



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

AUG - 7 1992

Docket Nos. 50-445
50-446
License No. NPF-87
Construction Permit No. CPPR-127

TU Electric
ATTN: W. J. Cahill, Jr., Group Vice President
Nuclear Engineering and Operations
Skyway Tower
400 North Olive Street, L.B. 81
Dallas, Texas 75201

Gentlemen:

SUBJECT: TU ELECTRIC PRESENTATION TO THE NRC ON THE STATUS OF UNIT 2

This refers to the meeting, open to public observation, conducted at NRC Region IV's request at the Comanche Peak Steam Electric Station (CPSES) Personnel Processing Center on July 29, 1992. This meeting related to activities authorized by NRC Construction Permit No. CPPR-127 for CPSES, Unit 2, and was attended by those on the attached Attendance List. The subjects discussed at this meeting are described in the enclosed Meeting Summary. It is our opinion that this meeting was beneficial and has provided a better understanding of the overall status of Unit 2.

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 will be placed in the NRC's Public Document Room.

Should you have any questions concerning this matter, we will be pleased to discuss them with you.

Sincerely,

A. Bill Beach, Director
Division of Reactor Projects

Enclosure:
Meeting Summary w/attachments

cc w/enclosure: (see next page)

9208190161 920807
PDR ADJCK 05000446
A PDR

LEAS
111

TU Electric

-2-

cc w/enclosure:
TU Electric
ATTN: Roger D. Walker, Manager of
Regulatory Affairs for Nuclear
Engineering Organization
Skyway Tower
400 North Olive Street, L.B. 81
Dallas, Texas 75201

Juanita Ellis
President - CASE
1426 South Polk Street
Dallas, Texas 75224

GDS Associates, Inc.
Suite 720
1850 Parkway Place
Marietta, Georgia 30067-8237

TU Electric
Bethesda Licensing
3 Metro Center, Suite 610
Bethesda, Maryland 20814

Jorden, Schulte, and Burchette
ATTN: William A. Burchette, Esq.
Counsel for Tex-La Electric
Cooperative of Texas
1025 Thomas Jefferson St., N.W.
Washington, D.C. 20007

Newman & Holtzinger, P.C.
ATTN: Jack R. Newman, Esq.
1615 L. Street, N.W.
Suite 1000
Washington, D.C. 20036

Texas Department of Labor & Standards
ATTN: G. R. Bynog, Program Manager/
Chief Inspector
Boiler Division
P.O. Box 12157, Capitol Station
Austin, Texas 78711

Honorable Dale McPherson
County Judge
P.O. Box 851
Glen Rose, Texas 76043

TU Electric

-3-

Texas Radiation Control Program Director
1100 West 49th Street
Austin, Texas 78756

Owen L. Thero, President
Quality Technology Company
Lakeview Mobile Home Park, Lot 35
4793 E. Loop 820 South
Fort Worth, Texas 76119

TU Electric

-4-

AUG - 7 1992

bcc to DMB (IE45)

bcc distrib. by RIV:
J. L. Milhoan
DRP
Section Chief (DRP/B)
DRSS-RPEPS
MIS System
RIV File

Resident Inspector (2)
DRs
Project Engineer (DRP/B)
Lisa Shea, RM/ALF, MS: MNBB 4503
RSTS Operator
C. Hrabal

*RIV:APE:DRP/B
CAHrabal
8/6/92

*C:DRP/B
LAYandell
8/6/92

*DD:DRP
TPGwynn
8/6/92

D:DRP
ABBeach
8/7/92

*previously concurred

MEETING SUMMARY

Licensee: TU Electric
Facility: Comanche Peak Steam Electric Station (CPSES), Unit 2
Construction Permit No.: CPPR-127
Docket No. 50-446
Subject: NRC QUARTERLY PRESENTATION

On July 29, 1992, at the CPSES Personnel Processing Center, representatives of TU Electric presented to Region IV and Office of Nuclear Regulation personnel their quarterly Unit 2 update of their status and scheduled activities. This meeting was open to public observation.

TU Electric addressed the following subjects:

- Overall Unit 2 project status
- Licensing status
- Engineering status
- Construction status
- Startup status
- Operations status
- Overview activities status

Attachments:

1. Attendance List
2. Quarterly Presentation (NRC Public Document Room only)

ATTENDANCE LIST

Attendance at the meeting between TU Electric and NRC on July 29, 1992, at the Unit 2 Quarterly Presentation was as follows:

TU Electric

J. Audas, SAFETEAM
J. Blunu, Planner/Schedules
M. Blevins, Director of Nuclear Overview
R. Braddy, Unit 2 Project Engineering Manager
H. Bruner, Senior Vice President
W. Cahill, Jr., Group Vice President, Nuclear Operations
F. Castrichini, Project Controls Manager
F. Cast, Project Controls Manager
R. Cloud, RLCA
D. Corbitt, Construction
D. Daly, Startup Manager
G. Edgar, N & H
H. Finkelman, Project Controls
D. Fiorelli, Public Information
J. French, IAG Member
W. Guldemon, Manager, ISEG
S. Harrison, Manager, Unit 2 Overview
L. Haltom, Senior Engineer, Reg. Evaluation
J. Hicks, Project Manager, Regulatory Support
T. Hope, Unit 2 Licensing Manager
J. Houchen, Unit 2 Transition
J. Kelley, Plant Manager
D. Kross, Unit 2 Operations Manager
J. Lee, Public Information
E. Magilley, Unit 2 QC Assistant Manager
D. McAfee, Manager, Quality Assurance (QA)
D. Moore, Unit 2 Transition
W. Nyer, IAG
P. Olson, Unit 2 Operations HFT Manager
S. Palmer, Stipulation Manager
D. Pendleton, Unit 2 Project Manager, Regulatory Services Manager
C. Rau, Unit 2 Project Manager
J. Ray, Unit 2 Project Manager
A. Scott, Vice President, Nuclear Operations
H. Schmidt, Director, Nuclear Services
B. Spangler, Project Manager, Rates and Regulation
R. Spence, Quality Control
A. Scott, Vice President, Nuclear Operations
W. Taylor, Executive Vice President, Production
L. Terry, Chief Engineer
R. Walker, Manager of Regulatory Affairs for Nuclear Engineering Organization
D. Webster, TU Manager, Construction
D. Woodlan, Docket Licensing Manager
J. Wren, Construction QA Manager

Attendance List

-2-

CASE

O. Thero, Consultant

NRC

S. Black, Director, Project Directorate IV-2, Office of Nuclear Reactor Regulation (NRR)
L. Callan, Director, Division of Radiation Safety and Safeguards (DRSS)
D. Chamberlain, Deputy Director, Division of Reactor Safety (DRS)
J. Gagliardo, Chief, Test Programs Section, DRS
D. Graves, Senior Resident Inspector, Unit 2, Division of Reactor Projects (DRP)
T. Gwynn, Deputy Director, DRP
E. Hayden, Office of Public Affairs
B. Holian, Project Manager, Unit 2, NRR
C. Hrabal, Acting Project Engineer, Project Section B, DRP
G. Imbro, Special Inspection Branch, NRR
W. Jones, Senior Resident Inspector, Unit 1, DRP
B. Latta, Resident Inspector, Unit 2
J. Milhoan, Region IV Administrator
T. Murley, Director, NRR
J. Partlow, Associate Director for Projects, NRR
T. Reis, Project Engineer, Project Section B, DRP
R. Schaaf, Project Directorate IV-2, NRR
S. Shankman, Region IV Coordinator, Office of the Executive Director for Operations
M. Virgilio, Assistant Director for Regions IV and V, NRR
G. Werner, Resident Inspector, Unit 1
L. Yandell, Chief, Project Section B, DRP

OTHER

R. Coptis, Dallas Morning News

TU Electric

-4-

AUG - 7 1992

bcc to DMB (IE45)

bcc distrib. by RIV:

J. L. Milhoan

DRP

Section Chief (DRP/B)

DRSS-RPEPS

MIS System

RIV File

Resident Inspector (2)

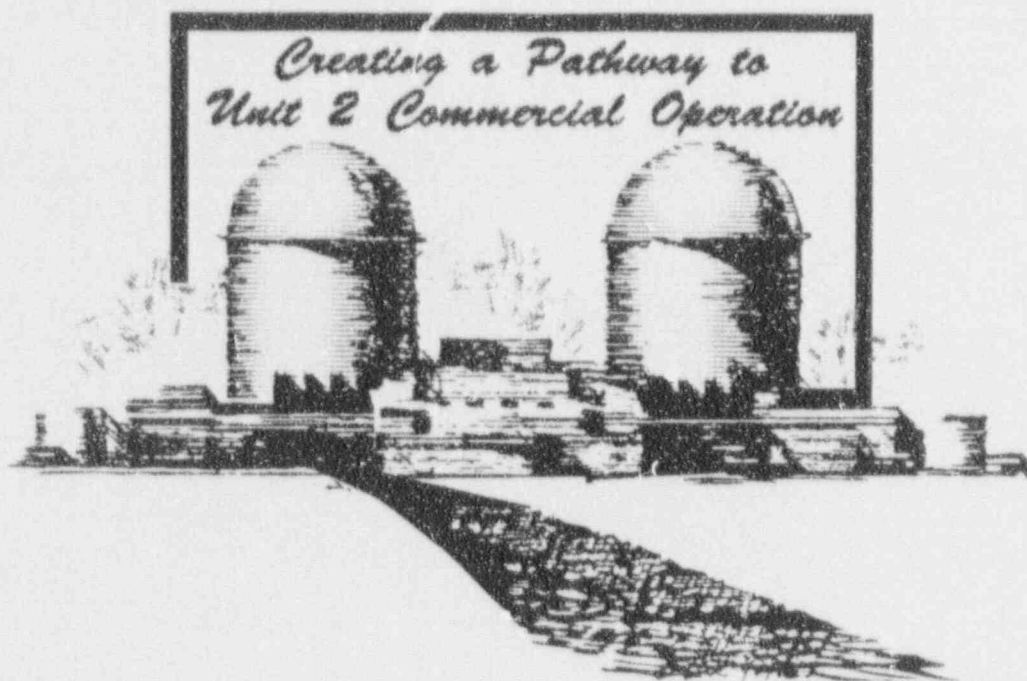
DRS

Project Engineer (DRP/B)

Lisa Shea, RM/ALF, MS: MNBB 4503

RSTS Operator

C. Hrabal



NRC QUARTERLY PRESENTATION

JULY 29, 1992



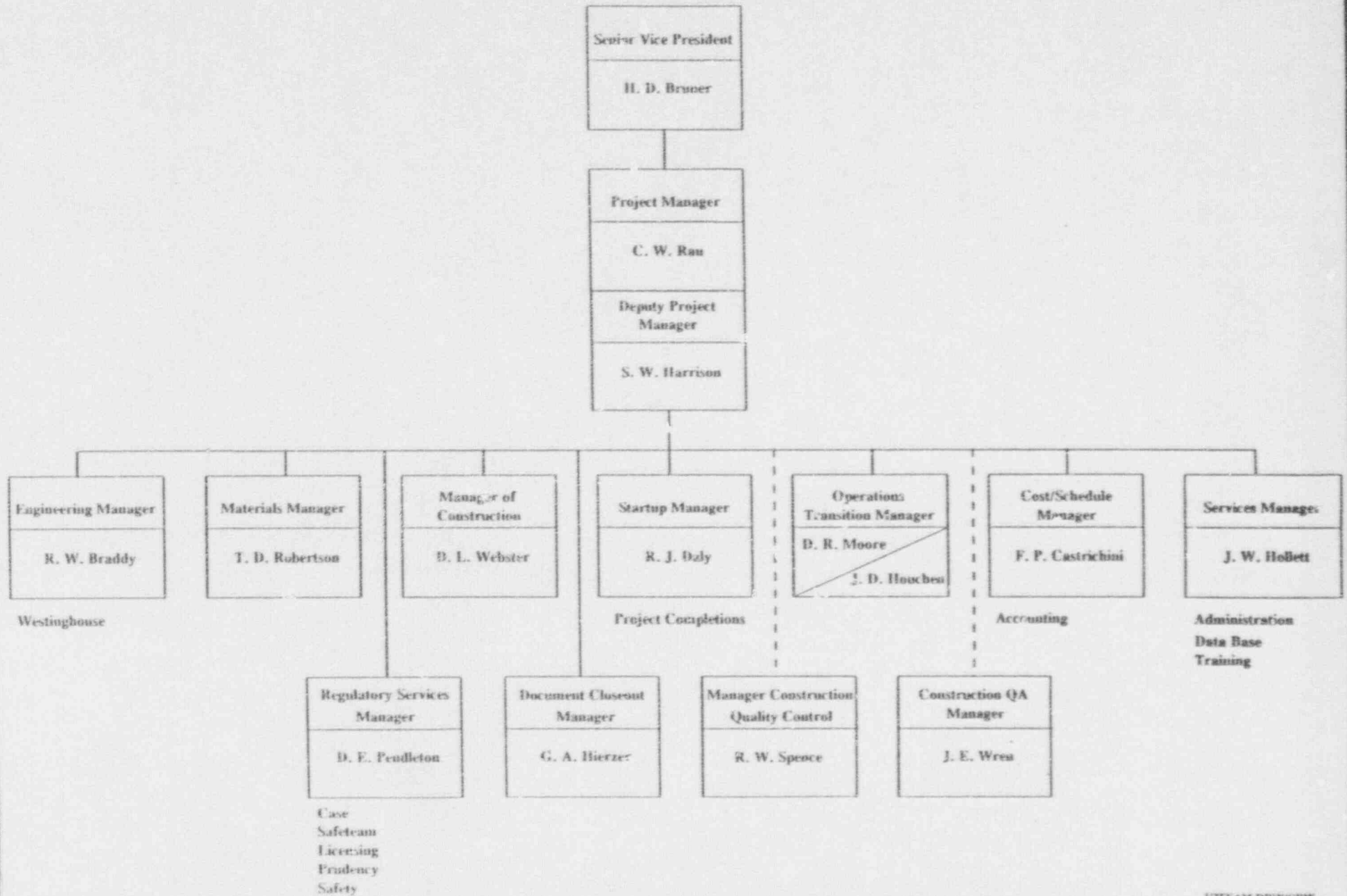
TUELECTRIC



OVERALL STATUS

Unit 2 Project Management

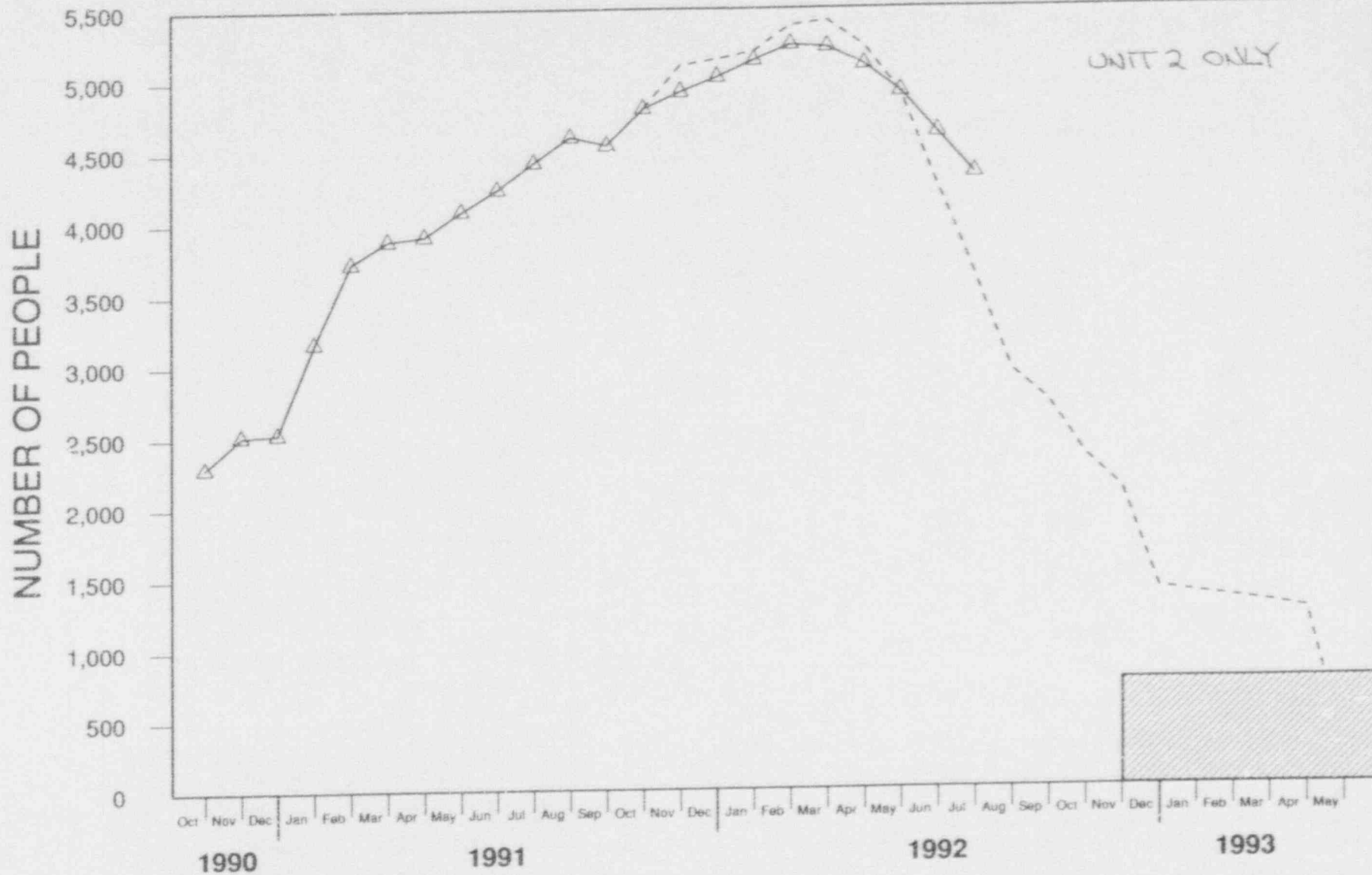
07/15/92



COMANCHE PEAK STEAM ELECTRIC STATION

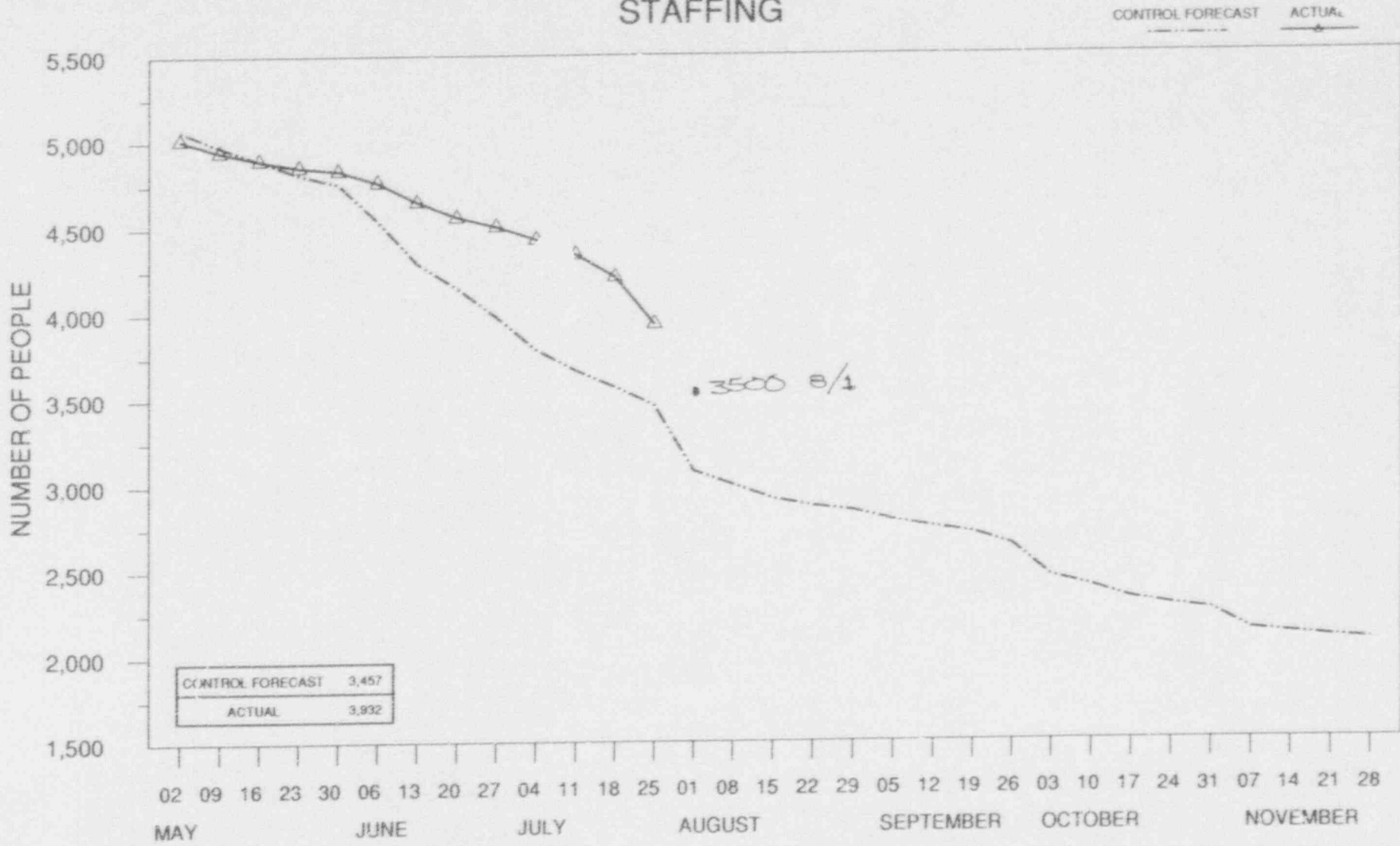
TOTAL PROJECT STAFFING

PERMANENT
PLANT STAFF
CONTROL FCST
ACTUAL



COMANCHE PEAK STEAM ELECTRIC STATION

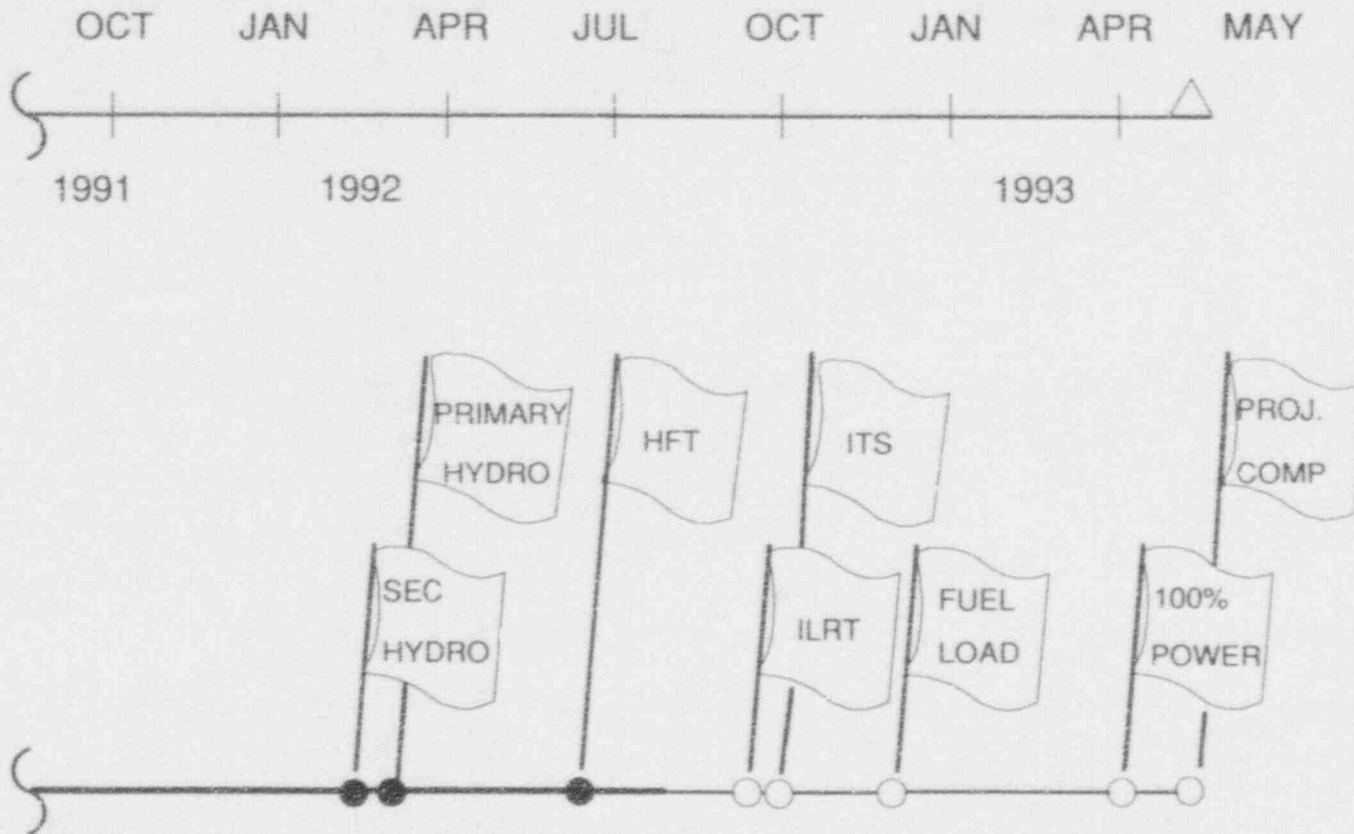
UNIT 2 - TOTAL PROJECT STAFFING



1992

COMANCHE PEAK STEAM ELECTRIC STATION

MILESTONE SCHEDULE



UNIT 2 PROJECT SCHEDULE

	<u>FEB. '90</u>	<u>JULY '92</u>
● PROJECT RESTART	06/01/90	06/01/90A
● CONSTRUCTION RESTART	01/01/91	01/02/91A
● FIRST SYTEM TURNOVER	08/01/91	06/29/91A
● SECONDARY HYDRO	02/28/92	02/07/92A
● PRIMARY HYDRO	04/01/92	03/05/92A
● HFT	07/16/92	07/12/92A
● ILRT/SIT	09/16/92	09/01/91
● FUEL LOAD	01/01/93	12/01/92
● 100% POWER TESTING COMPLETE	06/01/93	04/04/93
● PROJECT COMPLETE	06/01/93	05/01/93

CONSTRUCTION PROJECT SCHEDULE

AS OF 07/18/92

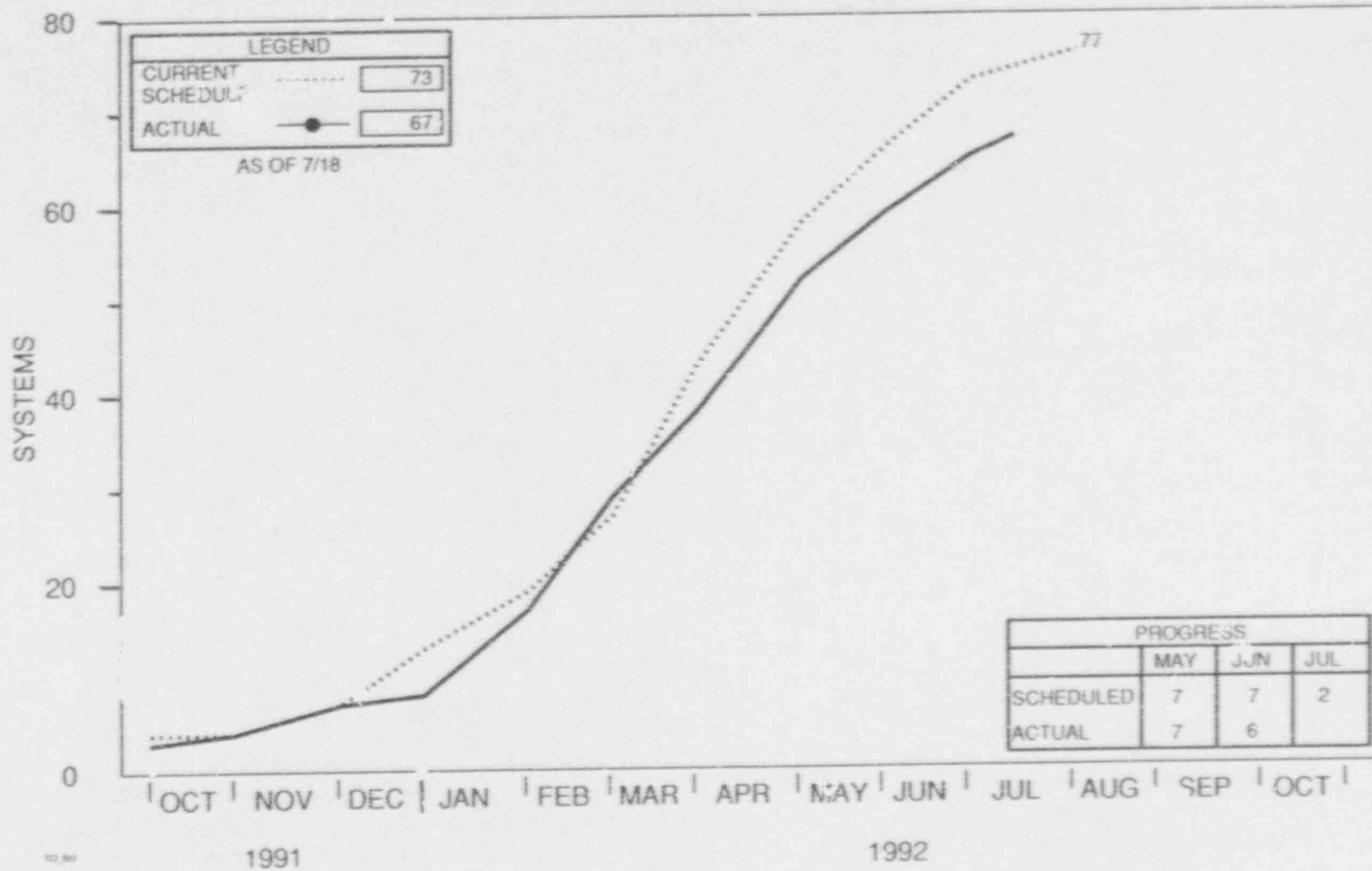
	FEB '90	CURRENT TO GO
BULK COMMODITIES		
CONDUIT	60,000 ft	4,392 ft
CABLE PULLING	478,000 ft	27,312 ft
SEISMIC CONDUIT SUPPORTS	6,000 ea	615 ea
CABLE TRAY SUPPORTS	2,140 ea	248 ea
ASME PIPE SUPPORTS	10,917 ea	127 ea
SAFETY RELATED DUCTWORK	688 ea	0 ea
PENETRATION SEALS	6,000 ea	2,064 ea
SYSTEM TURNOVER	77 ea	10 ea
ROOM/AREA ACCESS CONTROL	211 ea	71 ea

