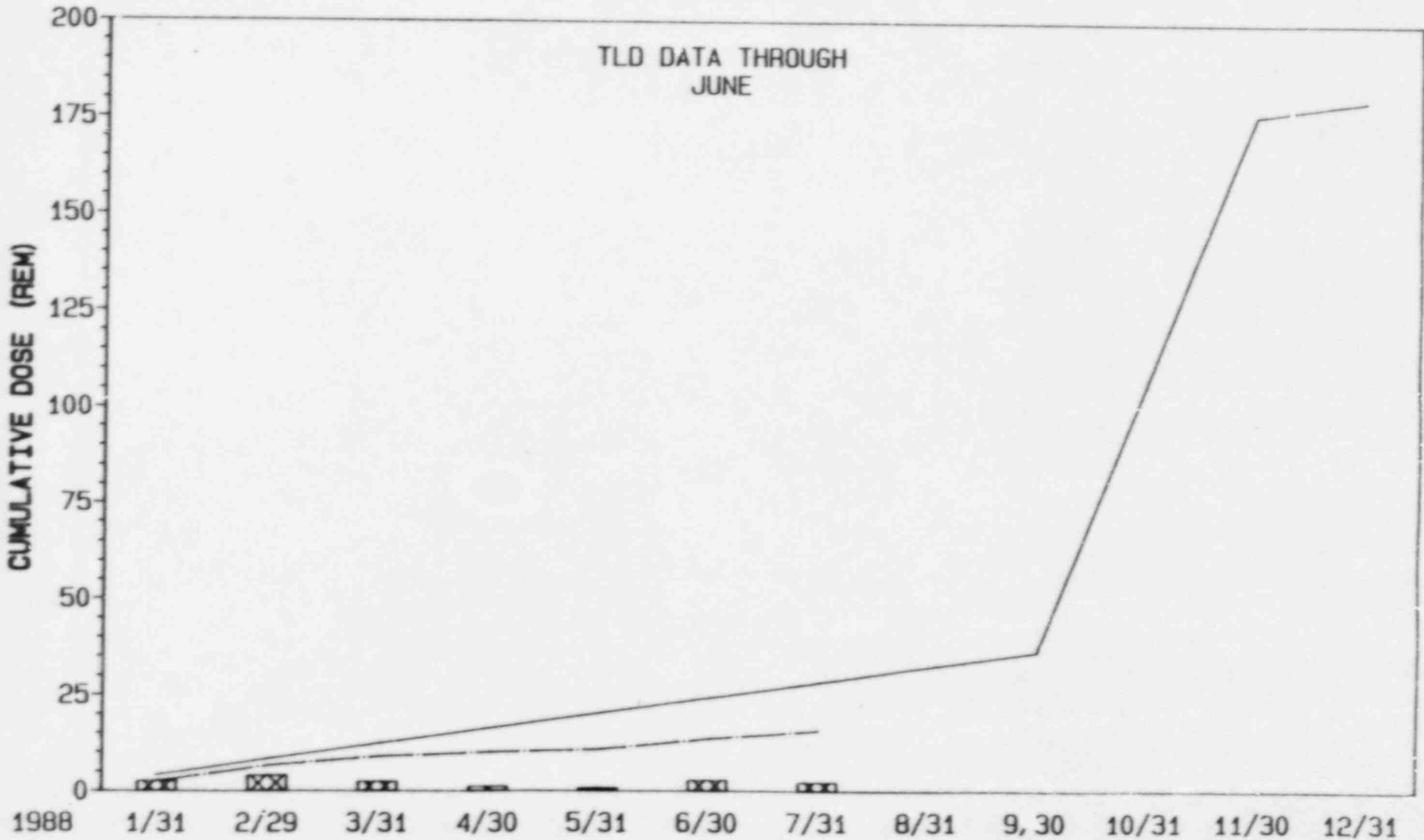
MONTHLY ACTUAL



GOAL - 180 REM



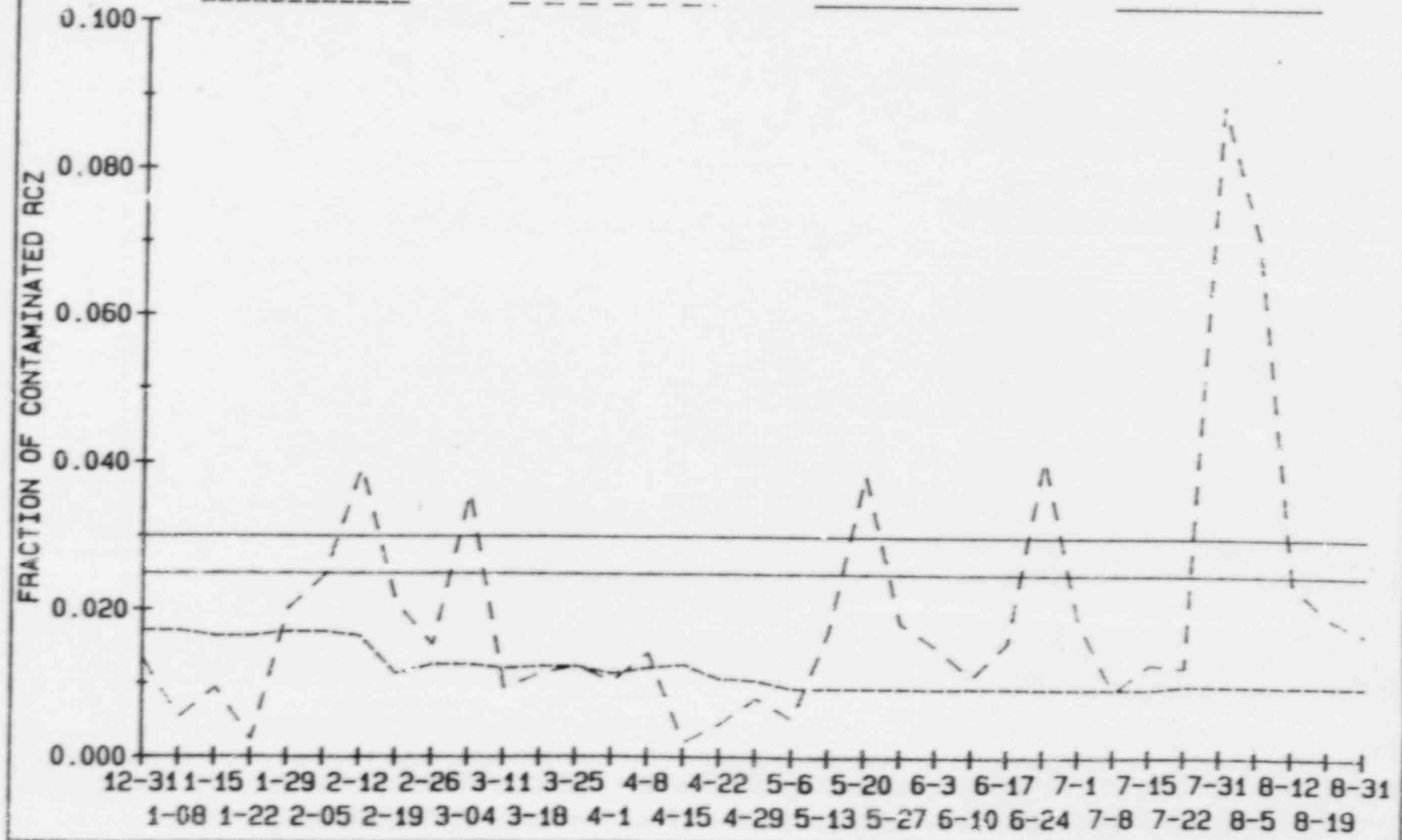
CUMULATIVE ACTUAL



1988 VOGTLE CONTAMINATED AREAS

GOAL : < 0.025 (FRACTION of RCZ CONTAMINATED)

CONTAMINATED AREA AREA DECONNED GOAL (EXCELLENT) GOAL (COMMENDABLE)

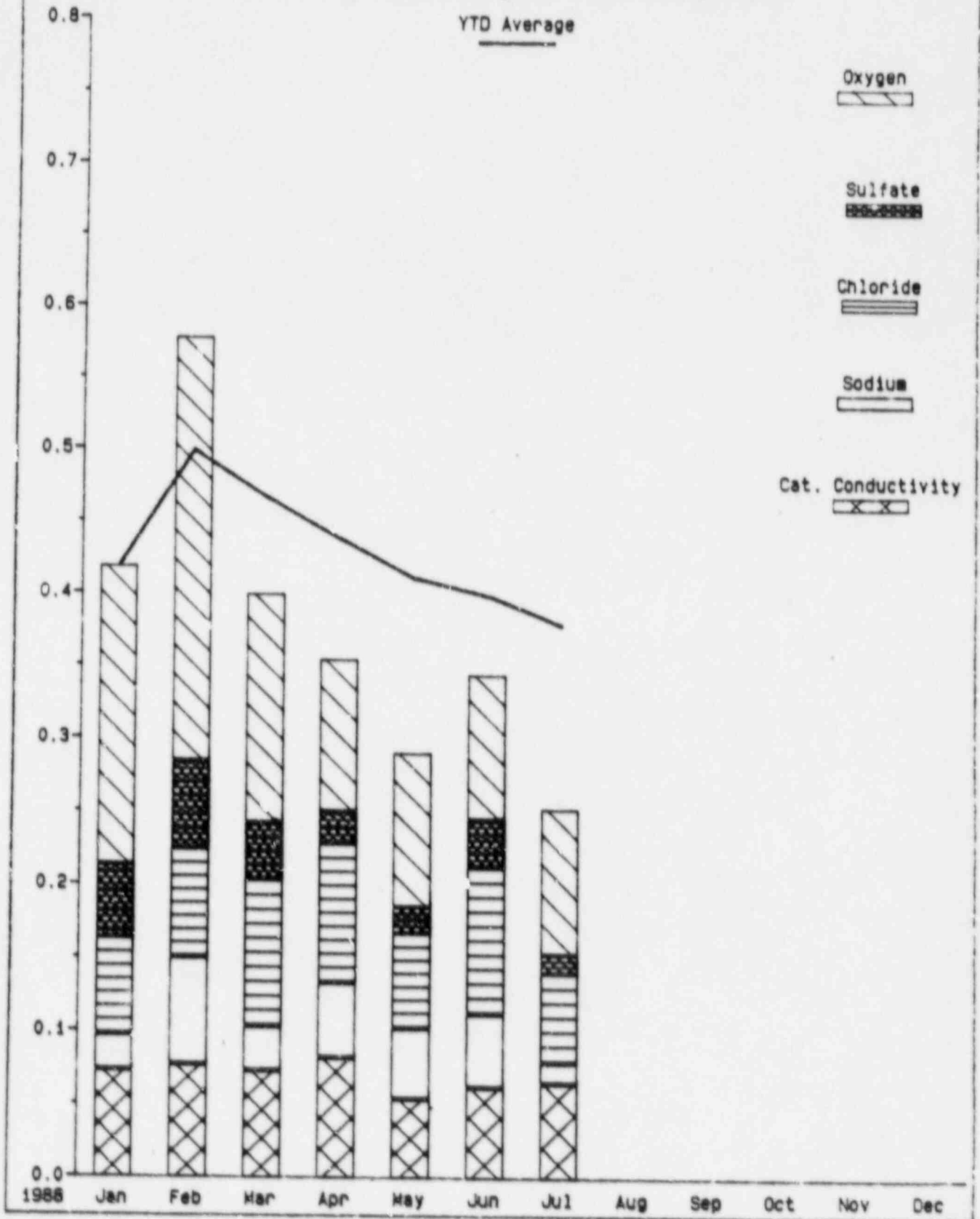


HEALTH PHYSICS/CHEMISTRY

- o STATUS AND CHALLENGES
 - o SURVEILLANCE PERFORMANCE
 - o PASS
 - o PERMS

Secondary Chemistry Performance Index

YTD Average



PLANT VOGTLE UNIT 1
PRESENTATION TO NRC/GPC MANAGEMENT
TECHNICAL SUPPORT
BY
ALLEN L. MOSBAUGH
ASSISTANT PLANT SUPPORT MANAGER

SEPTEMBER 1 & 2 1988

PERFORMANCE INDICATORS

- HEAT RATE
- TEMPORARY MODIFICATIONS
- DESIGN CHANGE REQUESTS

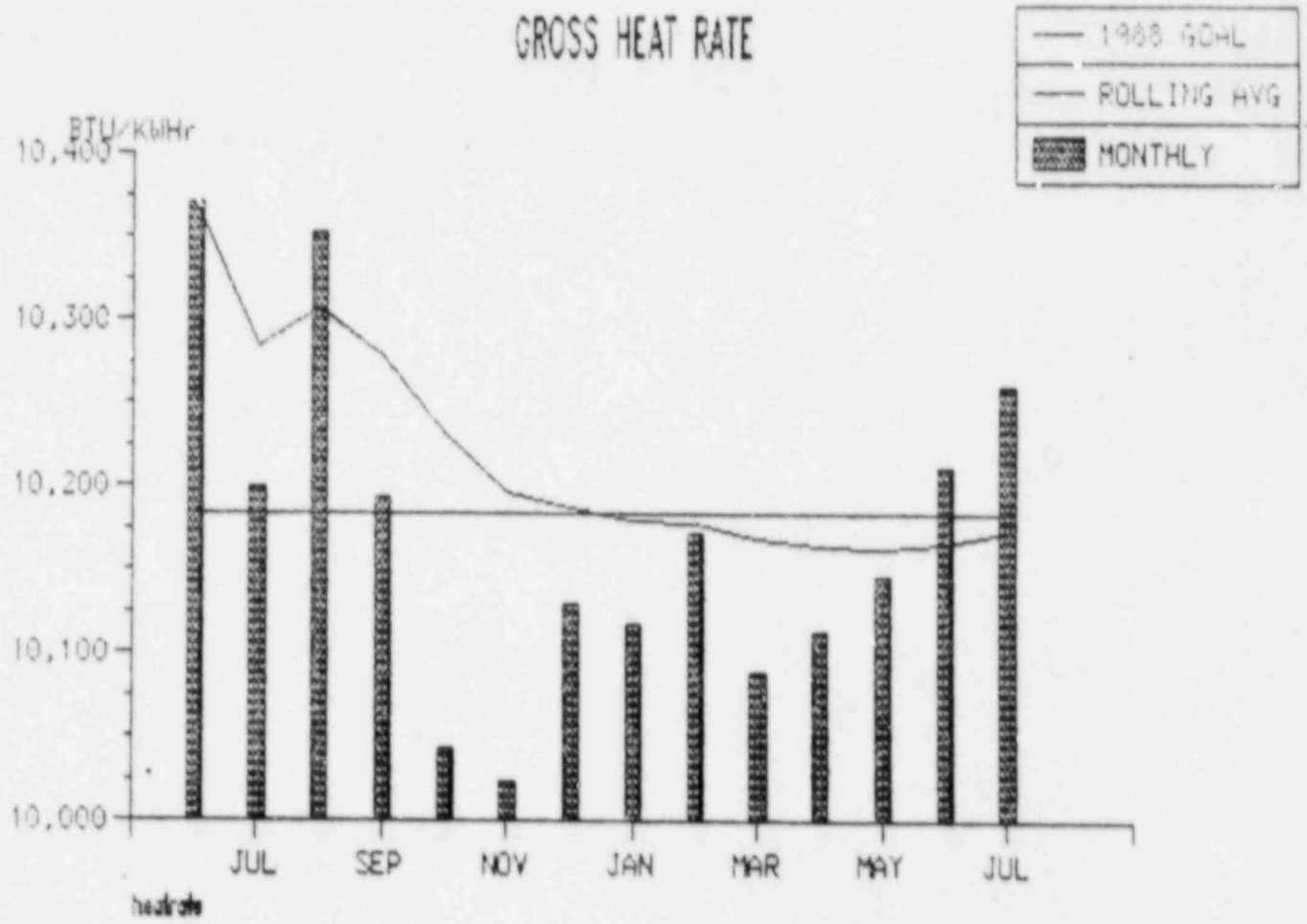
PROGRESS

- DUTY ENGINEER/SYSTEM ENGINEERS
- EVENT RESPONSE
- CRITIQUES & ROOT CAUSE
- DESIGN CHANGES/OUTAGE DESIGN

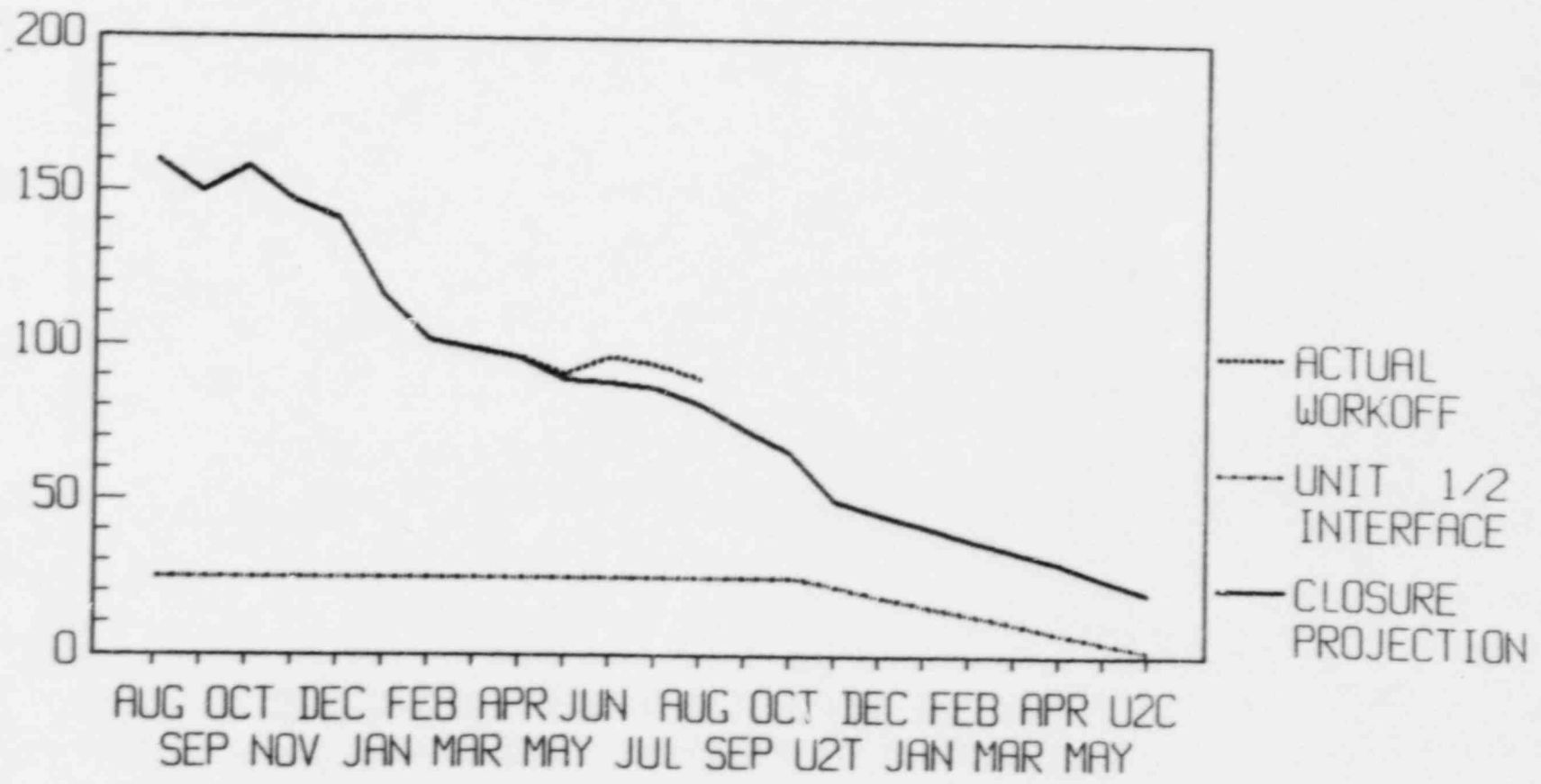
CHALLENGES

- ORGANIZATION INTEGRATION

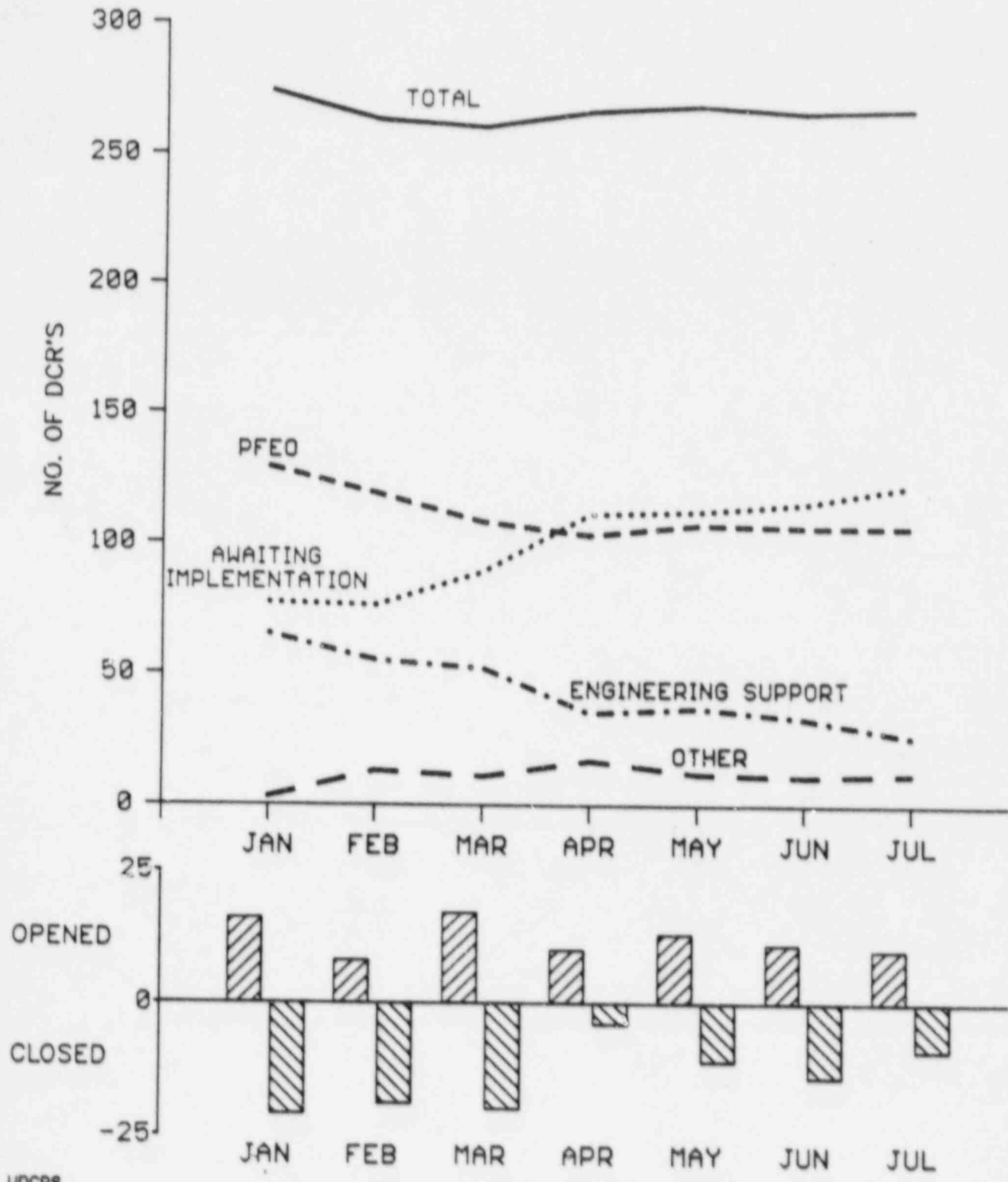
GROSS HEAT RATE



TEMP MOD CLOSURE CHART
AND PROJECTION
WITH ACTUAL WORKOFF



VOGTLE DCR STATUS



PLANT VOGTLE UNIT 1
1988 TRAINING PROGRESS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT

BY

PAUL D. RUSHTON

TRAINING AND EMERGENCY PREPAREDNESS
MANAGER

SEPTEMBER 1, 1988

AGENDA

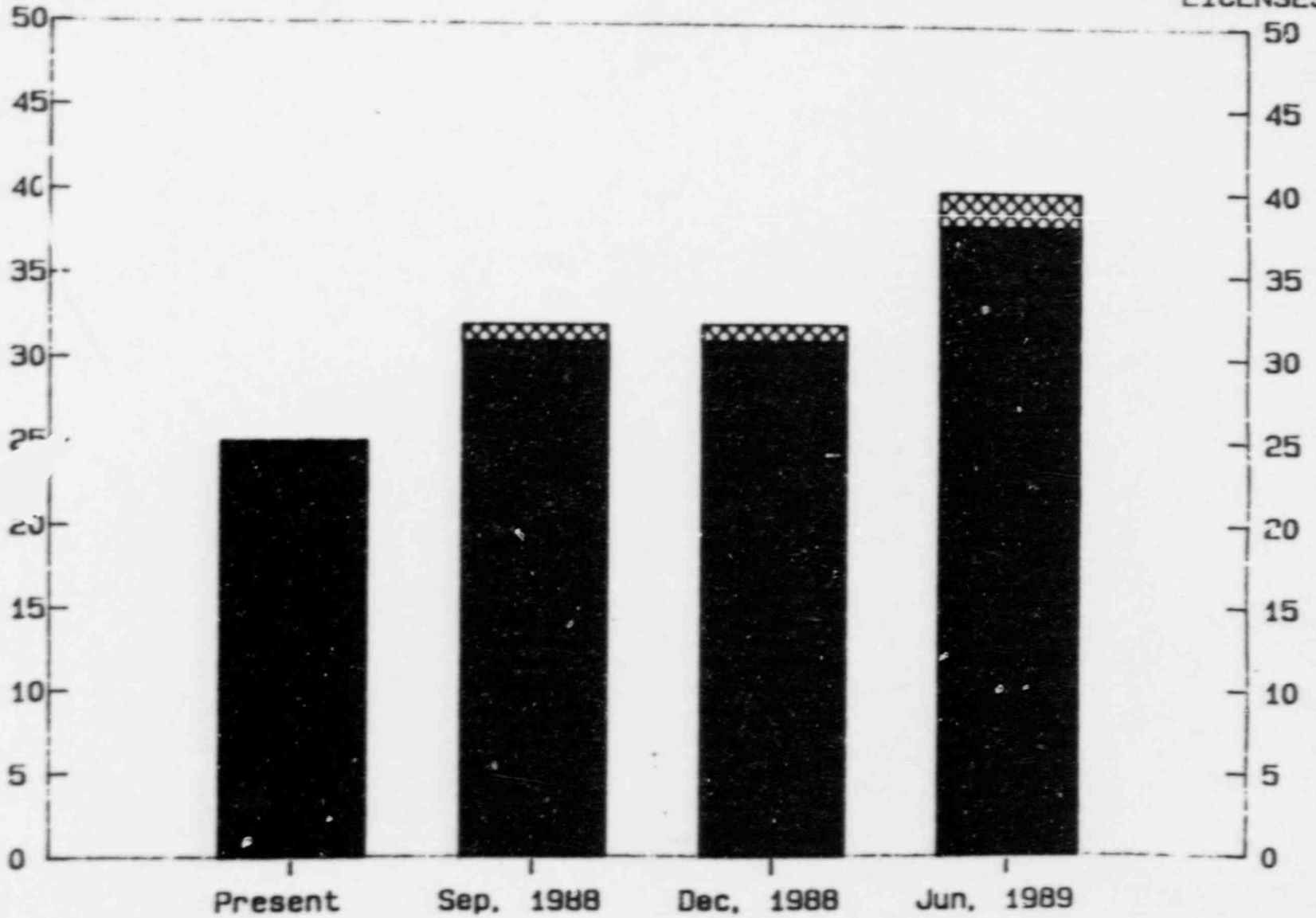
- LICENSED OPERATOR STATUS
- ACCREDITATION STATUS

PDR-008

RO STAFFING

NUMBER
LICENSES

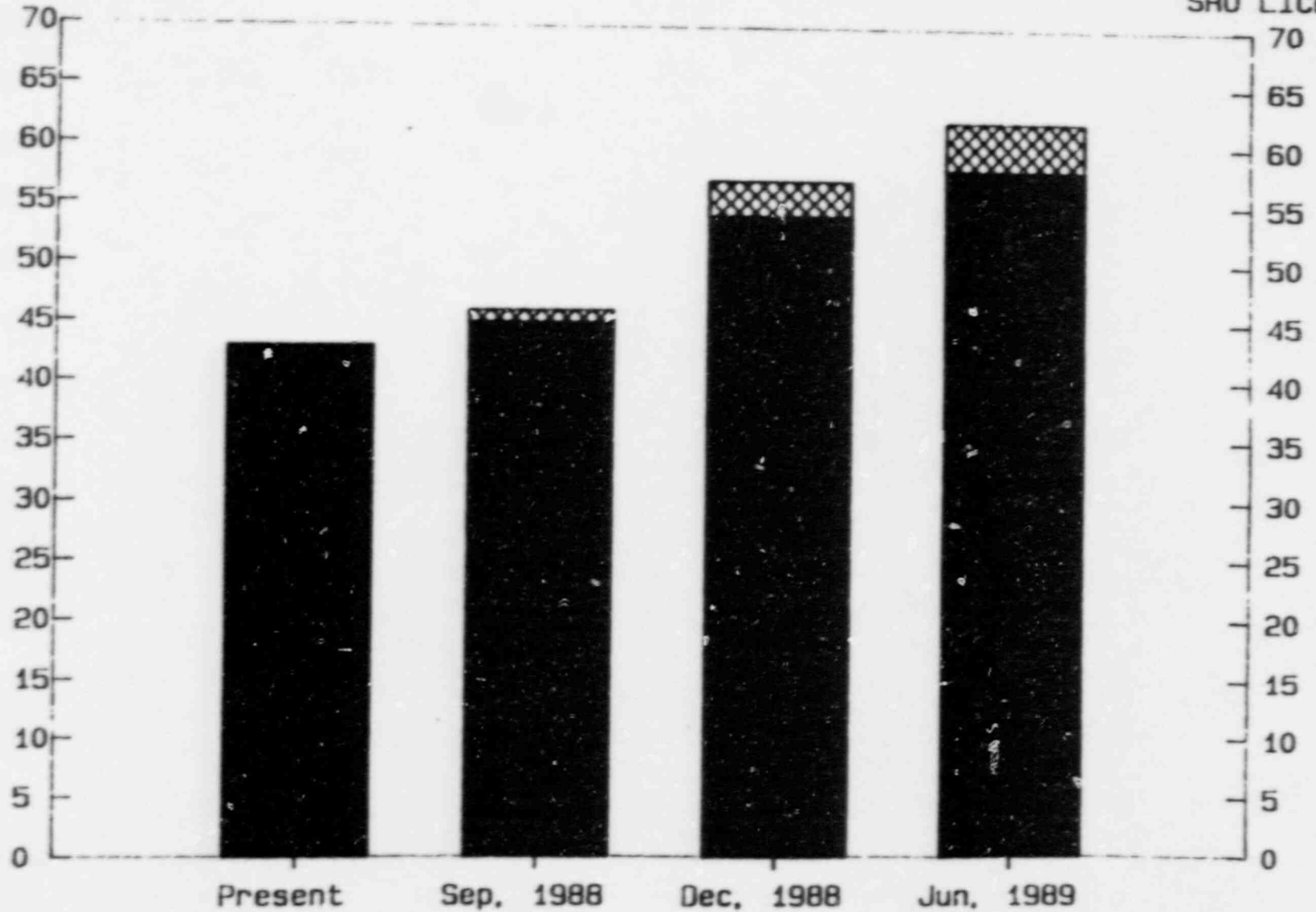
NUMBER
LICENSES



SRO STAFFING

NUMBER OPS
SRO LICENSES

NUMBER OPS
SRO LICENSES



LICENSED OPERATOR TRAINING PROGRAMS

PRE-LICENSE
(3 SRO/7 RO)