STARTUP PROJECT SCHEDULE

AS OF 07/18/92

	FEB '90	CURRENT TO GO
COMPONENT TESTING	41,300 ea	7,451 ea
FLUSHING	100%	3%
PRE-OP/ACCEPTANCE TEST PERFORMANCE	158 ea	122 ea
TURNOVER TO OPERATIONS	77 ea	71 ea

COMANCHE PEAK STEAM ELECTRIC STATION UNIT 2 SYSTEM TURNOVERS TO STARTUP

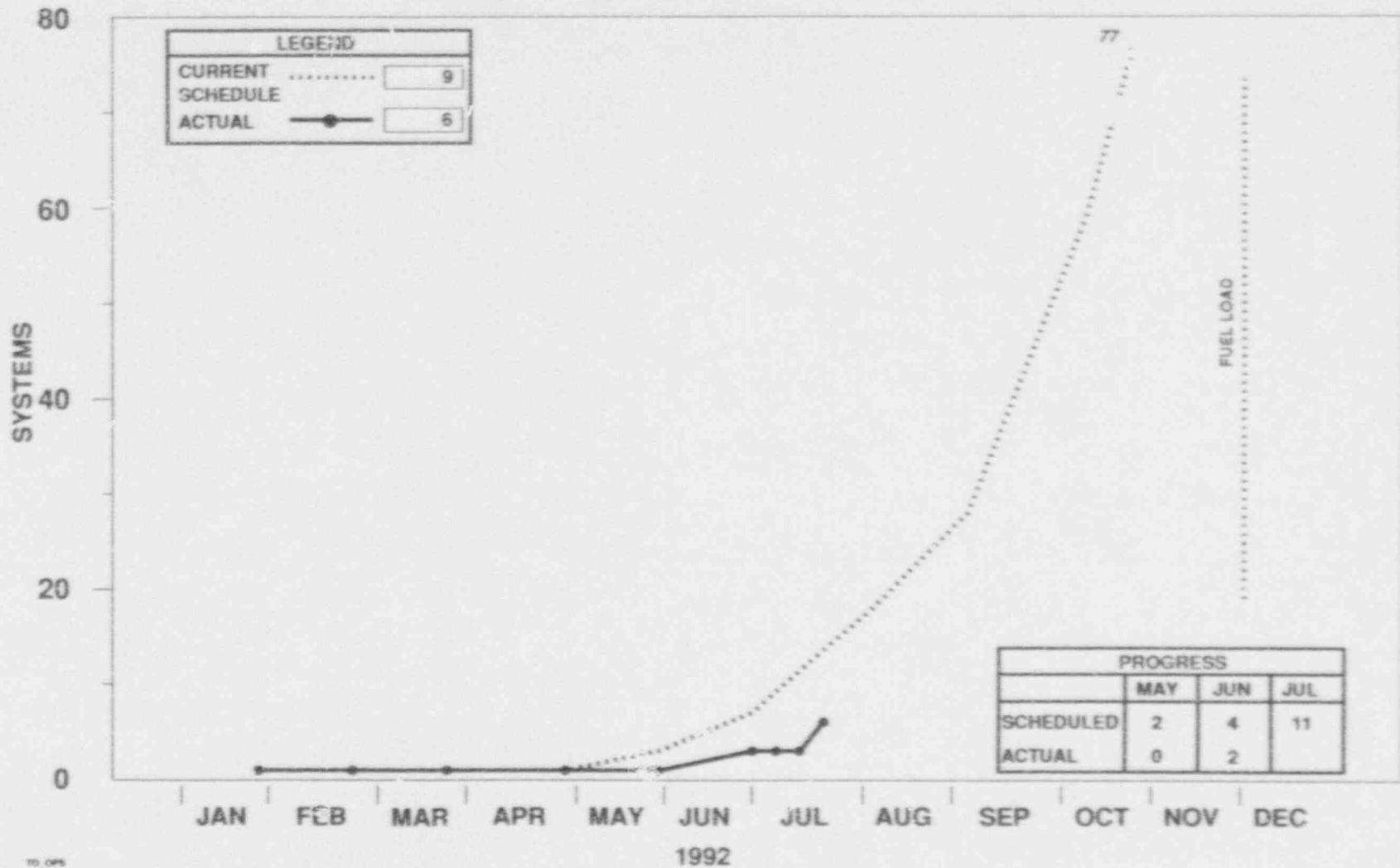


10 90

COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

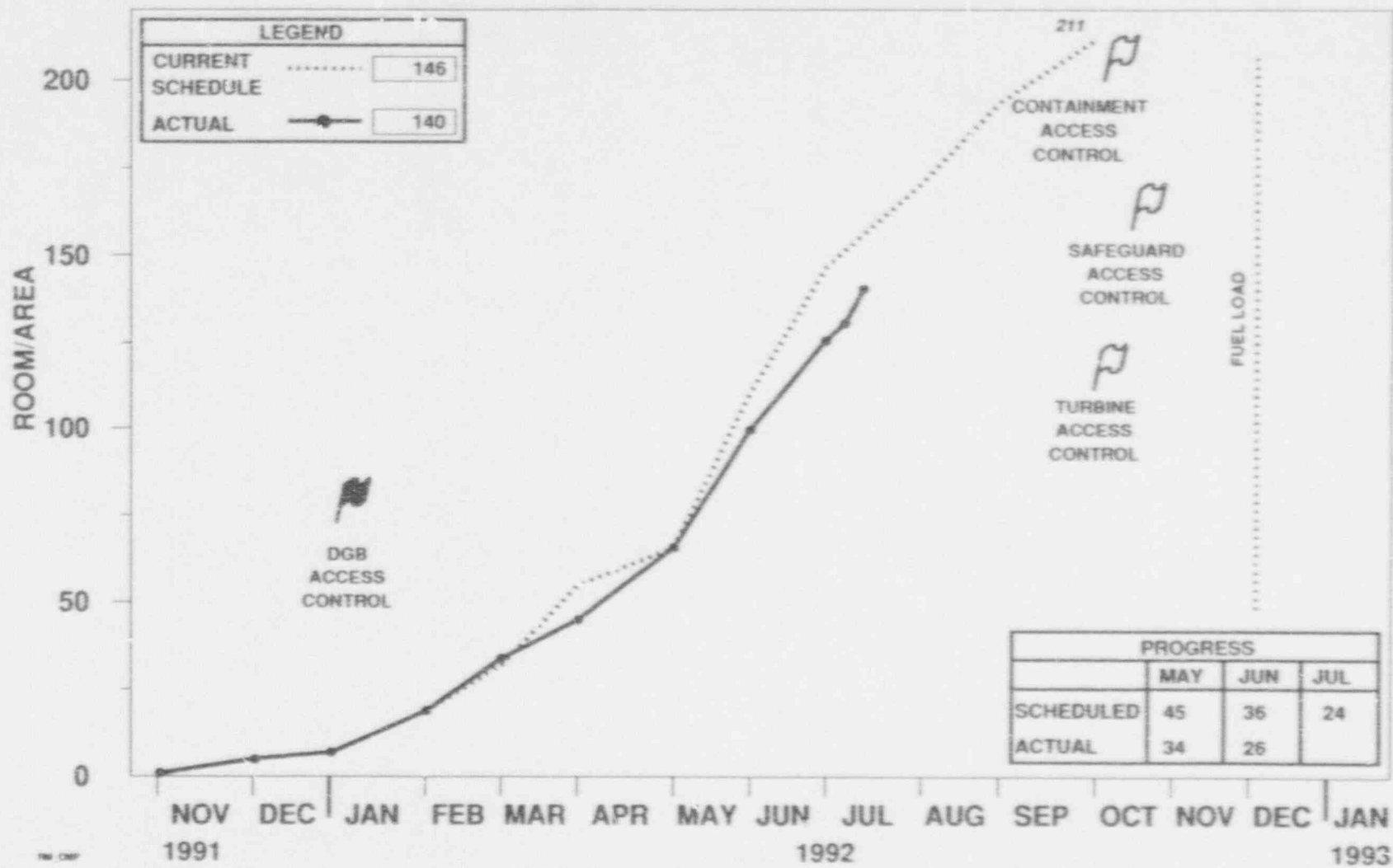
SYSTEM TURNS OVERS TO OPERATIONS



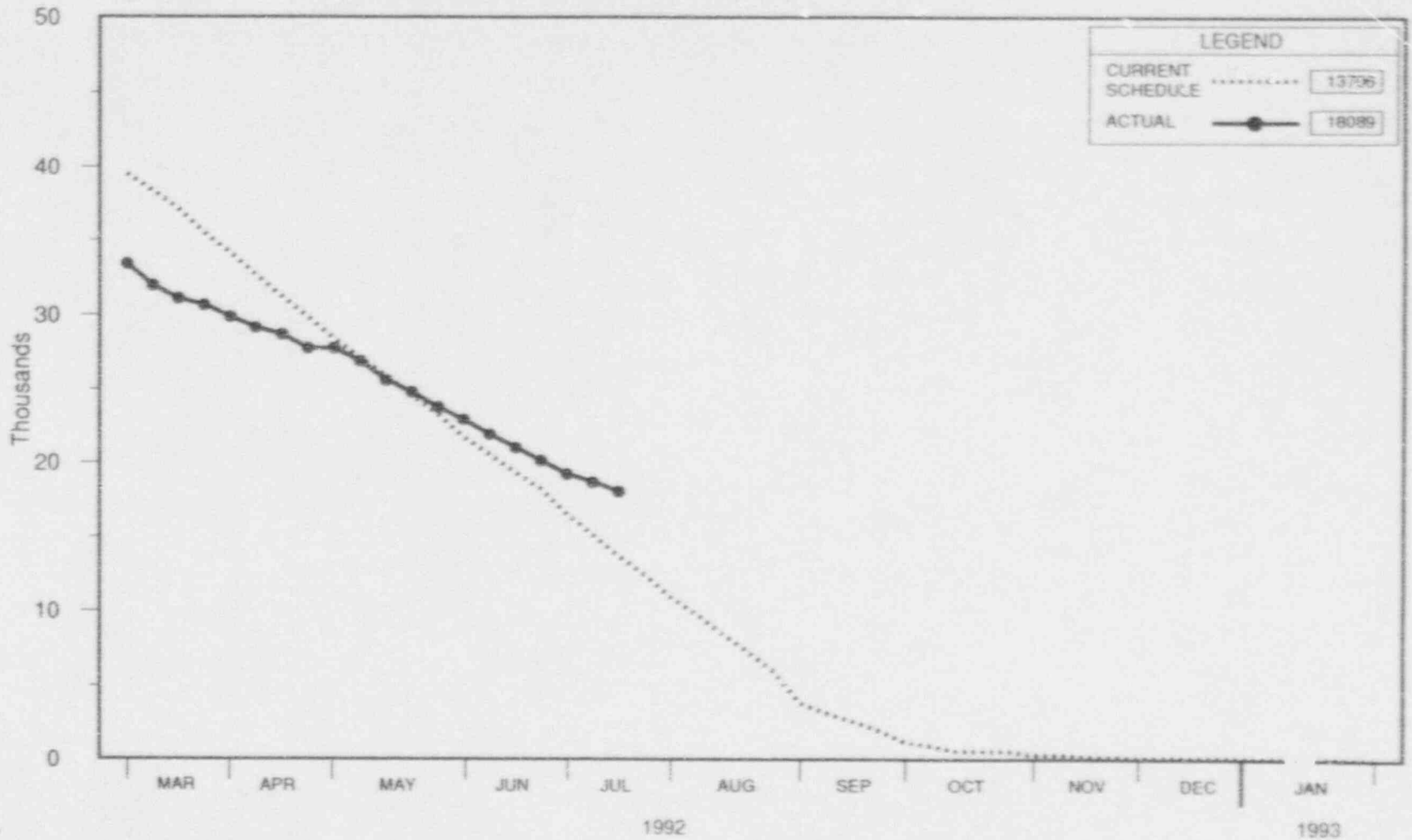
COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

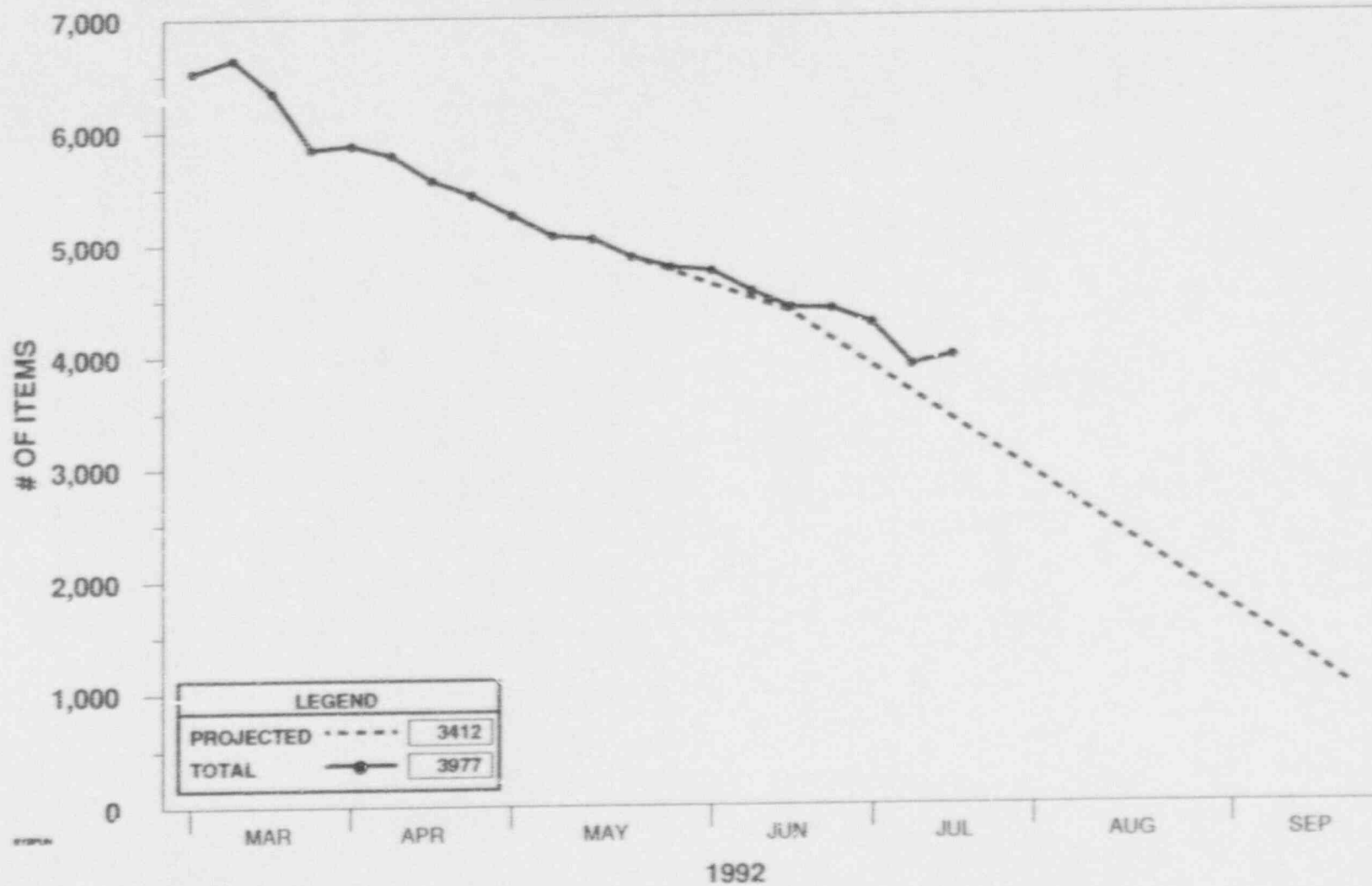
ROOM/AREA COMPLETION SCHEDULE - NOT TURNOVER TO OPS



COMANCHE PEAK STEAM ELECTRIC STATION UNIT 2 TOTAL DOCUMENT WORKOFF



**COMANCHE PEAK STEAM ELECTRIC STATION
UNIT 2
SYSTEM PUNCH LIST**



HIGHLIGHTS

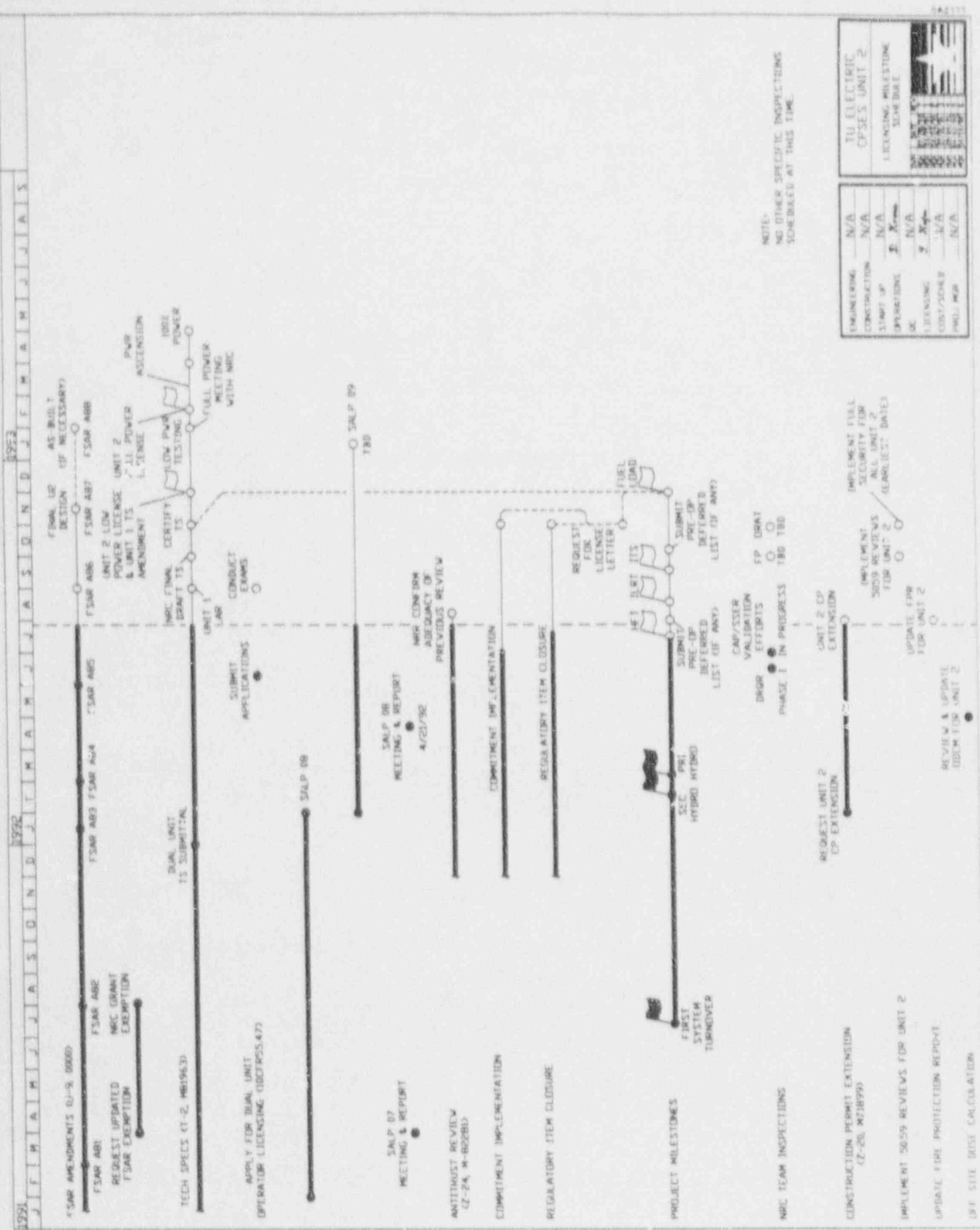
- OPEN VESSEL TESTING COMPLETED
- LEAK TEST COMPLETED ON MAIN GENERATOR
- ALL UNIT 2 FUEL RECEIVED
- CONSTRUCTION COMPLETED COATINGS IN ALL STEAM GENERATOR COMPARTMENTS
- TURBINE ON TURNING GEAR
- COMPLETED CONDENSER VACUUM
- COMMENCED HFT - REACHED 557 DEGREE PLATEAU
- N-5 PROGRAM OVER 20% COMPLETE
- CONTINUED SELF ASSESSMENTS
- 802 PROCESS ENHANCEMENTS
- RECEIPT AND INSTALLATION OF AUX. FEEDWATER PUMP

CHALLENGES

- CONTROLLED MOMENTUM
- SAFETY
- PRE OP TEST RESULTS, REVIEW, AND VAULTING
- PAPERWORK CLOSEOUT
- MOV PROGRAM (89-10)
- HOT FUNCTIONAL TEST
- ~~EMERGENT MATERIAL REQUIREMENTS~~
- BUDGET ASSURANCE
- RF02 INTERFACE PLANNING
- 802 SCHEDULE
- SURVEILLANCE TEST PLANNING
- N-5 PROGRAM
- ITS DETAIL PLANNING
- DIESEL GENERATOR TESTING
- ~~BORG-WARNER VALVES~~
- THERMOLAG



LICENSING STATUS



NOTE:
NO OTHER SPECIFIC INSPECTIONS
SCHEDULED AT THIS TIME.

	N/A	N/A	N/A	N/A	N/A
ENGINEERING	N/A	N/A	N/A	N/A	N/A
CONSTRUCTION	N/A	N/A	N/A	N/A	N/A
START UP	N/A	N/A	N/A	N/A	N/A
OPERATIONS	N/A	N/A	N/A	N/A	N/A
QC	N/A	N/A	N/A	N/A	N/A
LICENSING	N/A	N/A	N/A	N/A	N/A
CONSTRUCTION	N/A	N/A	N/A	N/A	N/A
PHYSICAL	N/A	N/A	N/A	N/A	N/A