9/88
NRC EXAM

HOT LICENSE 1
(11 SRO)

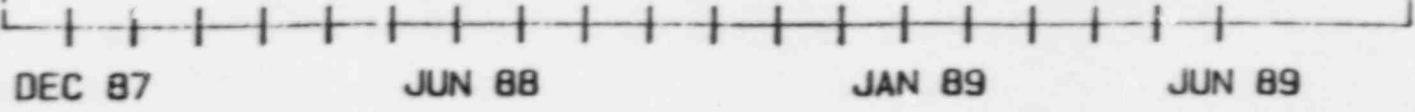


12/88
NRC EXAM

HOT LICENSE 2
(5 SRO/8 RO)



6/89
NRC EXAM



STATUS OF LICENSE

CURRENT STATUS

	OPS	TRNG	OTHER	TOTAL
RO	24	-	1	25
SRO	30	7	6	43
TOTAL	54	7	7	68

JUNE 1989 STATUS

	OPS	TRNG	OTHER	TOTAL
RO	39	-	1	40
SRO	42	14	6	62
TOTAL	81	14	7	102

* APPROXIMATELY 120 ENROLLED IN THE REQUAL PROGRAM

UNIT 2 LICENSING ACTIVITIES

- **CLASSROOM DIFFERENCES TRAINING**
- **40 HOURS ON SHIFT IN UNIT 2**
- **LOCATION WALKDOWN CHECKLISTS**
- **WRITTEN EXAM COVERING DIFFERENCES**
- **PLANT WALKTHROUGH EXAMINATION**
- **NRC HAS OBSERVED VARIOUS PORTIONS OF THE PROGRAM**
- **NRC MAY WAIVE UNIT 2 LICENSING EXAMS OR PORTIONS OF THE EXAM**

ACCREDITATION STATUS

- JAN '87 SUBMITTED ASER's FOR HP AND CHEMISTRY
- JUL '87 SUBMITTED ASER's FOR ALL OPERATIONS PROGRAMS (4)
- NOV '87 INPO TEAM VISIT FOR 6 SUBMITTED PROGRAMS
- JAN '88 SUBMITTED ASER's FOR MAINTENANCE PROGRAMS (3) AND TECH STAFF PROGRAM
- MAY '88 INPO TEAM VISIT FOR REMAINING 4 PROGRAMS
- JUN '88 OBTAINED ACCREDITATION FOR FIRST 6 PROGRAMS (OPS, HP, CHEMISTRY)
- OCT '88 PROBABLE BOARD MEETING FOR REMAINING 4 PROGRAMS

PLANT VOGTLE UNIT 1
1988 MAINTENANCE STATUS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT

BY

MELVIN A. GRIFFIS
MAINTENANCE MANAGER

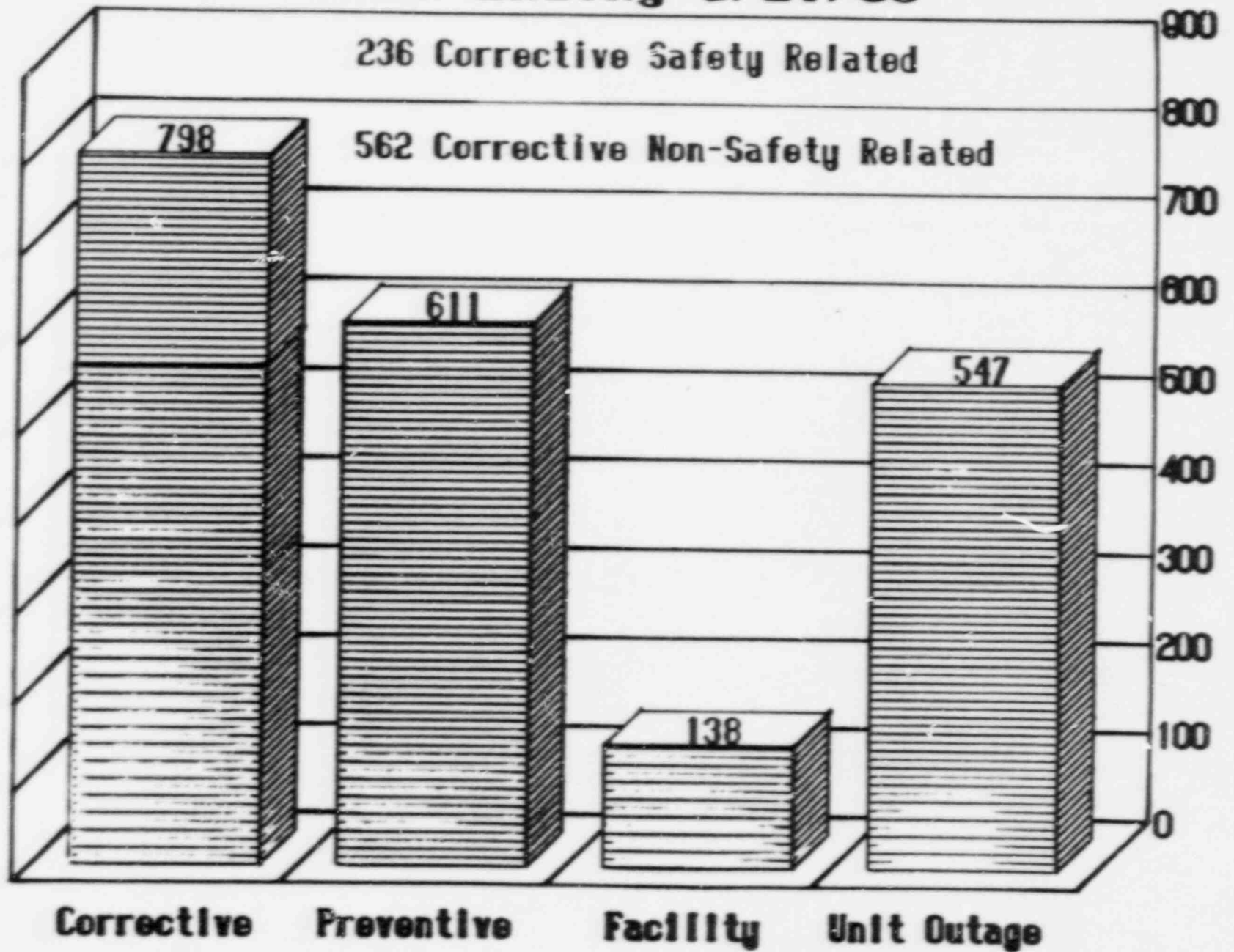
SEPTEMBER 1, 1988

AGENDA

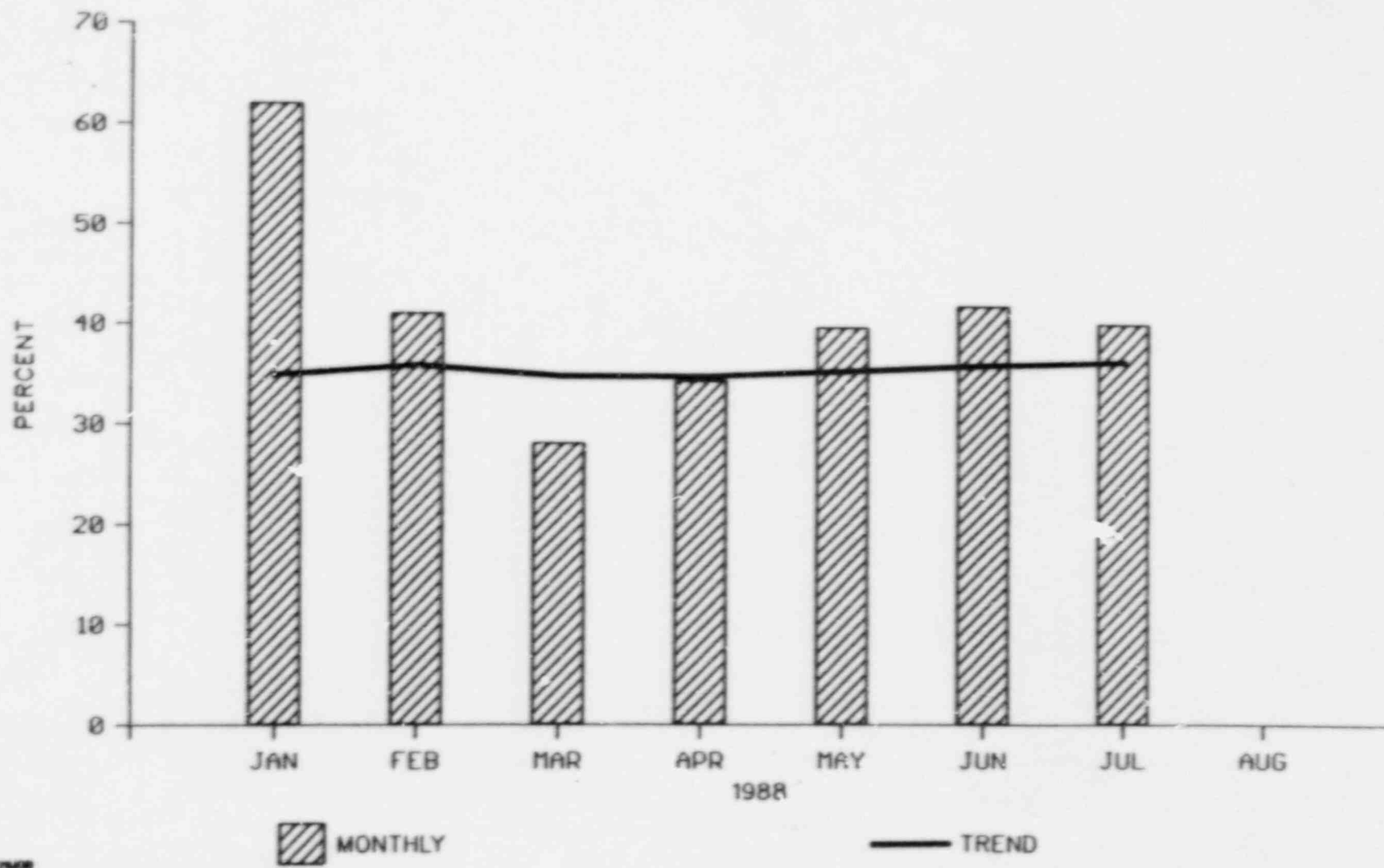
1. PERFORMANCE INDICATORS

2. PROBLEMS AND PROGRAMS

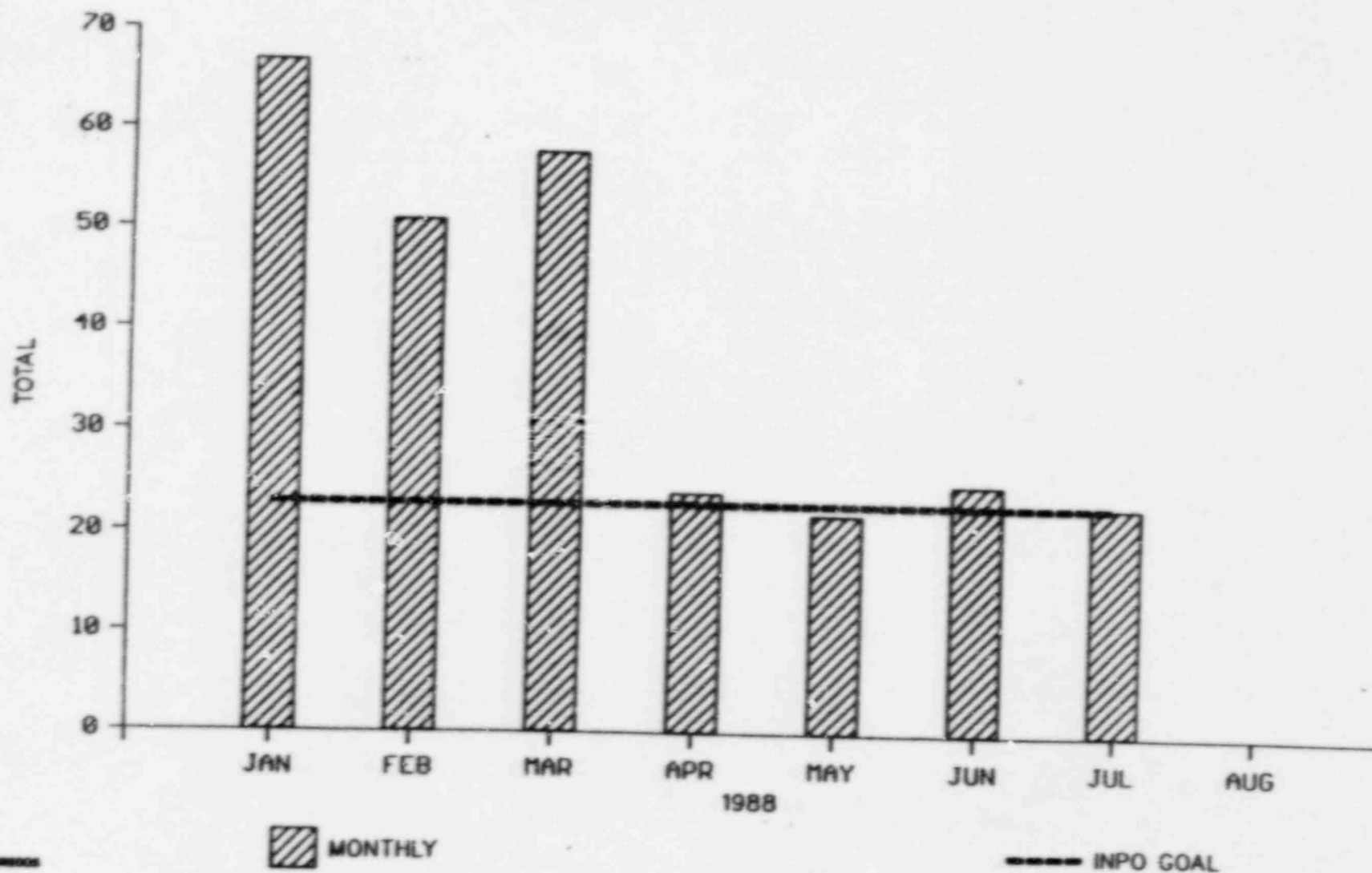
Total M.W.O. Backlog Not Field Work Complete Week Ending 8/21/88



CORRECTIVE MWO BACKLOG > 3 MONTHS OLD



CONTROL ROOM INSTRUMENTS OUT-OF-SERVICE



PROBLEMS

PROGRESS

MSIV'S RV'S
 KEANES
 AIR PUMPS

- DEVELOPED TEST STAND
- DCP FOR UPGRADED SOLENOIDS
- DCP FOR HVAC

SGFP'S CONTROLS

- REPLACED XMTR WITH DAMPENING FUNCTION
- INSTALLED LEAD LAG CARD
- PLANNED GAIN ADJUSTMENT DURING OUTAGE

FW HEATER
LEAKS

- DCP TO REPLACE:
 - SIGHTGLASS
 - SMALLBORE
 - MECHANICAL JOINTS

I.T 461

- REWORKED CONDENSER POT
- MODIFIED INSULATION
- DCP FOR OUTAGE

PM WORK LOAD

- PEO/CHEMISTRY ROUNDS COVERS MANY VISUALS
- SCHEDULE IMPROVEMENTS WITH SURV. & CM'S
- DEFERRED OIL CHANGES BASED ON PREDICTIVE TECHNIQUES

PLANT VOGTLE UNIT 1
1988 REFUELING OUTAGE PLANS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT
BY
J. BARNIE BEASLEY
OUTAGES AND PLANNING MANAGER
SEPTEMBER 1, 1988

AGENDA

1. DETAILED SCHEDULE
2. INTERFACE PLANES
3. PROBLEMS AND PLANS

MOBILE UNIT 1 FIRST REFUELING OUTAGE
SUMMARY CRITICAL PATH
PRELIMINARY 8/10/82

DC/MS	NOV 82
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	11
11	12
12	13
13	14
14	15
15	16
16	17
17	18
18	19
19	20
20	21
21	22
22	23
23	24
24	25
25	26
26	27
27	28
28	29
29	30
30	31
31	32

107 OPEN MAIN GEN CIRCUIT BREAKERS

812010 PERFORM SCP SEAL INSPECTIONS

764174 REMOVE S/G HEADWAYS

810000 PLANT COOLDOWN

811000 BEGIN POWER REDUCTION AND DEGAS

811201 DOWN TO MIDLOOP & CARRY CLEAN RCS

820000 EX HEAD & UPPER INTERMEDIARY DEGRASS

800000 REPUELING OPERATIONS

861201 S/G DOWN DRYL/INITIALLY REINSTALLATION

800000 REACTOR INTERMEDIARY & HEAD REASSEMBLY

890000 PLANT HEATUP

901201 RESTORE RCS TO BAPT RETURN TO CRIT

981301 PERF TURB/GEN TESTING PRIOR TO SYNC

991000 LOW POWER TESTING

TURBINE/GENE
BAPT
CRIT PATH

S/G
EX HEAD
INTERMEDIARY
REACTOR

TRANSFORMER
OIL
CLASS
BAPT
CRIT PATH

INSURANCE
INSTALLATION

764085 PERFORM TR A INTEGRATED ESFAS TEST

862403 PERFORM D/G INSTRUMENT PRG

941800 REPLACE OIL IN TR & RESV AUX XFRMS

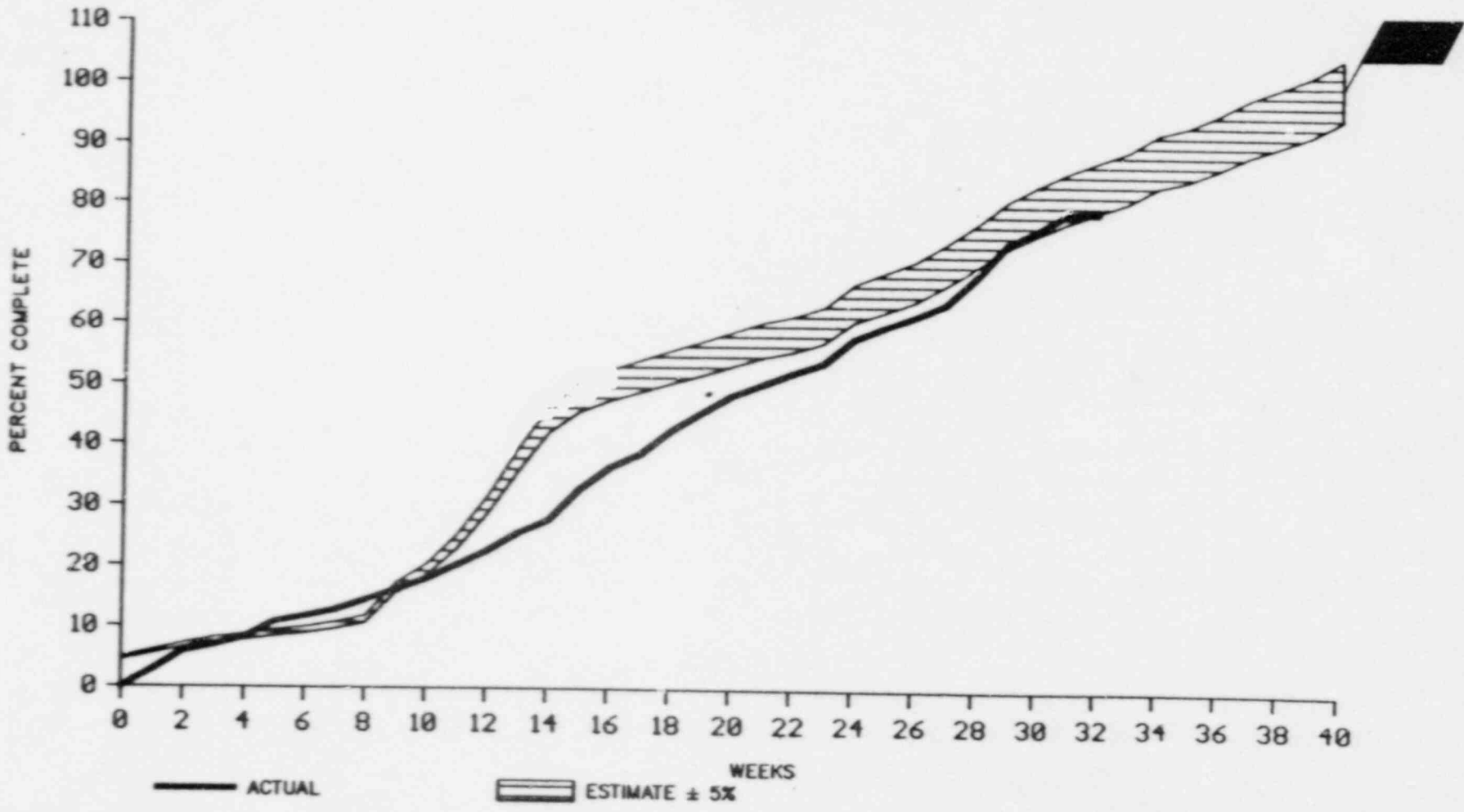
728714 PERFORM BATTERY SURVEILLANCE

870157 INSTALL ANSAC DESIGN CHANGE

OUTAGE ACTIVITIES SUMMARY

- 44 DAY REFUELING OUTAGE
- FUEL OFFLOAD; SHUFFLE AND RELOAD
- RCP SEAL INSPECTION ON #2 AND #3 RCP
- STEAM GENERATOR 1 & 4 EDDY CURRENT TESTS
 - #545 TUBES #1
 - #730 TUBES #4
- STEAM GENERATOR SLUDGE LANCE (EACH GENERATOR)
- INCORE THERMOCOUPLE REPAIR
- THIMBLE TUBE EDDY CURRENT TEST (88-09)
- DIESEL GENERATOR 18 MONTH SURVEILLANCE AND ESFAS TEST
- RAT A AND MAIN STEP UP TRANSFORMERS OIL CHANGEOUT
- TURBINE GENERATOR INSPECTION
- 27 PLANT MODIFICATIONS
- 600 CORRECTIVE MAINTENANCE WORK ACTIVITIES
- 350 PM WORK ACTIVITIES
- 450 SURVEILLANCE ACTIVITIES

PRE-OUTAGE SCHEDULE
SCHEDULE VS ACTUAL
PERCENT COMPLETE
VOGTLE 1R1 1988



208041

1988 UNIT 1 REFUELING OUTAGE NO. 1

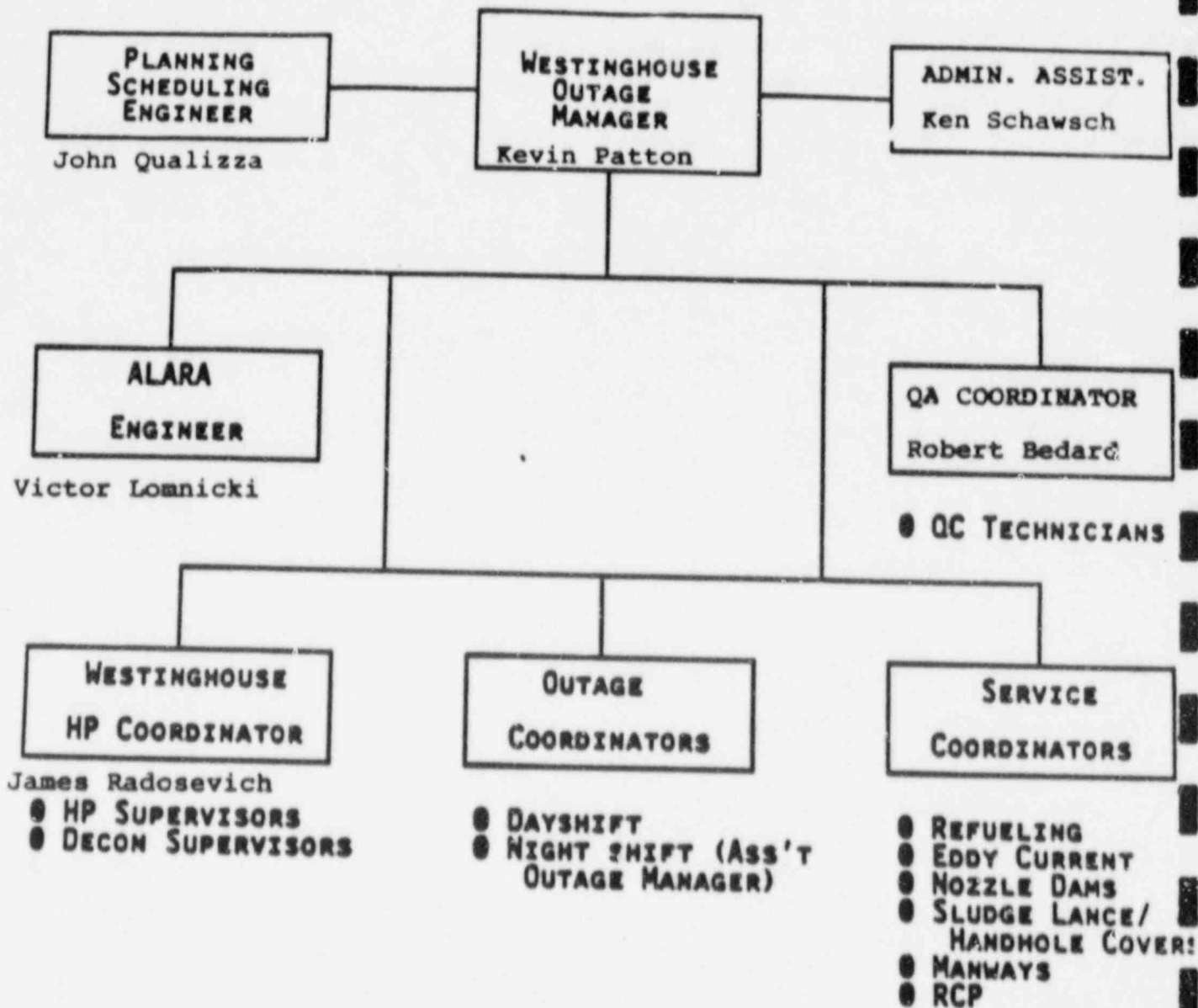
OUTAGE READINESS SUMMARY

<u>ITEM</u>	<u>ANTICIPATED</u>	<u>IDENTIFIED</u>	<u>ISSUED</u>	<u>PKGD</u>	<u>SCHED</u>
PM MWO'S	370	353	360	300	314
SURVEILLANCE TESTS	400	449	449	449	449
CM MWO'S	800	532	570	505	414
DCP'S READY FOR WORK	25	27	26	24	27
CLEARANCE DRAFTS WRITTEN	300	131	50	N/A	131
CONTRACT P.O.'S IN PLACE	22	25	22	N/A	N/A

WESTINGHOUSE INTEGRATED OUTAGE MANAGEMENT TEAM
ORGANIZATION CHART

GEORGIA POWER COMPANY

PLANT VOGTLE UNIT 1



NOTES: THE ALARA ENGINEER WILL WORK WITH THE VOGTLE ALARA DEPARTMENT BUT WILL PRIMARILY SUPPORT THE WESTINGHOUSE ACTIVITIES.

THE HP COORDINATOR WILL REPORT TO THE OUTAGE MANAGER FOR ADMINISTRATIVE SUPERVISION BUT TO THE VOGTLE STATION LEAD HEALTH PHYSICIST FOR RADIOLOGICAL SAFETY AND SITE PROCEDURES.