1992

JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER DECEMBER

NRR ACTIVITIES

NRC BULLETIN 88-11 SURGE L7-E STRATIFICATION
N-13 M-72124

NRC BULLETIN 88-08 BRANCH LINE STRATIFICATION (EXCLUDING RHR)
N-5 M-81983

HIGH ENERGY LINEBREAK (HEL) UPDATE
U-6 M-81981

CODE & CODE CASE USAGE
U-7 M-81982

CONTROL ROOM DESIGN REVIEW
R-1E M-81984

STATION BLACKOUT RULEMAKING
N-39 A-86

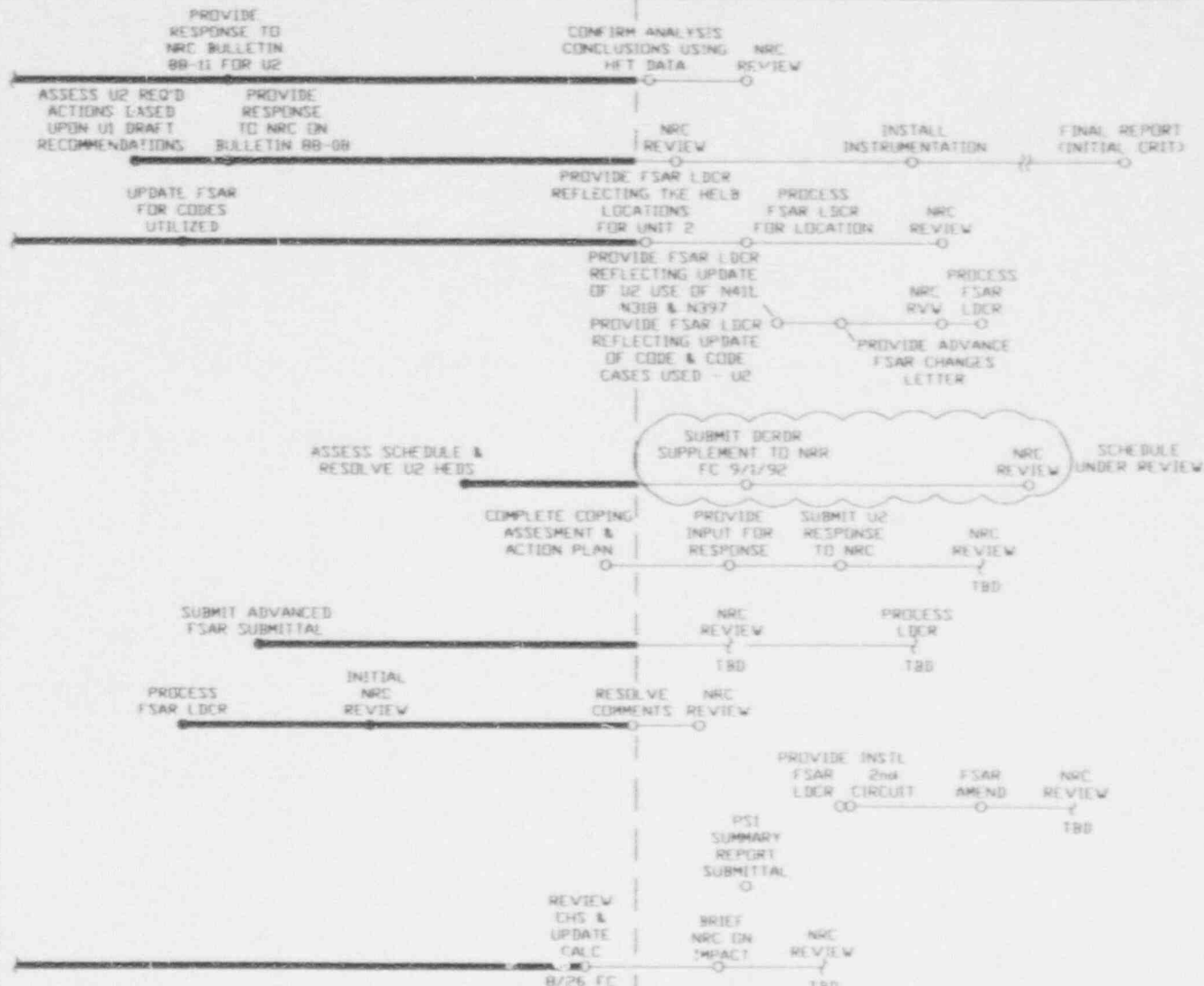
ISU PROGRAM CHANGES
C-36 0000

NEW ANALYSIS COMPUTER CODES
C-21 M-81975

BENBROOK SECOND CIRCUIT FSAR UPDATE
C-24 M-81576

PRE SERVICE INSPECTION
R-4B M-63920

ULTIMATE HEAT SINK STUDY FOR UNIT 2 PLANT
C-39 0000

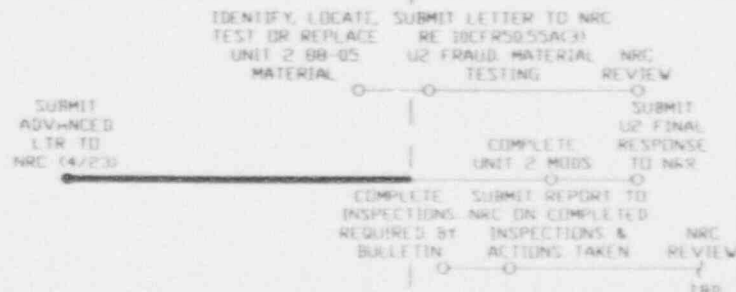


LENCING ACTIVITIES

NRC BULLETIN 88-05 FRAUDULENT PIPING MATERIAL
N-3 M-68755

NRC BULLETIN 88-04 SAFETY RELATED PUMP LOSS
N-10 M-77749

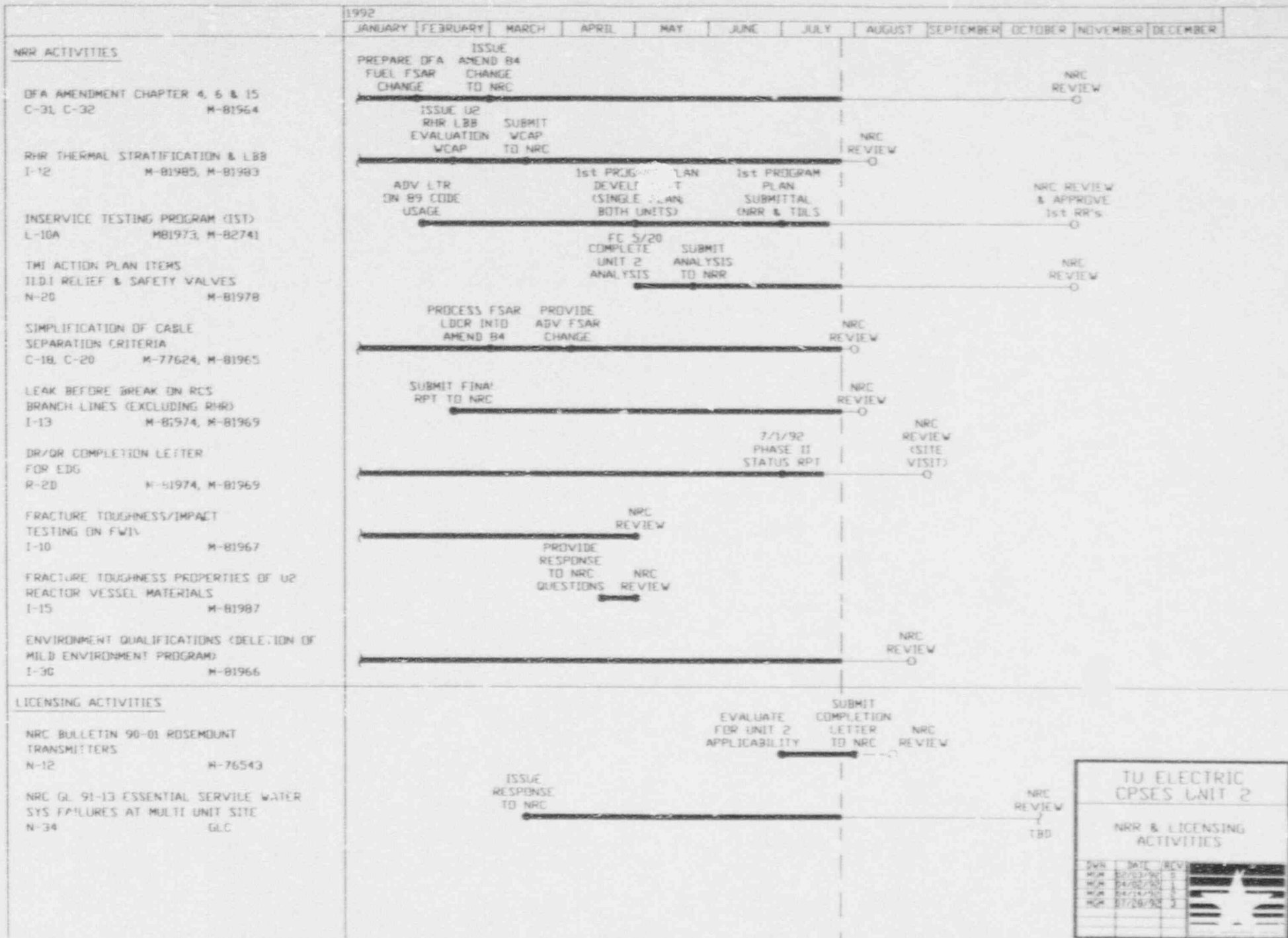
NRC BULLETIN 88-01 DEFECTS IN WESTINGHOUSE CIRCUIT BREAKERS
N-33 GLE



TO ELECTRIC CPSES UNIT 2

NRR & LICENSING ACTIVITIES

DATE	REV
11/17/92	0
11/17/92	1
11/17/92	2
11/17/92	3



TO ELECTRIC CPSES UNIT 2

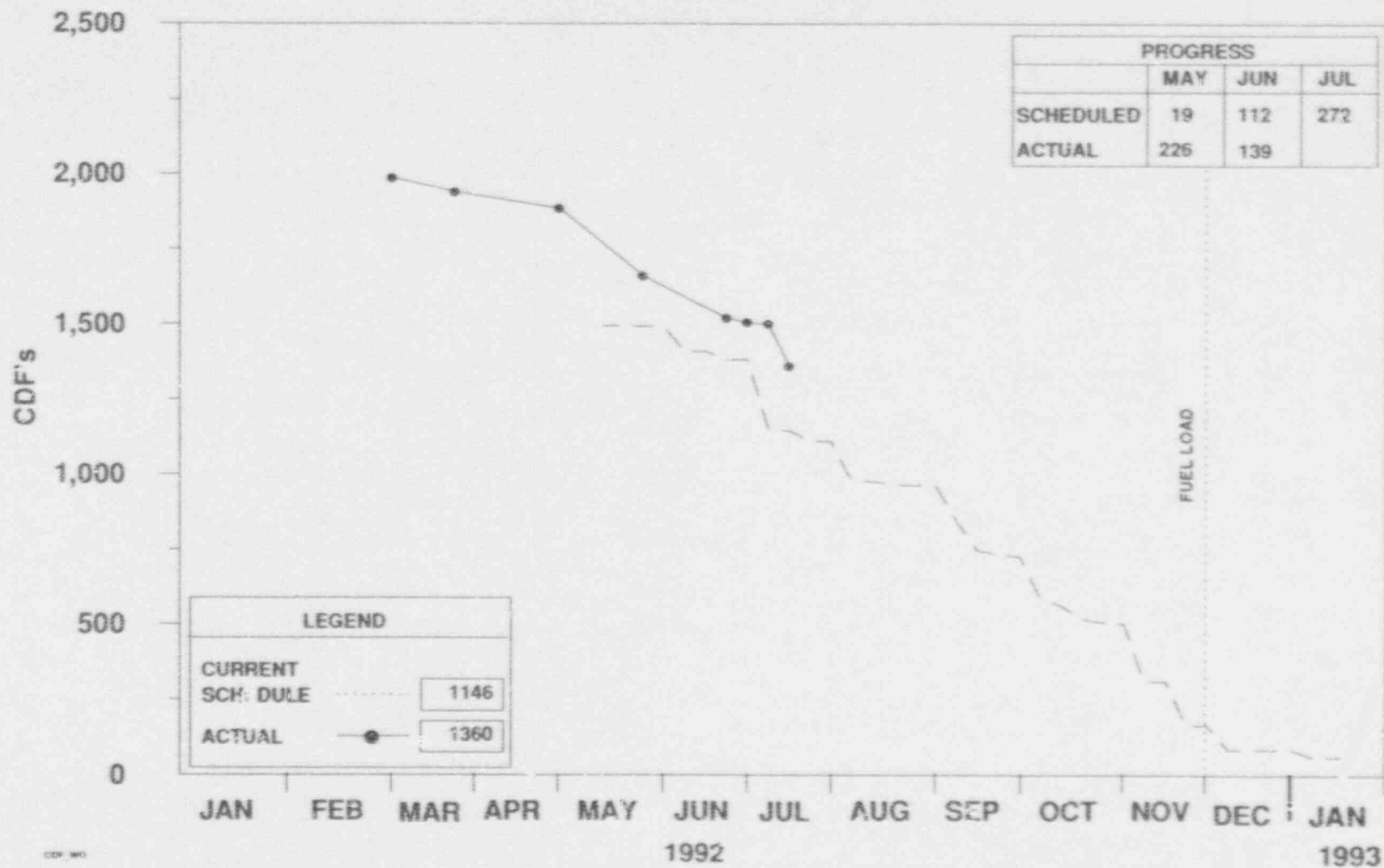
NRR & LICENSING ACTIVITIES

DWR	DATE	REV	
NRC	02/02/92	1	
NRC	04/02/92	1	
NRC	07/26/92	2	

COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

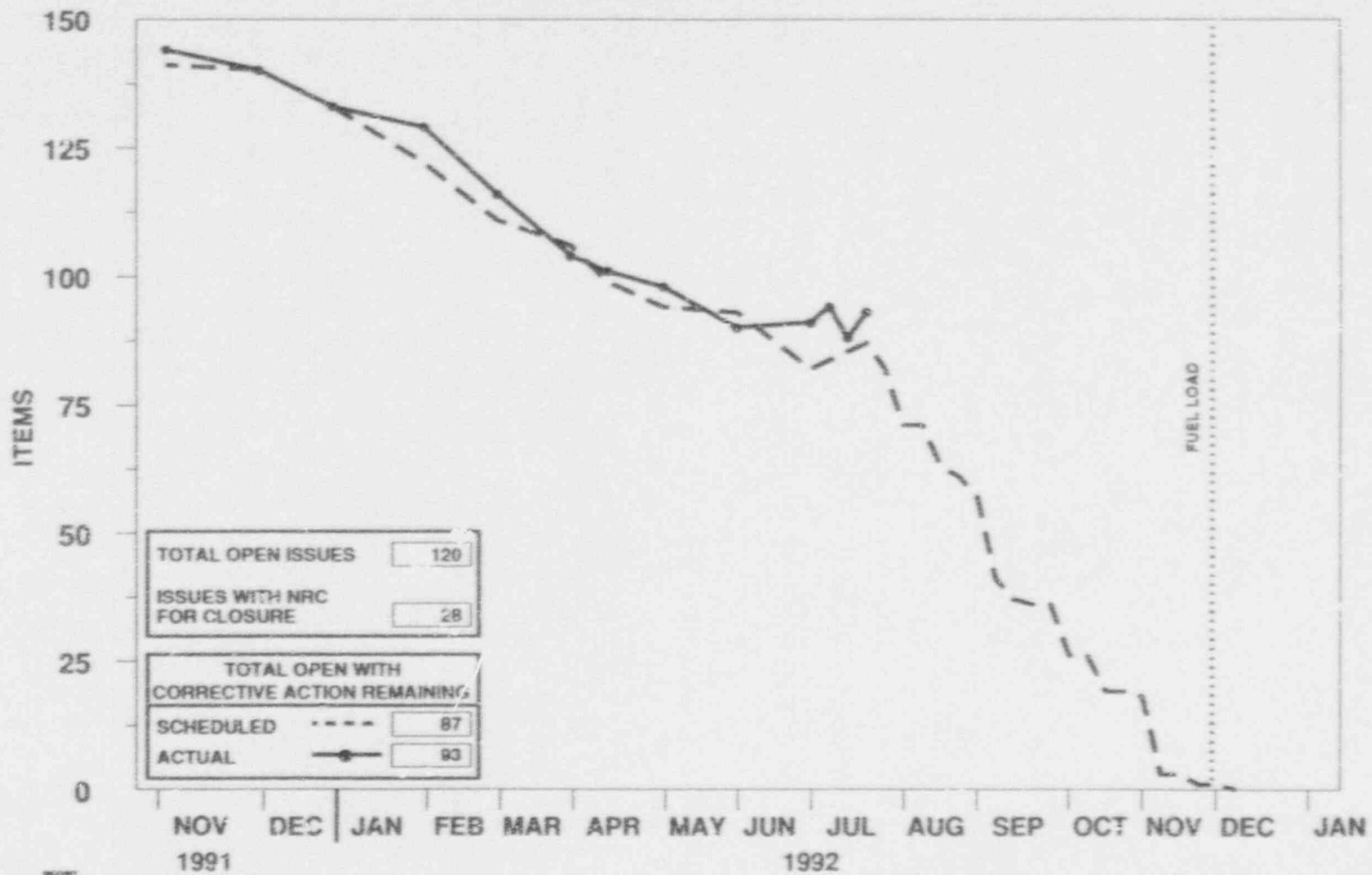
TOTAL CDF WORKOFF



COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

REGULATORY ITEMS



CATEGORIES OF ISSUES READY FOR NRC

PACKAGE WITH RESIDENTS FOR REVIEW	21
ISSUES READY FOR RIV (NO PACKAGE PREPARED, MOSTLY EP ITEMS)	6
NRC INSPECT AT HFT (446/9009-0-03 - INSPECT ACCESSIBLE Rx VESSEL SURROUNDINGS, ESPECIALLY NOZZLES AND SUPPORT AREAS FOR DISTRESS, DEBRIS, CONCRETE CRACKING DURING OR IMMEDIATELY AFTER HFT.	1
	<hr/>
	TOTAL 28

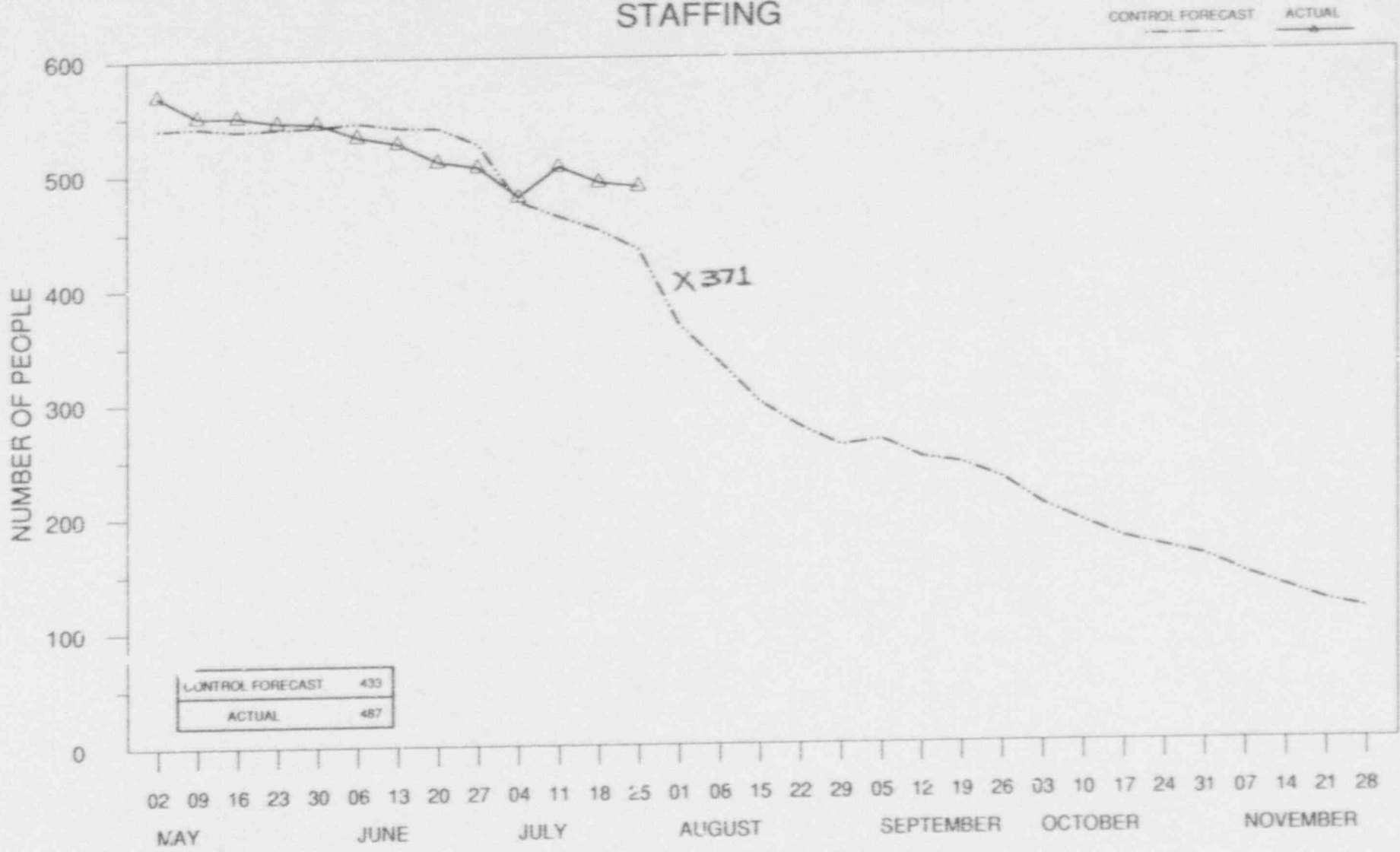
AS OF 07/28/92



ENGINEERING STATUS

Peak 1200

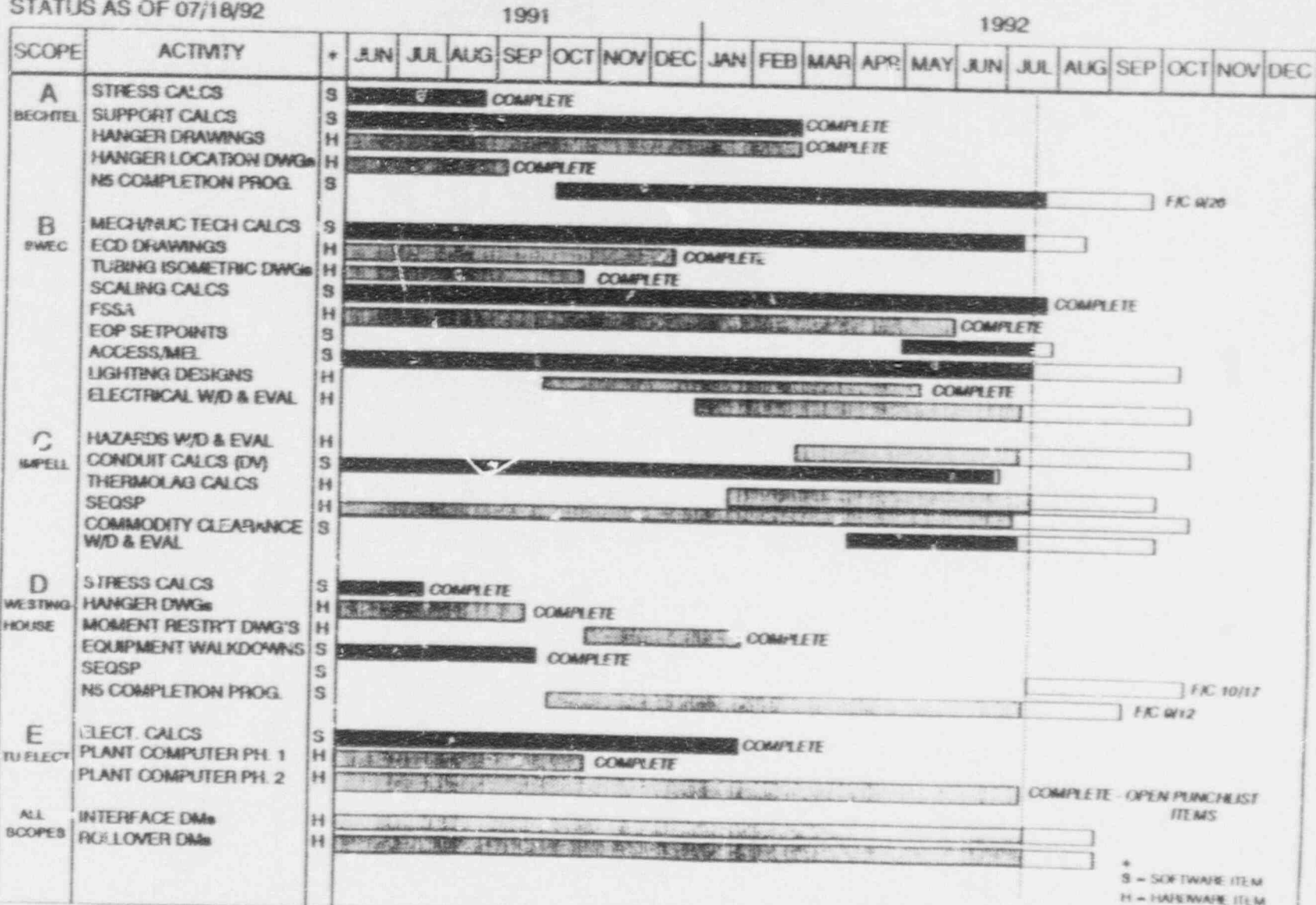
COMANCHE PEAK STEAM ELECTRIC STATION UNIT 2 - ENGINEERING STAFFING



1992

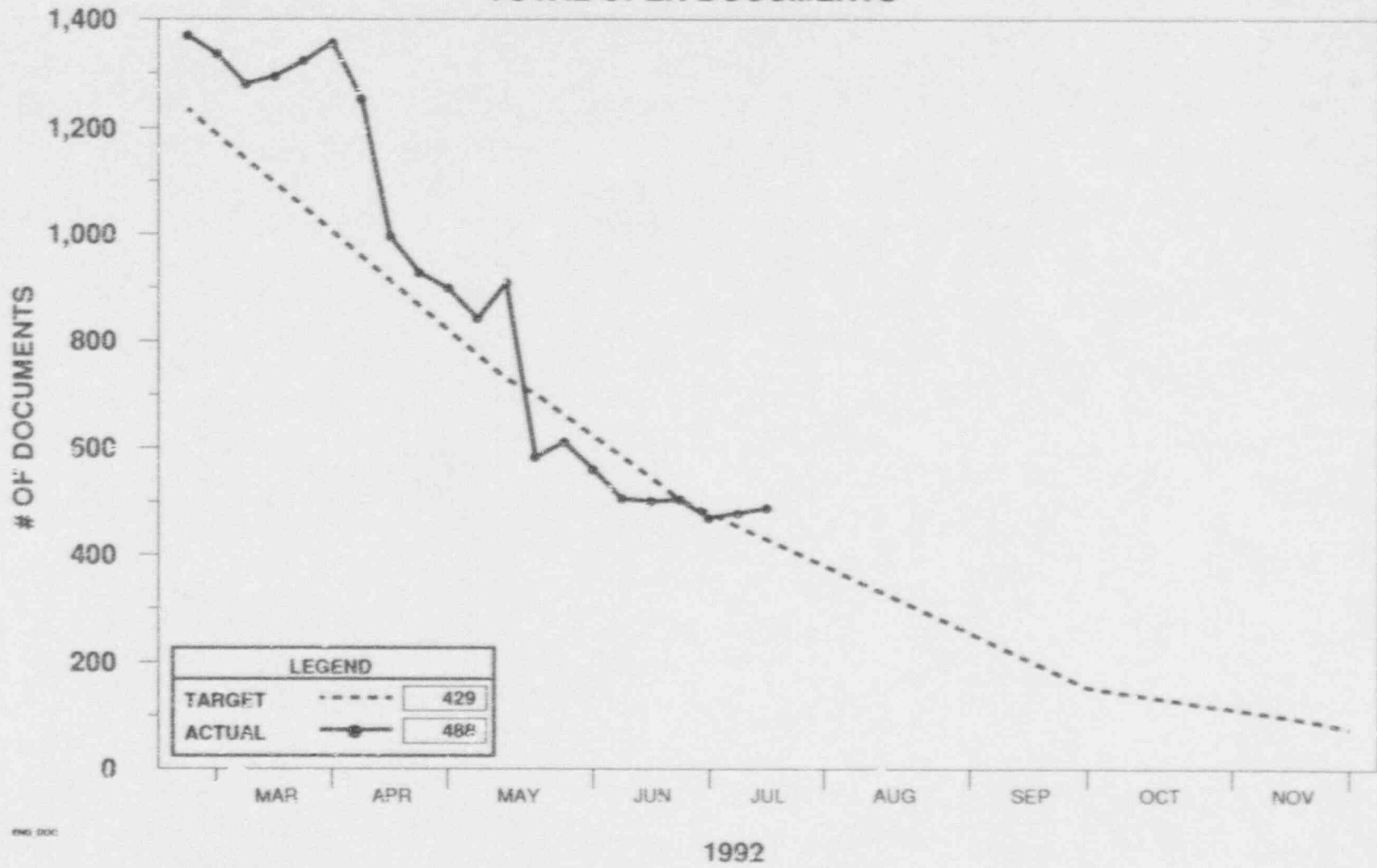
COMANCHE PEAK STEAM ELECTRIC STATION ENGINEERING DEPARTMENT MAJOR ACTIVITY STATUS

STATUS AS OF 07/18/92



*
S - SOFTWARE ITEM
H - HARDWARE ITEM

**COMANCHE PEAK STEAM ELECTRIC STATION
UNIT 2 ENGINEERING
TOTAL OPEN DOCUMENTS**



ENGINEERING HIGHLIGHTS

- **APPROXIMATELY 80% OF ALL STRESS AND SUPPORT CALCULATIONS AND HANGER DRAWINGS RECONCILED**
- **PLANT COMPUTER PHASE II COMPLETED**
- **LIGHTING DESIGNS COMPLETE**
- **SCALING CALCULATIONS COMPLETE**
- **FSSA COMPLETE**
- **HFT T G & V PROGRAM**
- **ENGINEERING DOCUMENT BACKLOG REDUCED TO LESS THAN 2 WEEKS' BACKLOG**
- **ENGINEERING ESSENTIALLY ON DESTAFFING PLAN**
- **ISSUANCE OF 80% OF ALL INTERFACE DESIGN MODS**

ENGINEERING CHALLENGES

- ~~SUPPORTING CONSTRUCTION AND STARTUP
COMPLETION PROGRAM~~
- ~~TRANSITION TO DUAL UNIT ENGINEERING
ORGANIZATION~~
- ~~FIRE HAZARDS ANALYSIS~~
- ~~BACKLOG REDUCTION~~
- DESTAFFING
- N-5 COMPLETION PROGRAM
- THERMOLAG

STATUS OF CPSES THERMO-LAG PROGRAM

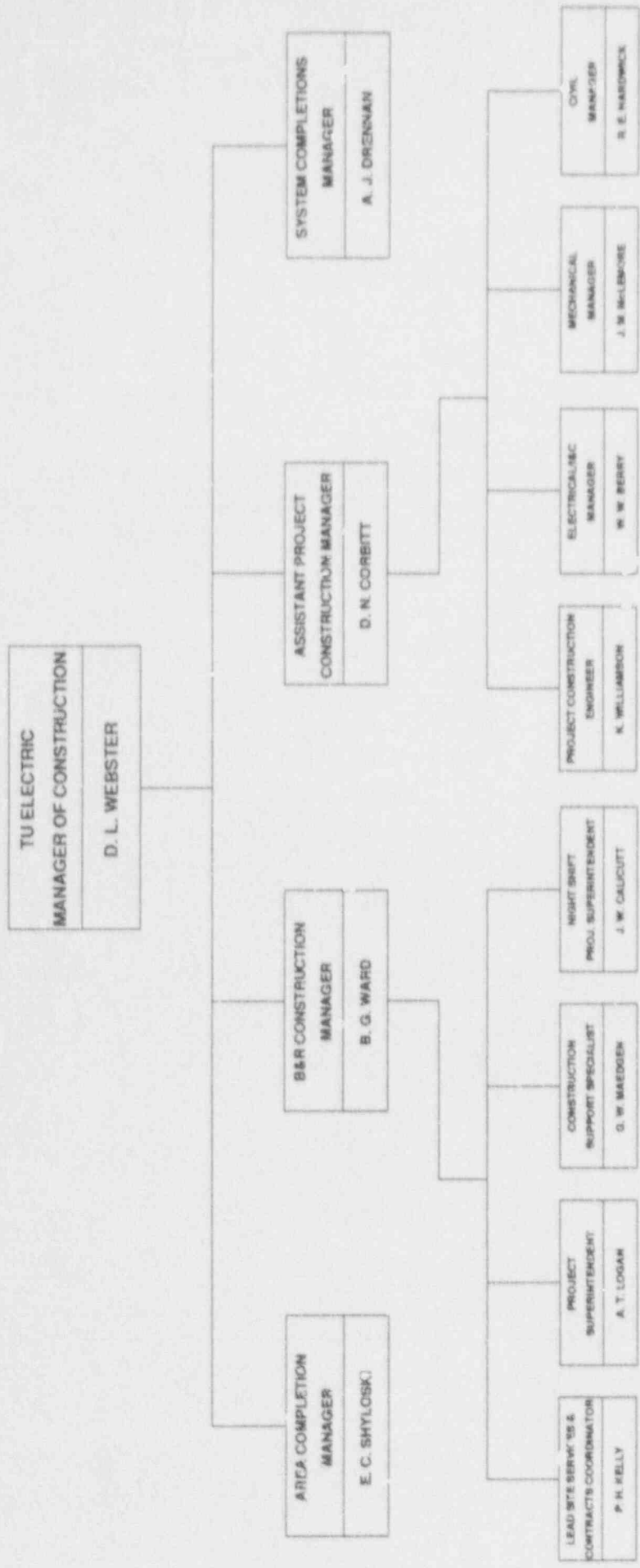
C.L.TERRY - CHIEF ENGINEER

- STATUS OF THERMO-LAG CONFIRMATION PROGRAM
- CPSES INTERFACE WITH NRC ON THERMO-LAG ISSUES
- STATUS OF UNRESOLVED ISSUES