SIGNIFICANT CHALLENGES

- MANAGEMENT OF THE ADDITIONAL PERSONNEL
- AGGRESSIVE OPTIMUM SCHEDULE
- ESFAS TEST SEQUENCE
- ESTABLISHING MID-LOOP OPERATIONS
- FUNCTIONAL TESTS

PLANT VOGTLE UNIT 1
1988 SECURITY STATUS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT

BY

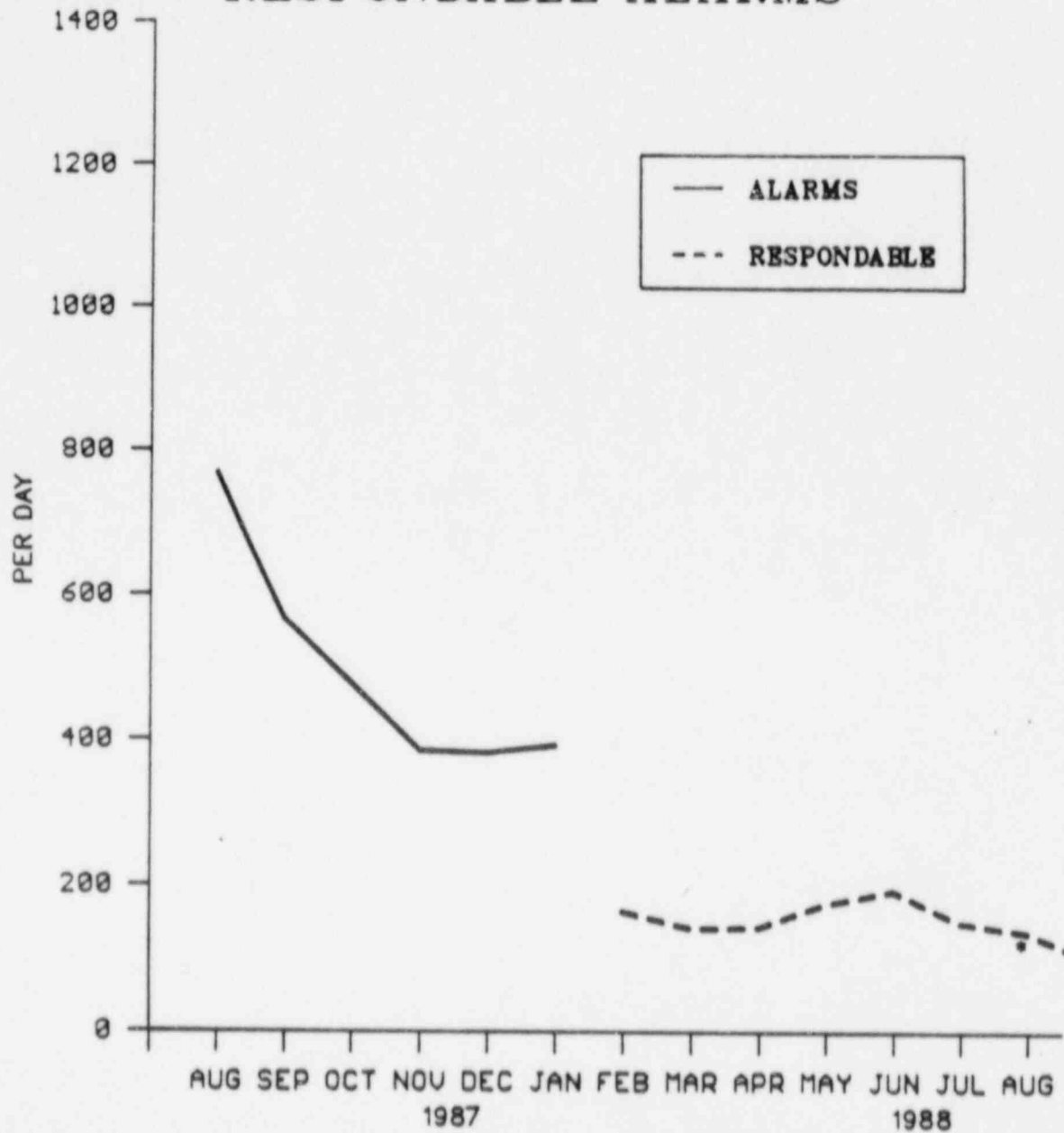
FRANK R. TIMMONS
NUCLEAR SECURITY MANAGER

SEPTEMBER 1, 1988

AGENDA

1. PERFORMANCE INDICATORS
2. READINESS FOR UNIT 2

SECURITY EVENTS RESPONDABLE ALARMS

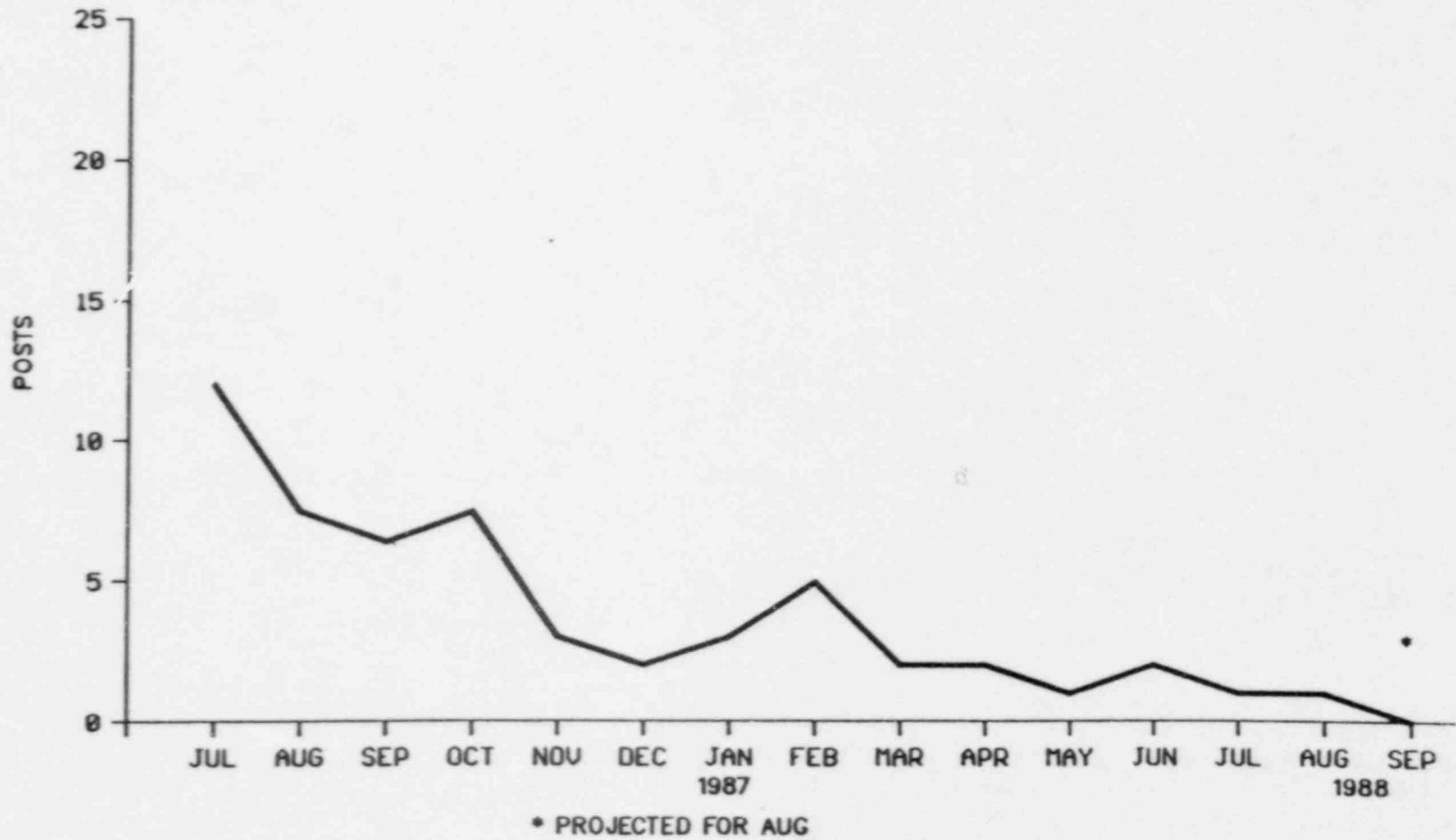


NOTE: JAN 22 THRU JAN 31 NO REPORT, SYSTEM PROBLEMS

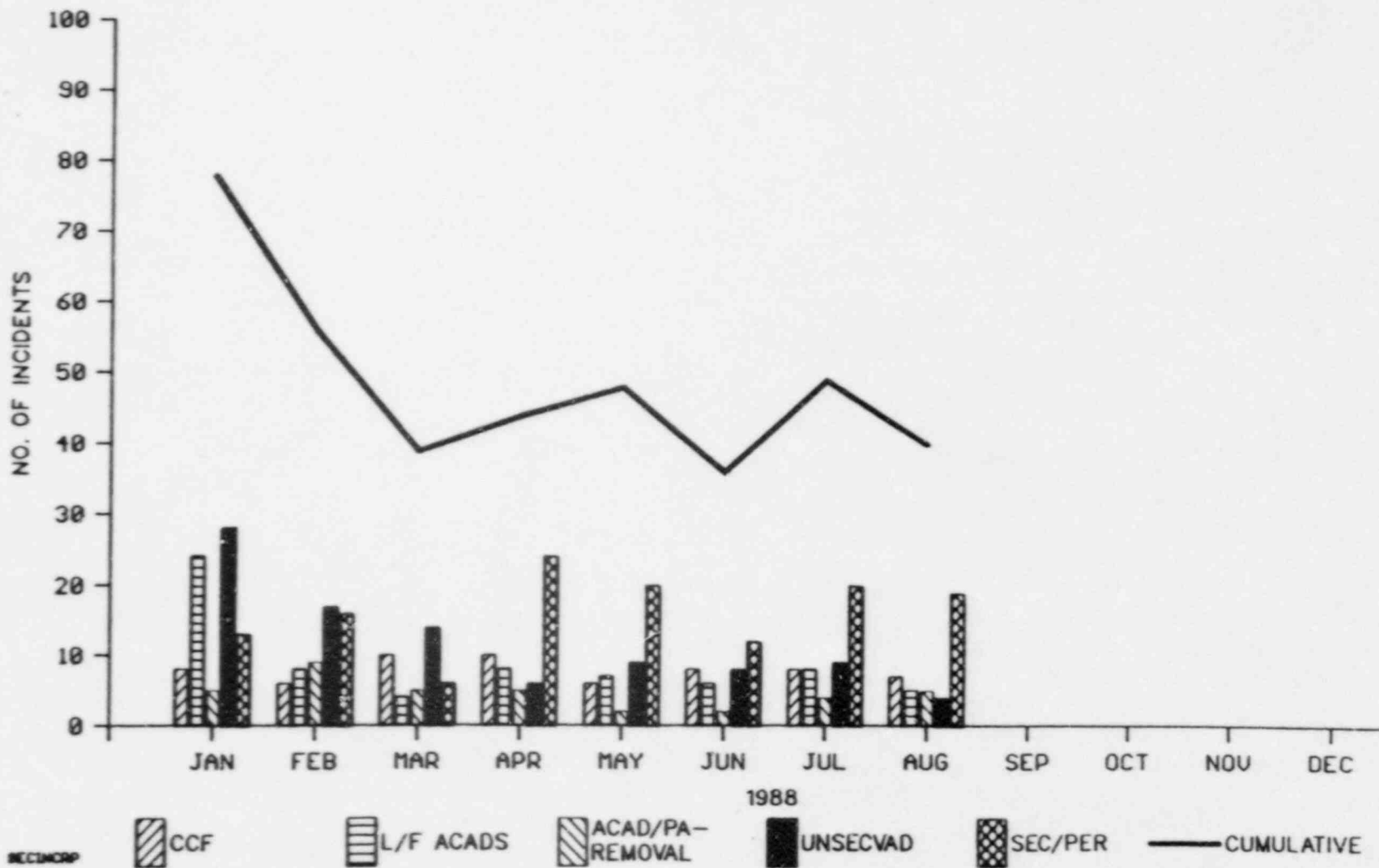
* PROJECTED FOR AUG

SECALARM

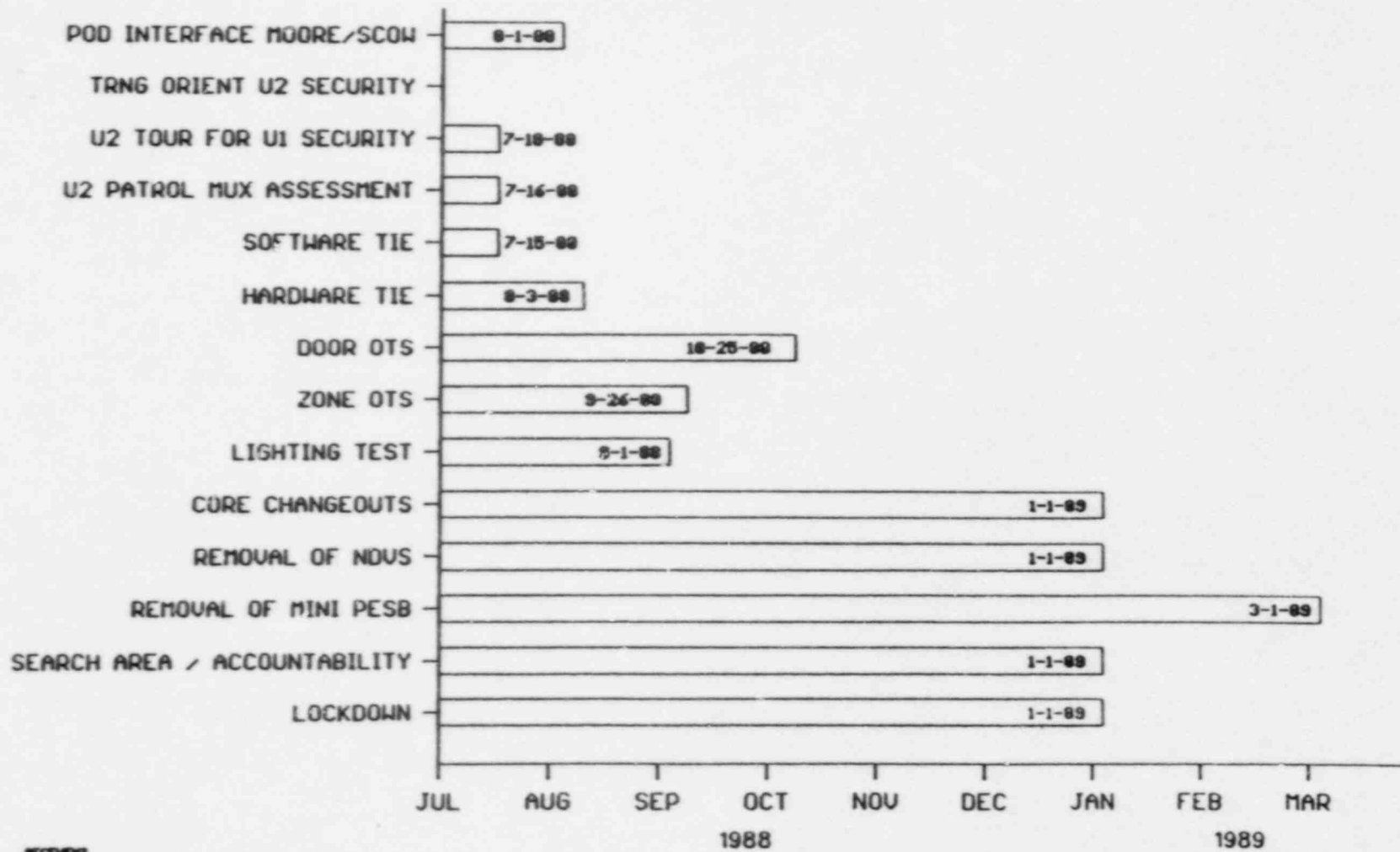
SECURITY COMPENSATORY POSTS



SECURITY INCIDENT REPORT



UNIT 2 TRANSITION PLAN (LOCKDOWN) SECURITY EVENTS



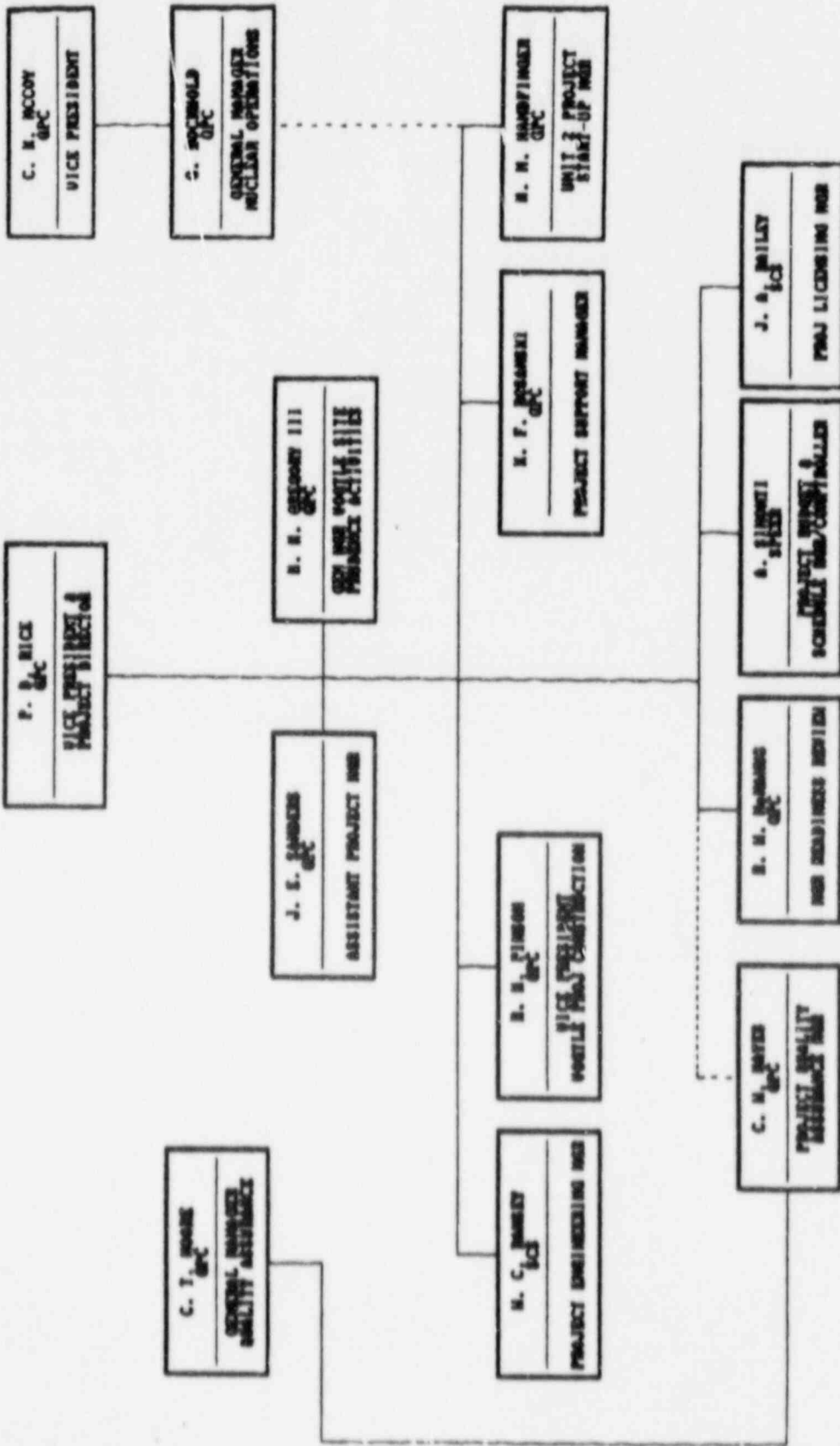
PLANT VOGTLE UNIT 2
1988 OVERALL UNIT 2 STATUS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT
BY
PAUL D. RICE
VICE PRESIDENT
AND VOGTLE PROJECT DIRECTOR

SEPTEMBER 2, 1988

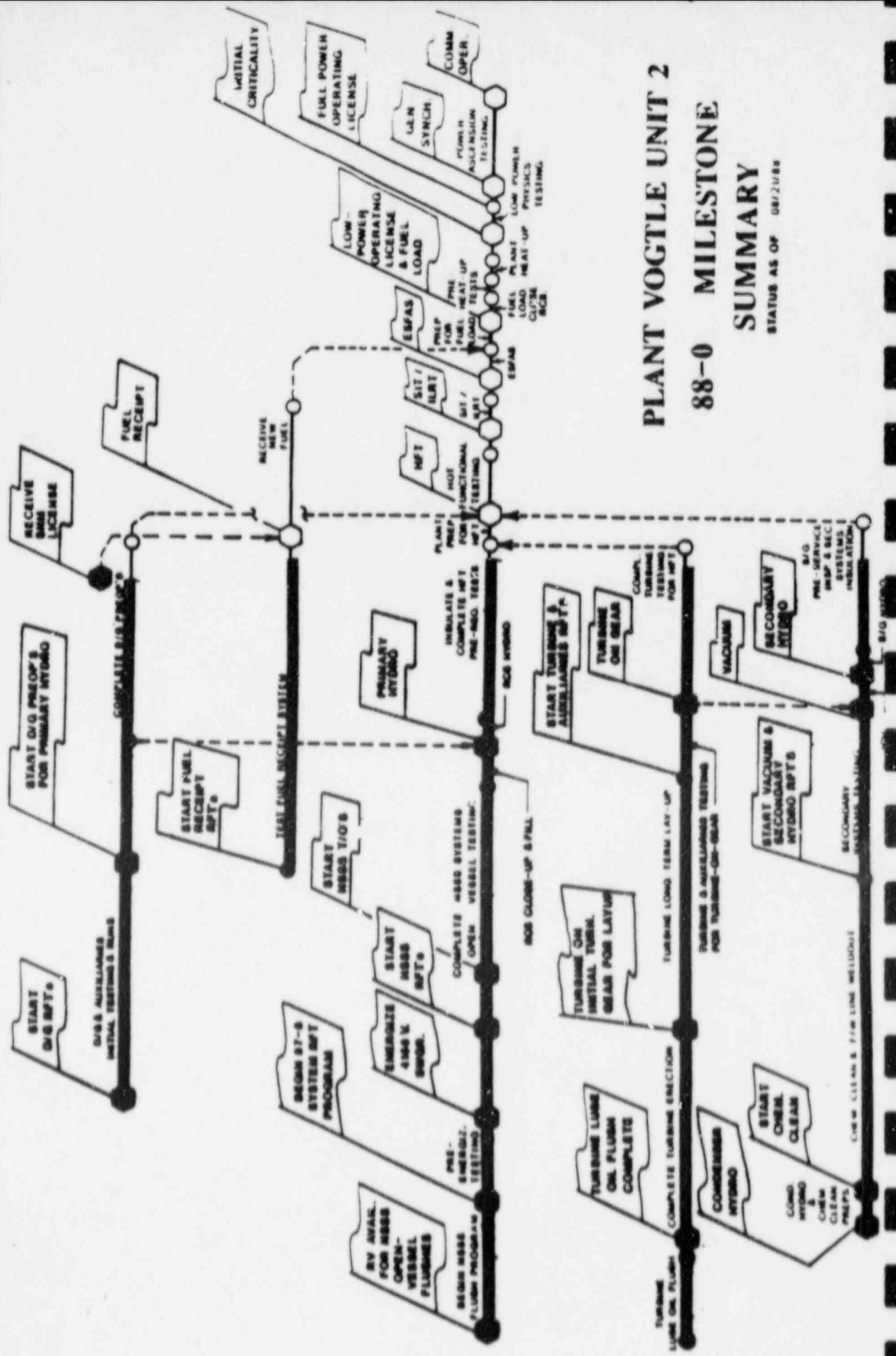
AGENDA

1. ORGANIZATION CHART
2. MILESTONE STATUS (CPM)
3. STAFFING CHART
4. OVERTIME CHART

PROJECT GENERAL ORGANIZATION
 UNIT 1 AND 2
 WESTINGHOUSE CORPORATION
 PITTSBURGH, PA



1987				1988																							
APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL



PLANT VOGTLE UNIT 2

88-0 MILESTONE

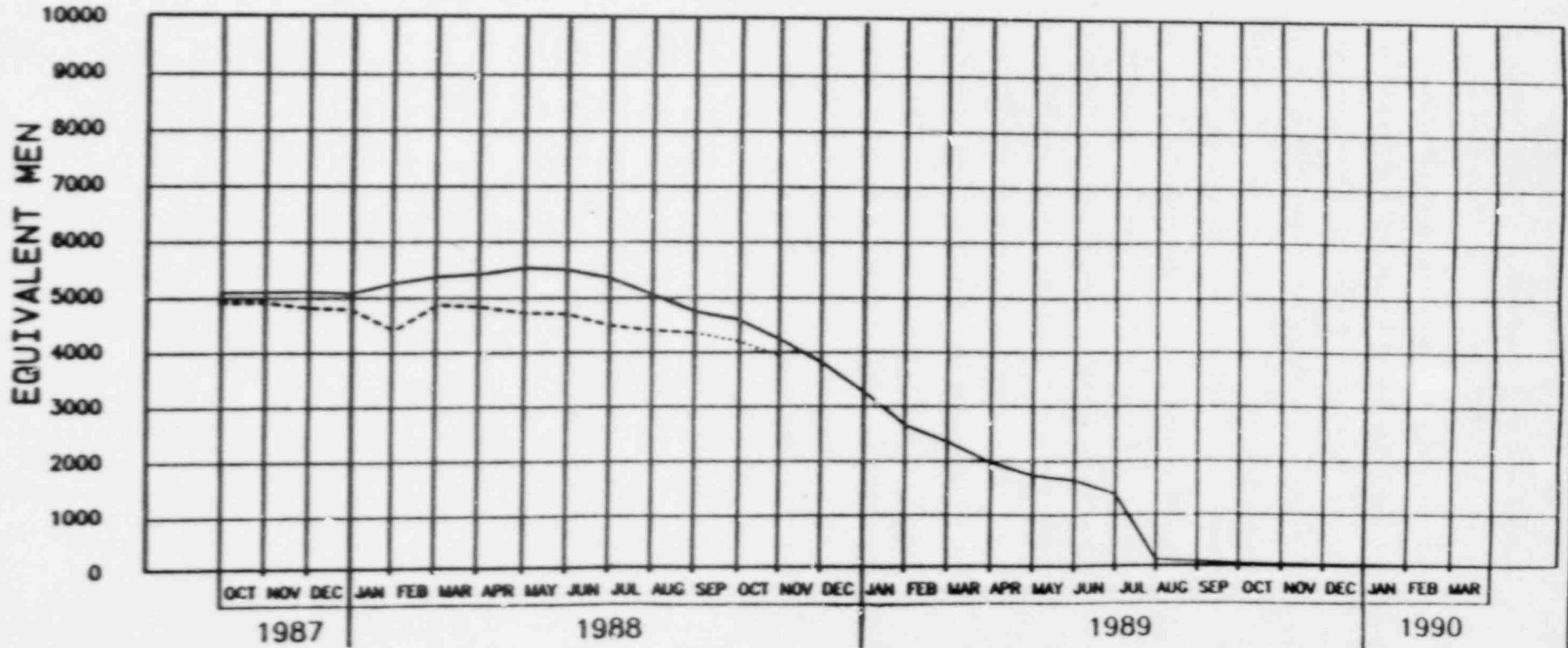
SUMMARY

STATUS AS OF 08/21/88

PLANT VOGTLE UNIT - 2
88-0 STAFFING PLAN

TOTAL PROJECT STAFFING

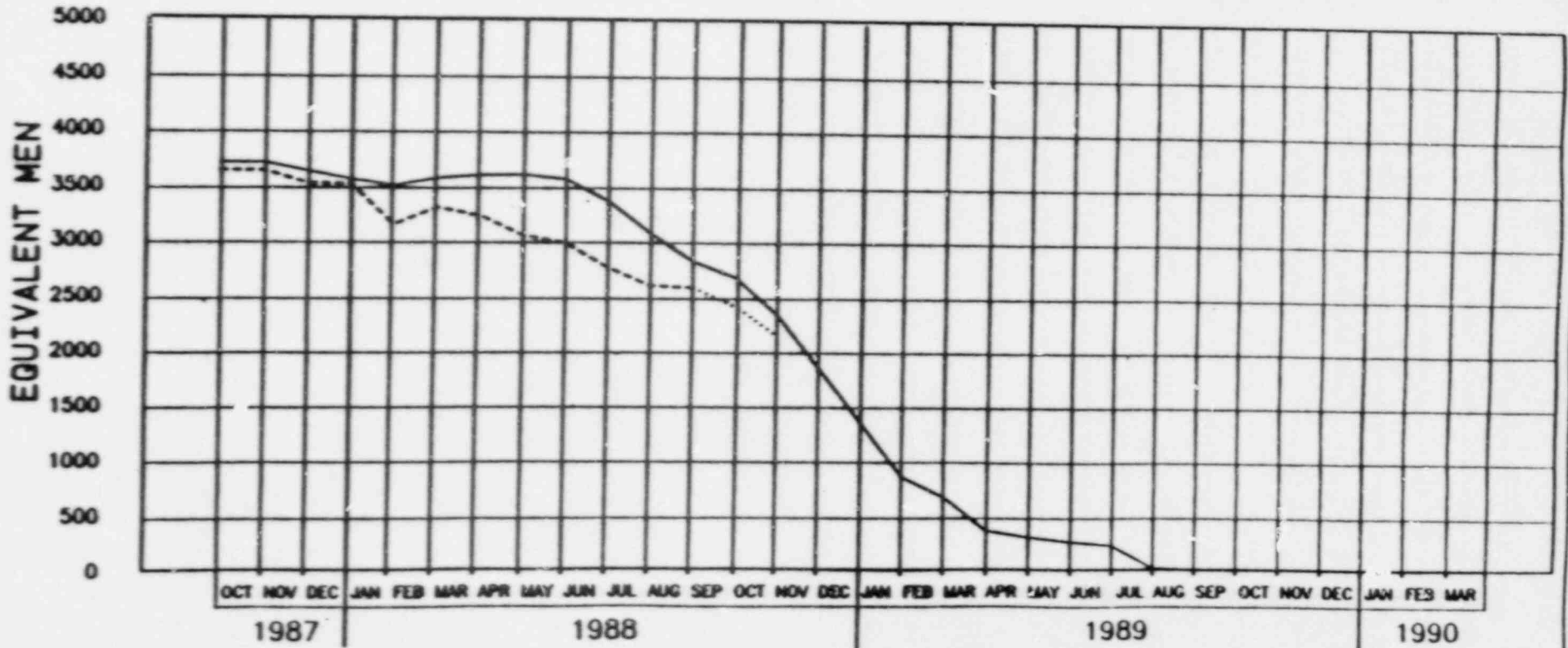
88-0 BUDGET	5826	5838	5885	5188	5318	5355	5468	5435	5284	4982	4685	4548	4179	3747	3198	2582	2291	1920	1682	1593	1334	109	82	44	30	23	23	0	0	0
ACT / A.C.F.	4841	4788	4715	4346	4883	4785	4661	4641	4435	4333	4298	4149	3871																	
VARIANCE	(985)	(1050)	(1170)	(842)	(435)	(570)	(807)	(794)	(849)	(649)	(387)	(309)	(308)																	