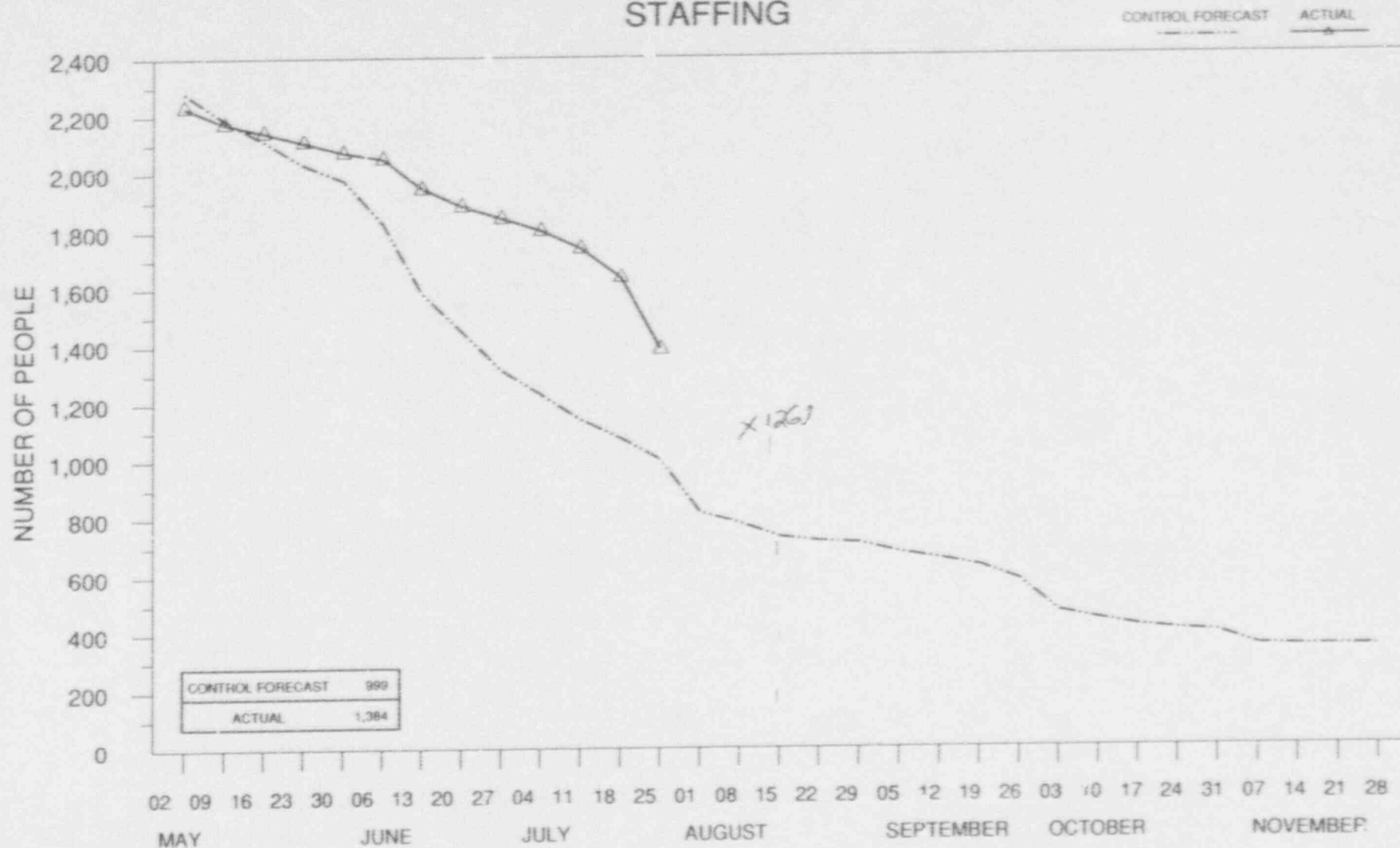
CONSTRUCTION STATUS

UNIT 2 CONSTRUCTION & COMPLETIONS



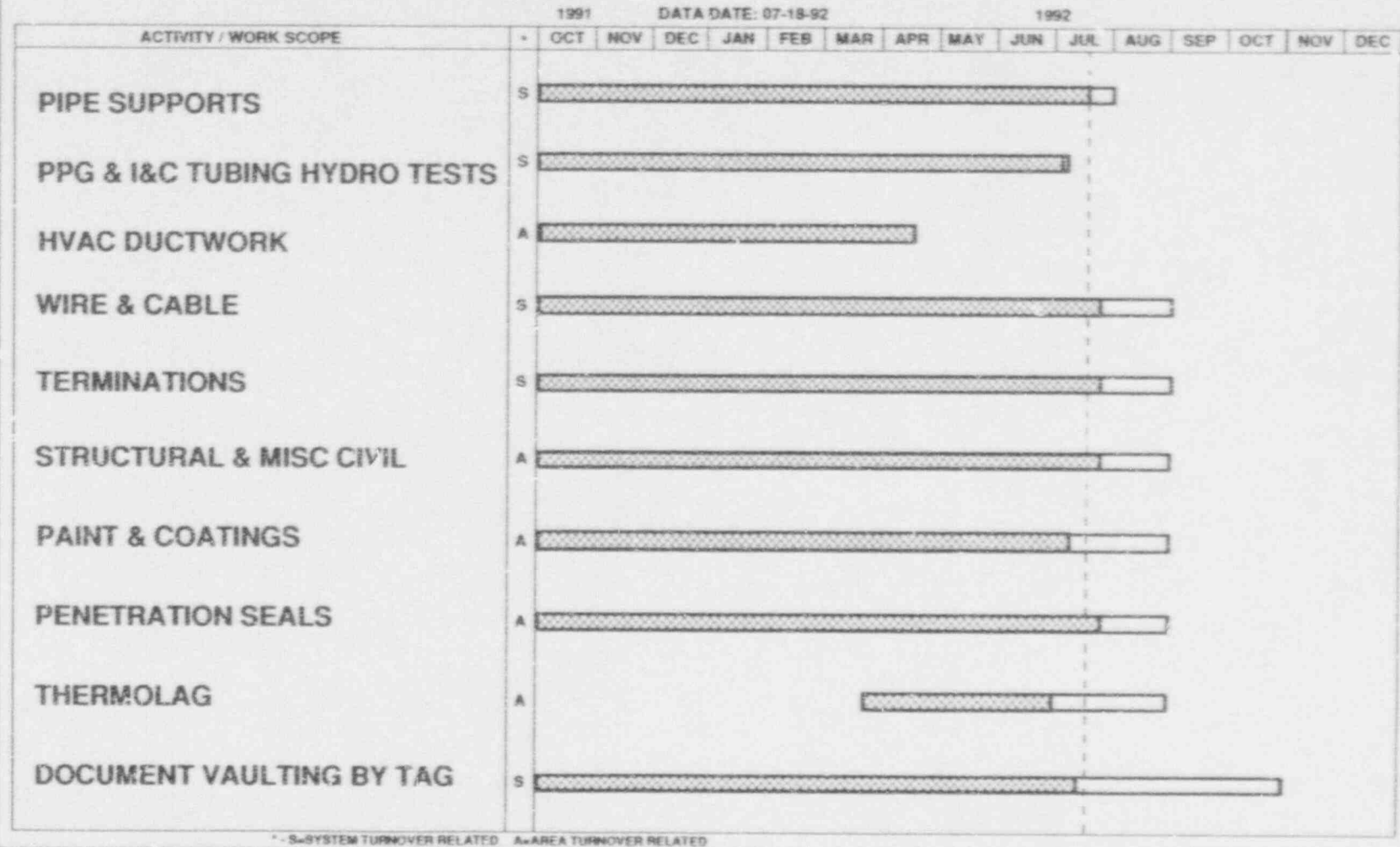
COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2 - TOTAL CONSTRUCTION STAFFING



1992

COMANCHE PEAK STEAM ELECTRIC STATION - UNIT 2 CONSTRUCTION DEPARTMENT - MAJOR ACTIVITIES



CONSTRUCTION HOUSEKEEPING/MATERIAL STORAGE

- ASSIGNMENT OF RESPONSIBILITY TO SPECIFIC PERSONNEL
- CONSTRUCTION MANAGEMENT DAILY WALK THROUGHS
- "GANG BOX" SESSIONS TO REINFORCE NEED TO MAINTAIN HOUSEKEEPING / CLEANLINESS LEVELS
- CONTINUOUS PLANT CLEAN UP IN ALL PLANT AREAS
- FREQUENT REINFORCEMENT DURING TRAINING AND EMPLOYEE MEETINGS
- IMPLEMENTED PROGRAM TO IDENTIFY, DOCUMENT AND RESOLVE DEFICIENCIES
- PERIODIC SURVEILLANCE AND AUDITS BY QA

CONSTRUCTION HIGHLIGHTS

- 10 SYSTEMS REMAIN FOR TURNOVER TO STARTUP
- 140 ROOMS COMPLETE OUT OF 211
- 209 HANGERS REMAIN TO BE VAULTED OUT OF 12971
- CONTINUED SUPPORT OF N5 PROGRAM WITH NO BACKLOG
- PAINTING IN CONTAINMENT 85% COMPLETE
- MIRROR INSULATION WAS COMPLETED PRIOR TO HFT
- PIPE INSULATION IS 79% COMPLETE
- 45% THERMOLAG RELEASED TO CONTRACTOR WITH 21% INSTALLED
- 85% R. E. S. INSULATION RELEASED TO CONTRACTOR WITH 22% INSTALLED

CONSTRUCTION CHALLENGES

- CONTINUE TO MAINTAIN HIGH QUALITY WORK
- WORK CONTROL IN OPS CONTROLLED AREAS
- CLOSURE OF CONSTRUCTION WORK DOCUMENTS
- ~~MAINTAIN SYSTEM TURNOVER SCHEDULE~~
- SUPPORT OF STARTUP
- TURNOVER EXCEPTION WORKOFF TO SUPPORT 802 PROCESS
- COMPLETION OF ROOMS AND AREAS
- DESTAFFING
- ~~SUPPORT OF HOT FUNCTIONAL TESTING~~

o THERMOLAG.



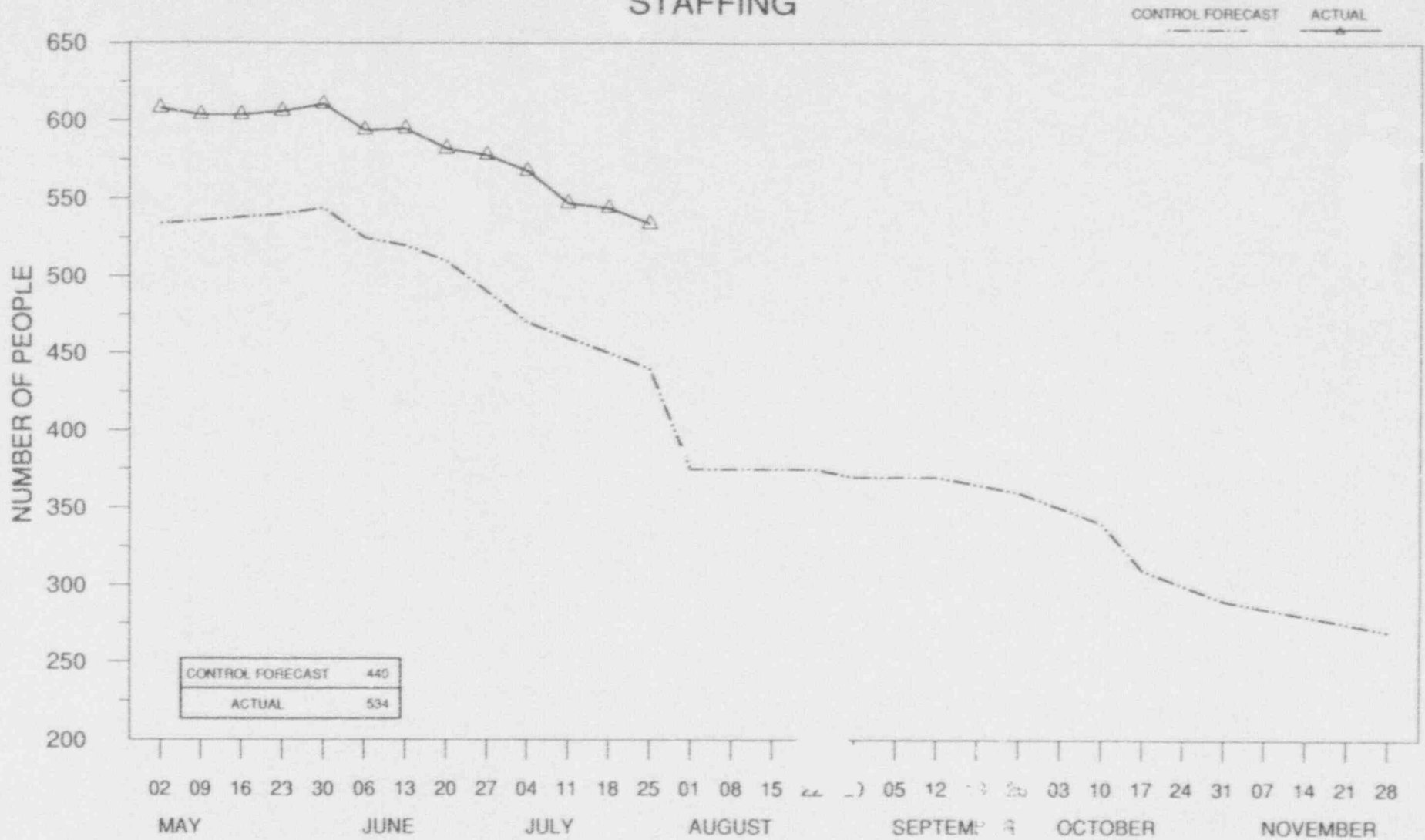
TUELECTRIC

***STARTUP
PROGRAM
STATUS***

COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2 - STARTUP / MAINTENANCE

STAFFING

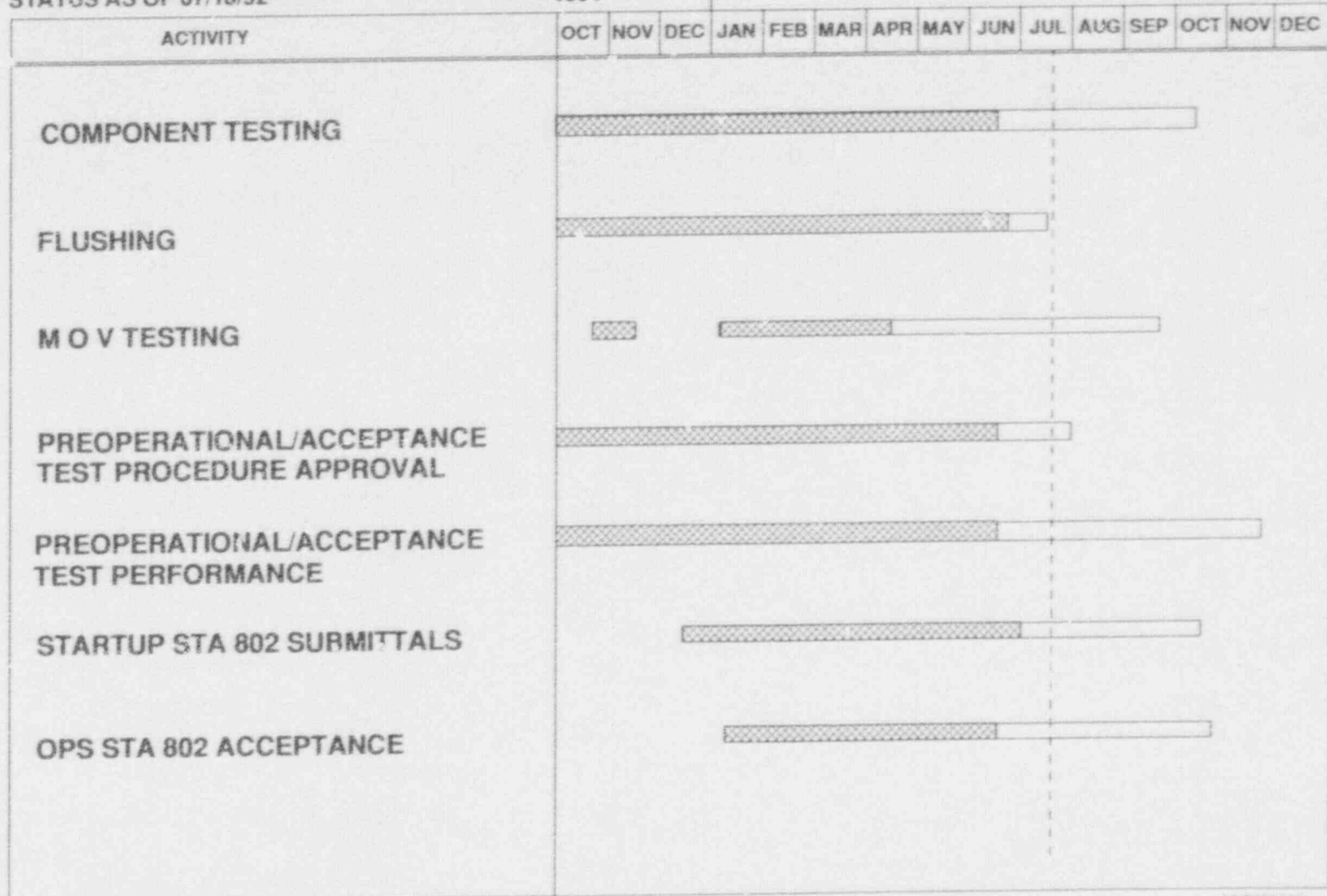


COMANCHE PEAK STEAM ELECTRIC STATION STARTUP DEPARTMENT MAJOR ACTIVITY STATUS

STATUS AS OF 07/18/92

1991

1992



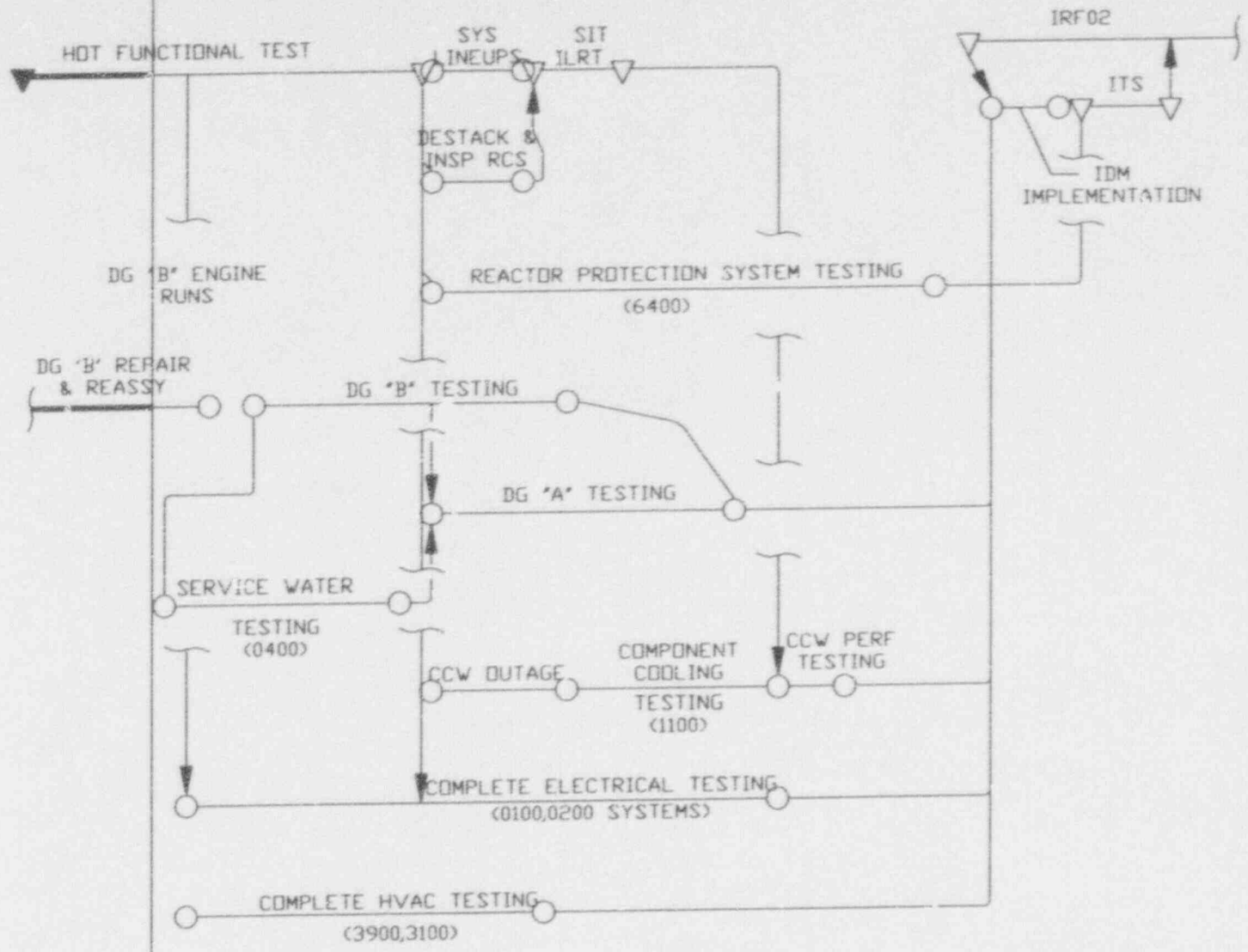
HFT HIGHLIGHTS

- MINIMUM THERMAL EXPANSION DEFICIENCIES
- SYSTEM CLEANLINESS / CHEMISTRY PASSIVATION PROGRAM
- REACTOR COOLANT PUMP RESOLUTIONS
- OPERATIONS CONTROL OF HFT - OPERATING PLANT ENVIRONMENT
- STRONG HFT READINESS & SELF ASSESSMENT PROGRAM

HFT CHALLENGES

- MAIN FEED PUMP TESTING
- MAIN TURBINE ROLL
- REACTOR COOLANT PUMP 2-02 INSPECTION
- REMOTE SHUTDOWN DEMONSTRATION
- UNIT 1/2 INTERFACE

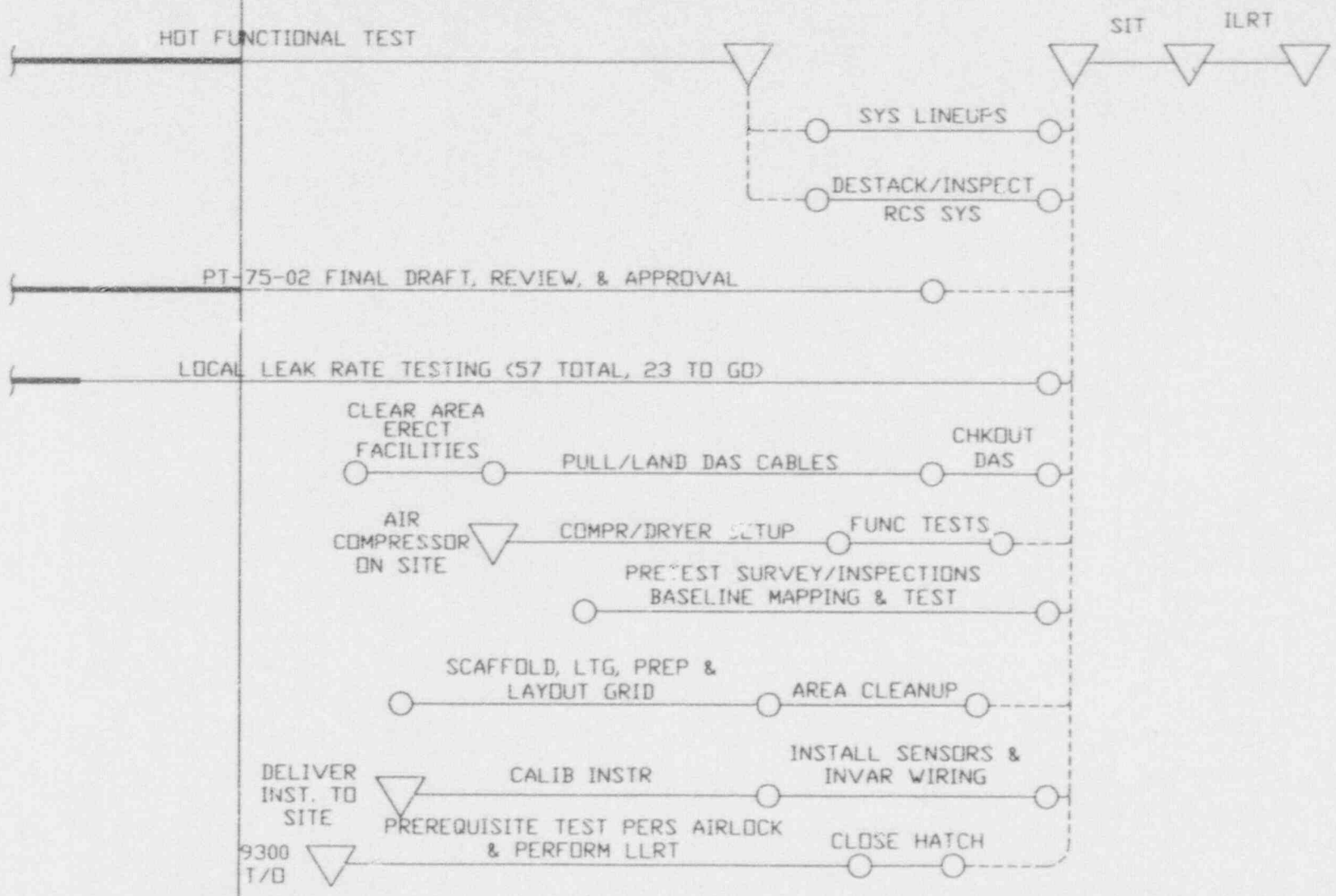
1992
 JUL 4 11 18 25 | AUG 1 8 15 22 29 | SEP 5 12 19 26 | OCT 3 10 17 24 31 | NOV 7 14 21