PLANT VOGTLE UNIT - 2 88-0 STAFFING PLAN

TOTAL CONSTRUCTION STAFFING

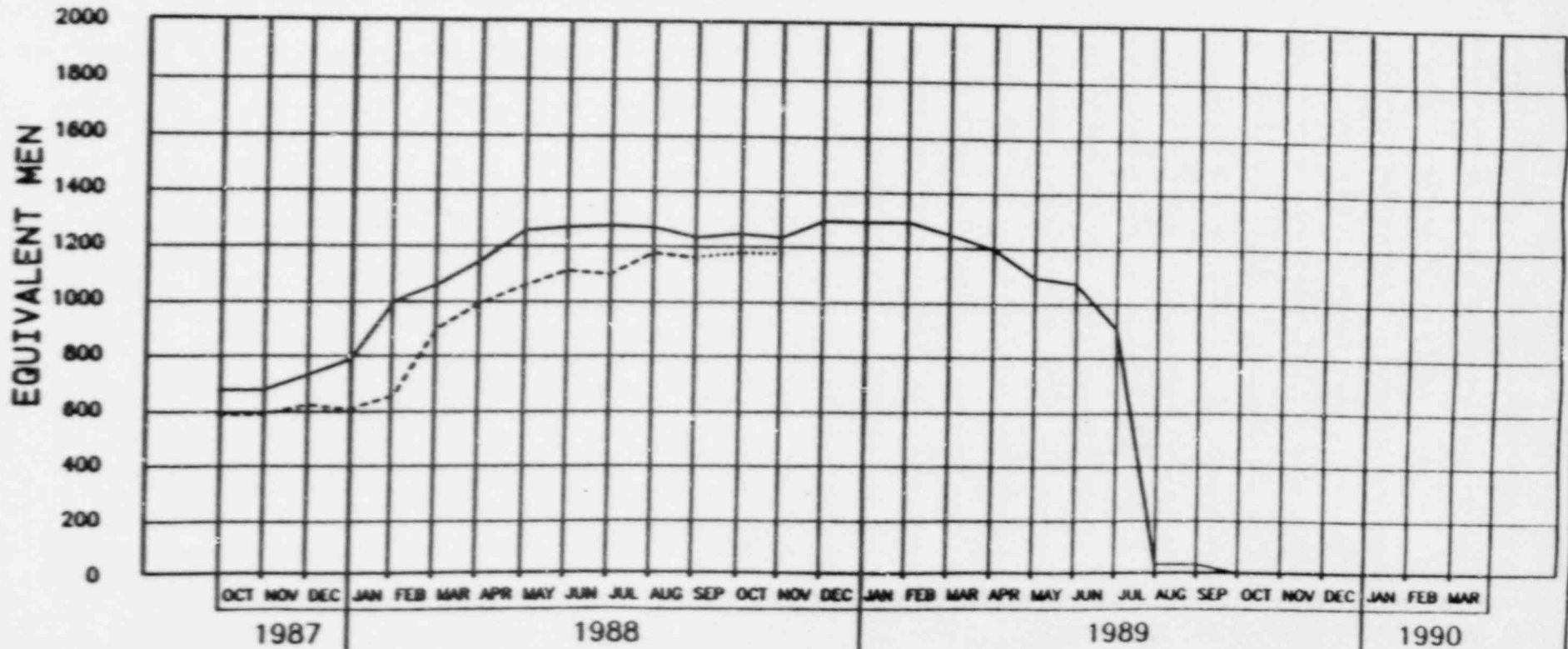
88-0 BUDGET	3686	3621	3547	3482	3382	3288	3185	3083	2945	2852	2885	2663	2314	1826	1331	836	653	360	301	257	225	16	0	0	0	0	0	0	0	0
ACT / A.C.F.	3624	3588	3582	3529	3386	3288	3133	2985	2748	2584	2585	2394	2120																	
VARINCE	(72)	(133)	(65)	(53)	(296)	(100)	(150)	(198)	(407)	(468)	(240)	(269)	(194)																	



PLANT VOGTLE UNIT - 2 88-0 STAFFING PLAN

TOTAL START-UP STAFFING

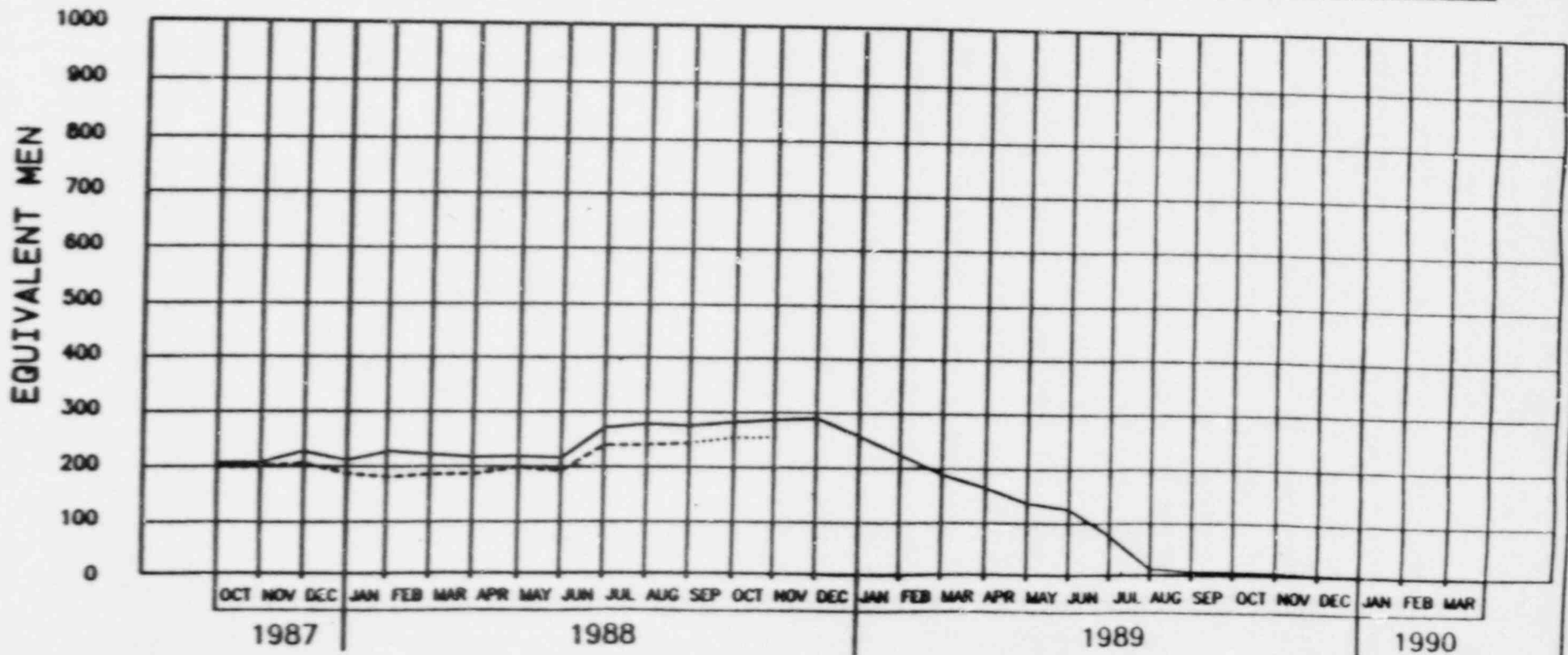
88-0 BUDGET	665	718	775	880	985	1130	1246	1258	1264	1258	1224	1237	1225	1286	1283	1284	1238	1189	1084	1062	895	31	31	0	0	0	0	0	0	0
ACT / A.C.F.	576	638	585	643	880	983	1045	1188	1086	1135	1158	1165	1165																	
VARIANCE	(99)	(180)	(190)	(347)	(105)	(120)	(201)	(170)	(178)	(104)	(74)	(72)	(60)																	



PLANT VOGTLE UNIT - 2 88-0 STAFFING PLAN

CORE ENGINEERING STAFFING

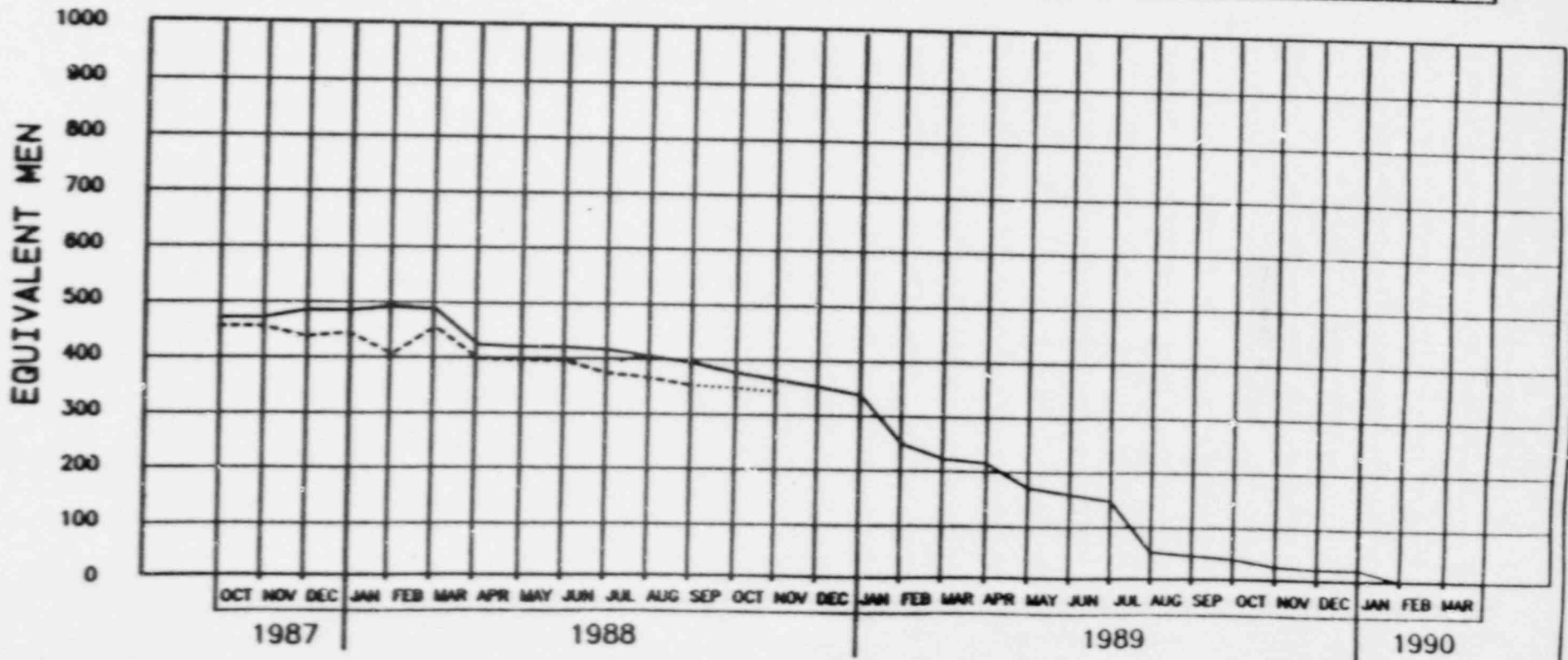
88-0 BUDGET	201	221	205	222	216	211	213	210	205	272	260	276	281	284	252	218	183	160	131	120	72	12	7	6	5	2	2	0	0	0
ACT / A.C.F.	193	200	181	175	180	181	180	185	233	234	237	247	249																	
VARIANCE	8	21	24	47	36	30	33	25	38	38	39	32	32																	



PLANT VOGTLE UNIT - 2 88-0 STAFFING PLAN

TOTAL BOP STAFFING

88-0 BUDGET	464	470	470	485	481	417	414	414	410	388	380	372	358	347	333	244	217	211	166	154	142	50	44	30	25	21	21	0	0	0
ACT / A.C.F.	448	438	437	388	446	382	388	388	388	358	347	343	337																	
VARIANCE	116	32	33	97	39	35	26	26	22	30	25	29	21																	

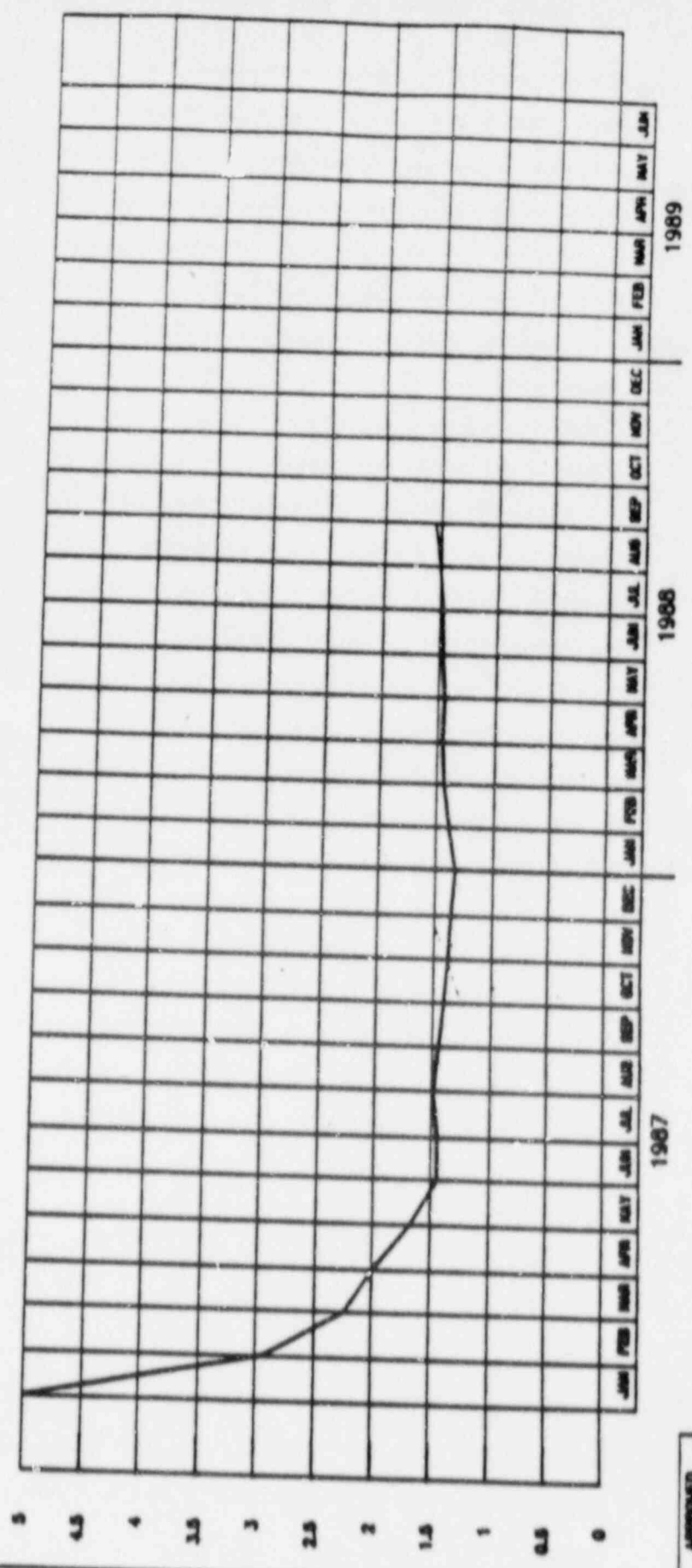


PLANT VOGTLE - UNIT 2 TOTAL PROJECT - OVERTIME RATE

CUMULATIVE RATE

	2.30	2.20	1.90	1.80	1.60	1.60	1.40	1.40	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.40	1.40	1.60	1.60	1.60	1.80	1.81	1.90	
ACTUALS																								

ACTUAL



APPROVED

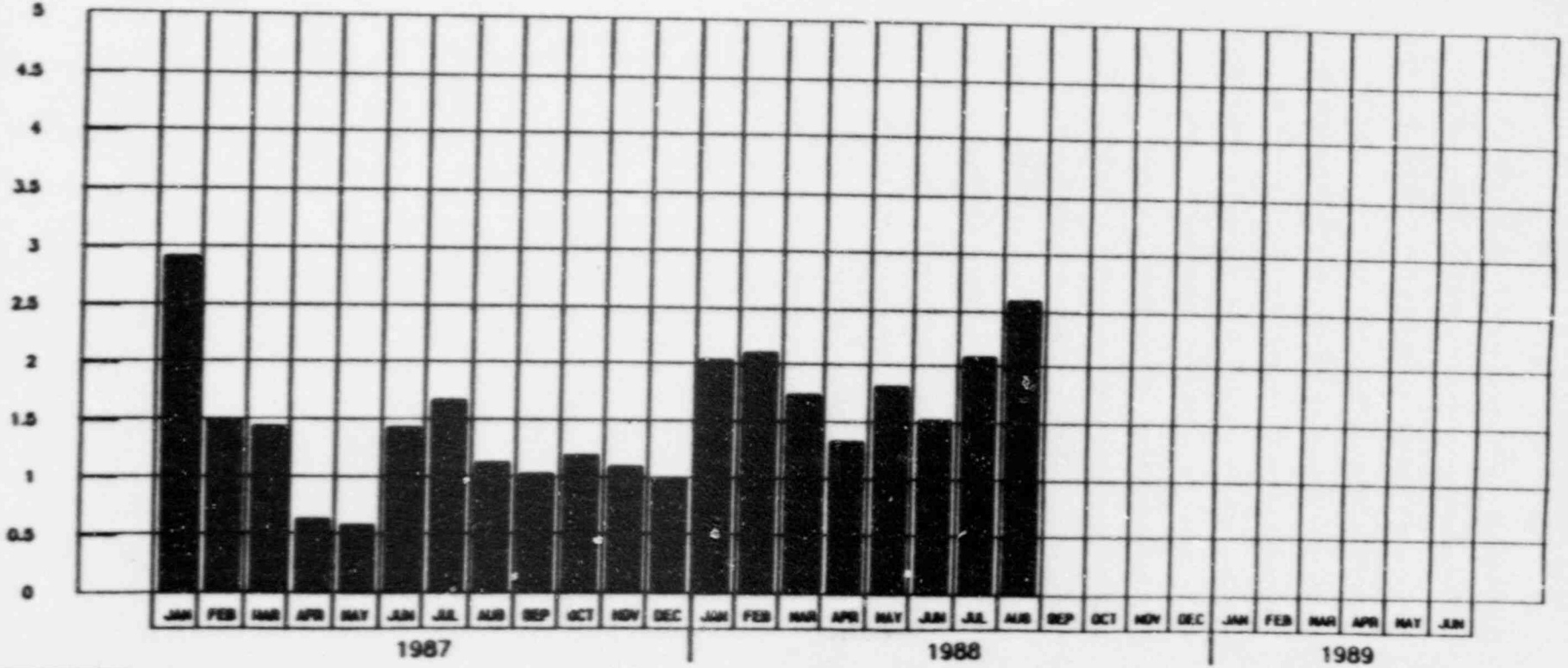
[Signature]

PLANT VOGTLE - UNIT 2 TOTAL PROJECT - OVERTIME RATE INCREMENTAL RATE

ACTUALS

2.80	1.52	1.45	0.65	0.60	1.45	1.00	1.04	1.04	1.25	1.11	1.01	2.05	2.13	1.70	1.35	1.04	1.95	2.11	2.64																						
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ACTUAL



APPROVED
AJ

PLANT VOGTLE UNIT 2
1988 CONSTRUCTION STATUS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT
BY
RON H. PINSON
VICE PRESIDENT, ENGINEERING
SEPTEMBER 2, 1988

AGENDA

1. COMMODITY SUMMARY
2. INSULATION CURVE
3. COATINGS CURVE
4. PENETRATION SEAL CURVE
5. AREA PUNCLIST CURVE

UNIT 2 COMMODITY SUMMARY AUGUST, 1988

	QUANTITY ESTIMATE	INSTALLED	REMAINING	PERCENT COMPLETE
LARGE PIPE	194,976	194,937	39	100.0%
LARGE WELDS	19,842	19,863	0	100.0
LARGE HANGERS	13,303	13,222	81	99.4
SMALL PIPE	187,189	185,294	1,895	99.0
SMALL HANGERS	20,465	20,066	399	98.1
PROCESS TUBING	36,503	35,134	1,369	96.2
TUBING HANGERS	2,827	2,849	0	100.0
PIPE INSULATION	271,925	213,087	58,838	78.4
COATINGS	2,280,857	1,585,420	695,437	69.5
PEN SEALS	10,950	7,254	3,696	66.2
RIGID CONDUIT	426,067	423,995	2,072	99.5
WIRE & CABLE	6,867,524	6,841,517	26,007	99.6
TERMINATIONS	221,720	215,913	5,807	97.4
UNSCHE. ELECTRICAL	403,980	397,136	6,844	98.3

PIPE INSULATION UNIT 2 CUMULATIVE STATUS

EQUIVALENT UNITS

300,000

250,000

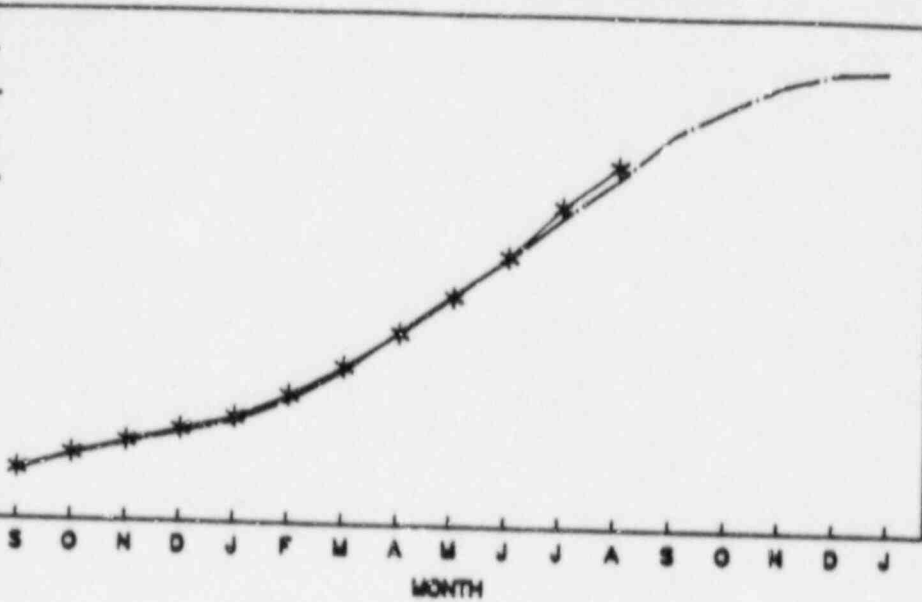
200,000

150,000

100,000

50,000

0



88-0 ESTIMATE
271925

ADJUSTED 88-0
271925

88-0 SCHED. TO-DATE
208043

ACTUAL TO-DATE
213087

REMAINING TO-GO
58838

PERCENT COMPLETE
78.4

PIPE INSULATION UNIT 2 INCREMENTAL STATUS

EQUIVALENT UNITS

35,000

30,000

25,000

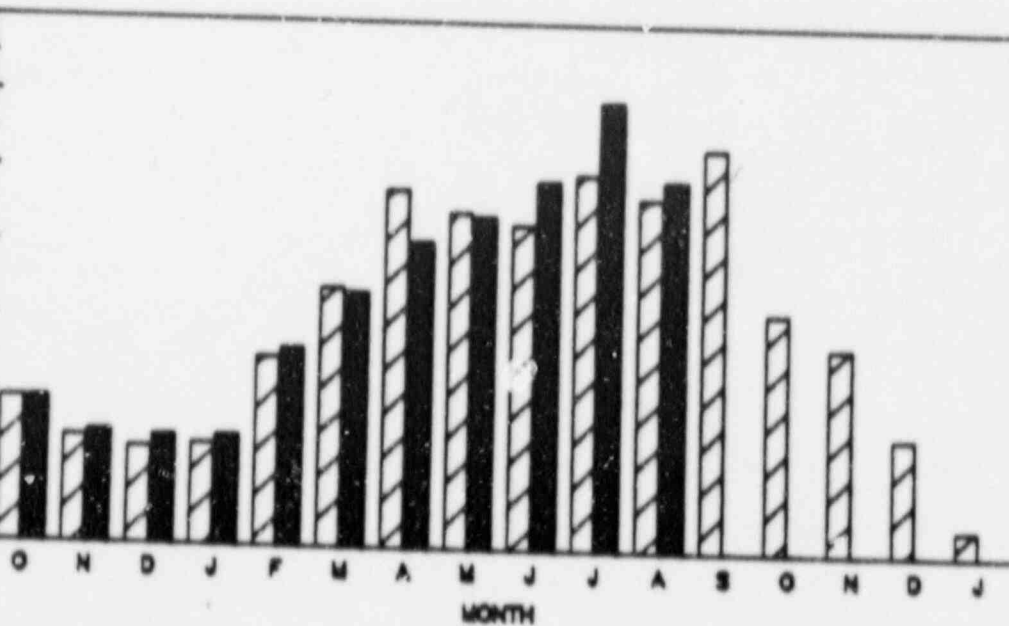
20,000

15,000

10,000

5,000

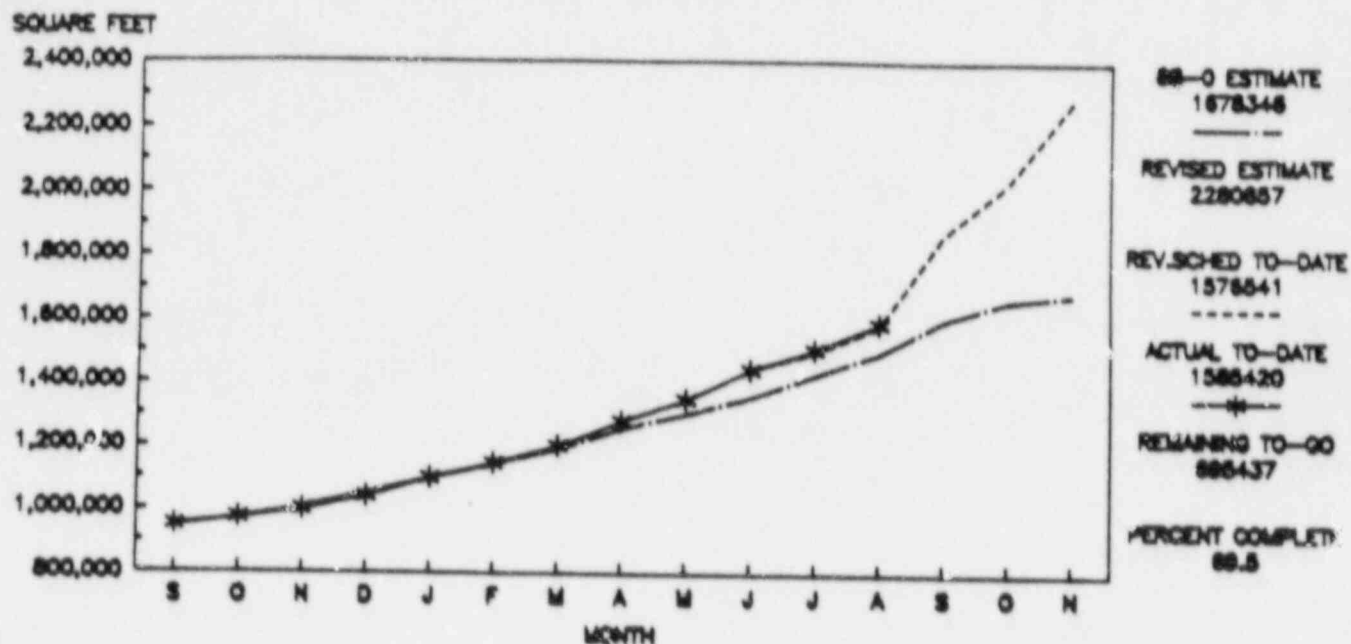
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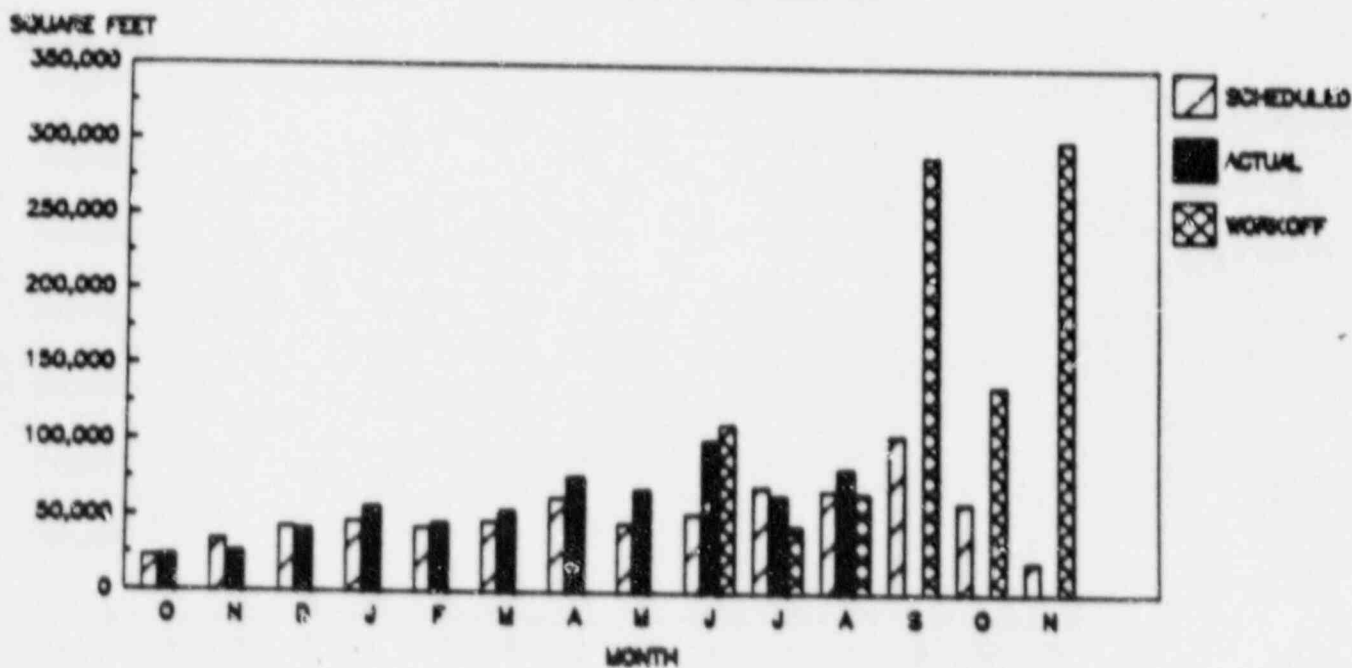
□ SCHEDULED