INTEGRATED TEST SEQUENCE
 SUMMARY SCHEDULE

1992

JUL		AUG					SEP		
18	25	1	8	15	22	29	5	12	19

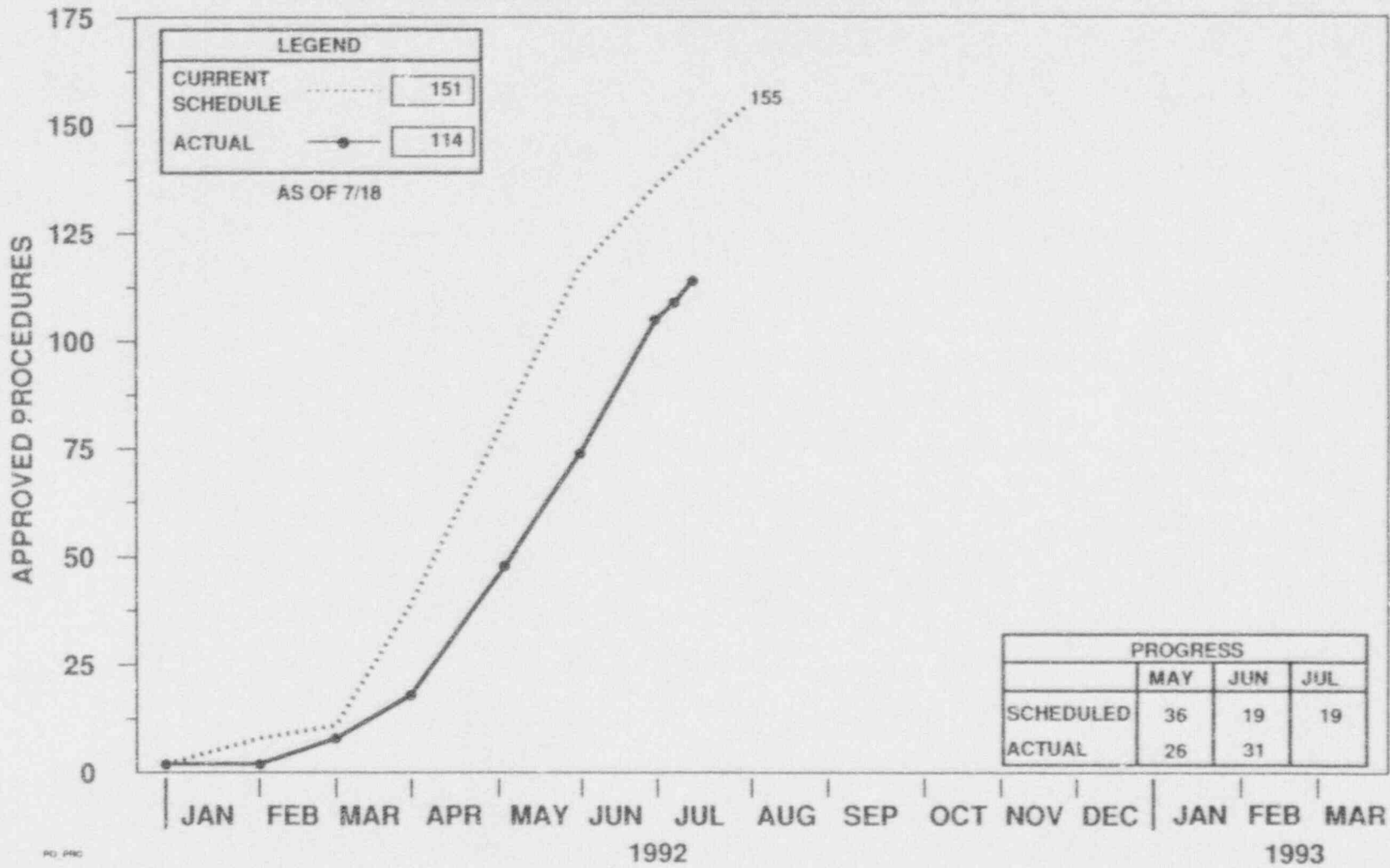


SIT/ILRT SUMMARY SCHEDULE

COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

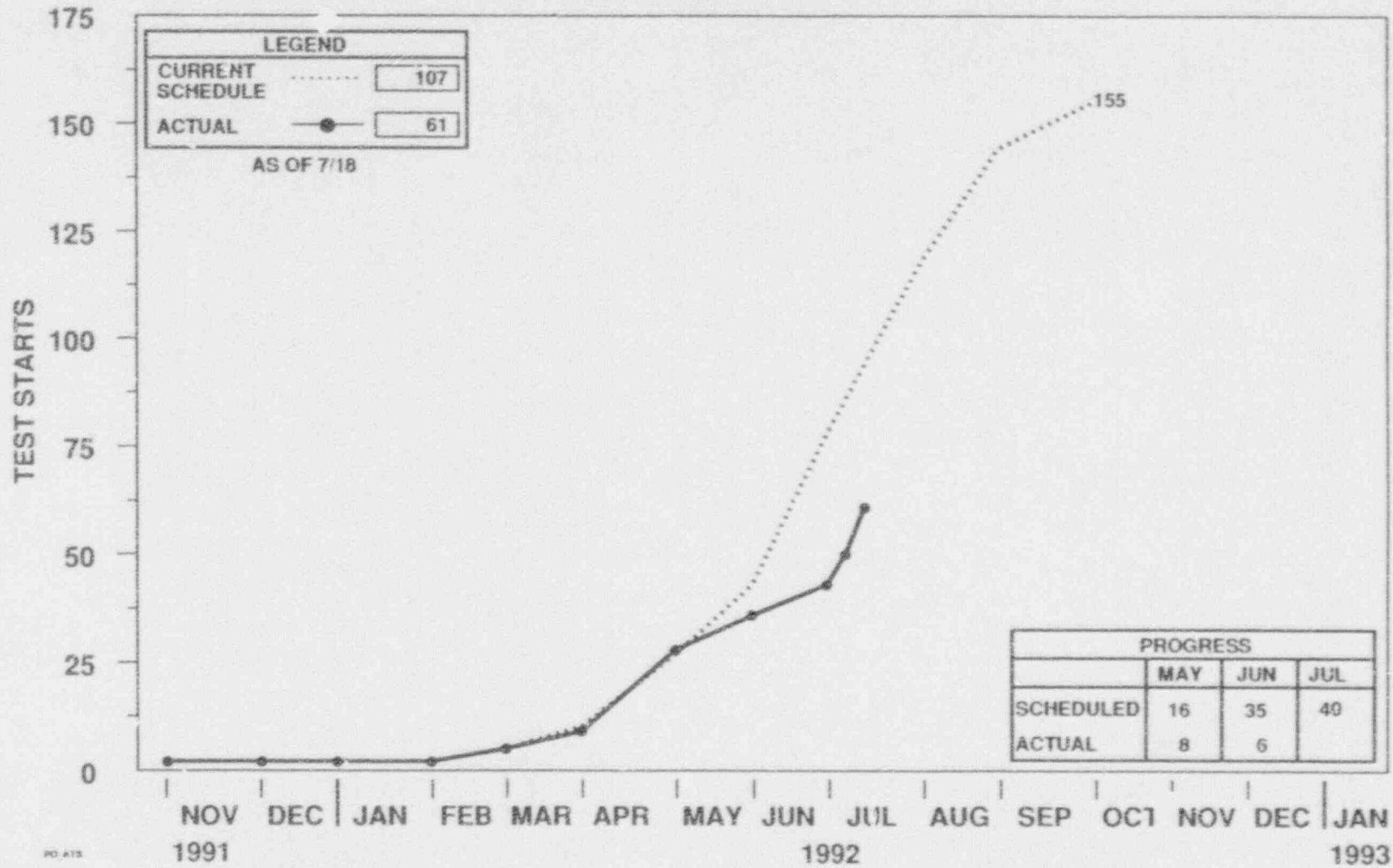
PRE-OP PROCEDURE APPROVAL



COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

PRE-OP TEST STARTS

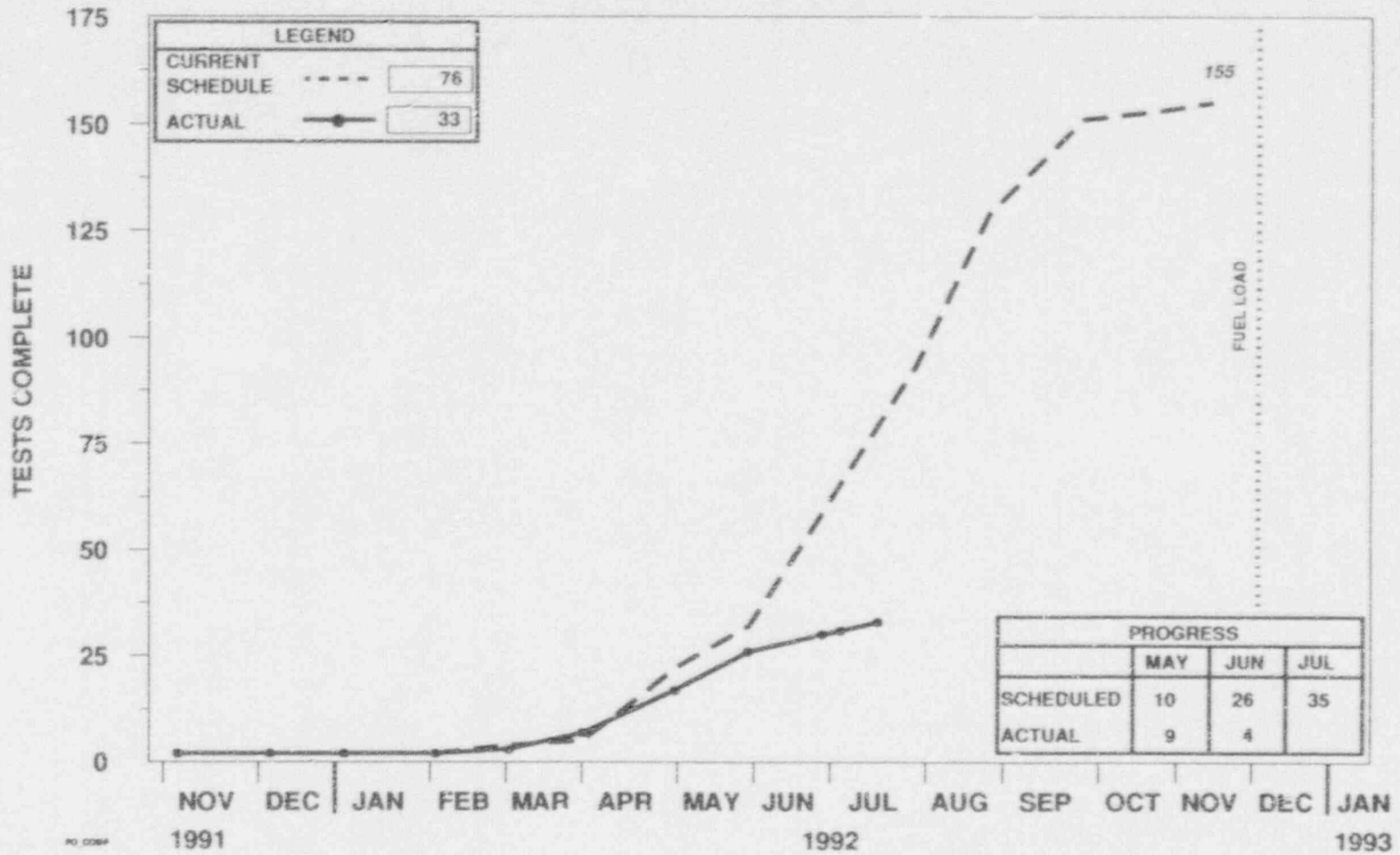


40

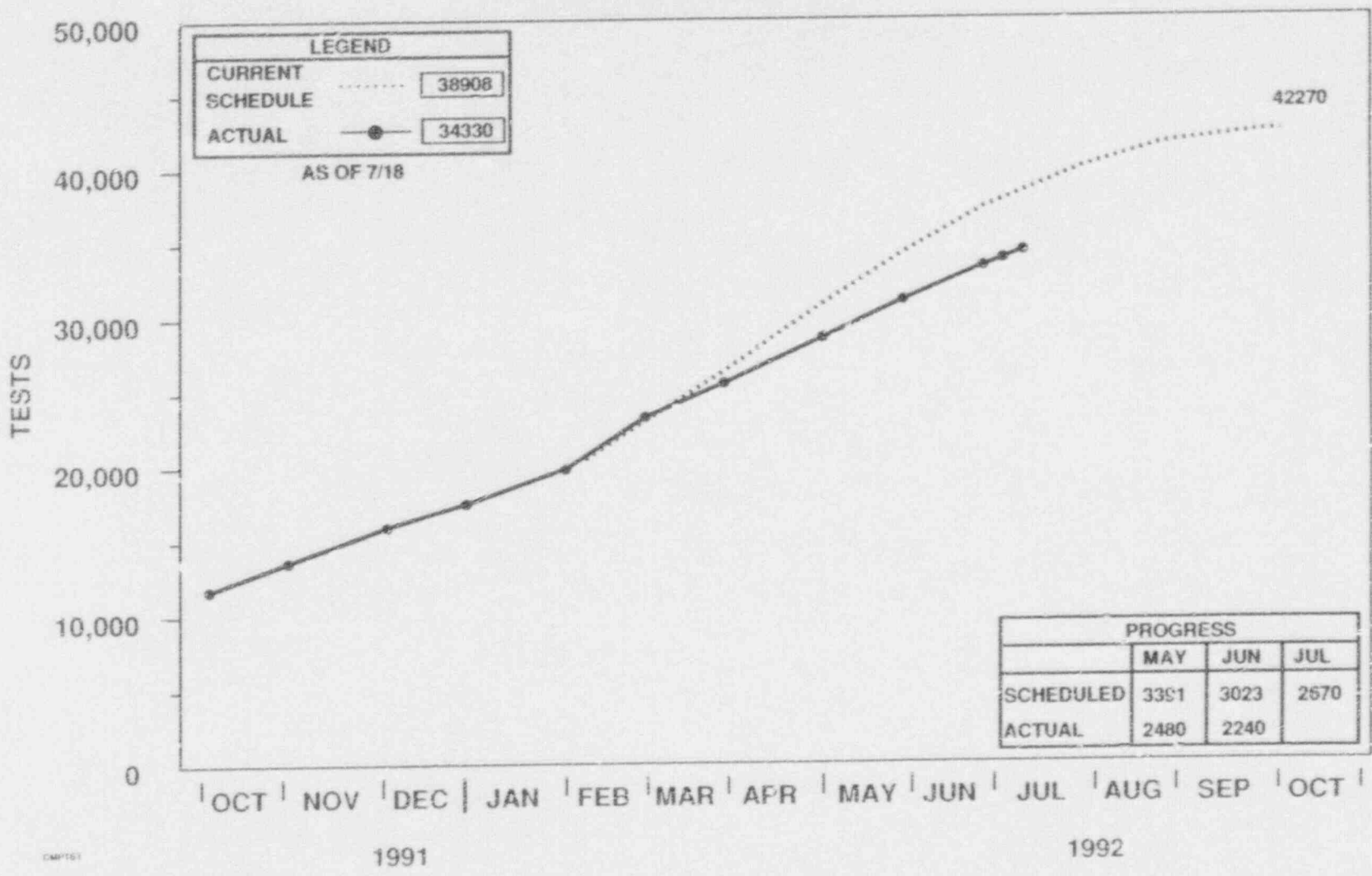
COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

PRE-OP TESTS COMPLETE - *But no results review*



COMANCHE PEAK STEAM ELECTRIC STATION UNIT 2 COMPONENT TESTING



42

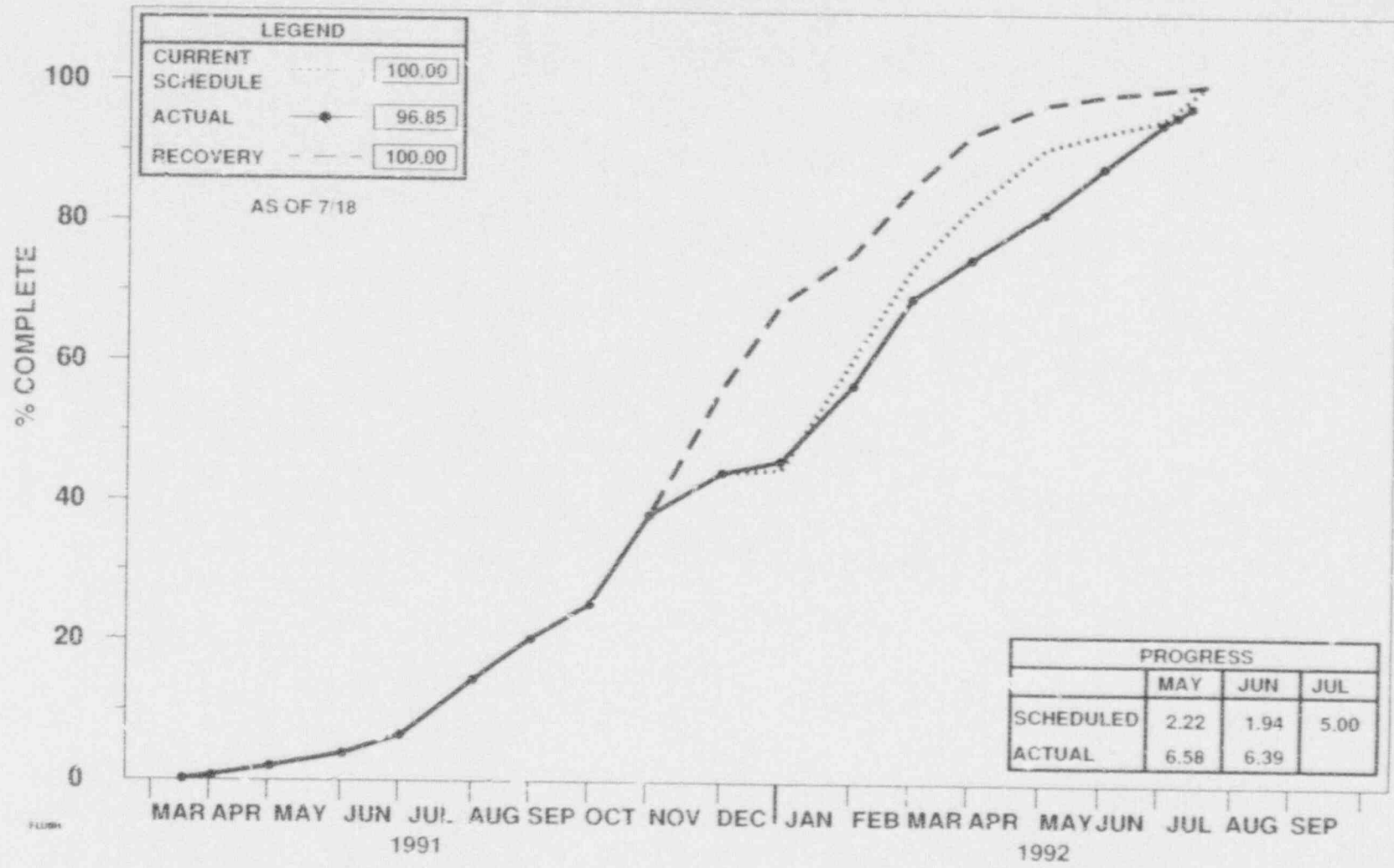
OMP151

1991

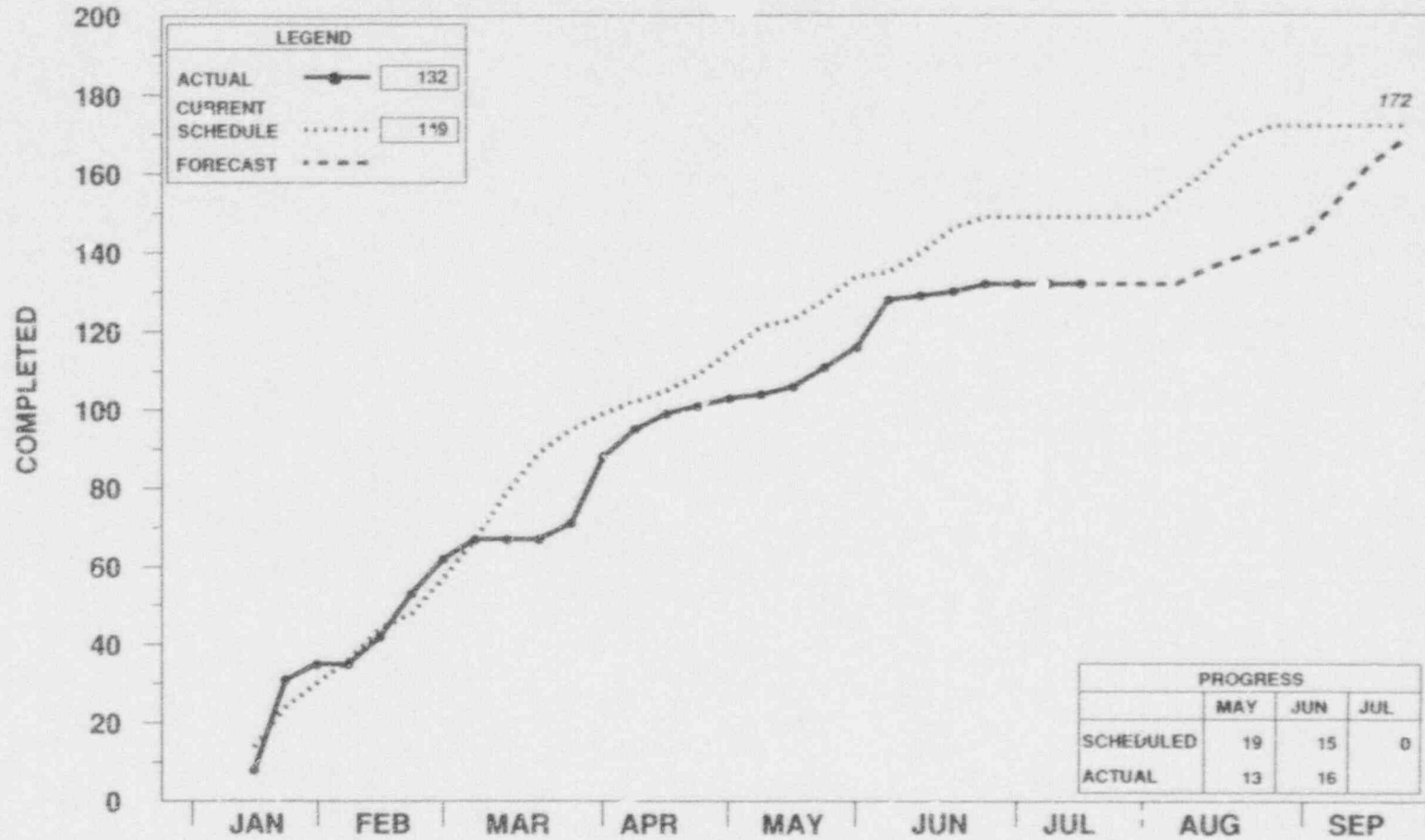
1992

COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2 FLUSHING



COMANCHE PEAK STEAM ELECTRIC STATION UNIT 2 MOV STATIC TEST

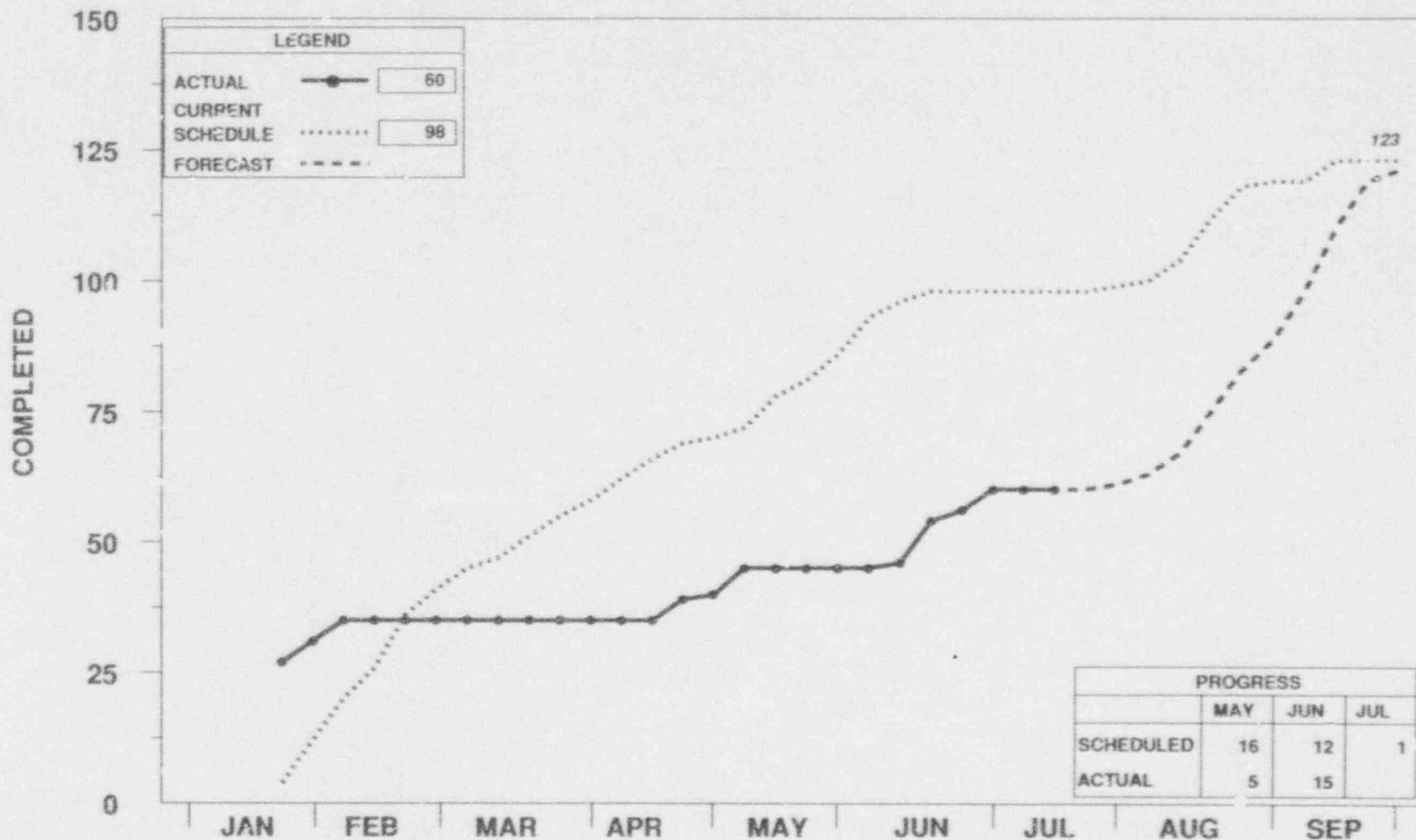


1992

COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

MOV DYNAMIC TEST



STARTUP HIGHLIGHTS

- COMPLETED NSSS/OVT PREOPERATIONAL TESTING ACTIVITIES
- ESTABLISHED CONDENSER VACUUM
- COMMENCED HOT FUNCTIONAL TESTING
- COMPLETED HOT FUNCTIONAL TESTING THROUGH THE 450 F PLATEAU
- GOOD PROGRESS IN LOCAL LEAK RATE TESTING

STARTUP CHALLENGES

- **COMPONENT TESTING**
- **DEVELOPMENT OF PROCEDURES**
- **PREOPERATIONAL/ACCEPTANCE TEST FIELD PERFORMANCE**
- **HOT FUNCTIONAL TEST**
- **INTERFACE TESTING**
- **ACHIEVE 802 ACCEPTANCE SCHEDULE**



***OPERATIONS
PROGRAM
STATUS***

**OPERATIONS DEPARTMENT
ORGANIZATION OVERVIEW**

**J.J. KELLEY
PLANT MANAGER**

UNIT 2
CONTROL ROOM STAFFING

ONE UNIT
SHIFT COMPLEMENT

1 - SHIFT SUPERVISOR

1 - UNIT SUPERVISOR/SHIFT TECHNICAL ADVISOR

1 - FIELD SUPPORT SUPERVISOR

1 - PLANT ENGINEER

2 - REACTOR OPERATORS

5 - AUXILIARY OPERATORS

**TWO UNIT
SHIFT COMPLEMENT**

1 - SHIFT SUPERVISOR

1 - SHIFT TECHNICAL ADVISOR

2 - UNIT SUPERVISOR

2 - FIELD SUPPORT SUPERVISOR

1 - PLANT ENGINEER

1 - SHIFT ADVISOR

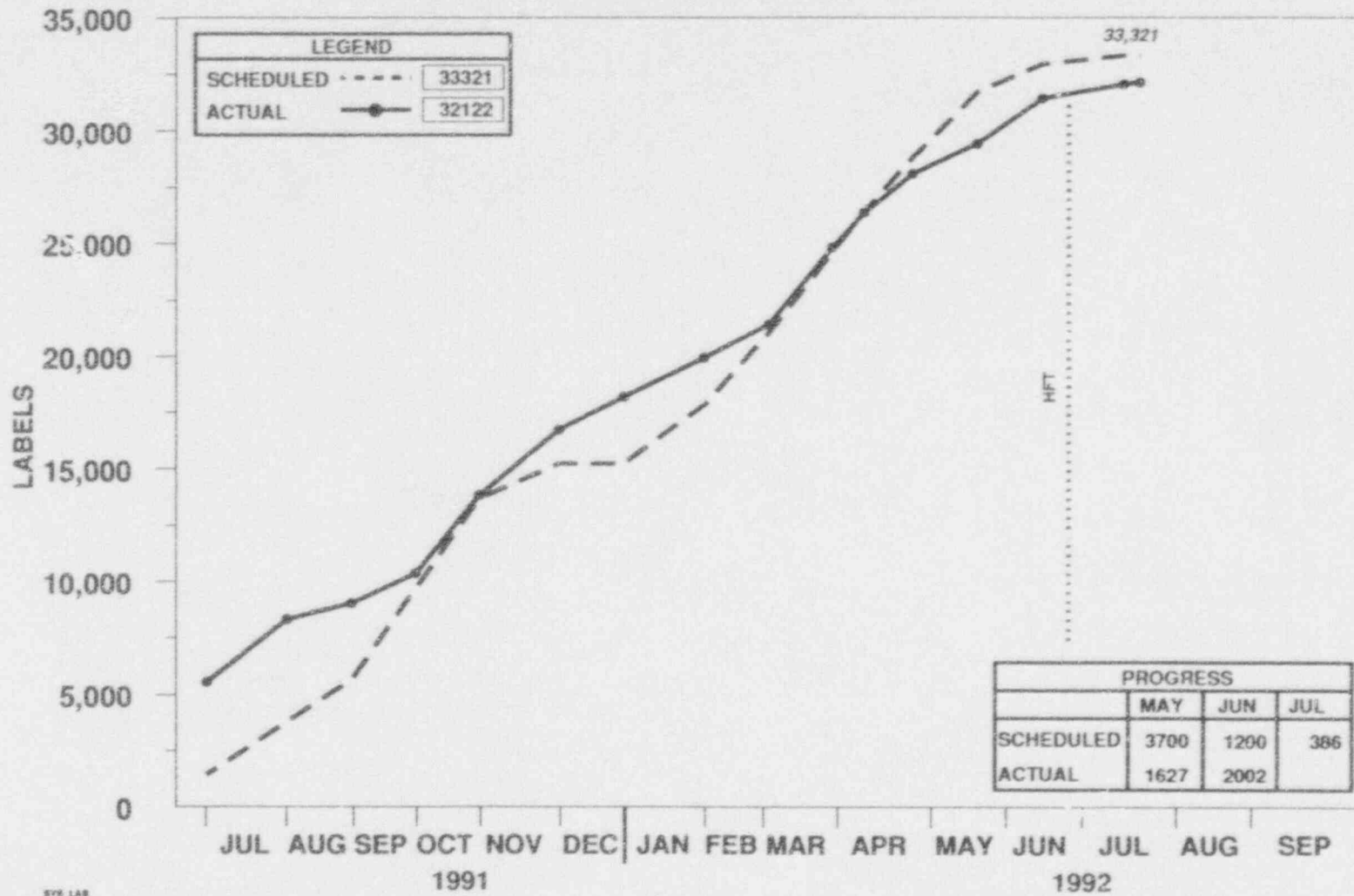
5 - REACTOR OPERATORS

10 - AUXILIARY OPERATORS

DUAL UNIT LICENSING

- 20 OF 20 PASSED JUNE NRC EXAMINATION
- 13 RO'S
- 7 SRO'S
- REQUAL PROCESS AND EXAMINATION INCLUDE UNIT DIFFERENCES
- CPSES DUAL UNIT EXAMINATION IN SEPT 92

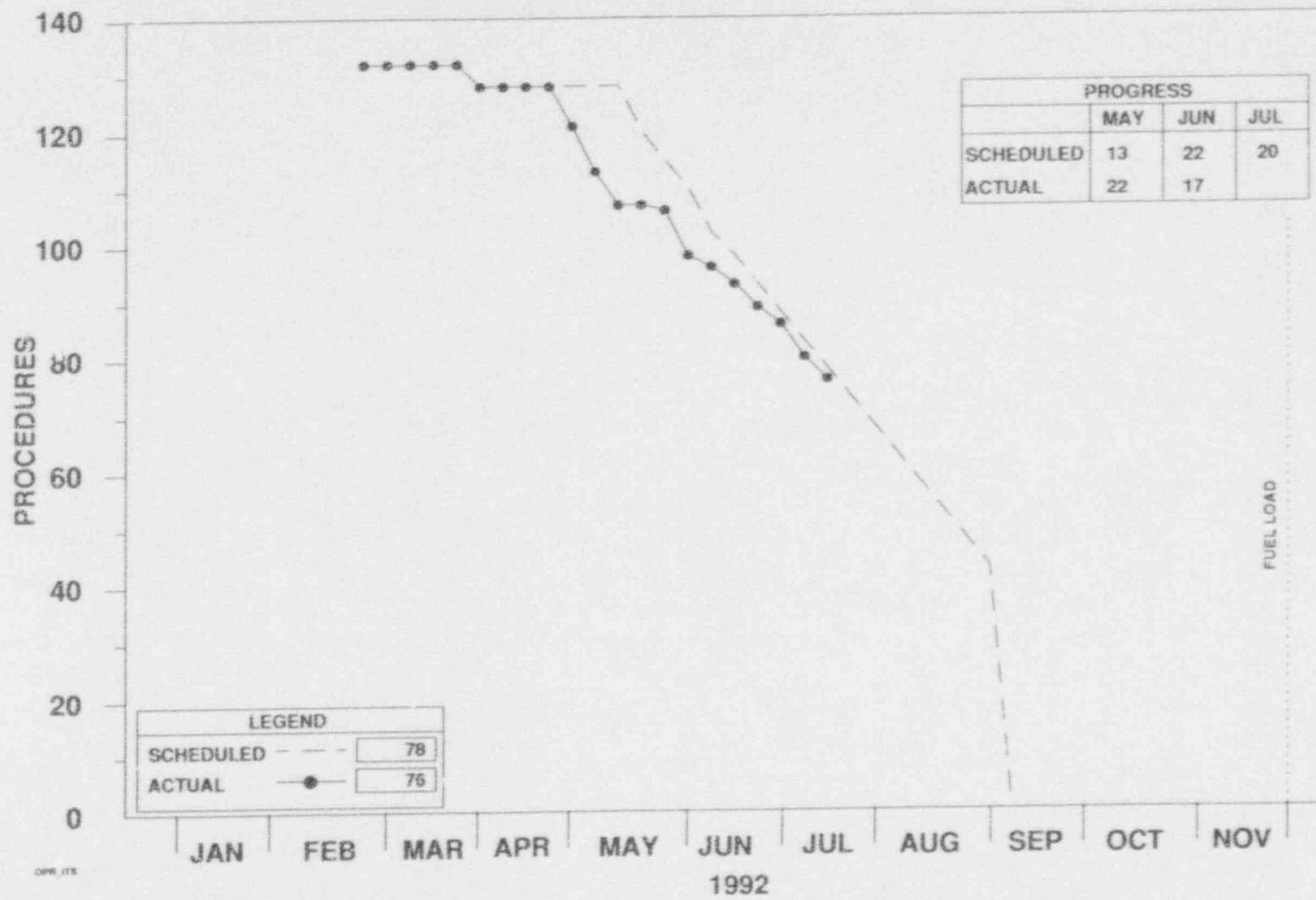
COMANCHE PEAK STEAM ELECTRIC STATION UNIT 2 SYSTEM LABELING



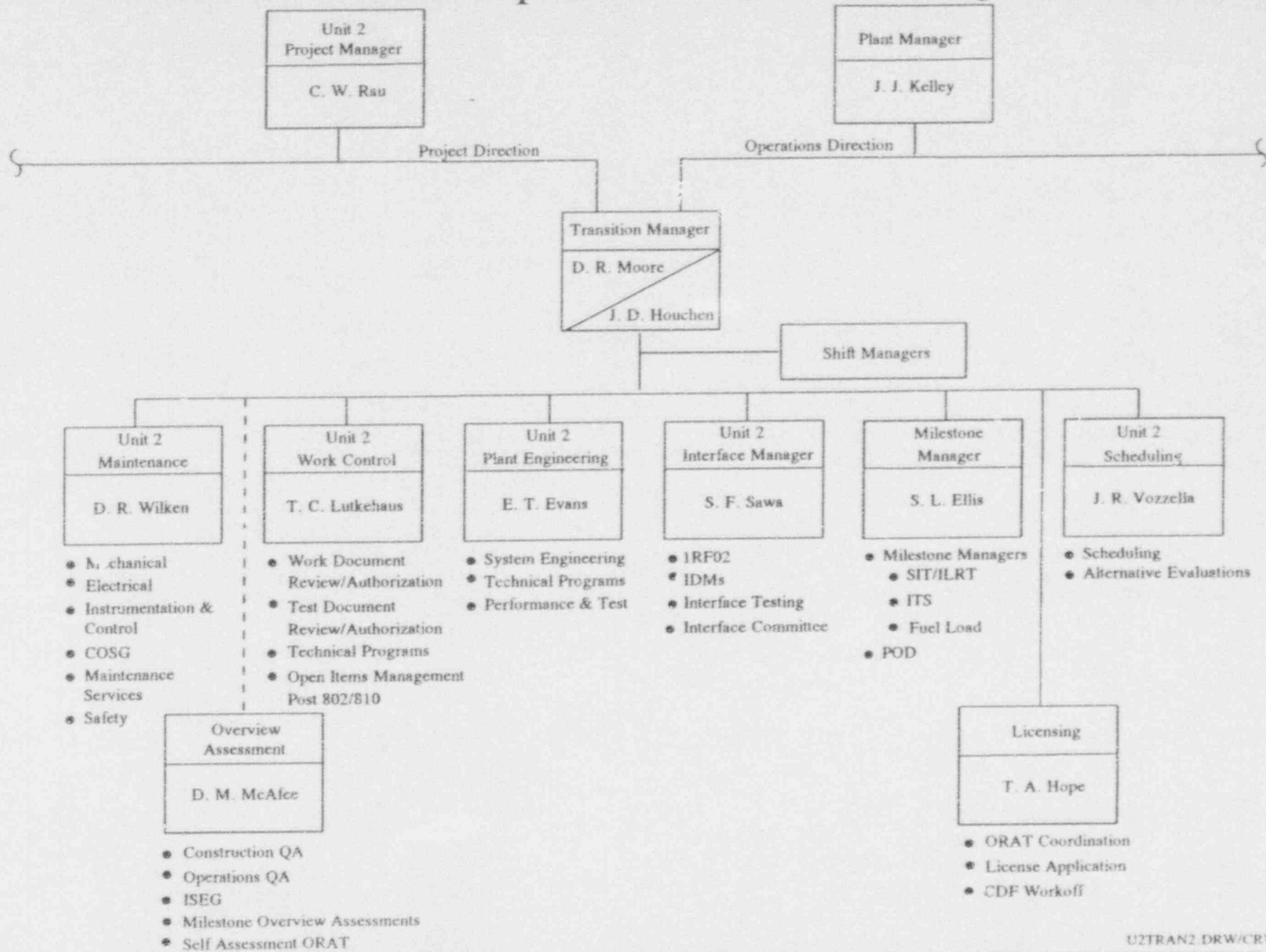
COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

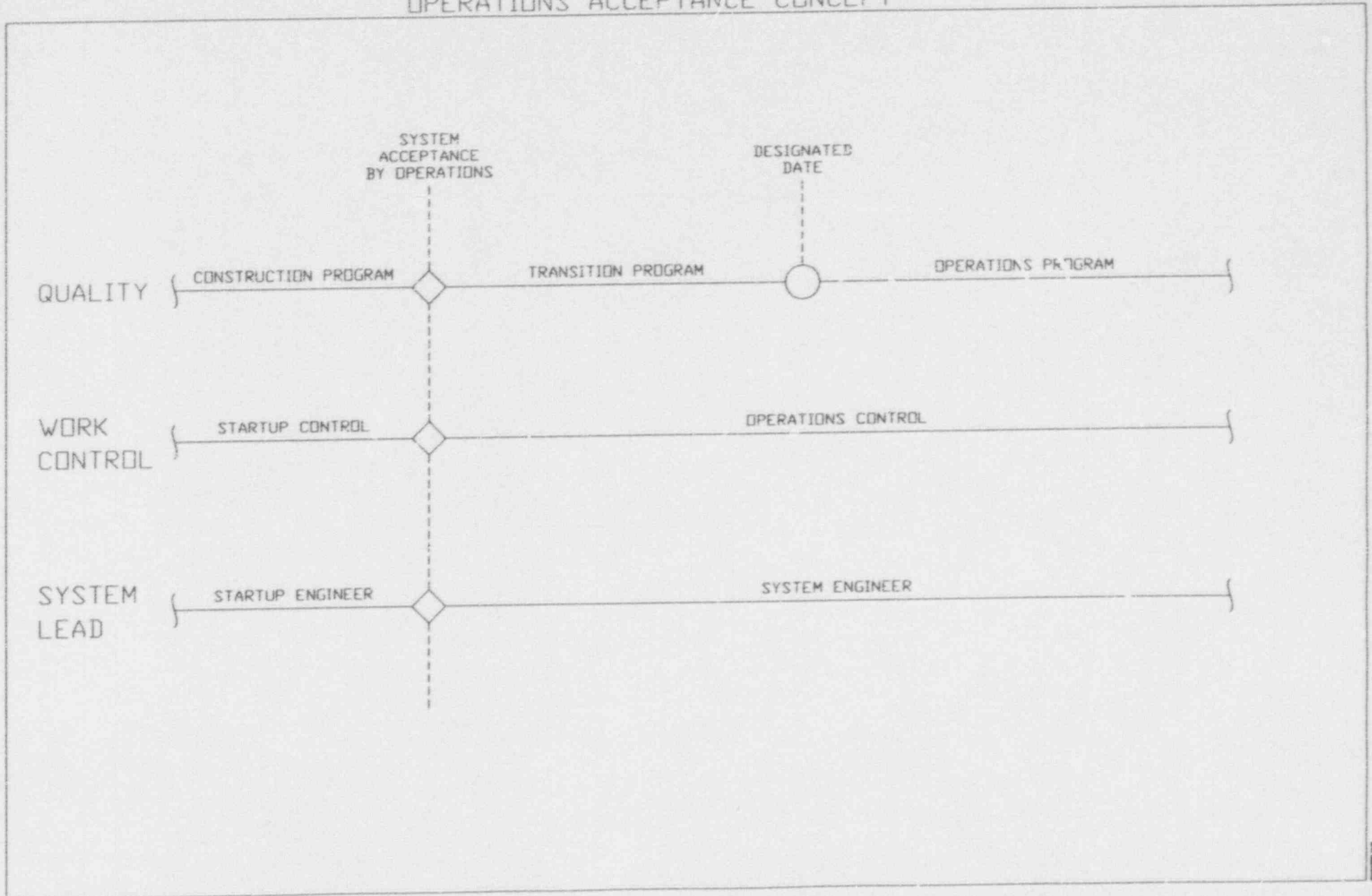
OPERATIONS PROCEDURE DEVELOPMENT FOR ITS



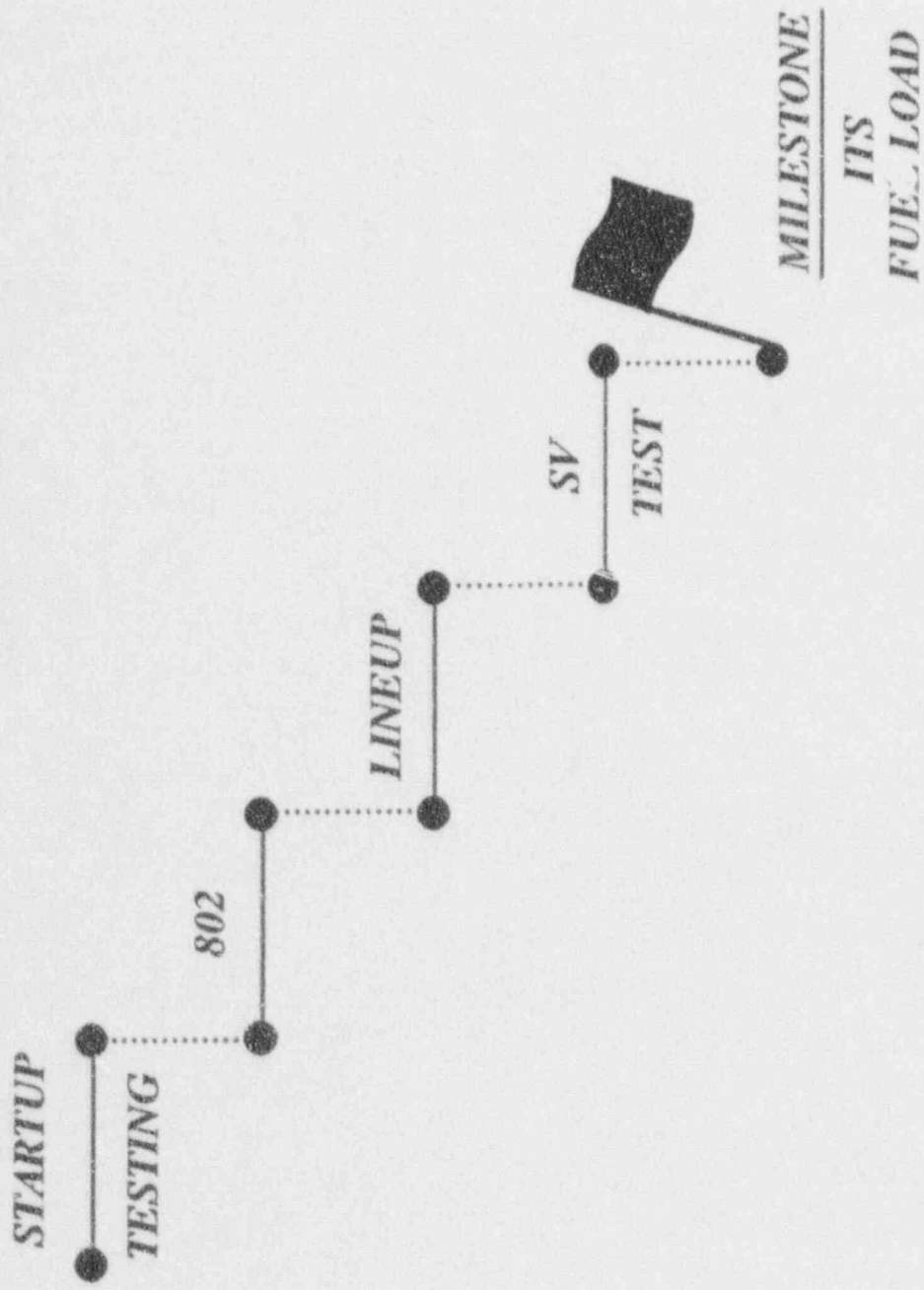
Unit 2 Nuclear Operations Transition Organization



OPERATIONS ACCEPTANCE CONCEPT



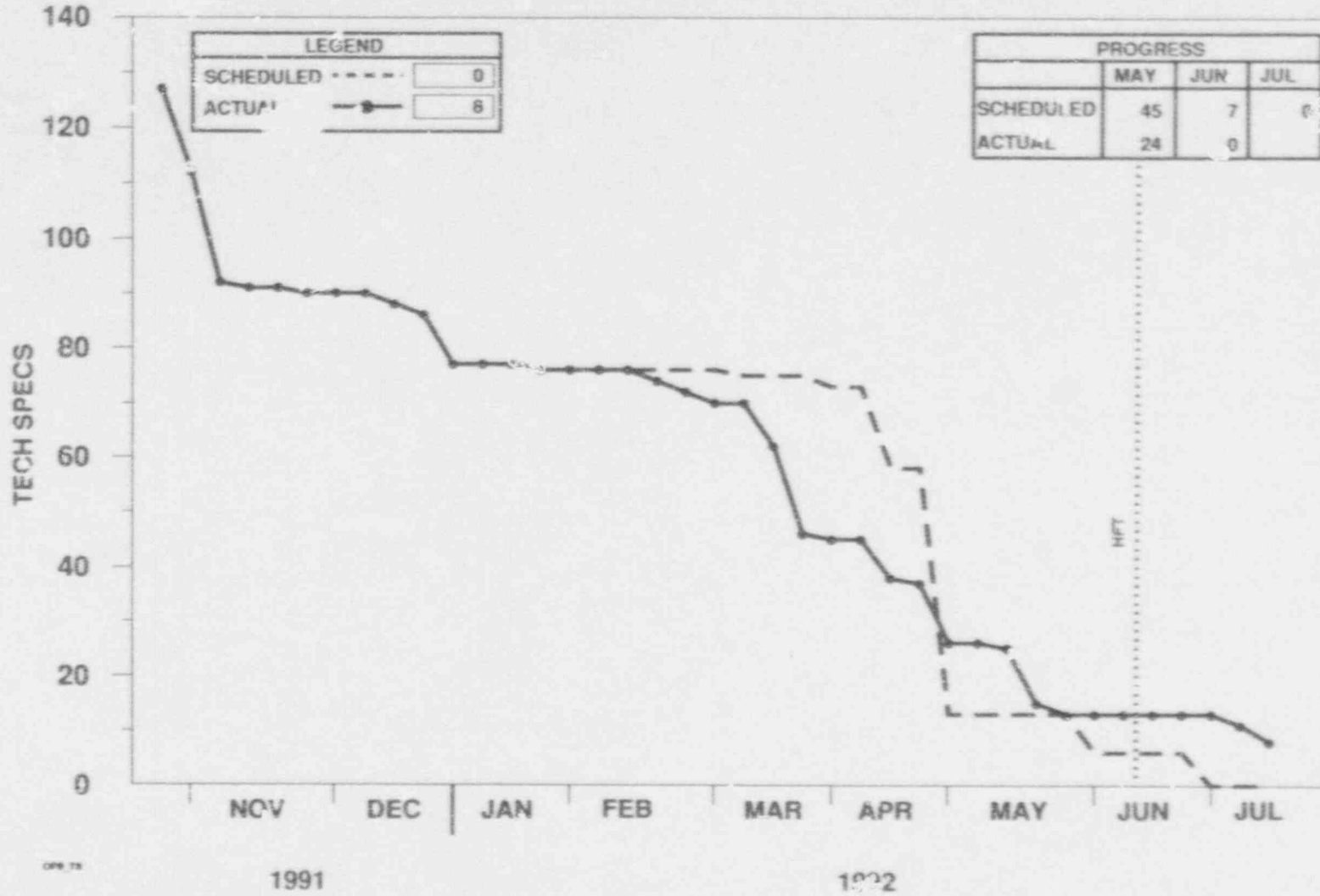
OPERATIONS SCHEDULE PROCESS



INTERFACE DESIGN MODIFICATION STATUS

REQUIRED FOR 1RFO2	26
ENGINEERING COMPLETE	26
INTERFACE COMMITTEE REVIEW	24
SORC APPROVED	9
OTHER IDMs	69
ENGINEERING COMPLETE	55
INTERFACE COMMITTEE REVIEW	52
SORC APPROVED	42

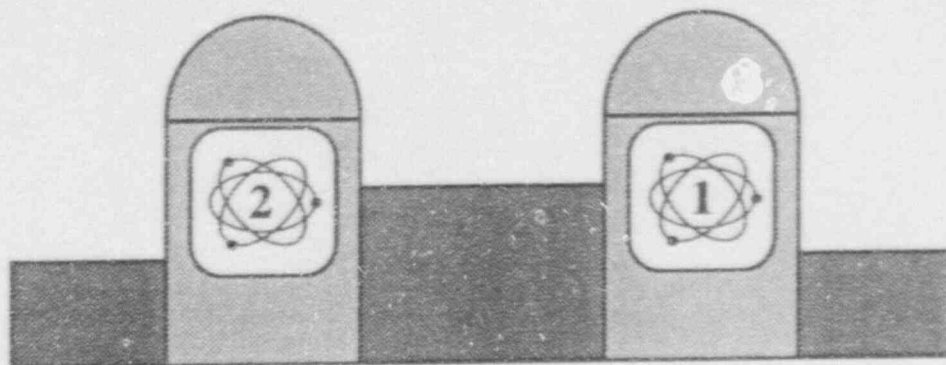
COMANCHE PEAK STEAM ELECTRIC STATION UNIT 2 OPERATIONS PHASE II TECHNICAL SPECIFICATIONS



TECHNICAL SPECIFICATION MILESTONES

PROOF AND REVIEW ISSUED	07/01/92 A
COMMENTS RETURNED	07/17/92 A
TU / NRC WASHINGTON, D.C.	08/10/92
FINAL DRAFT	TBD
CERTIFICATION LETTER	30 DAYS
ISSUE LETTER	TBD

COMANCHE PEAK STEAM ELECTRIC STATION



UNIT DIFFERENCES

(STA-820)

STATUS

U/D's IDENTIFIED TO DATE -	80
U/D's REVIEWED BY DMRG -	76
U/D's APPROVED BY SORC -	76
U/D's PENDING SORC APPROVAL -	4
U/D's CLOSED TO DATE -	8

CATEGORY

U/D's IDENTIFIED TO DATE -	80
CATEGORY 1 U/D'S - (OPERATOR TRAINING REQ'D)	4
CATEGORY 2 U/D'S - (DESIGN IMPLEMENTATION PENDING)	47
CATEGORY 3 U/D'S - (PROCEDURE CHANGES, ETC.)	25
U/D's PENDING CATEGORY -	4

OPERATIONS HIGHLIGHTS

- ENHANCED LABELS
- HFT OVERVIEW ASSESSMENT OF OPERATIONS
- TECHNICAL SPECIFICATIONS - PROOF AND REVIEW
- ✓ IMPLEMENTATION OF NUCLEAR OPERATIONS TRANSITION ORGANIZATION
- OPERATOR LICENSE EXAM RESULTS 20 OF 20 PASSED
- BORON PASSIVATION OF PRIMARY AND SECONDARY
- FEEDBACK FROM OPERATORS ON PLANT RESPONSE IS POSITIVE

OPERATIONS CHALLENGES

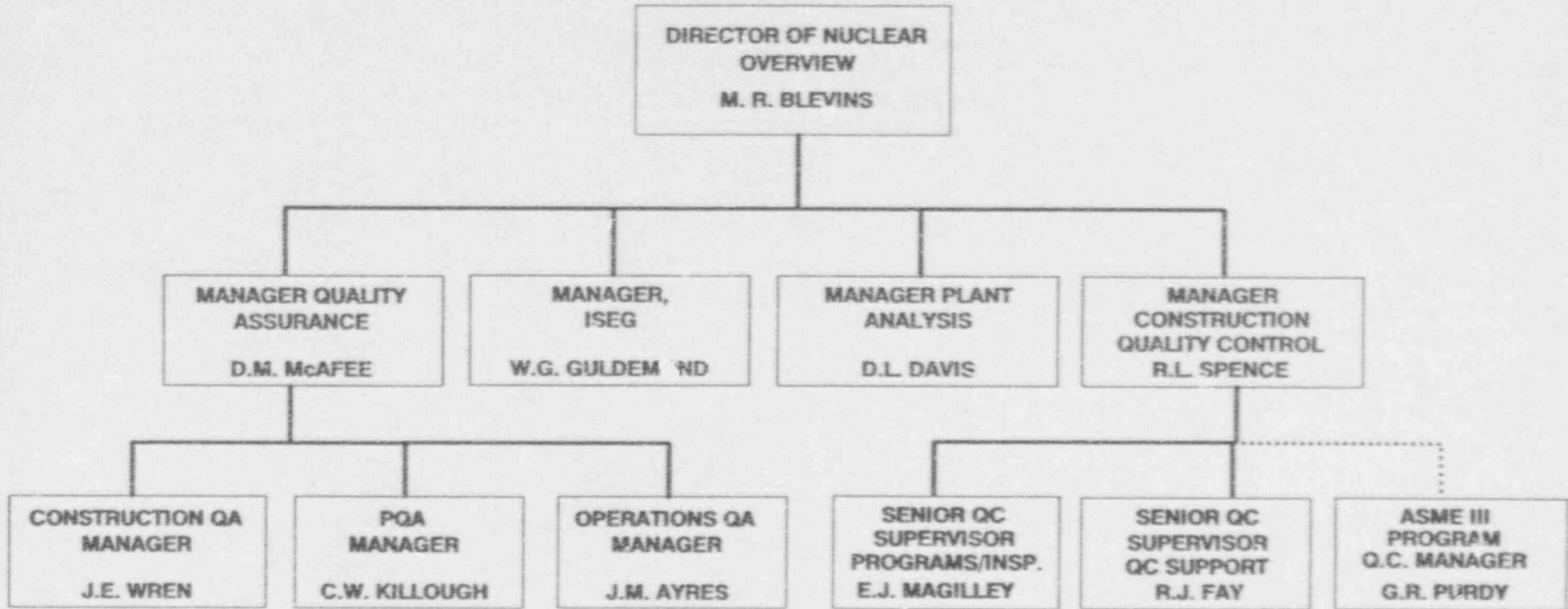
- UNIT 2 INTEGRATED TEST SEQUENCE DURING 1RF02
- INTERFACE TESTING
- SYSTEM AND AREA TURNOVERS
- ORAT PREPARATION
- SECURITY AND RCA LOCKDOWN
- TRANSITION TO DUAL UNIT OPERATION