■ ACTUAL

SCHEDULED COATINGS UNIT 2 CUMULATIVE STATUS

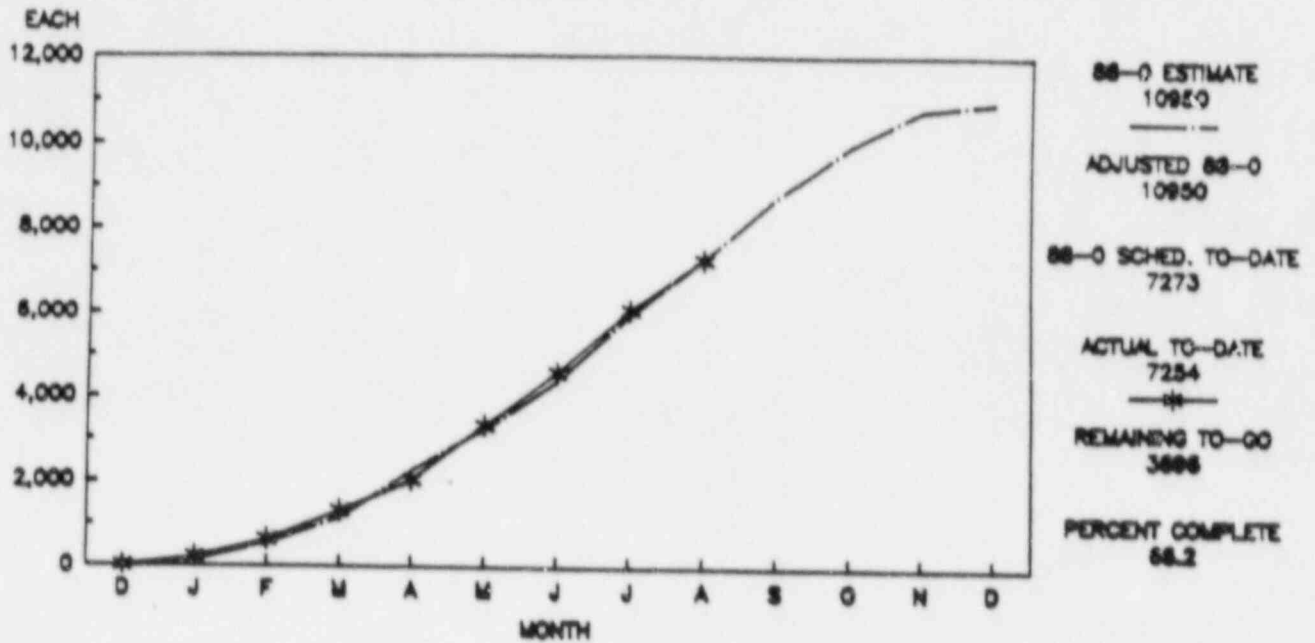


SCHEDULED COATINGS UNIT 2 INCREMENTAL STATUS

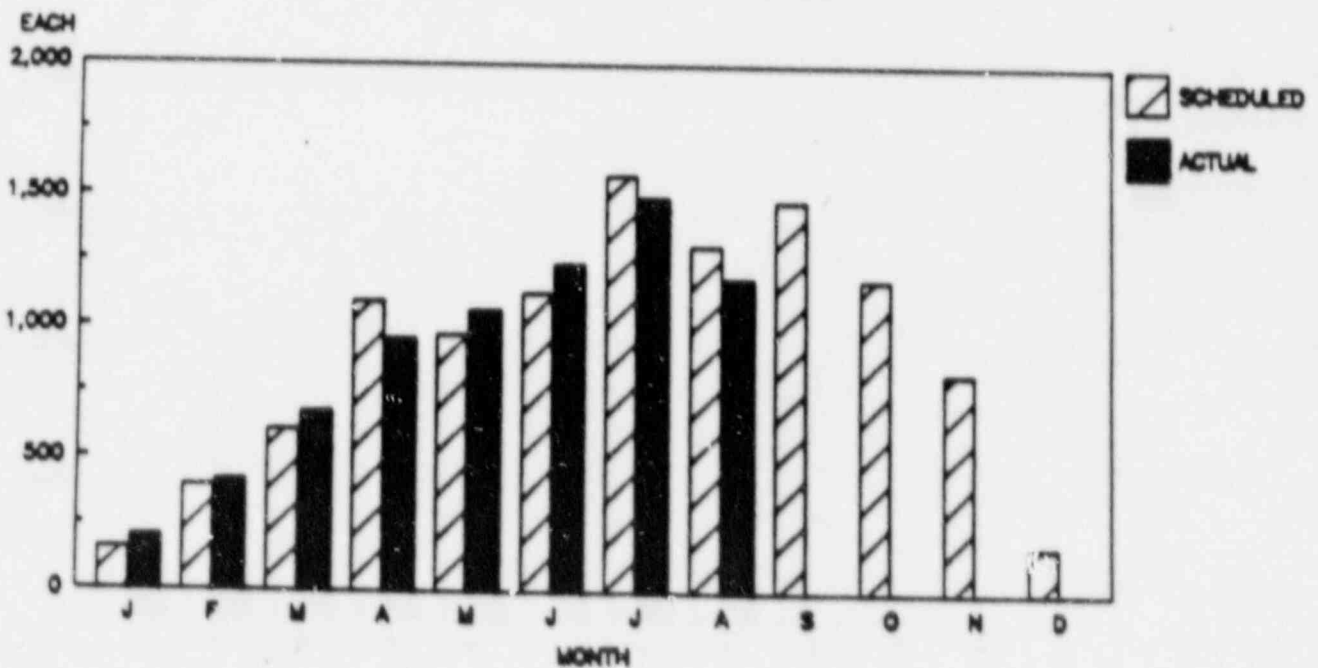


4 WEEK PERIOD ENDING AUGUST 21, 1988

PENETRATION SEALS UNIT 2 CUMULATIVE STATUS



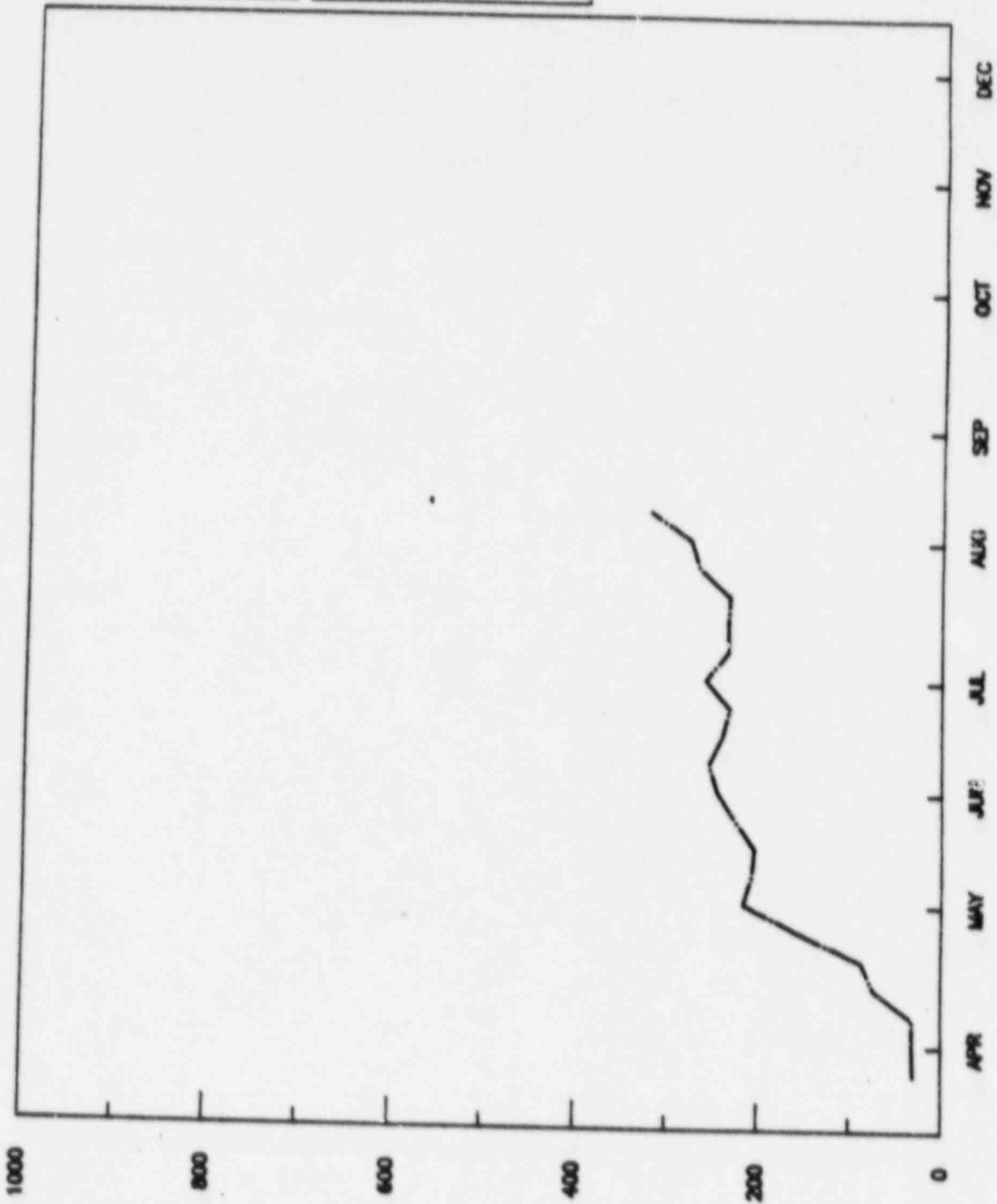
PENETRATION SEALS UNIT 2 INCREMENTAL STATUS



4 WEEK PERIOD ENDING AUGUST 21, 1988

OPEN ITEMS ON RELEASED AREAS

OPEN ITEMS



AREAS RELEASED TO-DATE	180
CURRENT OPEN ITEMS	321
CIVIL	182
ELECTRICAL	77
MECHANICAL	62
OTHER	0

ACCEPTED ROOMS WITH EXCEPTIONS	64
PEN SEALS	35
COATINGS	20
PIPE INSULATION	18
ELEC. AREA WORK	70

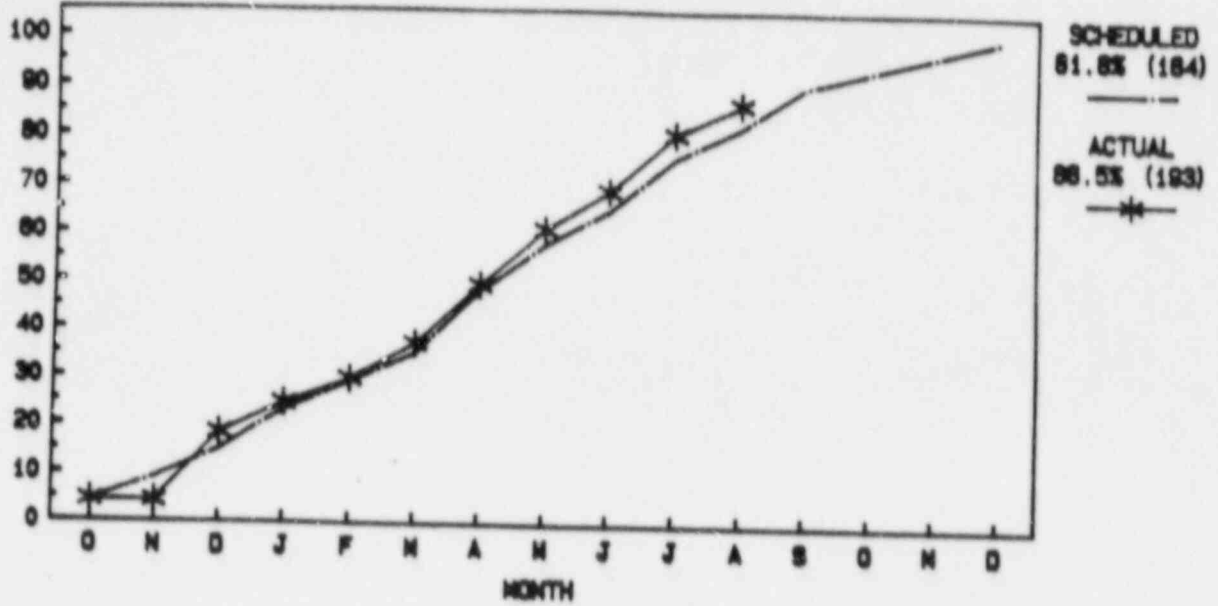
PLANT VOGTLE UNIT 2
1988 START-UP STATUS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT
BY
HARVEY M. HANDFINGER
ASST. PLANT STARTUP MANAGER
SEPTEMBER 2, 1988

AGENDA

1. RFT CURVE
2. TURNOVER CURVE
3. PUNCHLIST CURVE (PG/RT)
4. PUNCHLIST BAR SLIDE
5. UNIT 1/UNIT 2 PUNCHLIST COMPARISON
6. FLUSH CURVE
7. CAT CURVE
8. PRE-OP START CURVE
9. PRE-OP FINISH CURVE
10. PRE-OP RESULTS APPROVAL CURVE
11. AIR BALANCE CURVE
12. ITP CURVE
13. HFT SUMMARY SCHEDULE

RELEASE FOR TEST
UNIT 2
CUMULATIVE STATUS

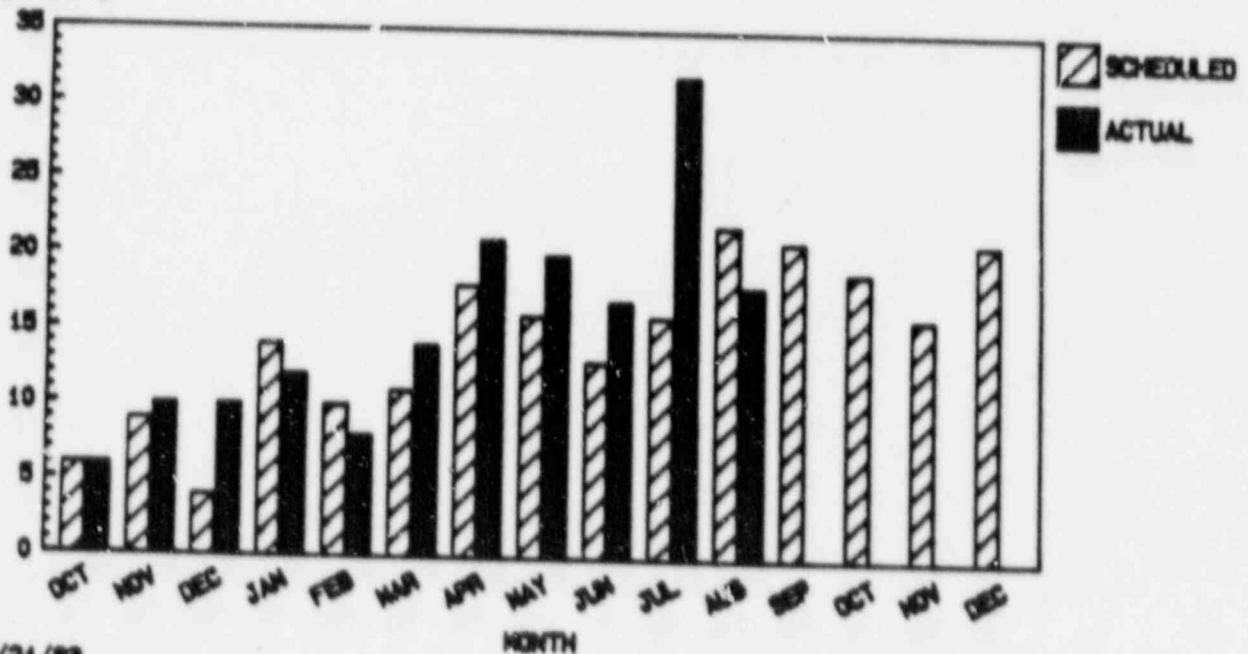
WEIGHTED PERCENT COMPLETE



TOTAL # OF RELEASES - 241

RELEASE FOR TEST
UNIT 2
INCREMENTAL STATUS

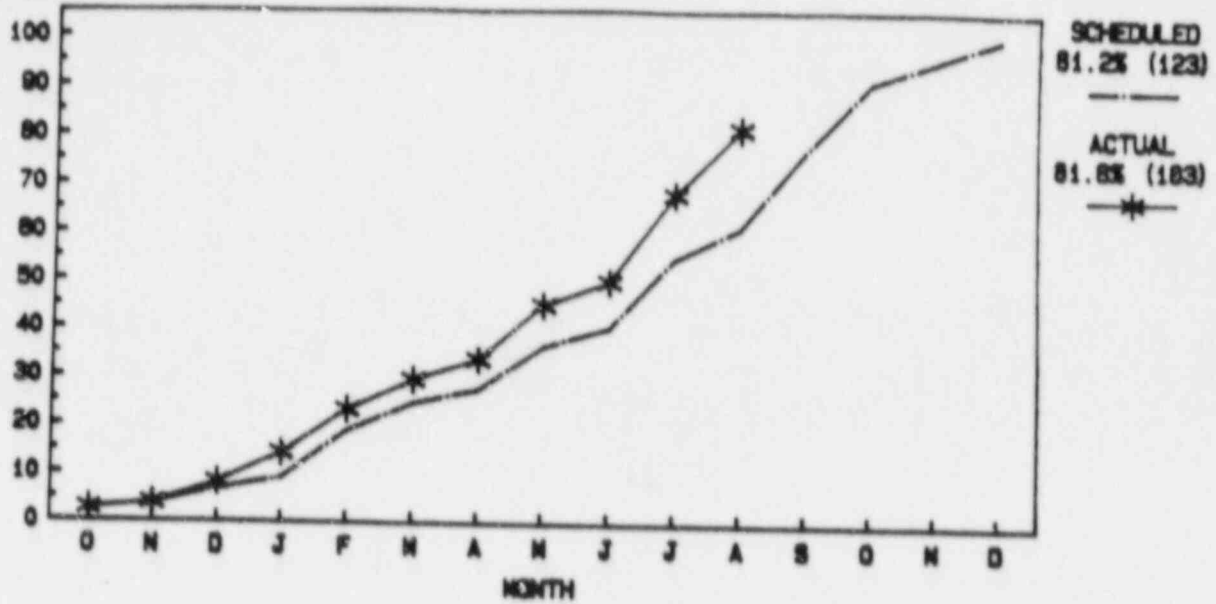
OF RFT'S



STATUS 08/21/89
88-0 REV. 1

TURNOVER
UNIT 2
CUMULATIVE STATUS

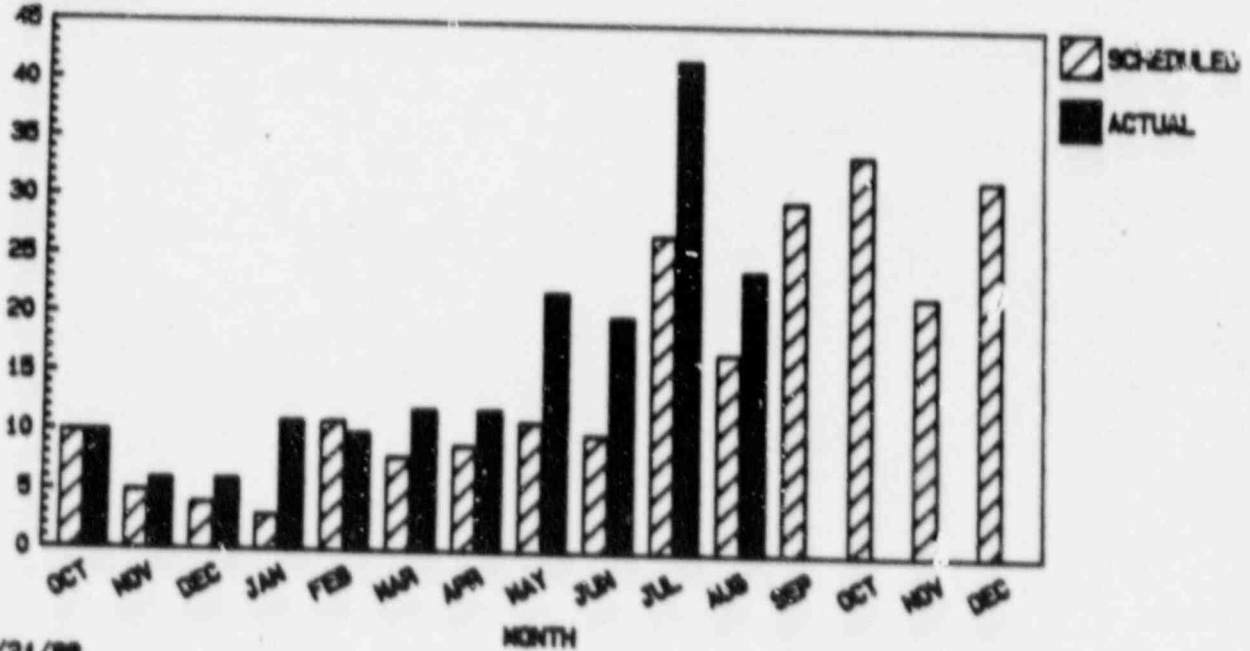
WEIGHTED PERCENT COMPLETE



TOTAL # OF TURNOVERS - 241

TURNOVER
UNIT 2
INCREMENTAL STATUS

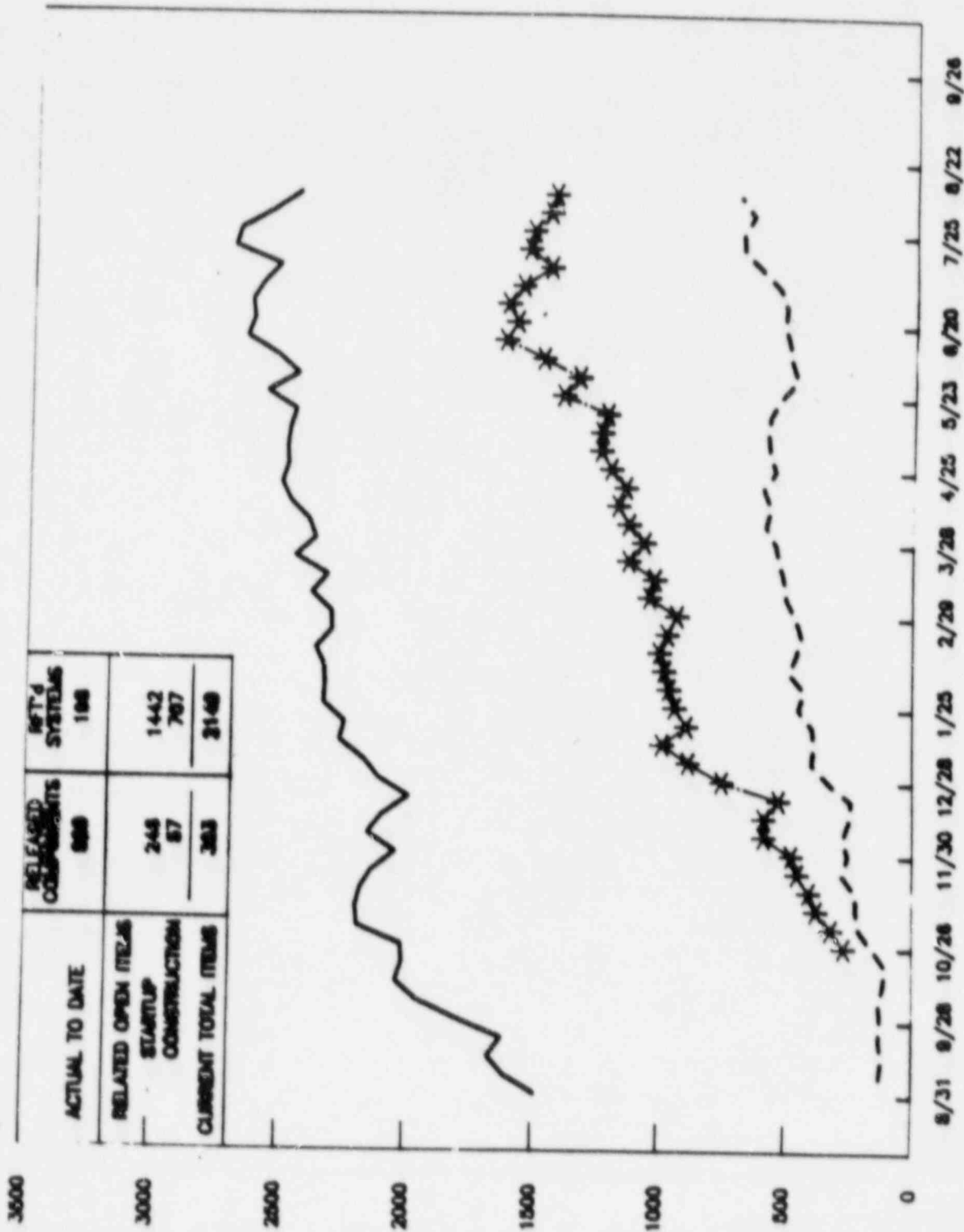
OF TURNOVER'S



STATUS 08/21/88
88-0 REV. 1

OPEN ITEMS ON RELEASED SYSTEMS/COMPONENTS

OPEN ITEMS



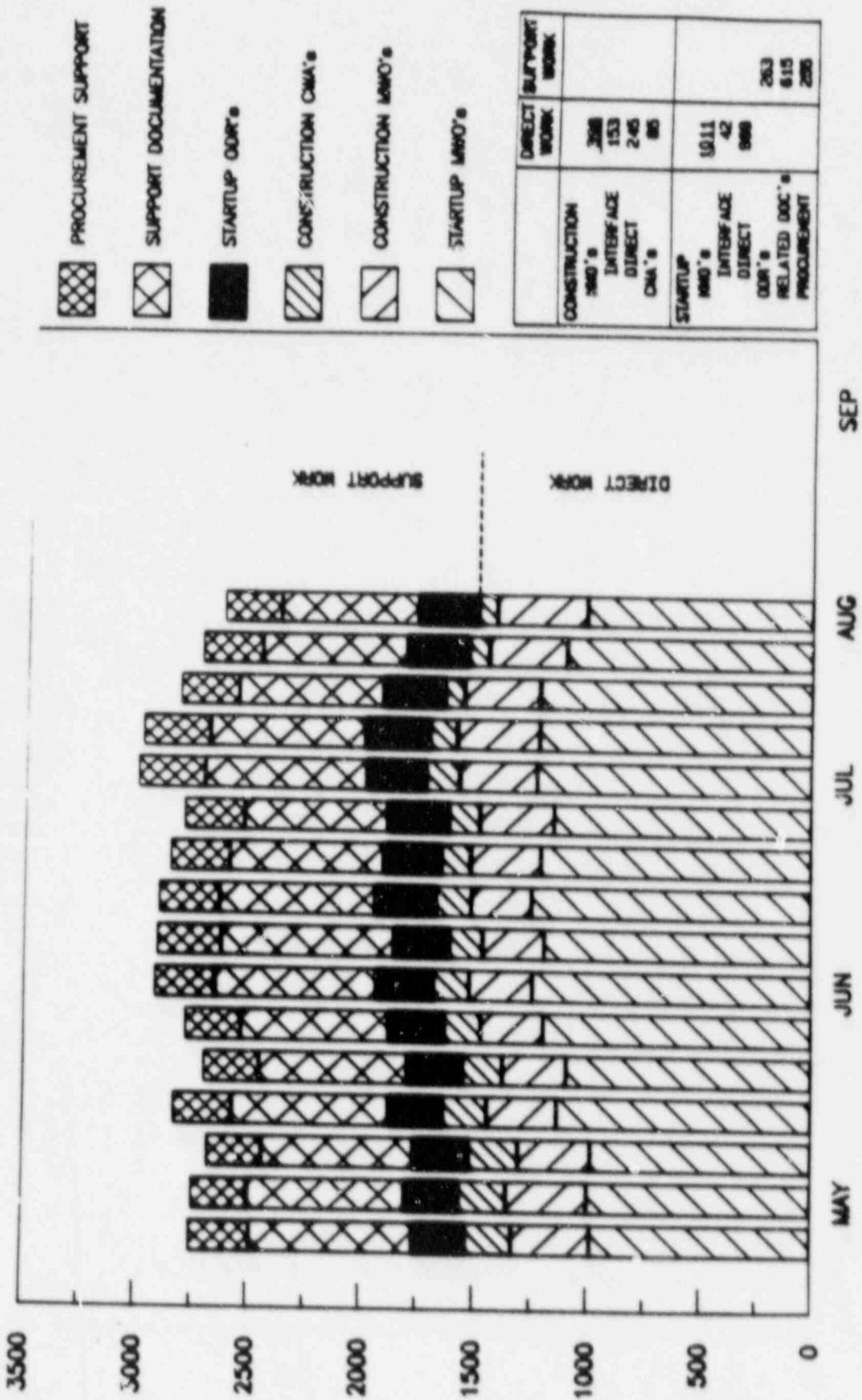
PROJECT TOTAL

STARTUP
 NET'd & 1/0'd
 * - - -

CONSTRUCTION
 NET'd & 1/0'd
 - - - -

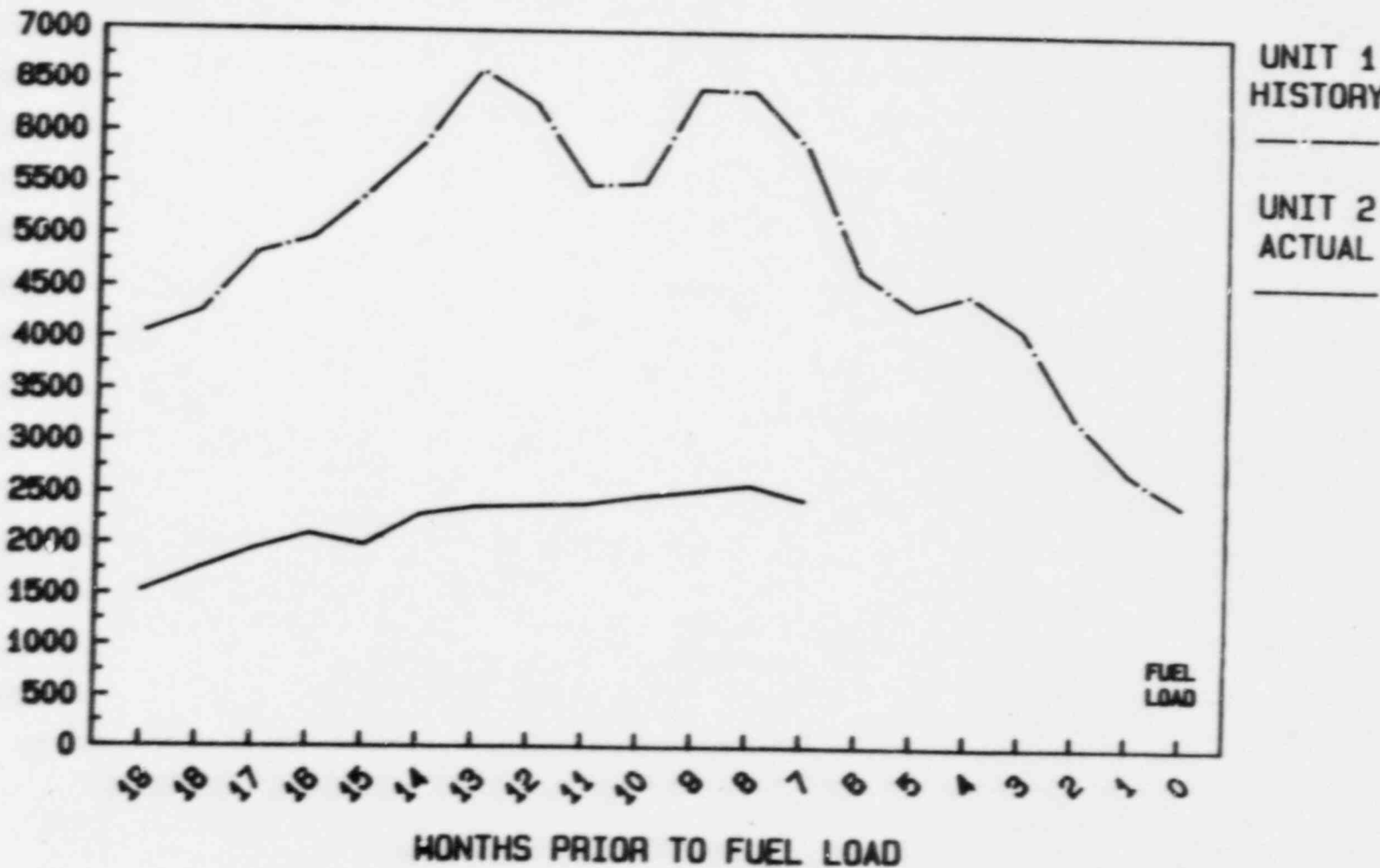
PROJECT WORK ACTIVITIES RELEASE FOR TEST AND TURNED OVER SYSTEMS

OPEN ITEMS



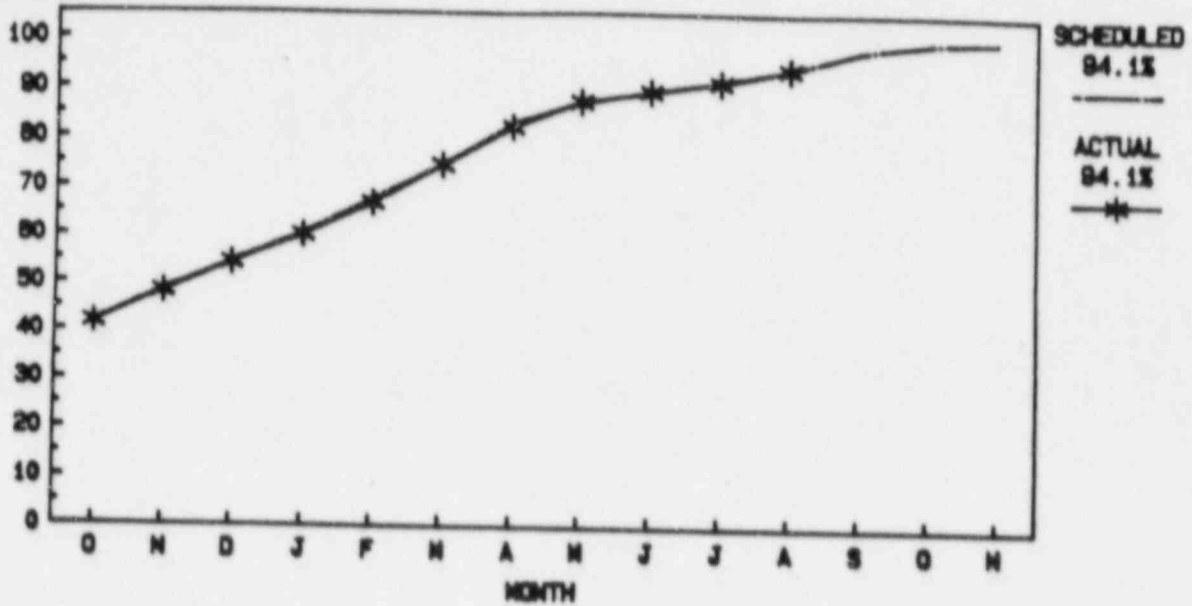
OPEN PUNCH LIST ITEMS UNIT 1 / UNIT 2 COMPARISON RFT'D AND TURNED OVER SYSTEMS

NO. OF ITEMS



FLUSH
UNIT 2
CUMULATIVE STATUS

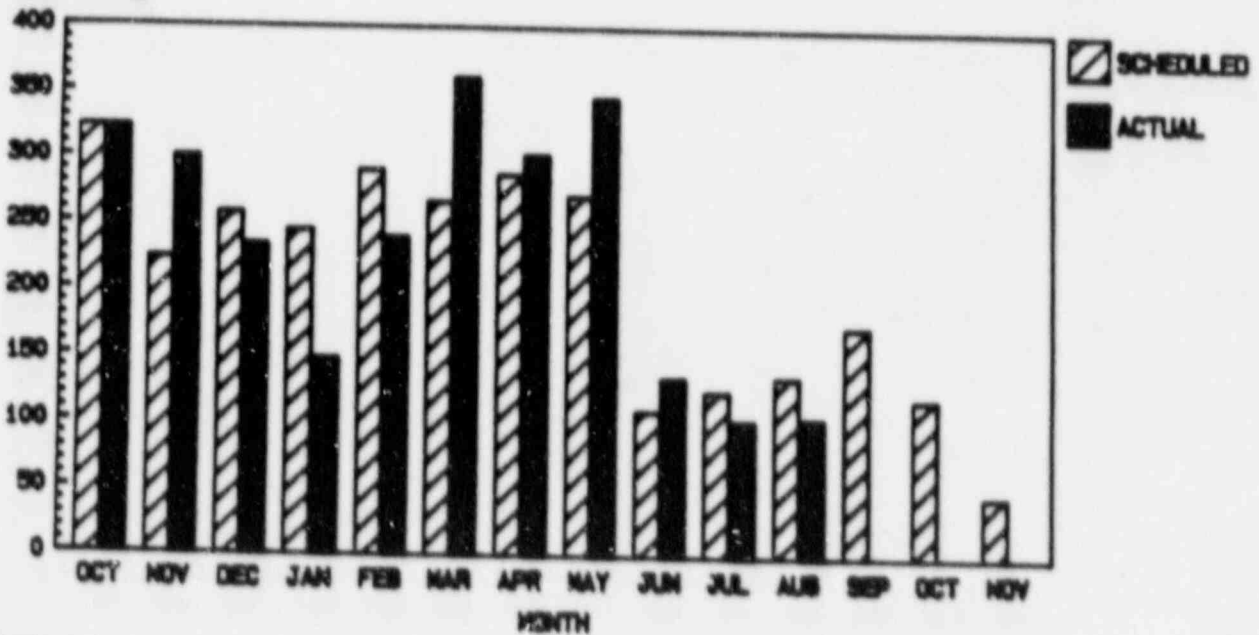
WEIGHTED PERCENT COMPLETE



TOTAL # FLUSH PATHS - 3812

FLUSH
UNIT 2
INCREMENTAL STATUS

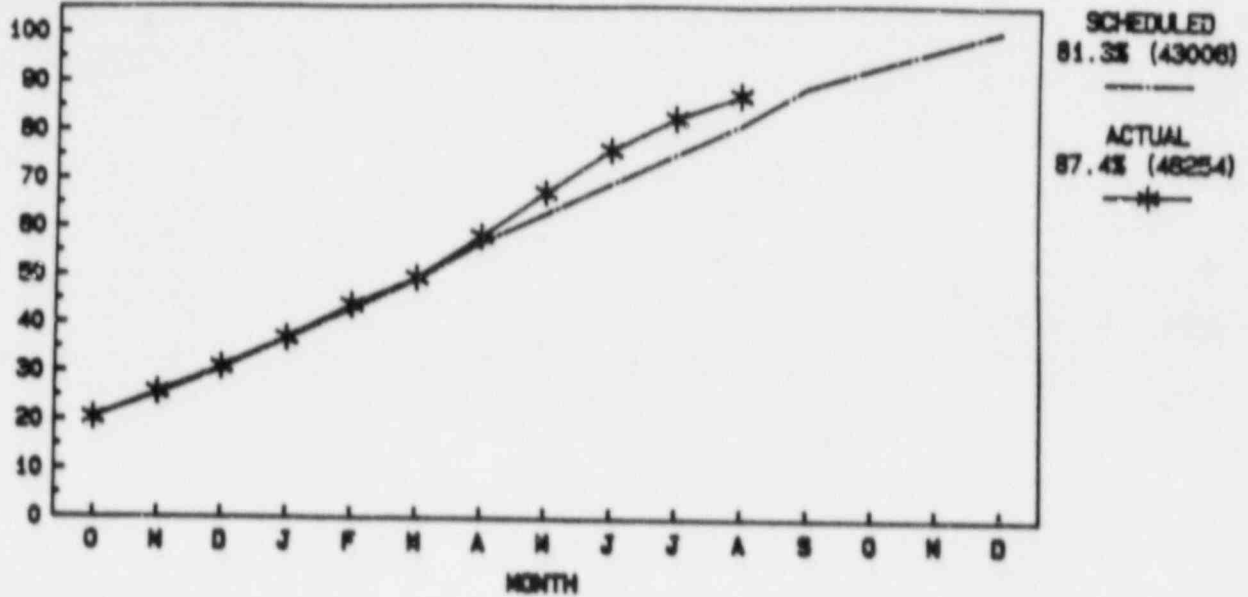
OF FLOW PATHS



STATUS 06/21/88
BR-0 REV. 0

CONSTRUCTION ACCEPTANCE TESTING
UNIT 2
CUMULATIVE STATUS

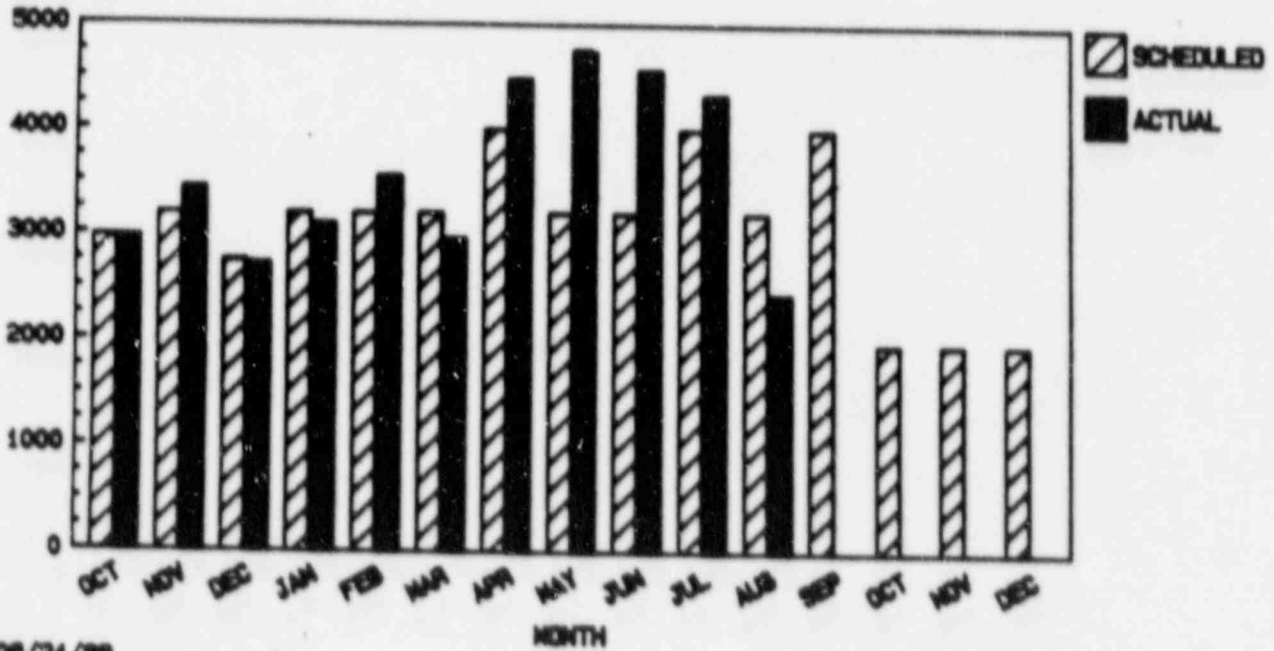
PERCENT COMPLETE



TOTAL # OF CATS - 52600

CONSTRUCTION ACCEPTANCE TESTING
UNIT 2
INCREMENTAL STATUS

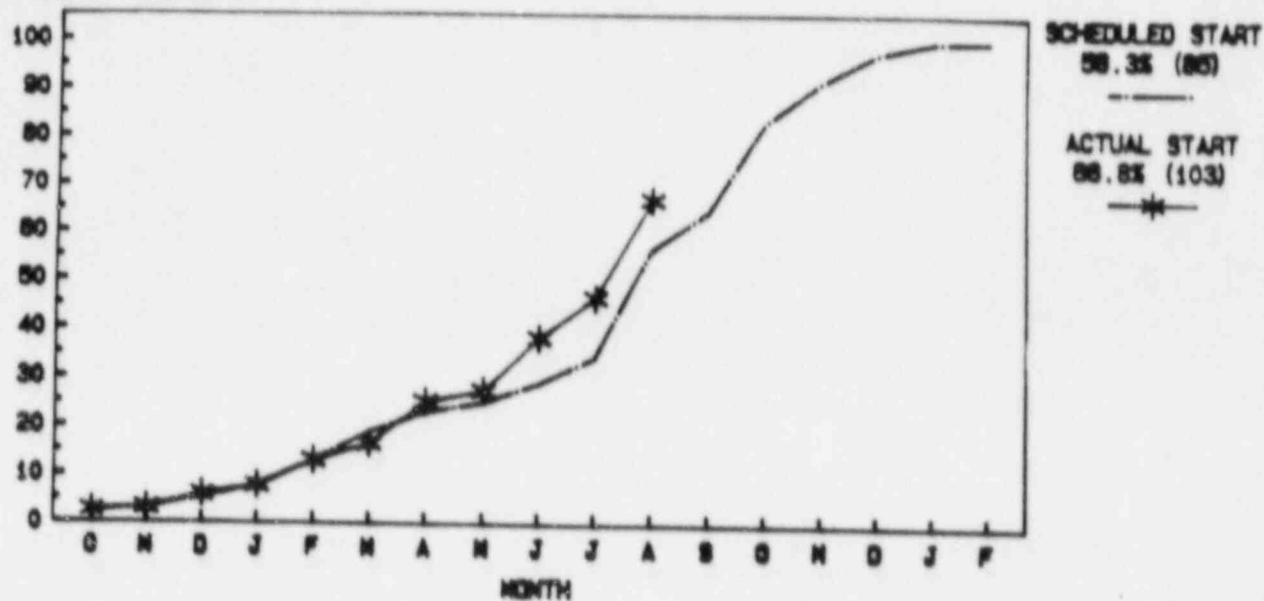
OF CATS



STATUS 08/21/88
88-0 REV. 1

PREOP TEST PROGRAM (STARTS)
UNIT 2
CUMULATIVE STATUS

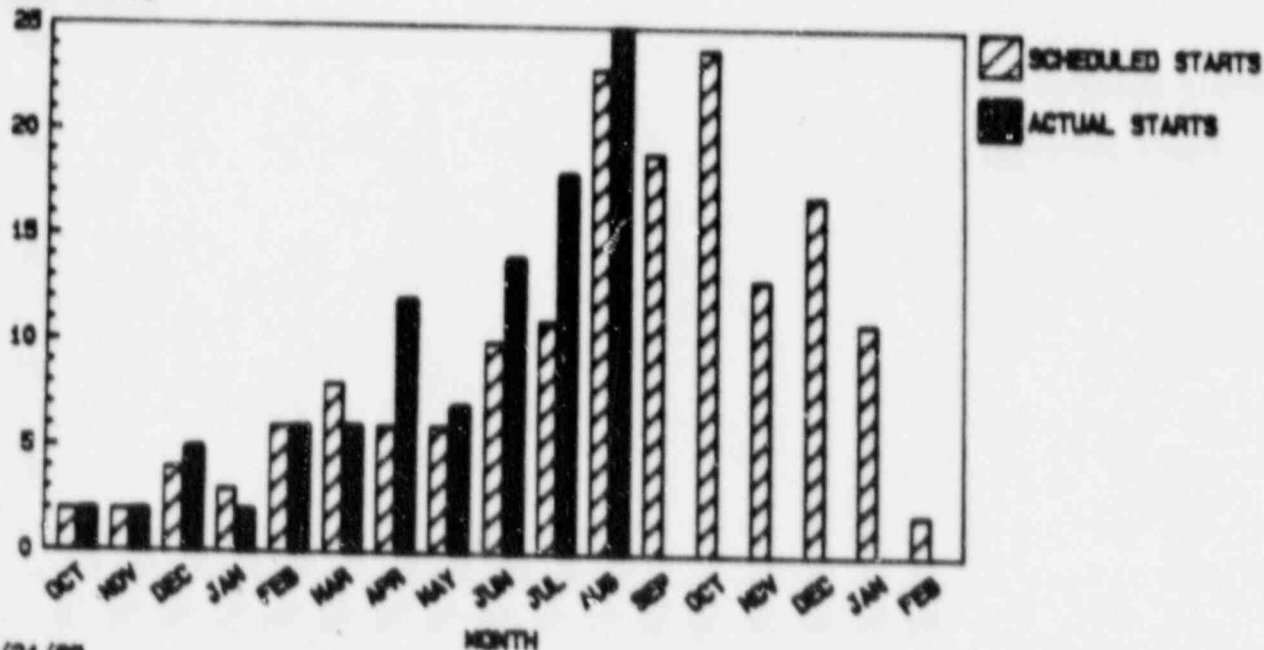
WEIGHTED PERCENT COMPLETE



TOTAL # OF PREOP PROCEDURES - 171

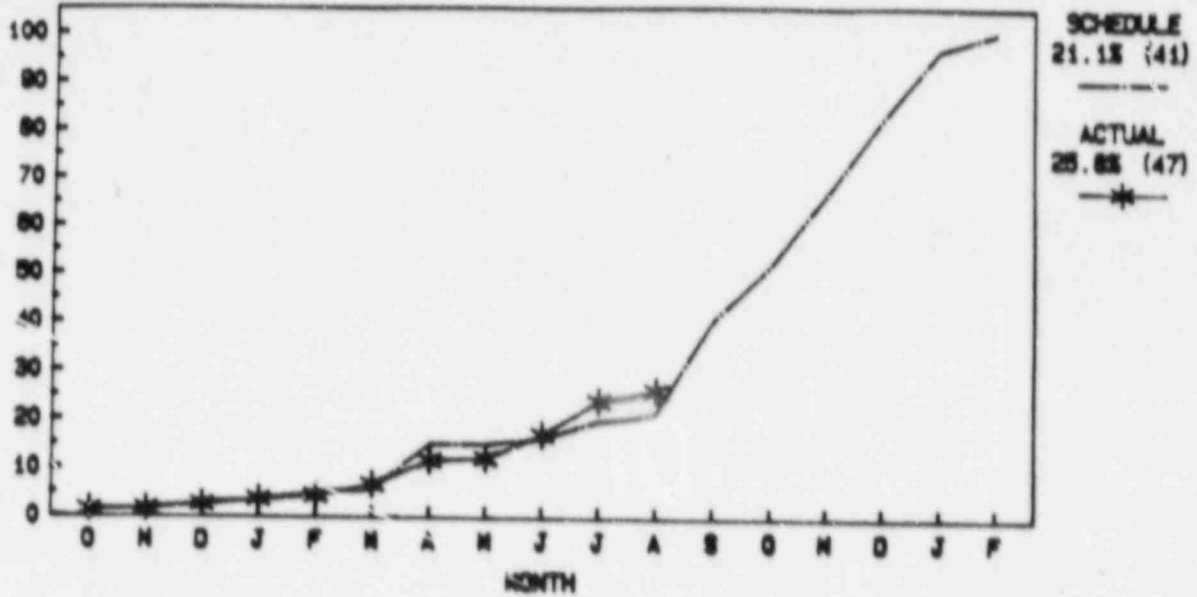
PREOP TEST PROGRAM (STARTS)
UNIT 2
INCREMENTAL STATUS

OF PREOP STARTS



PREOP TEST PROGRAM (FINISH)
 UNIT 2
 CUMULATIVE STATUS

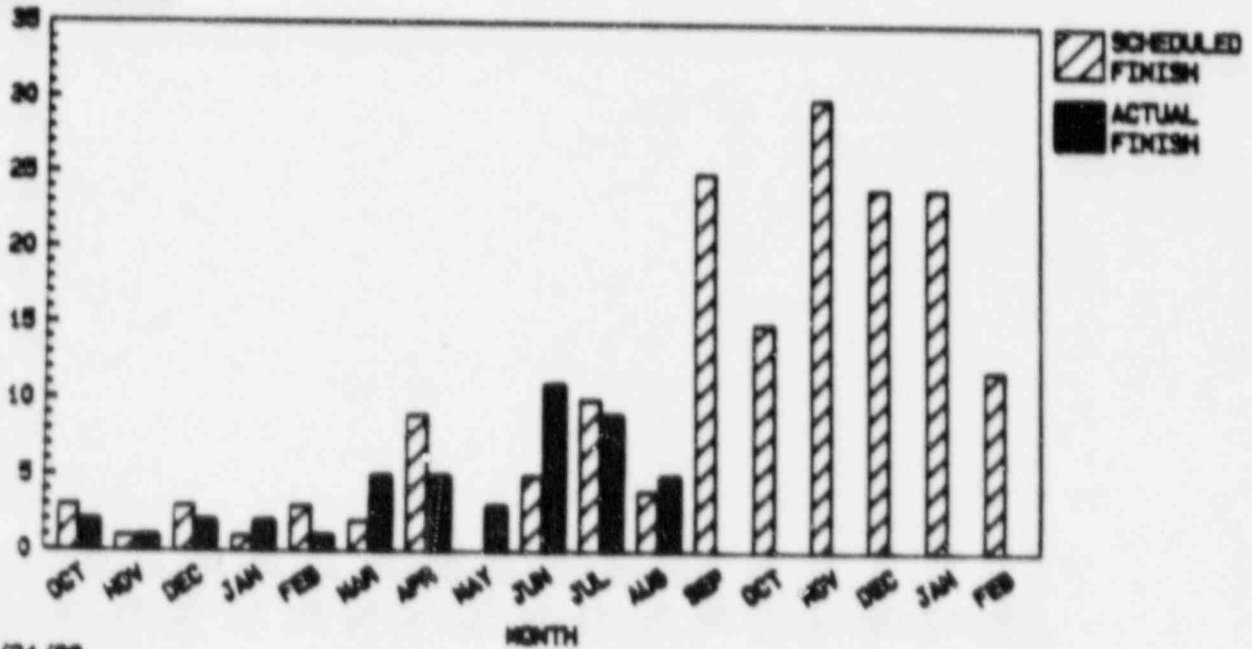
WEIGHTED PERCENT COMPLETE



TOTAL # OF PREOP PROCEDURES - 171

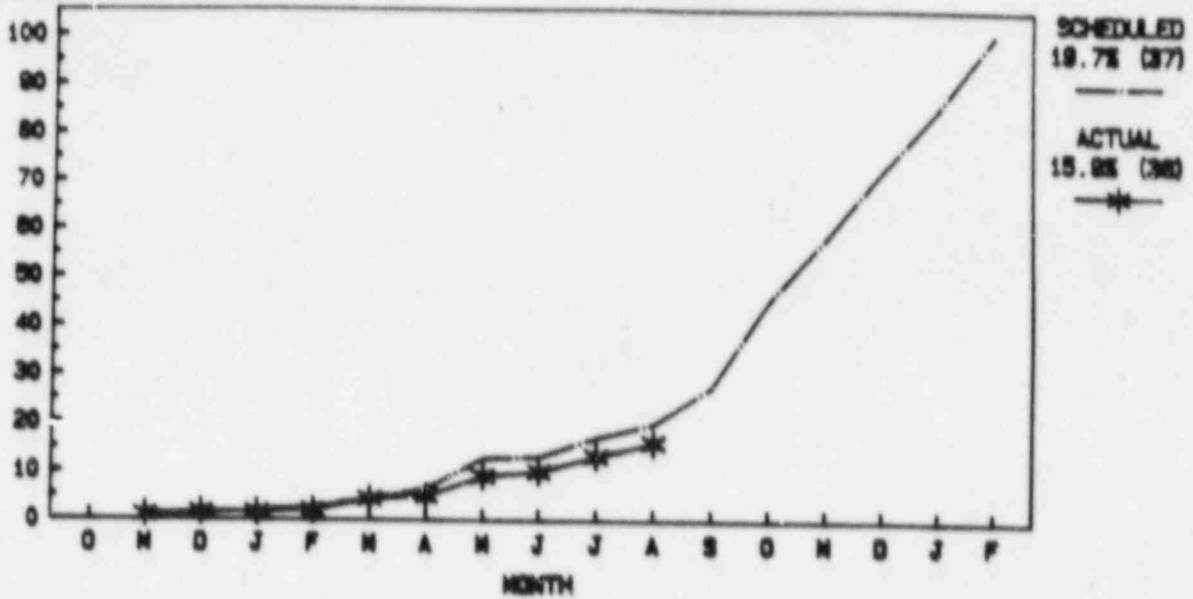
PREOP TEST PROGRAM (FINISH)
 UNIT 2
 INCREMENTAL STATUS

OF PREOP FINISHES



PREOP RESULTS APPROVAL
UNIT 2
CUMULATIVE STATUS

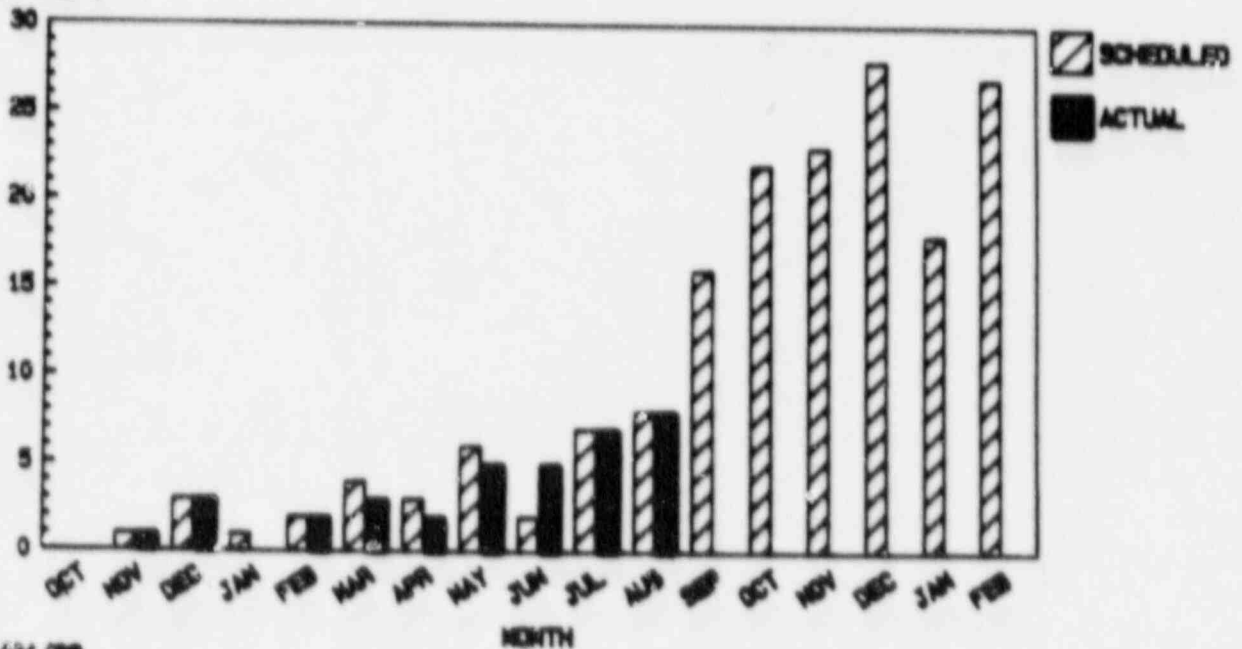
WEIGHTED PERCENT COMPLETE



TOTAL # OF TEST RESULTS PACKAGES - 171

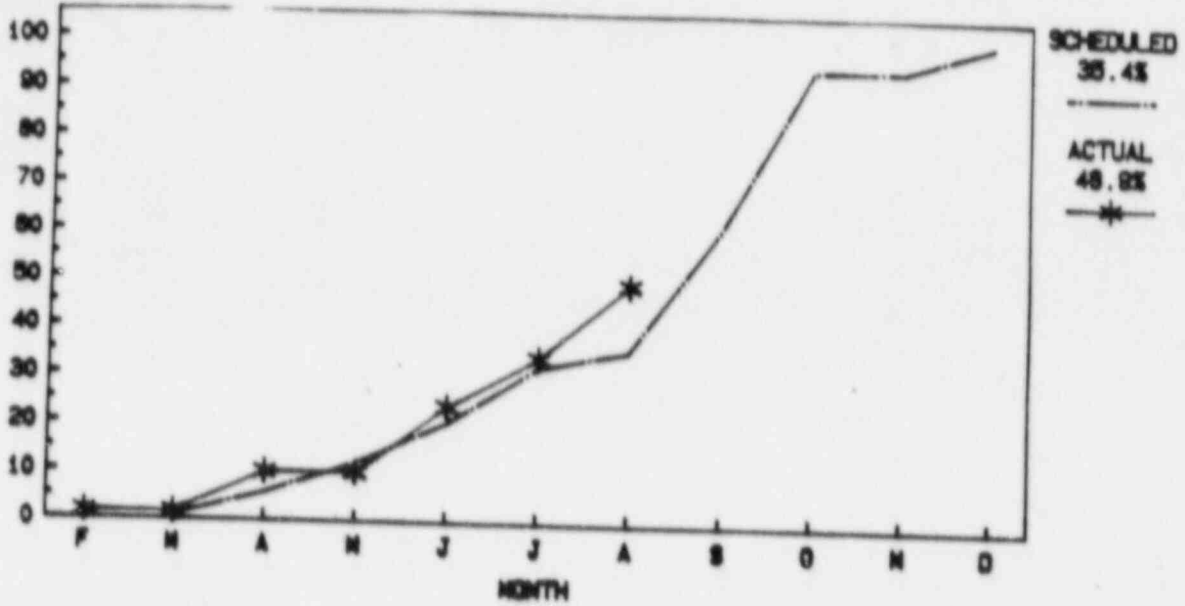
PREOP RESULTS APPROVAL
UNIT 2
INCREMENTAL STATUS

OF TRB'S



AIR BALANCE PROGRAM
UNIT 2
CUMULATIVE STATUS

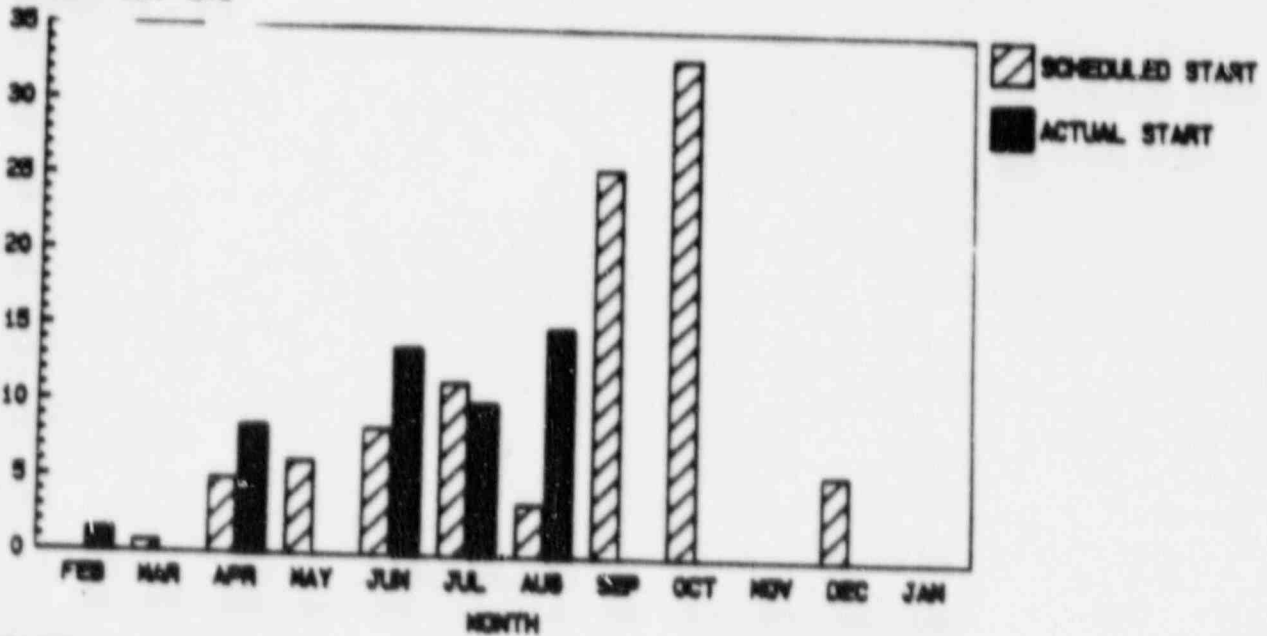
WEIGHTED PERCENT COMPLETE



TOTAL # AIR BALANCE FLOWPATHS - 20

AIR BALANCE PROGRAM
UNIT 2
INCREMENTAL STATUS

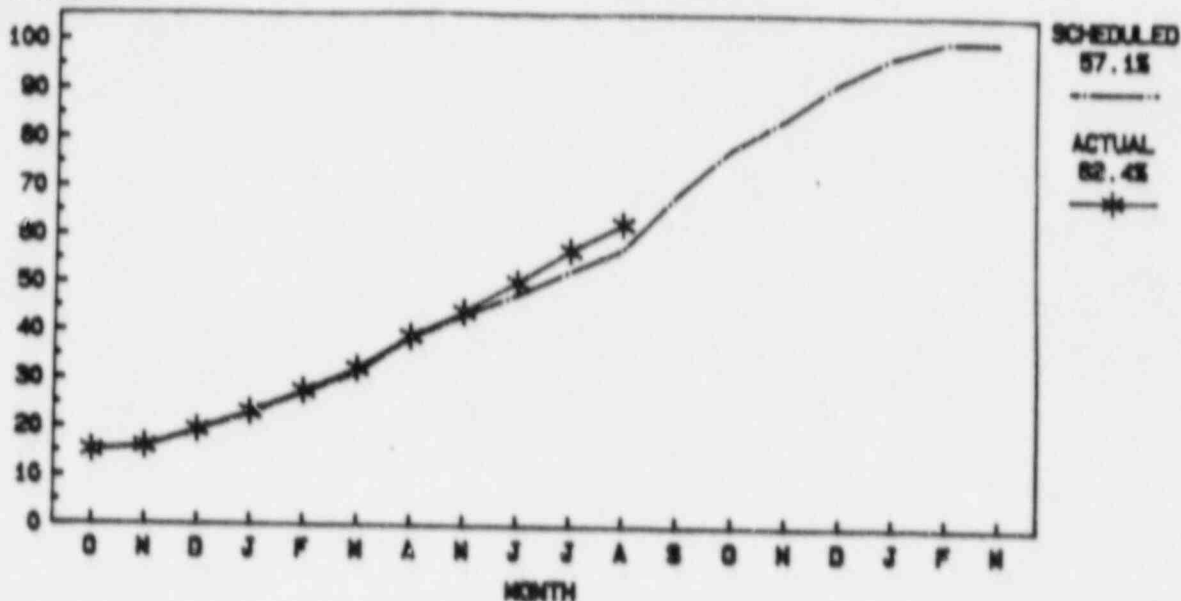
WEIGHTED PERCENT COMPLETE



STATUS 08/21/88
BB-0 REV. 1

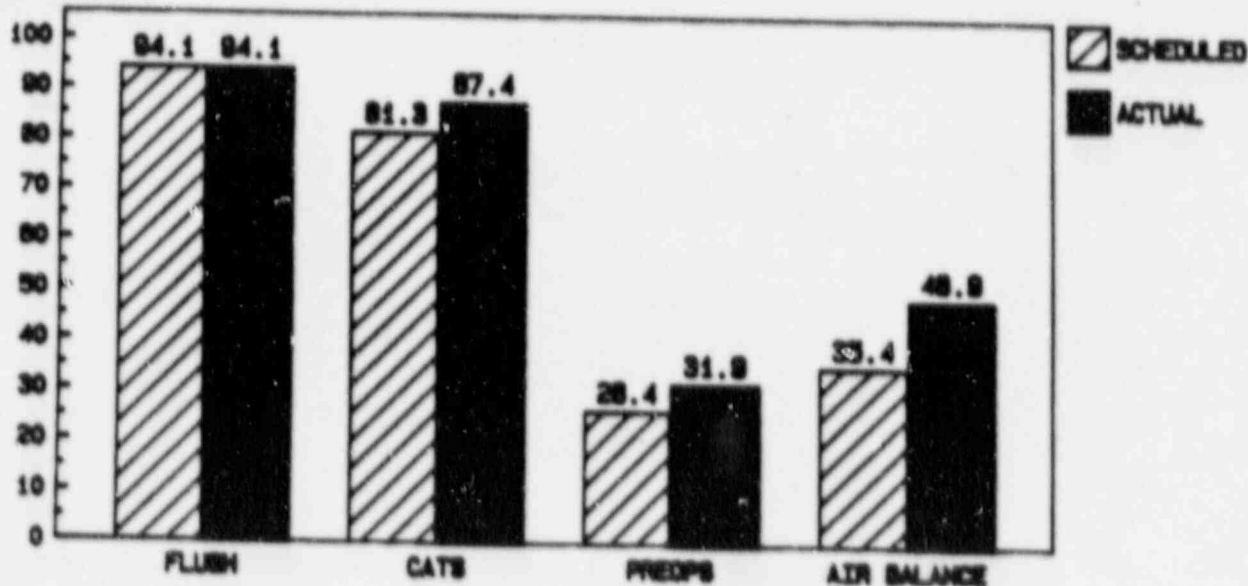
INITIAL TEST PROGRAM
UNIT 2
CUMULATIVE STATUS

PERCENT COMPLETE

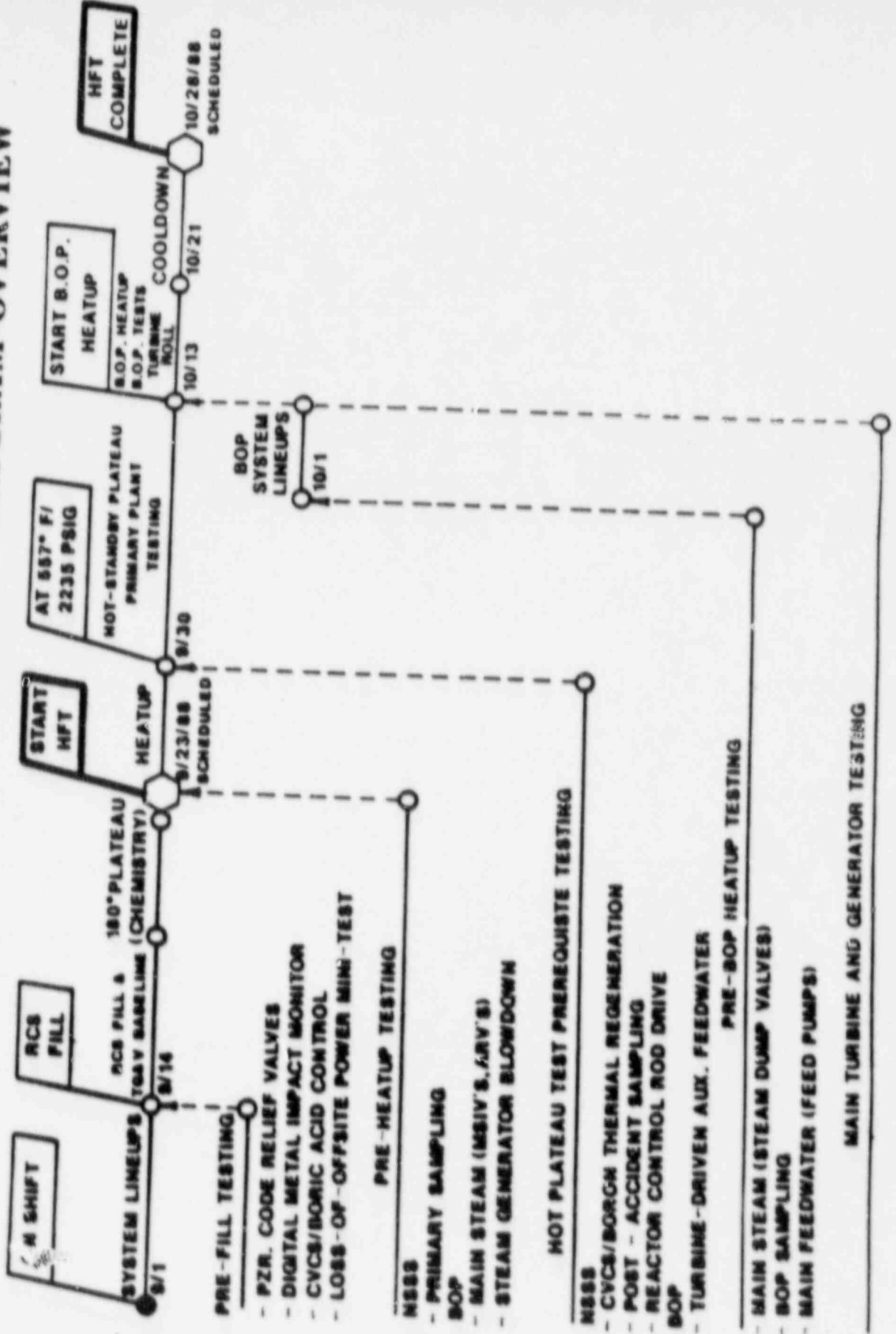


INITIAL TEST PROGRAM - MAJOR COMPONENTS
UNIT 2 - CUMULATIVE STATUS

PERCENT COMPLETE



VEGP UNIT 2 HOT FUNCTIONAL TESTING PROGRAM OVERVIEW



PROJECT CRITICAL ITEMS

STATUS AS OF AUGUST 29, 1988

CATEGORY 1

- PERMS
- I & E BULLETIN 88-05
- RADWASTE
- CONTAINMENT CLEANING

CATEGORY 2

- CIRCULATING WATER PUMP
- PUNCH LIST MANAGEMENT