TUELECTRIC

OVERVIEW ACTIVITIES

NUCLEAR OVERVIEW DEPARTMENT



CPSES SELF-ASSESSMENTS

COMPLETED ASSESSMENTS

INTEGRATED DESIGN ASSESSMENT - SATISFACTORY

CONSTRUCTION APPRAISAL TEAM - SATISFACTORY

PIPE STRESS AND SUPPORT FINAL RECONCILIATION -
SATISFACTORY

ENVIRONMENTAL QUALIFICATION PROGRAM -
SATISFACTORY ; IMPLEMENTATION FOLLOWUP IN
AUGUST

HOT FUNCTIONAL TEST IMPACT ASSESSMENT -
SATISFACTORY

ASSESSMENTS IN PROGRESS

HOT FUNCTIONAL TEST PERFORMANCE - FIELD AND
CONTROL ROOM COVERAGE

CPSES SELF-ASSESSMENTS (continued)

ASSESSMENTS PLANNED

UNIT 2 COMPLETIONS ASSESSMENT - AUGUST

UNIT 1 SHUTDOWN RISK ASSESSMENT - AUGUST

UNIT 2 INTEGRATED TEST SEQUENCE (ITS) IMPACT ON
UNIT 1 - SEPTEMBER / OCTOBER

UNIT 1 REFUELING READINESS / UNIT 2 FUEL LOAD
READINESS - SEPTEMBER

UNIT 2 READINESS ASSESSMENT - OCTOBER PRIOR TO NRC
ORAT

FOLLOWUP READINESS ASSESSMENT - 1-2 WEEKS PRIOR
TO FUEL LOAD

STARTUP IMPACT ASSESSMENT - JUST PRIOR TO FUEL
LOAD

FIRE PROTECTION PROGRAM ASSESSMENT - MID-AUGUST

**AUDITS CONDUCTED SECOND QUARTER 1992
ENGINEERING**

- **SCOPE A - BECHTEL -
PIPE STRESS AND PIPE SUPPORTS (PSAS)**

RESULTS: GENERALLY SATISFACTORY

- **SCOPE B - STONE & WEBSTER -
UNIT 2 I&C CALCULATIONS/SETPOINT CONTROL**

RESULTS: GENERALLY SATISFACTORY

- **SCOPE B - STONE & WEBSTER -
ENVIRONMENTAL EQUIPMENT QUALIFICATION/FIRE
SAFE SHUTDOWN ANALYSIS**

RESULTS: SATISFACTORY

- **SCOPE B - STONE & WEBSTER -
UNIT 2 INTEGRATED FLUID SYSTEMS AND PIPE
RUPTURE ANALYSES**

RESULTS: SATISFACTORY

- **SCOPE C - ABB IMPELL -
UNIT 2 (EQE) CAT II/I SEISMIC ADEQUACY
EVALUATION**

RESULTS: SATISFACTORY

- **SCOPE C - ABB IMPELL -
CIVIL/STRUCTURAL DESIGN VALIDATION**

RESULTS: GENERALLY SATISFACTORY

- SCOPE D - WESTINGHOUSE -
CLASS I PIPING, PIPE SUPPORTS AND SEISMIC
EQUIPMENT QUALIFICATION

RESULTS: SATISFACTORY

- SCOPE E - TU ELECTRIC -
UNIT 2 NUCLEAR ENGINEERING CALCULATIONS

RESULTS: GENERALLY SATISFACTORY

AUDITS CONDUCTED SECOND QUARTER 1992
COMPLETIONS

- UNIT 2 NONCONFORMANCE PROGRAM

RESULTS: SATISFACTORY

- UNIT 2 STARTUP

RESULTS: GENERALLY SATISFACTORY

- UNIT 2 ASME/CODE CONTROL PROGRAM

RESULTS: SATISFACTORY

- DOCUMENT CONTROL AND RECORDS MANAGEMENT

RESULTS: SATISFACTORY

UPCOMING AUDITS

- ENGINEERING

ENGINEERING MECHANICS (EMD) (ON-GOING)
(SCOPE C)

PSAS POST RECONCILIATION (SCOPE A)

UNIT 2 REACTOR PHYSICS CALCULATIONS
(SCOPE D)

REACTOR ENGINEERING (SCOPE E)

RECORDS/DESIGN TRANSITIONS (ALL SCOPE)

COMPUTER SOFTWARE (SCOPE E)

- COMPLETIONS

- STARTUP ACTIVITIES (ON-GOING)

- FIRE PROTECTION/PENETRATION SEALS (ON-GOING)

- CONSTRUCTION

SURVEILLANCE CONDUCTED IN
SECOND QUARTER 1992

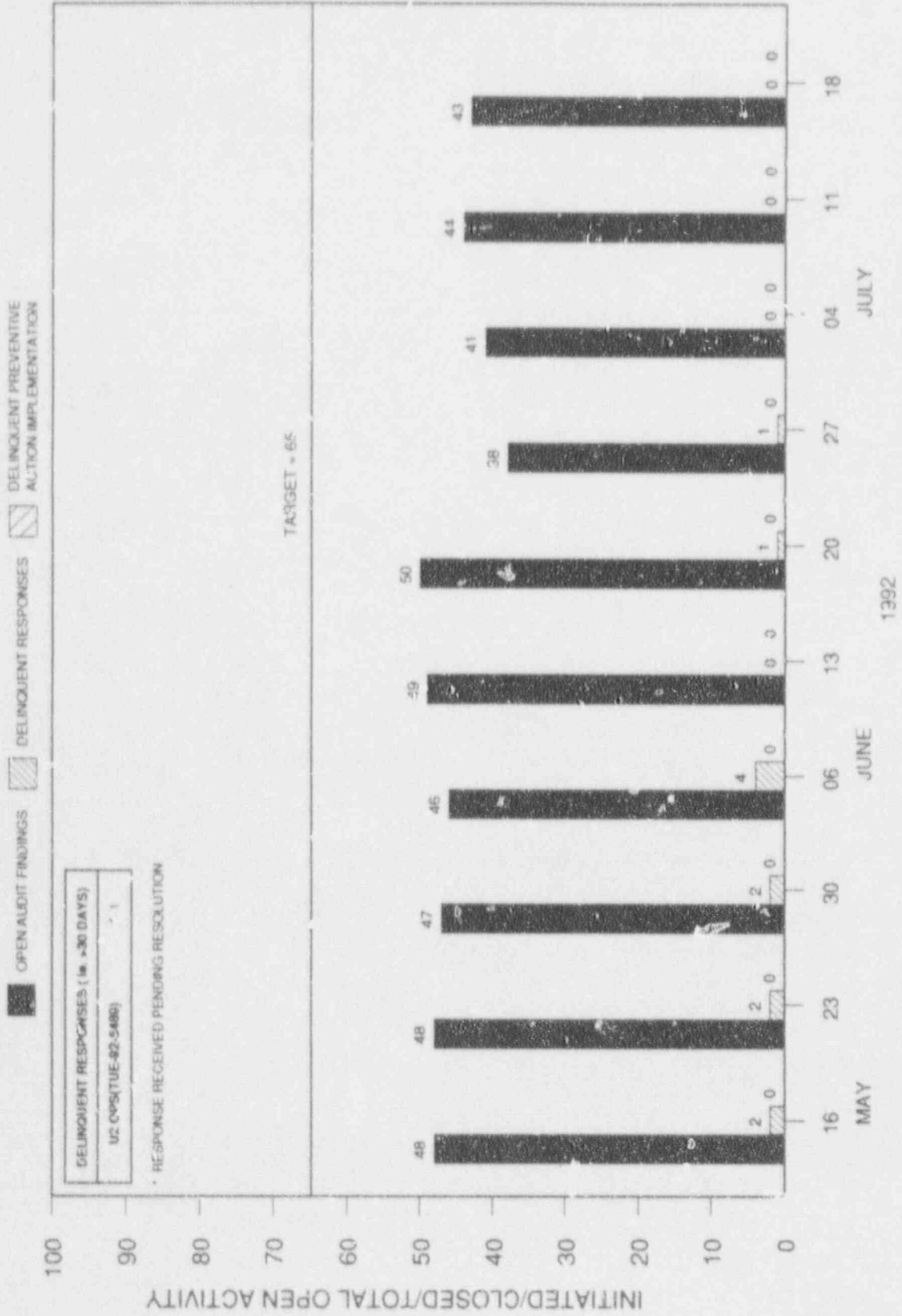
TOTAL 76

EXAMPLES:

UNIT 2 NON-LOCA SAFETY ANALYSES
CONDUIT DESIGN VALIDATION
INSTALLATION OF THERMO-LAG
ROOM/AREA WALKDOWNS
TEMPORARY SYSTEM MODIFICATIONS
STARTUP MEASURING AND TEST EQUIPMENT
OPEN VESSEL TESTING
OVERVIEW OF N-5 DATA REPORTS
PRESSURE TESTING ACTIVITIES

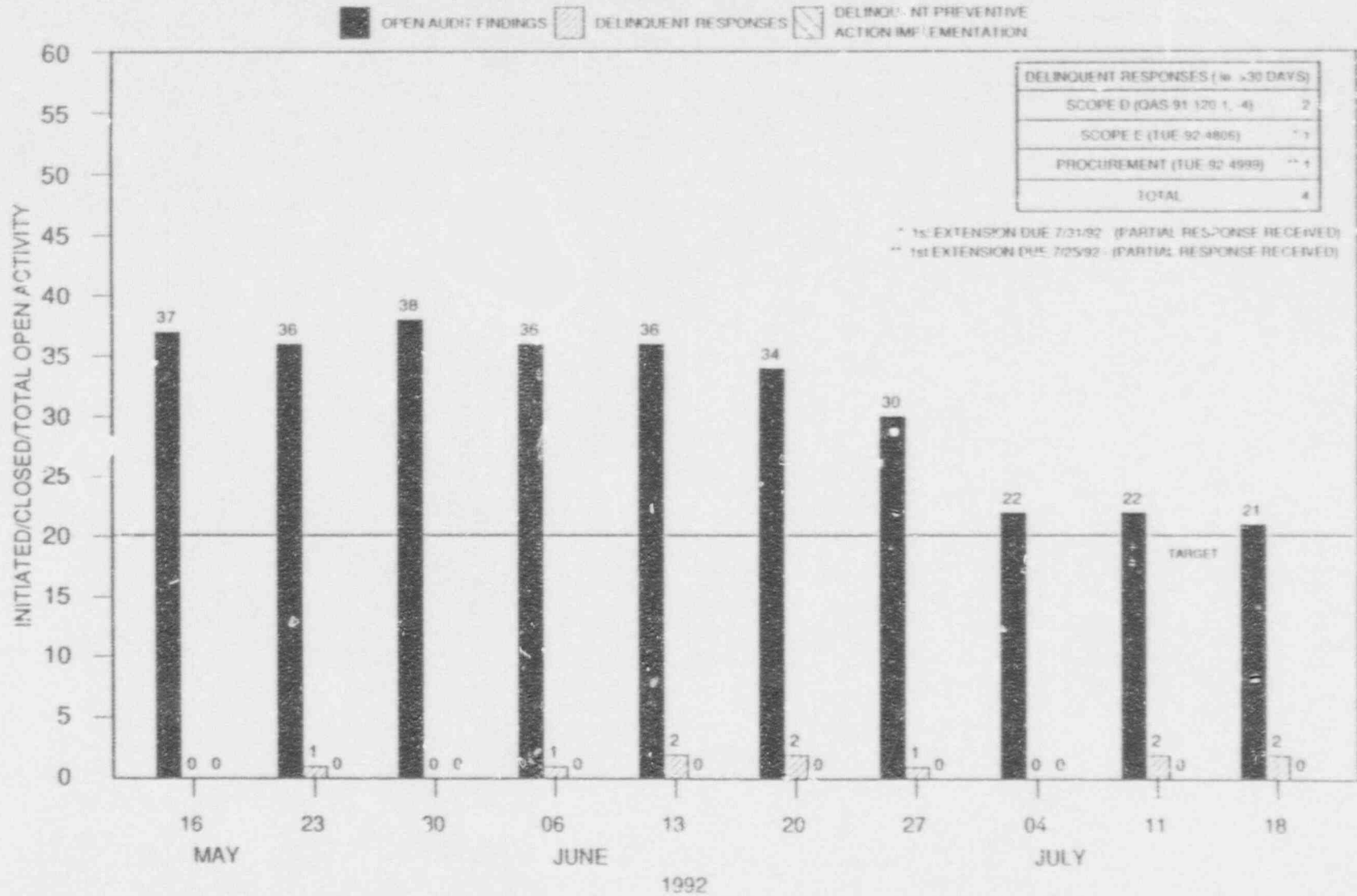
COMANCHE PEAK STEAM ELECTRIC STATION

AUDIT FINDINGS



COMANCHE PEAK STEAM ELECTRIC STATION

SURVEILLANCE FINDINGS



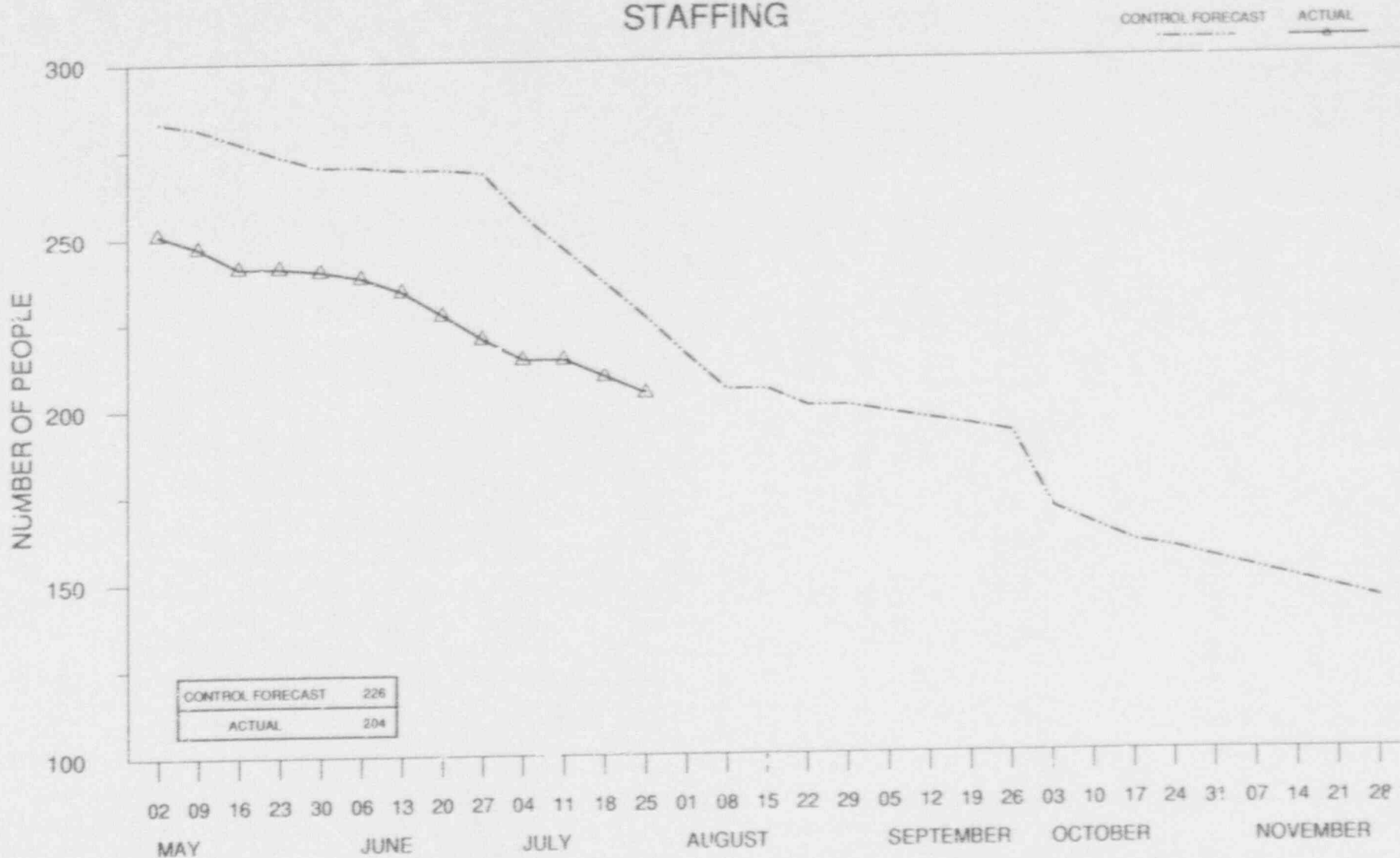
COMANCHE PEAK STEAM ELECTRIC STATION
 UNIT 2
 PROGRAMATIC / REFETITIVE TUE'S
 WEEK ENDING 07/25/92

TUE #	SUBJECT	RESP. ORG. RESP. PERSON PROJ. MGT.	STATUS E/C/D IMPLEMENT ACTIONS	DATE ISSUED
91-993	HILTI BOLT CORROSION	(WEBSTER)	09/30/92	5/9/91
92-5553	TEST RESULTS OF THERMOLAG	ENGINEERING (BRADY)	FOR DISPOSITION 08/28/92	06/19/92

TOTAL OPEN = 2
TARGET = 5

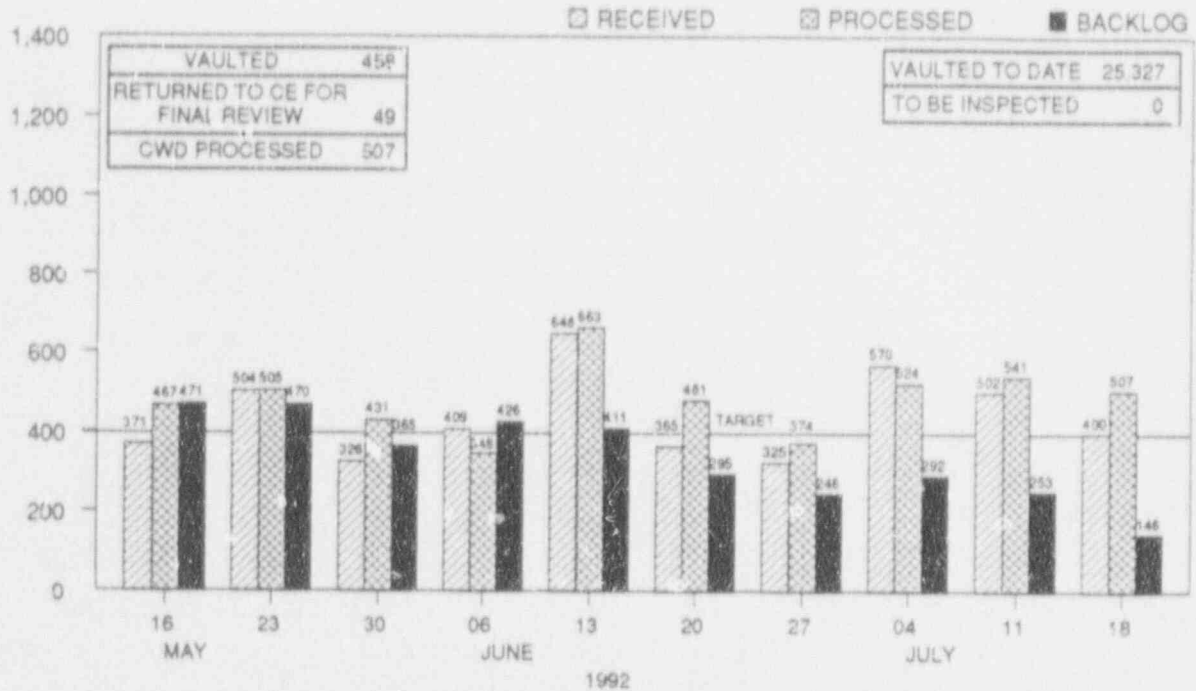
COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2 - QA/QC STAFFING

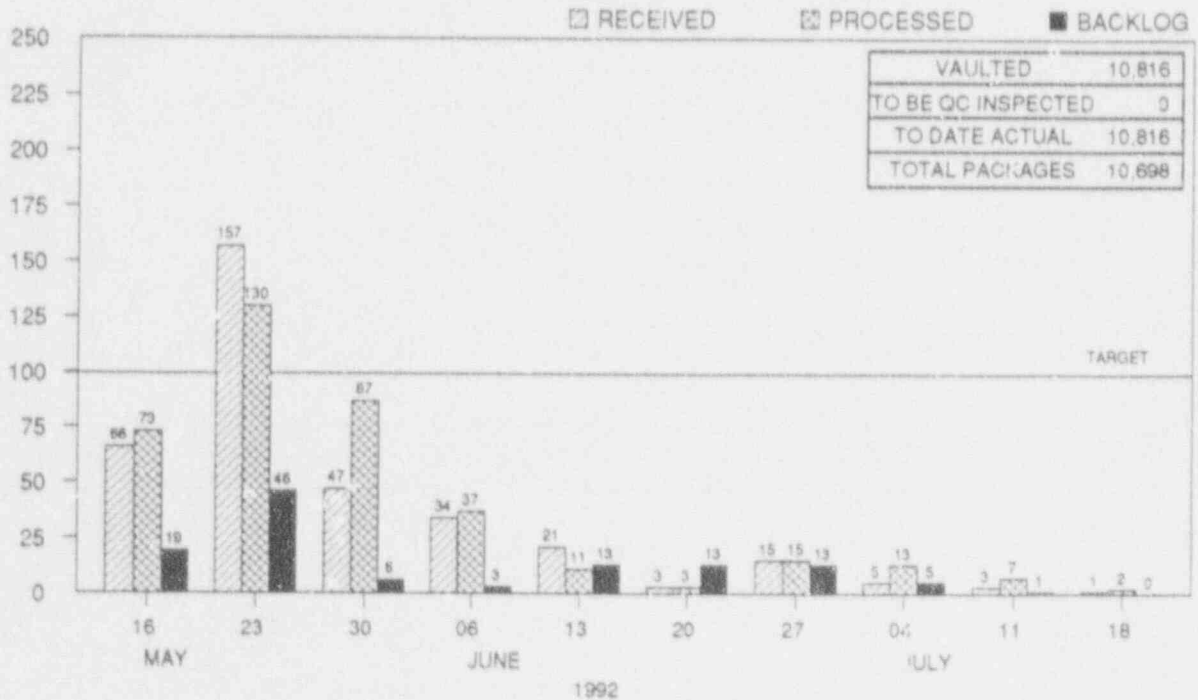


COMANCHE PEAK STEAM ELECTRIC STATION UNIT 2

UNIT 2 - QC PHASE II CWD INSPECTION AND REVIEW

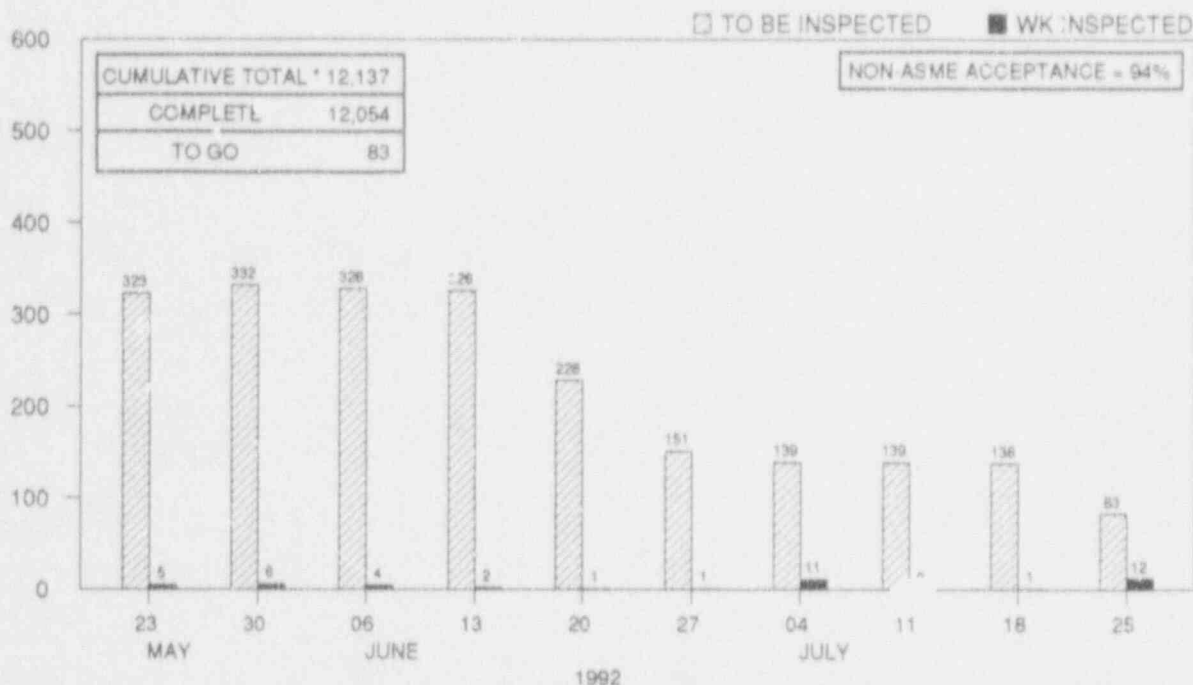


UNIT 2 - QC NON - ASME CONSTRUCTION WORK PACKAGE REVIEWS

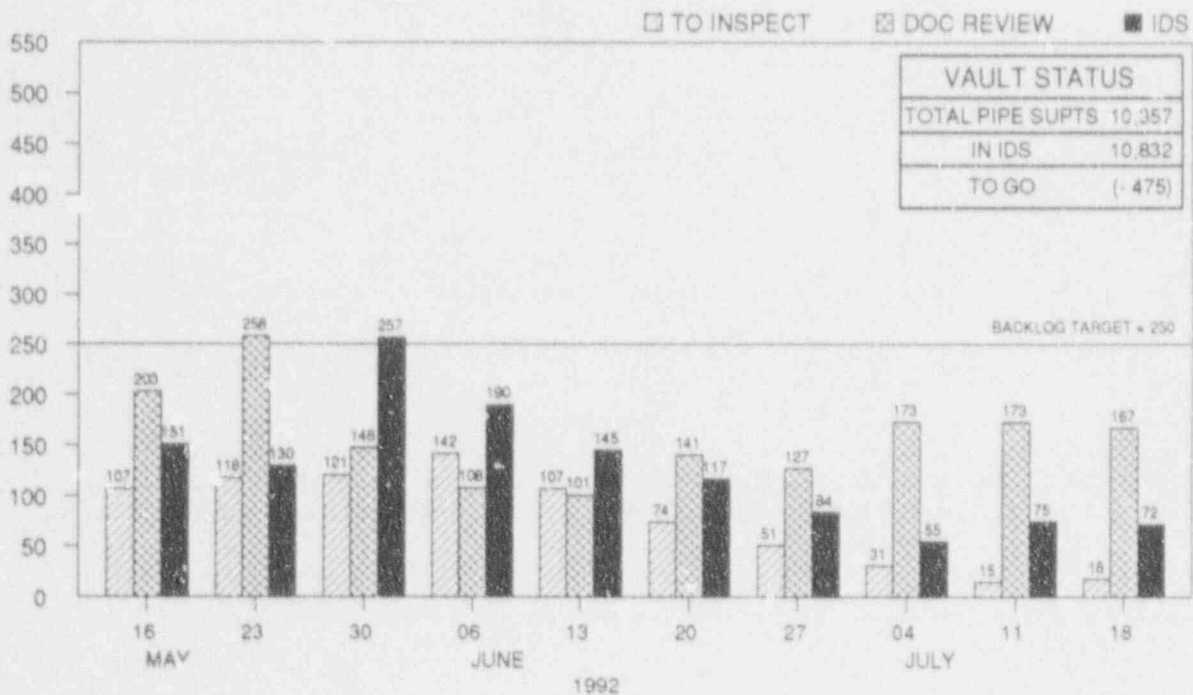


COMANCHE PEAK STEAM ELECTRIC STATION UNIT 2

NON-ASME QC QC BACKFIT INSPECTION



ASME QC PIPE SUPPORT STATUS

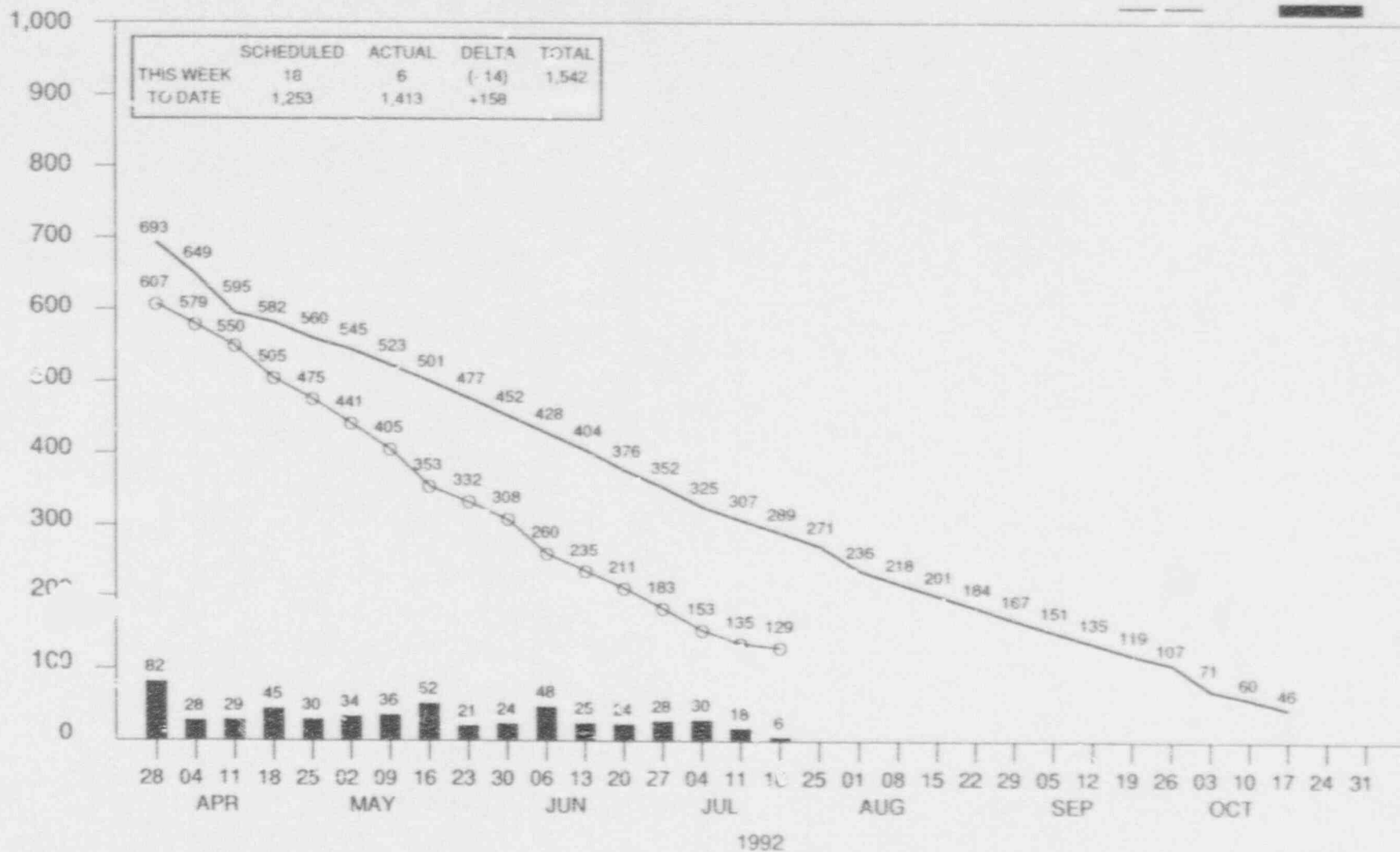


COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

TOTAL PROJECT NCRs/CDRs

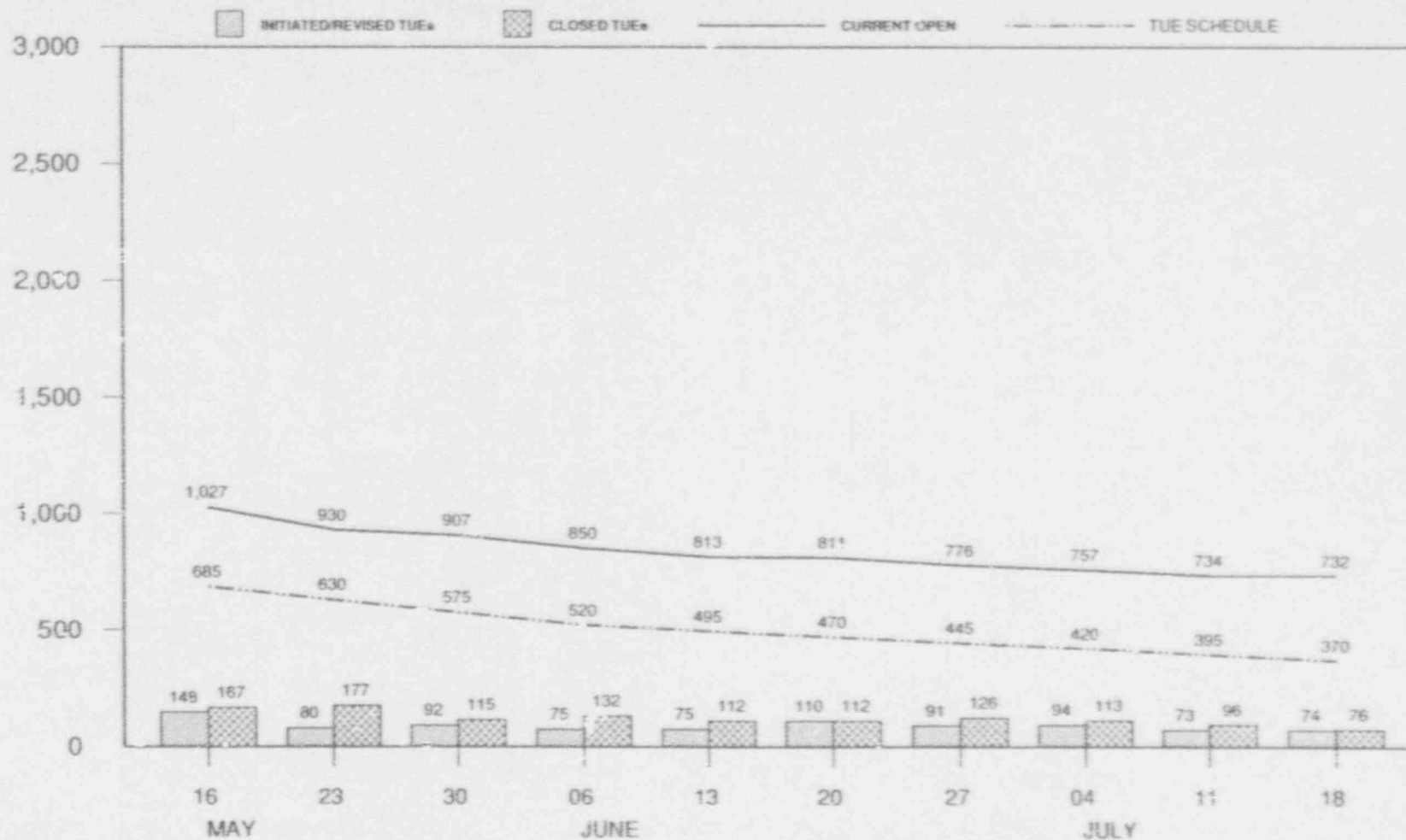
ACTUAL OPEN NCR'S
 SCHEDULED
 CLOSED NCR'S



COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

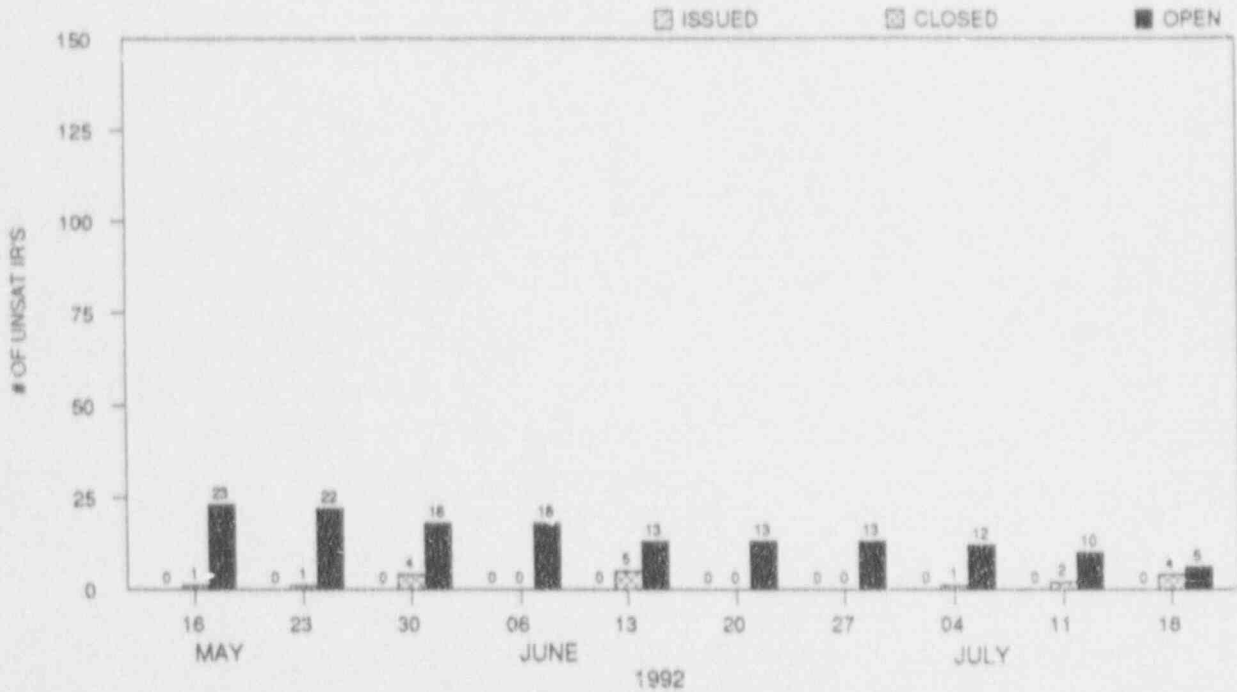
TOTAL PROJECT TU EVALUATION FORMS



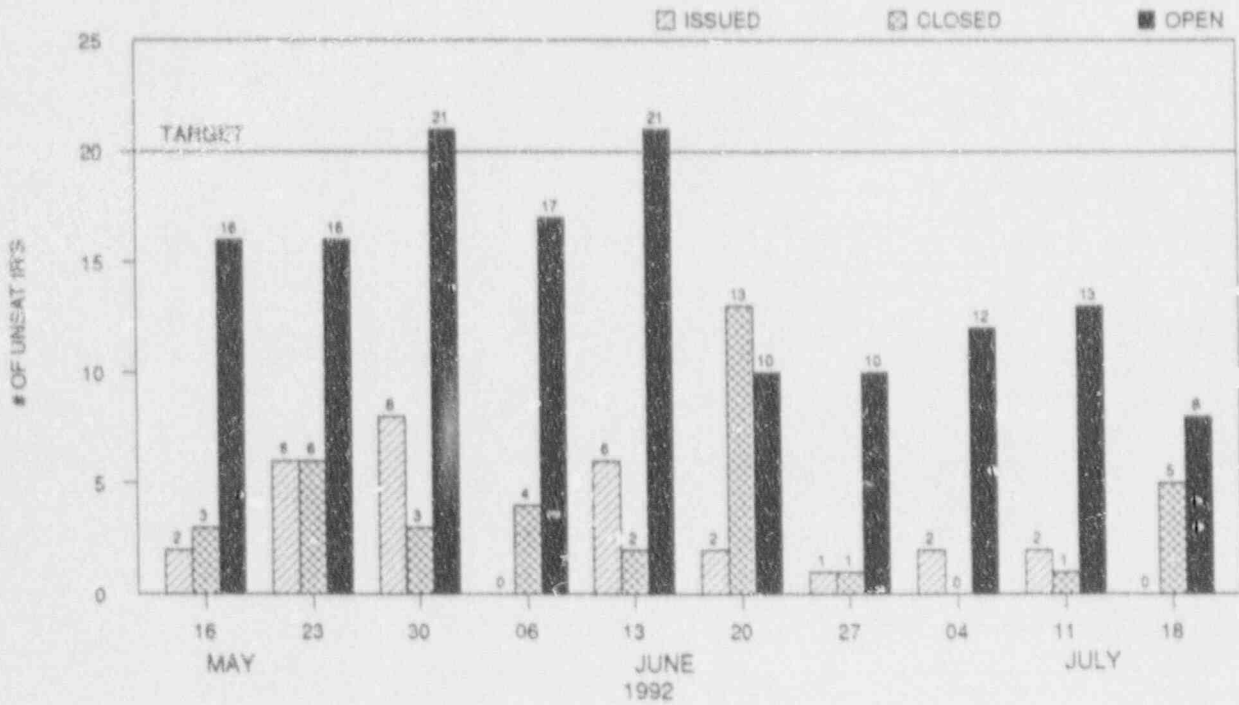
1992

COMANCHE PEAK STEAM ELECTRIC STATION UNIT 2

QC/ENGINEERING BACKFIT OPEN UNSAT IR WORKOFF

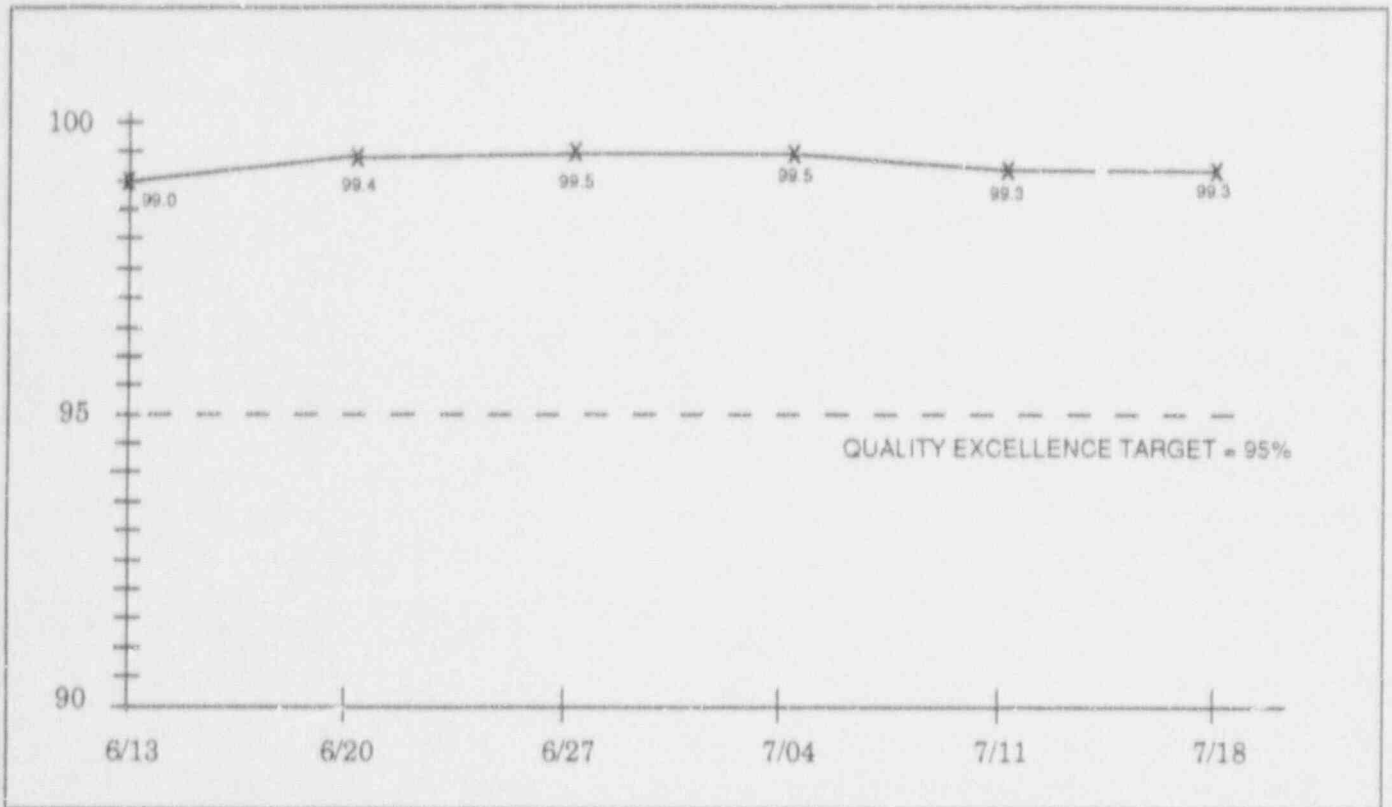


QC PROGRAM'S UNSAT IR'S



QUALITY ACCOUNTABILITY

OVERALL UNIT 2 INSPECTION ACTIVITIES



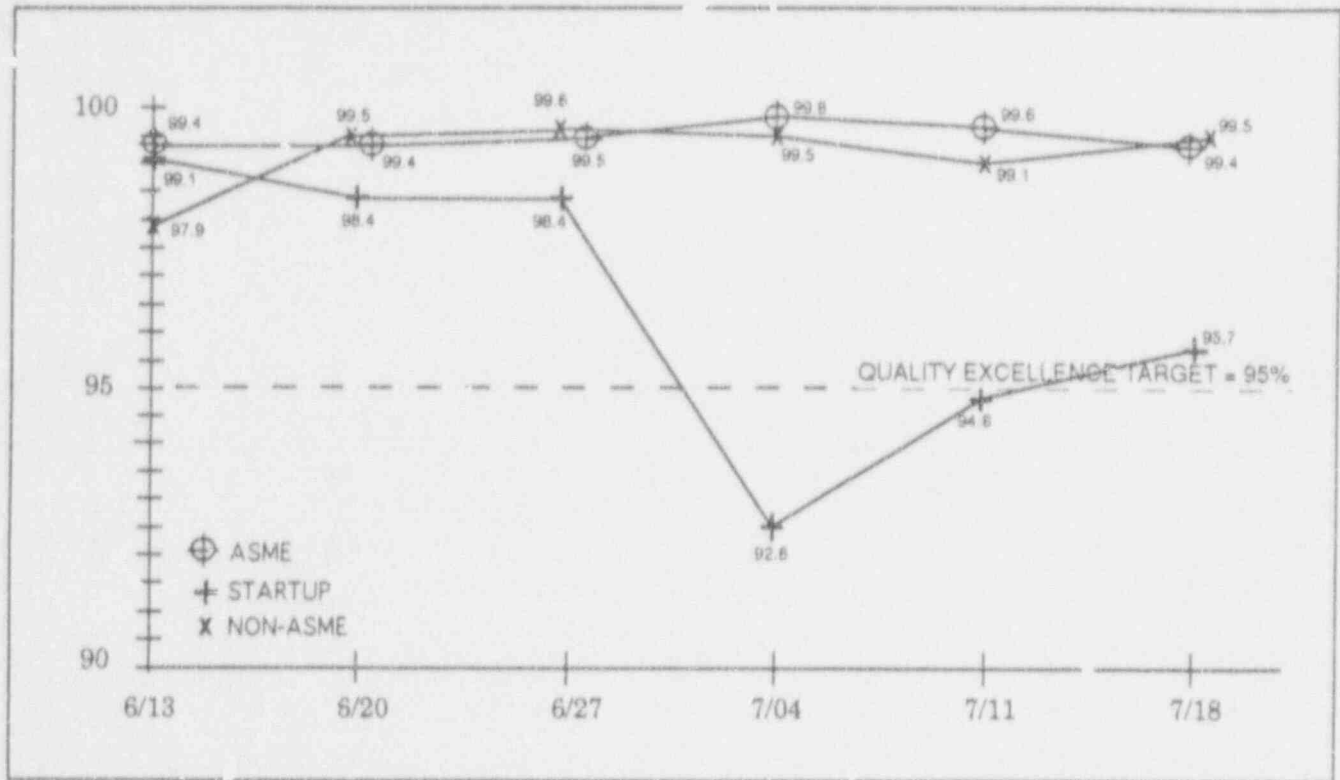
DISCIPLINE	WEEKLY QUALITY LEVELS					CURRENT WEEK'S TOTALS			* 6 WEEK SUMMARY		REMARKS
	6/13 QL	6/20 QL	6/27 QL	7/04 QL	7/11 QL	7/18 QL	INSP	REJ	AVG %	QL TREND	
ASME	99.4	99.4	99.5	99.8	99.6	99.4	1564	9	99.5	0.04	
STARTUP	99.1	98.4	98.4	92.6	94.8	95.7	92	4	96.7	-0.97	
NON-ASME	97.9	99.5	99.6	99.5	99.1	99.5	1189	6	99.2	0.19	
TOTALS	99.0	99.4	99.5	99.5	99.3	99.3	2845	19	99.3	0.04	
Trend	A positive (+) change reflects improving quality levels A negative (-) change reflects declining quality level										

Housekeeping, Equipment PM, Commodity Verification (II/I) and Program Monitoring (Inspector Performance, Limited Frequency, etc.) is not included in trending statistics. Monitoring unsatisfactory Inspection Reports are reviewed under the Quality Accountability Program for recurring problems and tracked to ensure timely resolution. The following chart represents the last six weeks of Monitoring findings.

MONITORING PROGRAM	6/13	6/20	6/27	7/04	7/11	7/18
Housekeeping	3	3	3	1	3	0
Equipment (PM)	1	0	0	0	0	0
Commodity Verification	0	0	0	0	0	0
Programs	1	0	0	0	0	0
Testing/Startup	5	8	0	0	0	1

NOTE: This area is reserved for discussions related to those areas not meeting the quality level, all areas meet the quality level for the current week.

QUALITY ACCOUNTABILITY INSPECTION ACTIVITIES BY MAJOR ORGANIZATION AND DISCIPLINE



DISCIPLINE	WEEKLY QUALITY LEVELS					CURRENT WEEK'S TOTALS			6 WEEK SUMMARY		REMARKS
	6/13 QL	6/20 QL	6/27 QL	7/04 QL	7/11 QL	7/18 QL	INSP	REJ	AVG %	QL TREND	
ASME	99.4	99.4	99.5	99.8	99.6	99.4	1564	9	99.5	0.04	
STARTUP											
PM	100.0	100.0	100.0	100.0	100.0	100.0	1	0	100.0	0.00	
Mechanical	100.0	100.0	94.7	85.0	96.8	100.0	11	0	95.7	-0.55	
Electrical	98.7	97.6	100.0	100.0	93.1	94.4	72	4	96.8	-0.99	
I&C	100.0	100.0	100.0	80.0	100.0	100.0	8	0	97.8	-0.57	
TOTAL	99.1	98.4	98.4	92.6	94.8	95.7	92	4	96.7	-0.97	
NON-ASME											
Civil/Structural	97.8	97.1	100.0	96.9	100.0	100.0	138	0	98.9	0.49	
Structural (PWR)	89.2	100.0	100.0	0.0	100.0	0.0	0	0	92.3	0.00	
Electrical	99.2	99.7	99.6	99.7	98.8	99.4	1003	6	99.3	0.10	
Mechanics	100.0	100.0	97.8	100.0	100.0	100.0	22	0	99.5	0.06	
HVAC	100.0	100.0	100.0	100.0	100.0	0.0	0	0	100.0	0.00	
I&C	97.7	100.0	98.7	98.4	100.0	100.0	26	0	98.9	0.32	
TOTAL	97.9	99.5	99.6	99.5	99.1	99.5	1189	6	99.2	0.07	
TOTALS	99.0	99.4	99.5	99.5	99.3	99.3	2845	19	99.3	0.04	
QL Trend	A positive (+) change reflects improving quality levels A negative (-) change reflects declining quality level										

NOTE: This area is reserved for discussions related to those areas not meeting the quality level, all areas meet the quality level for the current week.

QUALITY CONTROL

HIGHLIGHTS

- CONTINUED HIGH QUALITY LEVEL
- COMPLETED INSPECTION ON LAST INSTRUMENT LOOP
- COMPLETED AMBIENT TEMPERATURE MEASUREMENTS FOR HFT
- VAULTED 10,685 ASME PIPE SUPPORT PACKAGES
- COMPLETED 21 N-5 PACKAGES
- CLOSED 4,647 NONCONFORMANCE REPORTS TO DATE OUT OF 4,700
- QUALITY ACCOUNTABILITY PROGRAM
 - 1,134 TUEs REVIEWED
 - 171 TUEs DISCUSSED IN PROJECT QAP
 - 53 TUEs ADDRESSED IN ENGINEERING QAP
 - 4 SPECIAL ACCOUNTABILITY SESSIONS
- TUE FORM COMMITTEE CONTINUES TO SCREEN FOR EARLY IDENTIFICATION OF ISSUES
- COORDINATING TRANSITION WITH OPERATIONS QC
- QC MONITORING / PARTICIPATION IN STATUP TESTING, TRANSITION PLANNING, AND PAPER CLOSURE ACTIVITIES

QUALITY CONTROL

CHALLENGES

- CONTINUE TO MAINTAIN QUALITY LEVELS ABOVE 95%
- CONTINUE TO ADDRESS PERSONNEL ERROR ISSUES
- CONTINUE CODE STAMPING ASME N-5 SYSTEMS
- CONTINUE CLOSURE OF NCRs AND TUEs
- VAULTING DOCUMENTATION

ABBREVIATIONS

ABR	AS BUILT RECONCILIATION
ACCESS	AUTOMATED CONFIGURATION CONTROL AND EQUIPMENT SUPPORT SYSTEM
ADC	ADVANCE DESIGN CHANGE
AOV	AIR OPERATED VALVE
BRH	BROWN AND ROOT HANGER DRAWING
BRHL	BROWN AND ROOT HANGER LOCATION DRAWING
BRP	BROWN AND ROOT PIPING DRAWING (ISOMETRIC)
BVR	BASEPLATE VERIFICATION REPORT
CAP/SSER	CORRECTIVE ACTION PROGRAM/SUPPLEMENTAL SAFETY EVALUATION REPORT
CCP	CENTRIFUGAL CHARGING PUMP
CDR	CONSTRUCTION DEFICIENCY REPORT
CDF	COMMITMENT DATE FORM
CMi	CONFIGURATION MANAGEMENT INSPECTION
CTH	CABLE TRAY HANGER
CWD	CONSTRUCTION WORK DOCUMENT
DCA	DESIGN CHANGE AUTHORIZATION
DCC	DOCUMENT CONTROL CENTER
DGB	DIESEL GENERATOR BUILDING
DM	DESIGN CHANGE AUTHORIZATION
DMRC	DESIGN MODIFICATION REVIEW GROUP
DR	DEFICIENCY REPORT
DRQR	DESIGN REVIEW AND QUALITY REVALIDATION (RE/DIESELS)
EA	ENGINEERING ASSURANCE
EAP	ENGINEERING ASSESSMENT PROCEDURE
ECD	ELECTRICAL CONNECTION DIAGRAM
ECCS	EMERGENCY CORE COOLING SYSTEM
ERF	EMERGENCY RESPONSE FACILITIES
FCN	FIELD CHANGE NOTICE
FCST	FORECAST
FP	FIRE PROTECTION
FSSA	FIRE SAFE SHUTDOWN ANALYSIS
HELB	HIGH ENERGY LINE BREAK
HFT	HOT FUNCTIONAL TEST
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ICD	INSTRUMENT CONNECTION DIAGRAM
IDM	INTERFACE DESIGN MODIFICATION
ILRT	INTEGRATED LEAK RATE TEST
INDMS	INTEGRATED NUCLEAR DATA MANAGEMENT SYSTEM
IR	INSPECTION REPORT
ISEG	INDEPENDENT SAFETY ENGINEERING GROUP

ISU	INITIAL STARTUP
ITS	INTEGRATED TEST SEQUENCE
JPM	JOBS PERFORMANCE MEASURE
JTG	JOINT TEST GROUP
LBB	LEAK BEFORE BREAK
LLRT	LOCAL LEAK RATE TEST
MCD	MASTER CONTROL DRAWING
MFL	MECHANICAL EQUIPMENT LIST
MUV	MANUALLY OPERATED VALVE
MOBAT	MOBILE OPERATED VALVE ACTUATOR TESTING
NR	NON-RELIANCE REPORT
OLA	OPTIMIZED FUEL ASSEMBLY
ORAT	OPERATIONAL READINESS ASSESSMENT TEAM
PT	PLANT PERSONNEL TRANSFER
PM	PREVENTIVE MAINTENANCE
PRDP	PROBLEM REVIEW DOCUMENTATION PACKAGE
PSAS	PIPE STRESS AND SUPPORT
QAP	QUALITY ACCOUNTABILITY PROGRAM
QC	QUALITY CONTROL
RCA	RADIOLOGICAL CONTROLLED AREA
REA	REQUEST FOR ENGINEERING ASSISTANCE
RF02	REFUELING OUTAGE #2
RIV	REGION IV
RX	REACTOR VESSEL
SAP	STARTUP ADMINISTRATIVE PROCEDURE
SID	SYSTEM INFORMATION DOCUMENT
SIT	STRUCTURAL INTEGRITY TEST
SORC	STATION OPERATIONS REVIEW COMMITTEE
STE	SYSTEM TEST ENGINEER
TS	TECHNICAL SPECIFICATION
TUE	TU EVALUATION FORM