- WEeping PENETRATIONS

CATEGORY 3

- UNIT 1 / UNIT 2 INTERFACE PLANNING

PLANT VOGTLE UNIT 2
1988 LICENSING STATUS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT

BY

JIM A. BAILEY
LICENSING MANAGER

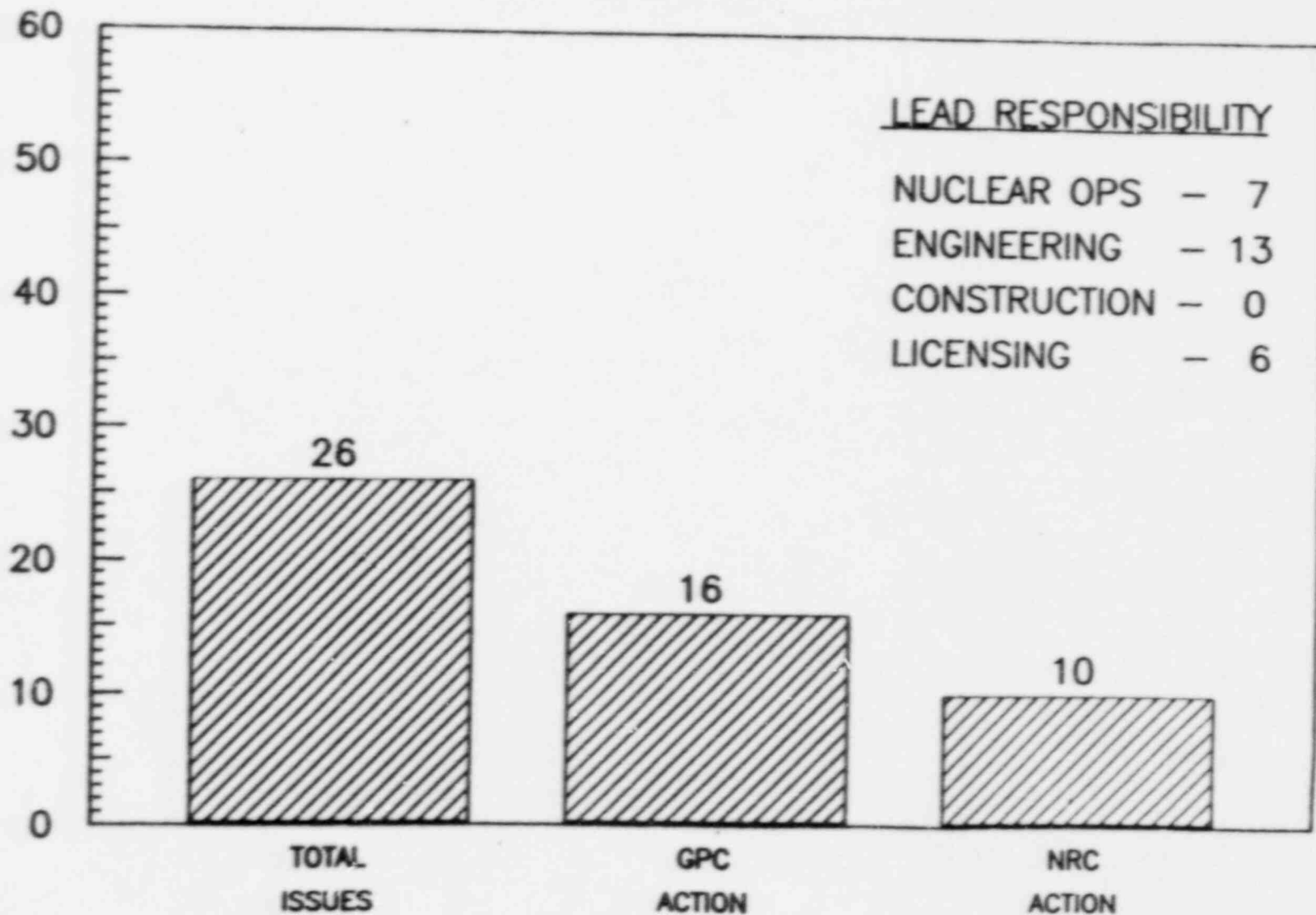
SEPTEMBER 2, 1988

AGENDA

1. LICENSING STATUS CHART
2. NRC ACTIVITIES
3. MAJOR LICENSING ACTIVITIES
4. LICENSING MILESTONES

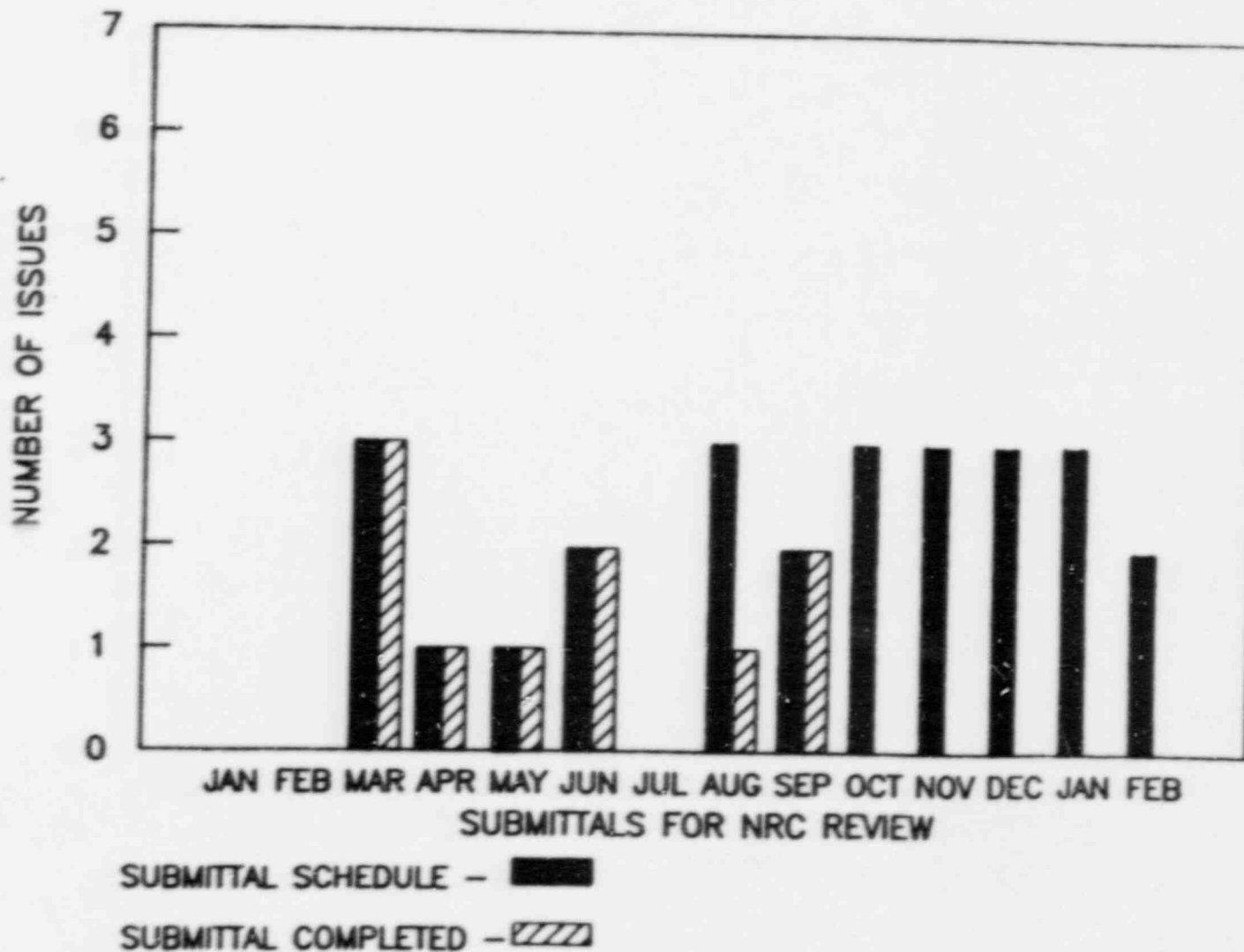
PLANT VOGTLE - UNIT 2

LICENSING STATUS



PLANT VOGTLE - UNIT 2

NRC ACTIVITY - LICENSING



UNIT 2 LICENSING ISSUES

<u>ISSUE</u>	<u>ACTION</u>
◦ Equipment Qualification (Seismic + Environmental)	NRC
◦ Preservice Inspection Program	NRC
◦ Generic Letter 82-28- Salem ATWS	GPC/NRC/WOG
◦ Fire Protection (Hazards Analysis + Combustible Loadings)	GPC/NRC
◦ Detailed Control Room Design Review	GPC
◦ SPDS V + V	GPC
◦ Spent Fuel Racks	NRC
◦ Pipewhip and Jet Impingement Evaluation (Unit 2 Differences)	GPC
◦ Examination of Steam Generator Tubes	GPC
◦ Volumetric Examination of ESFS	NRC
◦ Test of Engineered Safeguards P-4 Interlock	NRC
◦ I.E. Bulletin 80-06	GPC
◦ Override of Isolation Signals	GPC
◦ Installation and Testing of Automatic PORV Isolation System	GPC
◦ Electric Distribution System Voltage	GPC
◦ Plant Specific Recommendation for TDI DG's	GPC
◦ Outside Containment Leak Rate Test	GPC
◦ Operator Action in Event of SGTR	NRC
◦ Radiological Consequence of SGTR	NRC
◦ Complete Seismic Separation Program	GPC
◦ AMSAC - 10CFR50.62	NRC
◦ Technical Specifications	GPC/NRC
◦ Status for Fuel Load Letter	GPC
◦ Certification of Regulations Letter	GPC
◦ Waste Evaporator/Alternate Radwaste Changes	NRC
◦ Anti-Trust Information	NRC

LICENSING MILESTONES

<u>ITEM</u>	<u>DATE</u>
* SUBMIT ANTI-TRUST INFORMATION	08/23/88
* SUBMIT FSAR AMENDMENT 37 (FIRE PROTECTION)	08/27/88
* START RECEIPT OF FUEL	09/12/88
* FIRE PROTECTION AUDIT (ONE WEEK)	09/19/88
* SUBMIT FSAR AMENDMENT 38 (MISCELLANEOUS CHANGES)	10/07/88
* RECEIVE TECHNICAL SPECIFICATION FINAL DRAFT	10/15/88
* SUBMIT FSAR AMENDMENT 39 (MISCELLANEOUS CHANGES)	11/23/88
* SUBMIT EQ CERTIFICATION LETTER	01/15/89
* SUBMIT REGULATION CERTIFICATION LETTER	01/15/89
* SUBMIT STATUS FOR FUEL LOAD LETTER	01/27/89
* SUBMIT TECH SPEC CERTIFICATION LETTER	02/14/89
* COMPLETE SER OPEN/CONFIRMATORY ITEMS	02/15/89
* SUBMIT FACILITIES COMPLETION LETTER	02/20/89
* RECEIVE LOW POWER LICENSE	02/28/89

PLANT VOGTLE UNIT 2
1988 SPECIAL PROGRAMS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT
BY
RON H. PINSON
VICE PRESIDENT, ENGINEERING
SEPTEMBER 2, 1988

AGENDA

1. QUALITY CONCERN CHART

2. DRUG TESTING CURVE

QUALITY CONCERN PROGRAM

STATUS REPORT

AUGUST 29, 1988

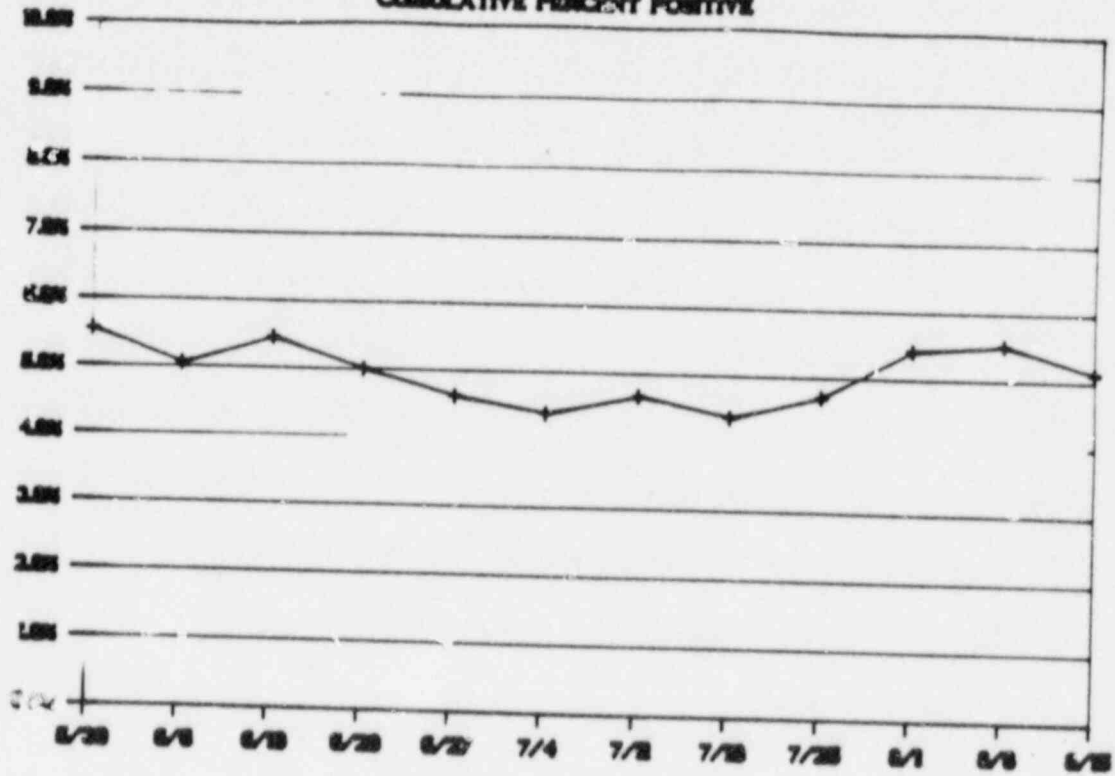
	MONTH (AUGUST) -----	YEAR TO DATE (1988) -----	TOTAL PROGRAM -----
QUALITY CONCERNS			
RECEIVED	17	94	1507
INVESTIGATION COMPLETE	2	74	1487
UNDER INVESTIGATION	15	20	20
ANONYMOUS	2	13	213
PROTECTED ACTIVITY CONCERNS			
RECEIVED	1	10	115
INVESTIGATION COMPLETE	0	8	113
UNDER INVESTIGATION	1	2	2
NON QUALITY CONCERNS	14	71	1192

KNOWN SUBMITTER FEEDBACK FOR 1988 IS 69% WITH 93% SATISFIED SIGNOFFS AND 7% DISSATISFIED SIGNOFFS.

KNOWN SUBMITTER FEEDBACK FOR THE PROGRAM TO DATE IS 57% WITH 91% SATISFIED SIGNOFFS AND 9% DISSATISFIED SIGNOFFS.

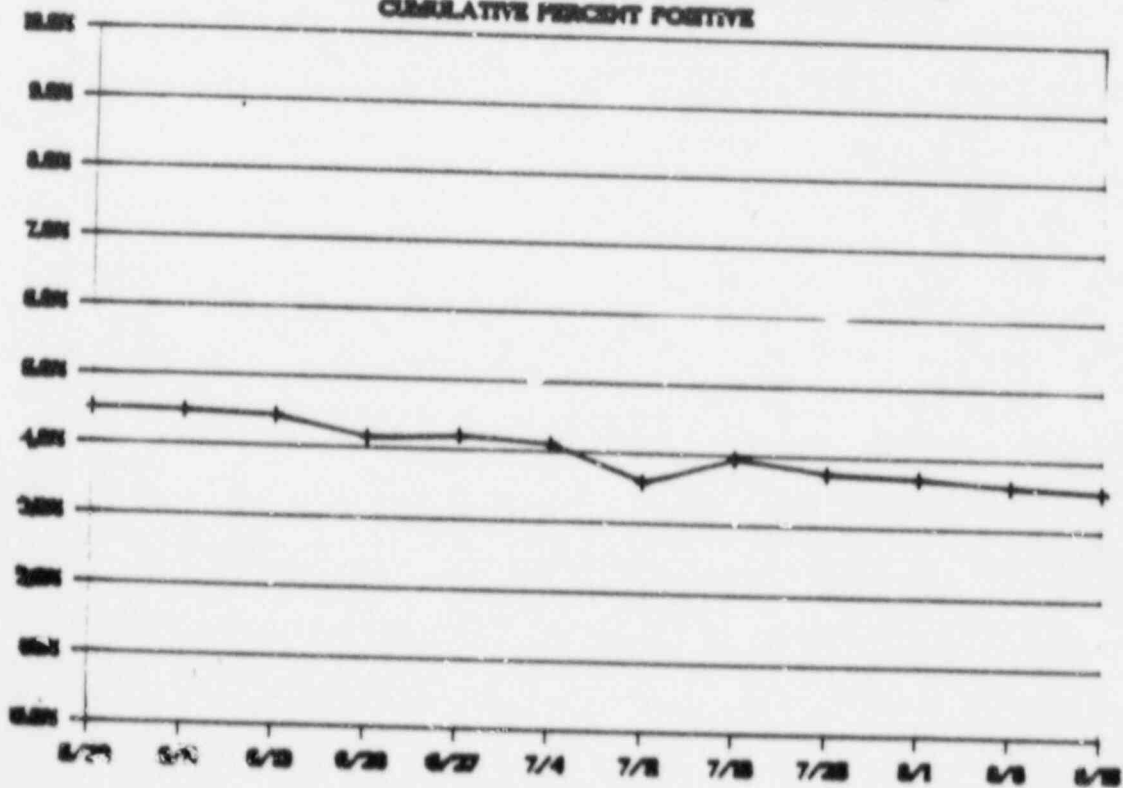
RANDOM DRUG TESTING

CUMULATIVE PERCENT POSITIVE



PRE-EMPLOYMENT DRUG TESTING

CUMULATIVE PERCENT POSITIVE



PLANT VOGTLE UNIT 2
1988 UNIT 2 SUMMARY
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT

BY

PAUL D. RICE

VICE PRESIDENT
AND VOGTLE PROJECT DIRECTOR

SEPTEMBER 2, 1988

AGENDA

1. ORGANIZATION CHART
2. MILESTONE STATUS (CPM)
3. STAFFING CHART
4. OVERTIME CHART

UNIT 2 READINESS REVIEW STATUS

22 AUGUST 88

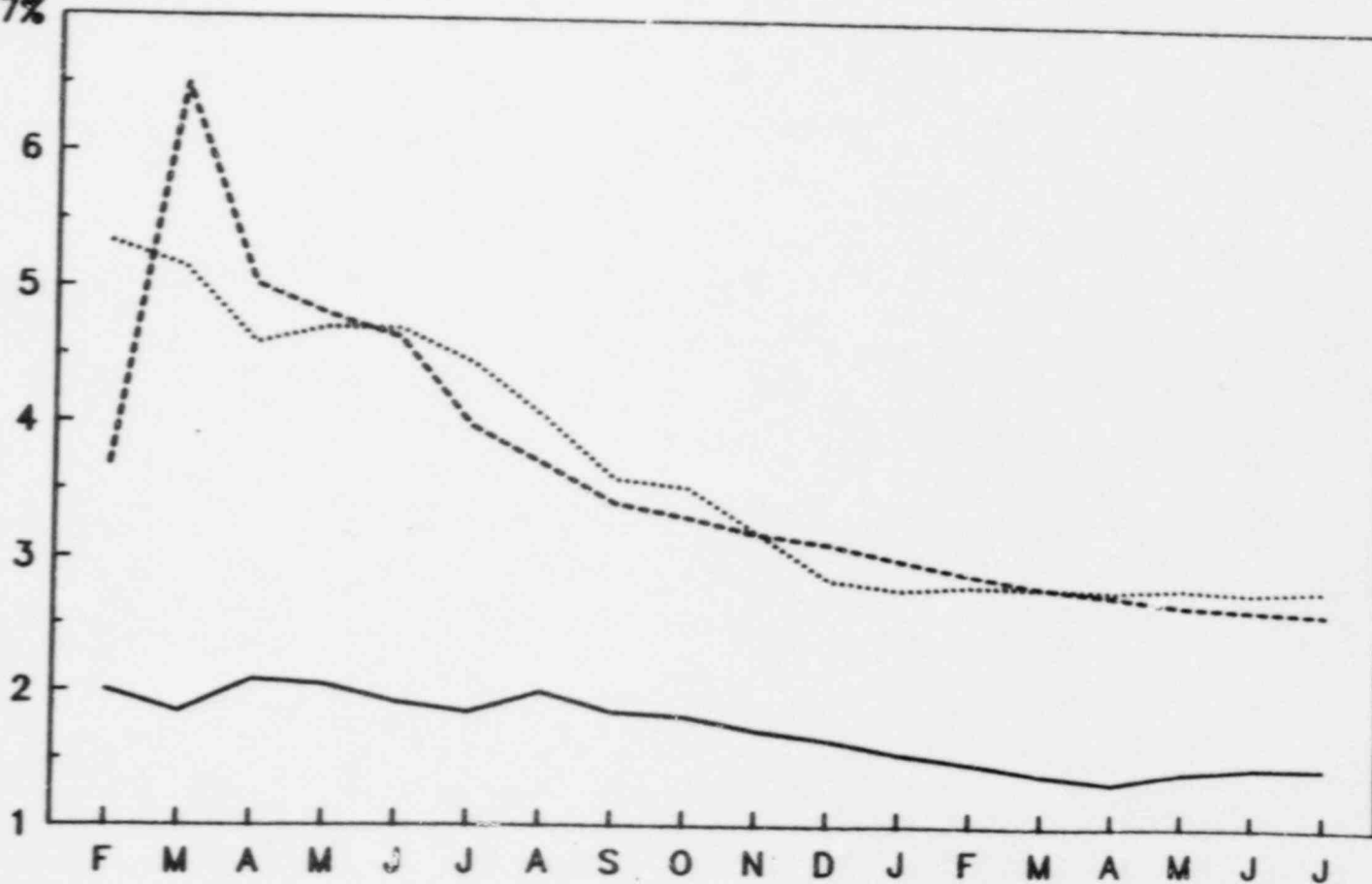
MOBILE	SCOPE AND ASSASSMENT	ASSESSMENT	COMMITMENT IMP.	UNIT 1 PHASES RECEIVED	UNIT 2 PHASES RECEIVED	BOARD APPROVAL	MOBILE COMPLETION	ISSUE TO NYC	NYC INSPECTION
03A INITIAL TEST									
- PHASE 1	NA								
- PHASE 2	NA			NA					
- PHASE 3	NA			NA				12/12/88	
04 PIPING									
06 ELECTRICAL EQUIPMENT									
11 PIPE SUPPORTS									
12 CABLES AND TERMINATIONS									
13B COATINGS									
17/19 BACKWAYS & SUPPORTS									
18A NYAC									
20 I & C									
23 SECURITY									
- PHASE 1	NA			NA					
- PHASE 2	NA								
- PHASE 3	NA							12/05/88	
F INSPECTION									

= SEE EXPLOSION LETTER RECEIVED
 =

PLANT VOGTLE - UNIT 2 CUMULATIVE REJECT RATES

% REJECT

7%



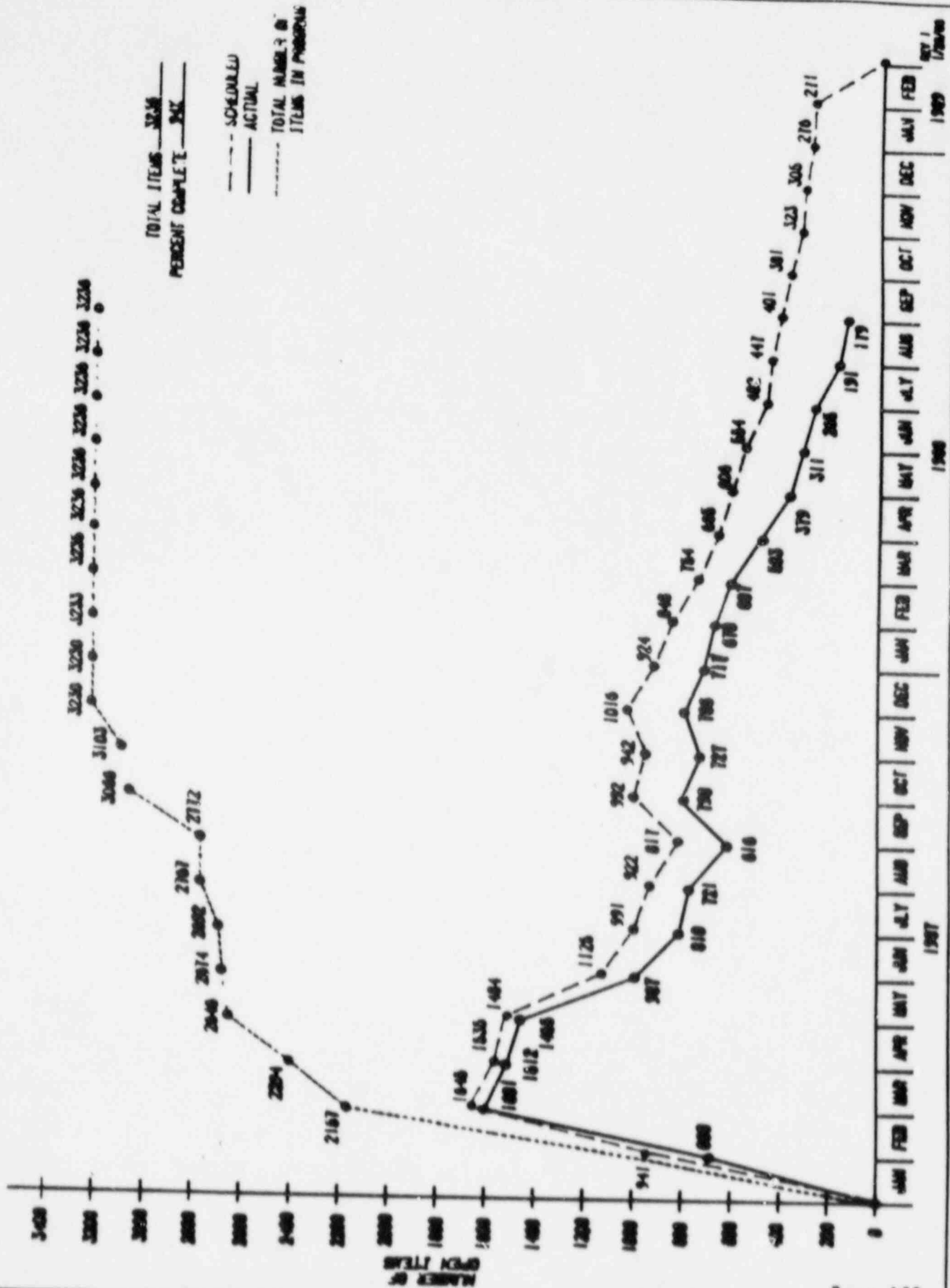
CIVIL

MECHANICAL

ELECTRICAL

FEB'87 - JULY'88

LESSONS LEARNED TOTAL PROGRAM



UNIT 2 PROJECT MILESTONES

	<u>Scheduled</u>	<u>Actual/Forecast</u>
Initial Energization (4160 V Switchgear)	09/01/87	08/23/87
Primary Hydro	05/19/88	05/09/88
Turbine On Turning Gear	06/18/88	06/03/88
Secondary Hydro	07/12/88	06/25/88
Start Fuel Receipt	10/03/88	09/13/88
Start HFT	10/12/88	09/23/88
SIT/ILRT	12/11/88	11/08/88
ESFAS	01/07/89	
Fuel Load	02/28/89	
Initial Criticality	04/10/89	
Full Power Operating License	04/17/89	
Generator Synchronization	04/20/89	
Commercial Operation	06/15/89	

PLANT VOGTLE UNIT 1 AND 2
1988 UNIT 1 AND 2 INTEGRATION
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT

BY

TOM V. GREENE

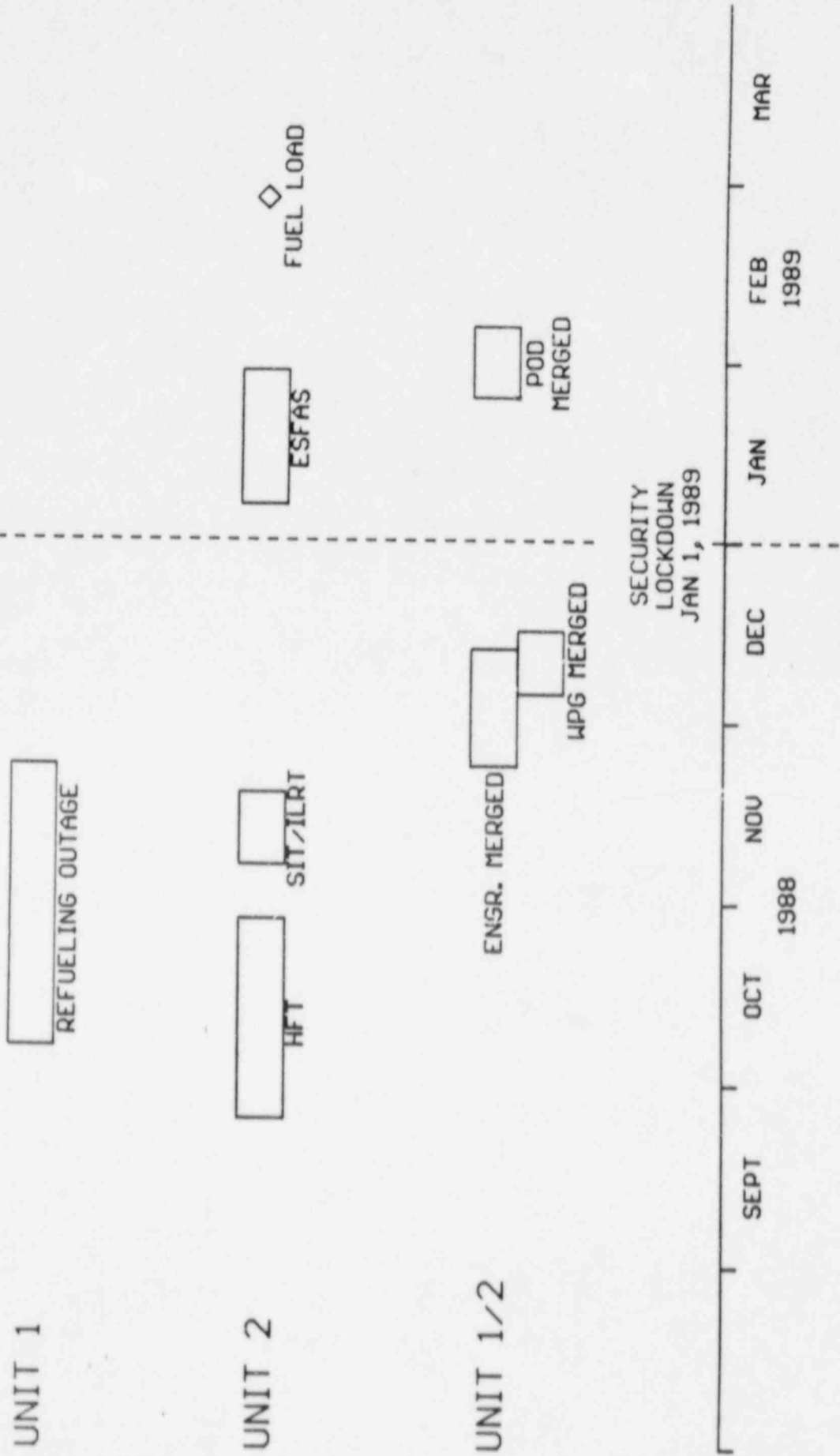
PLANT SUPPORT MANAGER

SEPTEMBER 2, 1988

AGENDA

1. HFT OVERLAP
2. TRANSITION TO 17.2 PROGRAM
3. OPERATIONS ORGANIZATION TRANSITION

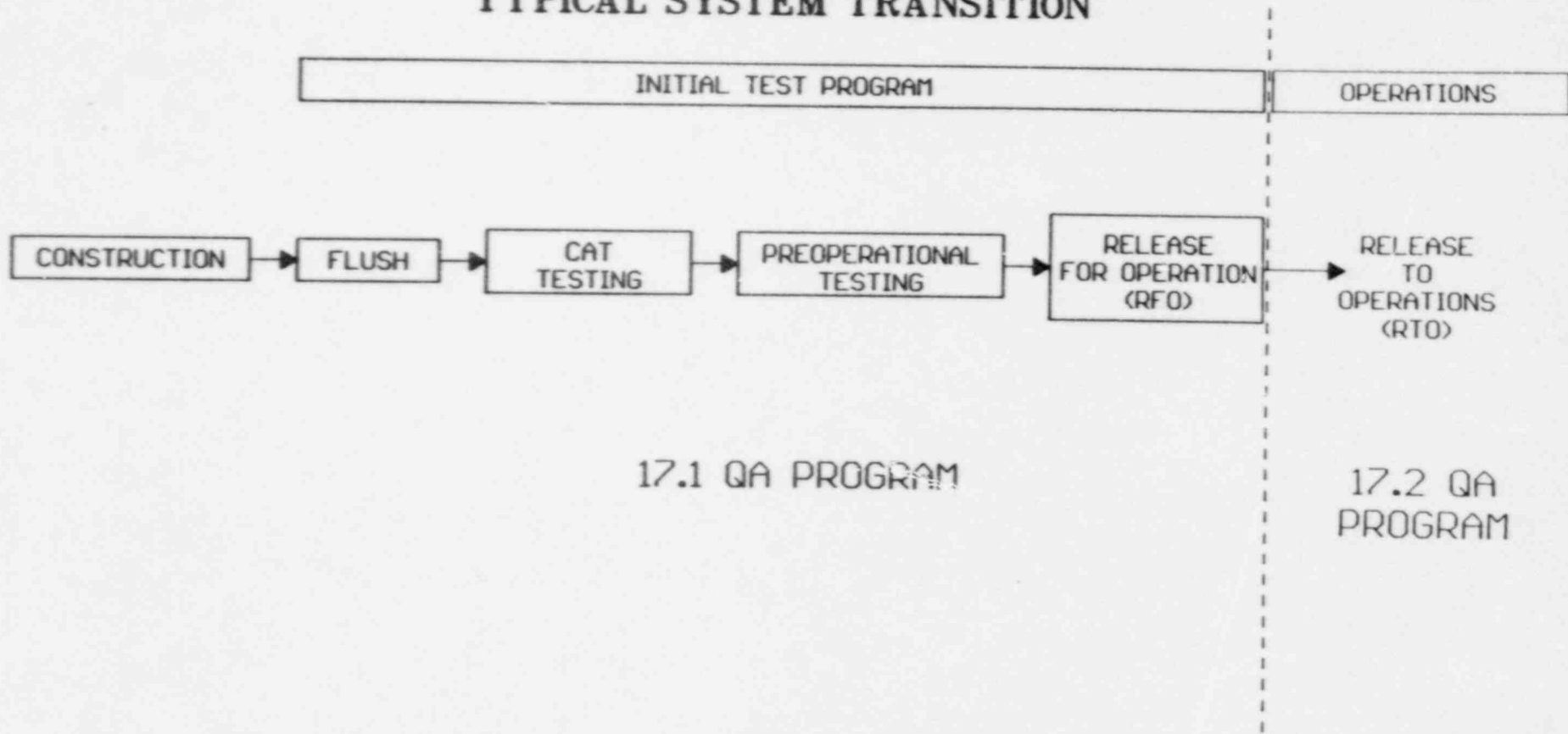
PLANT MILESTONES



SECURITY
LOCKDOWN
JAN 1, 1989

PLANTING

TYPICAL SYSTEM TRANSITION



17.1 QA PROGRAM

RELEASE
FOR OPERATION
(RFO)

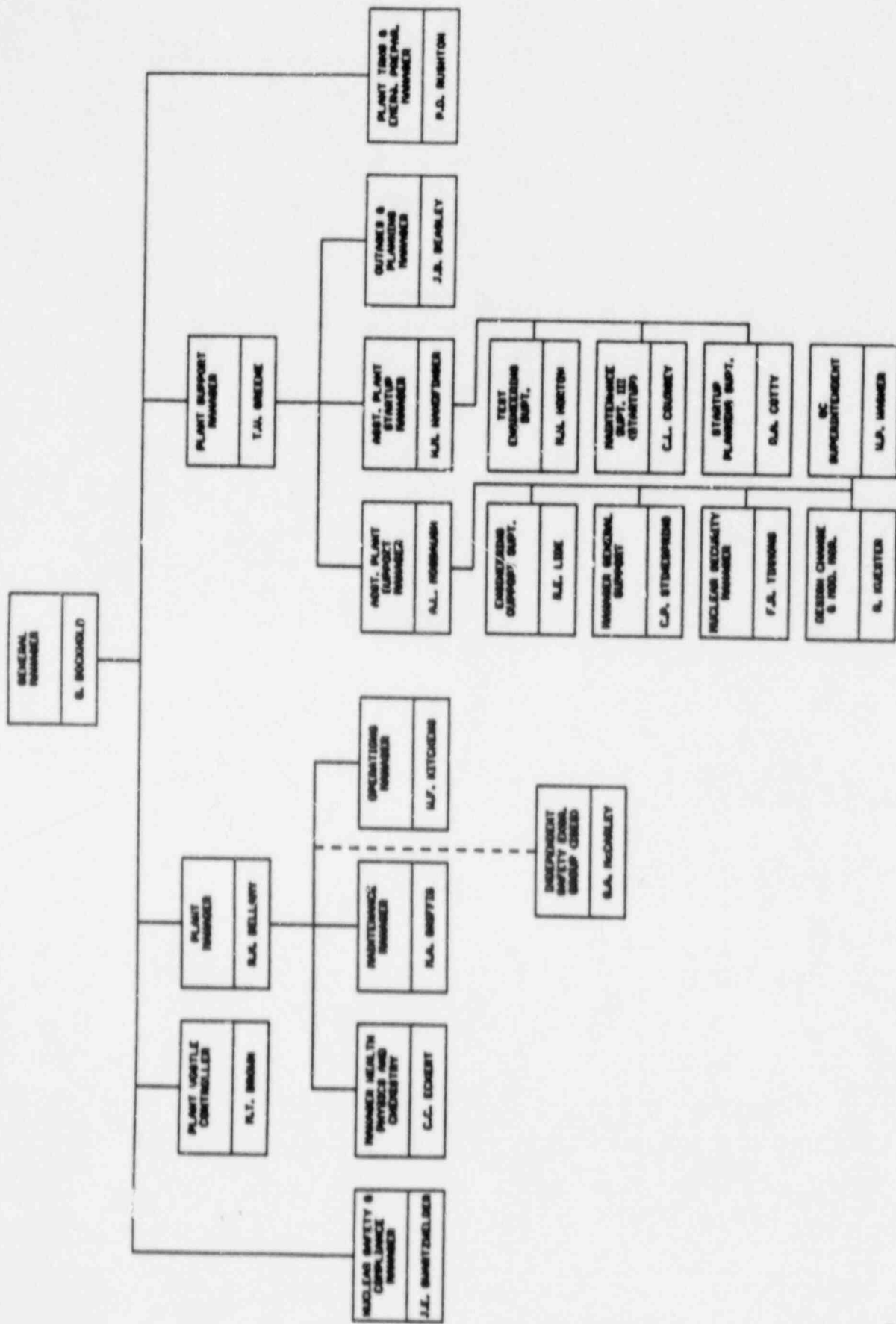
ITP OWNERSHIP
PREOP TESTING
SUM-10 TEMP MODS
SUM-18 DEFICIENCIES
OPS. DEPT PROCEDURES

17.2 QA PROGRAM

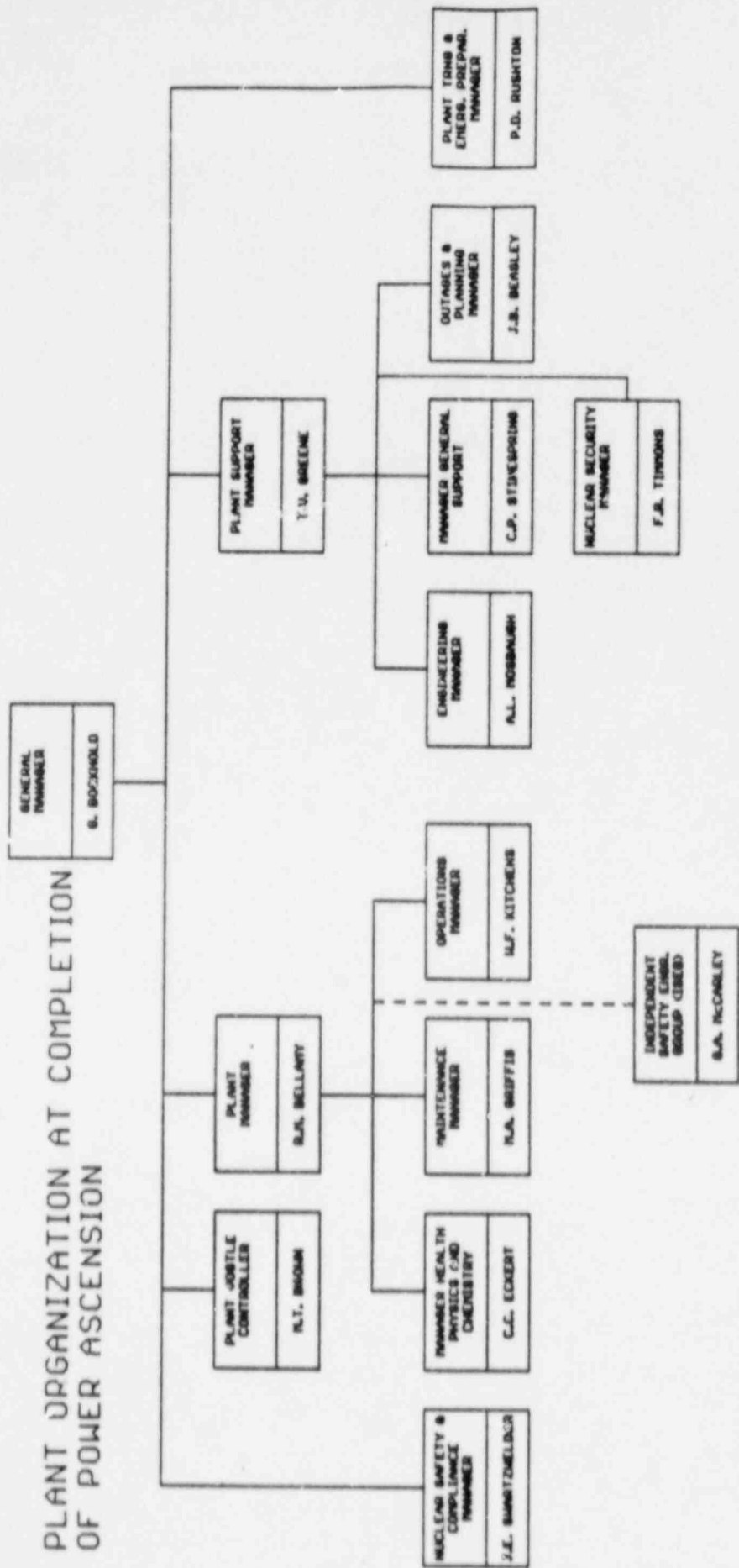
RELEASE
TO OPERATIONS
(RTO)

OPS OWNERSHIP
STARTUP TESTING
00307-C/00400-C MODIFICATIONS
00150-C DEFICIENCY CONTROL
OPS. DEPT PROCEDURES

PLANT ORGANIZATION AT PRESENT



PLANT ORGANIZATION AT COMPLETION OF POWER ASCENSION



PLANT VOGTLE UNIT 1 AND 2
1988 READINESS FOR UNIT 2 OPERATIONS
PRESENTATION TO NRC/
GEORGIA POWER MANAGEMENT

BY

R. MIKE BELLAMY

PLANT MANAGER

SEPTEMBER 2, 1988

AGENDA

1. UNIT 2 INVOLVEMENT

2. SUMMARY

INVOLVEMENT IN UNIT 2

- TVG - INTEGRATION PLAN
- EXISTING UNIT 2 TEST PERSONNEL ARE NUCLEAR OPS.
- OPERATIONS DEPT. IS EFFECTIVELY MERGED

UNIT 2 LESSONS LEARNED

- SCHEDULE ACCURACY
- CLEANER SYSTEMS

UNIT 1 LESSONS LEARNED

- IMPROVEMENT IN PERFORMANCE
- OPEN TO FEEDBACK
- MOTIVATED TO LEARN