

NOV 30 1990

Docket Nos. 50-259, 50-260, 50-296  
License Nos. DPR-33, DPR-52, DPR-68

Mr. Oliver D. Kingsley, Jr.  
Senior Vice President, Nuclear Power  
Tennessee Valley Authority  
6N 38A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

Dear Mr. Kingsley:

SUBJECT: SUMMARY OF NOVEMBER 19, 1990 TVA/NRC MEETING ON BROWNS FERRY

This letter refers to the meeting held on November 19, 1990, at the Browns Ferry Nuclear Plant in Decatur, Alabama. The purpose of the meeting was to discuss the plant restart schedule, physical plant separation, and project plan review. A list of attendees, a summary of the meeting, and a copy of your handout are enclosed.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code 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 matter, please contact us.

Sincerely,

Original Signed By  
**BRUCE A. WILSON**

Bruce A. Wilson, Chief  
TVA Projects

Enclosures:

1. List of Attendees
2. Meeting Summary
3. Handout

cc w/encls: (See page 2)

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PDR ADOCK 05000259  
P PDR

IE45  
~~102~~ 11

Tennessee Valley Authority

2

cc w/encls:

M. Runyon, Chairman  
Tennessee Valley Authority  
ET 12A 7A  
400 West Summit Hill Drive  
Knoxville, TN 37902

Director  
Tennessee Valley Authority  
ET 12A 11A  
400 West Summit Hill Drive  
Knoxville, TN 37902  
Chattanooga, TN 37402-2801

J. B. Waters, Director  
Tennessee Valley Authority  
ET 12A 9A  
400 West Summit Hill Drive  
Knoxville, TN 37902

W. F. Willis  
Chief Operating Officer  
ET 12B 16B  
400 West Summit Hill Drive  
Knoxville, TN 37902

D. Nunn, Vice President  
Nuclear Engineering  
Tennessee Valley Authority  
400 West Summit Hill Drive  
WT 12A 12A  
Knoxville, TN 37902

Dr. M. O. Medford  
Vice President, Corporation Nuclear  
Assurance, Licensing, and Fuels  
Tennessee Valley Authority  
6N 38A Lookout Place  
Chattanooga, TN 37402-2801

Chairman, Limestone County  
Commission  
P. O. Box 188  
Athens, AL 35611

Dr. Henry Myers, Science Advisor  
Committee on Interior and  
Insular Affairs  
U. S. House of Representatives  
Washington, D. C. 20515

O. J. Zeringue, Site Director  
Browns Ferry Nuclear Plant  
Tennessee Valley Authority  
P. O. Box 2000  
Decatur, AL 35602

E. G. Wallace, Manager  
Nuclear Licensing and  
Regulatory Affairs  
Tennessee Valley Authority  
5N 157B Lookout Place

P. Carrier, Site Licensing Manager  
Browns Ferry Nuclear Plant  
Tennessee Valley Authority  
P. O. Box 2000  
Decatur, AL 35602

L. W. Myers, Plant Manager  
Browns Ferry Nuclear Plant  
Tennessee Valley Authority  
P. O. Box 2000  
Decatur, AL 35602

TVA Representative  
Rockville Office  
11921 Rockville Pike  
Suite 402  
Rockville, MD 20852

General Counsel  
Tennessee Valley Authority  
400 West Summit Hill Drive  
ET 11B 33H  
Knoxville, TN 37902

Claude Earl Fox, M.D.  
State Health Officer  
State Department of Public Health  
State Office Building  
Montgomery, AL 36130

State of Alabama

bcc w/encls: (See page 3)

NOV 30 1990

Tennessee Valley Authority

3

bcc w/encls:

S. D. Ebnetter, RII

S. C. Black, NRR

P. J. Kellogg, TVAP/RII

J. Rutberg, OGC

M. S. Callahan, GPA/CA

R. H. Bernhard, TVAP/RII

G. C. Lainas, NRR

F. J. Hebdon, NRR

T. M. Ross, NRR

NRC Document Control Desk

DRP Section Chief

NRC Resident Inspector

U.S. Nuclear Regulatory Commission

Route 12, Box 637

Athens, AL 35611

TVA/RII

*BAW*

PKellogg:vyg

11/30/90

ENCLOSURE 1

LIST OF ATTENDEES

Nuclear Regulatory Commission

S. D. Ebnetter, Regional Administrator  
B. A. Wilson, Chief, TVA Projects  
F. J. Hebdon, Project Directorate II-4  
P. J. Kellogg, Section Chief, TVA Projects Section 2  
C. A. Patterson, Restart Manager, Browns Ferry Nuclear Plant  
W. Bearden, Resident Inspector, Browns Ferry Nuclear Plant  
E. F. Christnot, Resident Inspector, Browns Ferry Nuclear Plant  
P. G. Humphrey, Resident Inspector, Browns Ferry Nuclear Plant  
K. D. Ivey, Resident Inspector, Browns Ferry Nuclear Plant

Tennessee Valley Authority

O. D. Kingsley, Senior Vice President, Nuclear Power  
O. J. Zeringue, Site Director, Browns Ferry Nuclear Plant (BFNP)  
H. Weber, Engineering and Modification Restart Manager, BFNP  
J. Rupert, Project Engineer, BFNP  
L. Myers, Plant Manager, BFNP  
M. Herrell, Operations Manager, BFNP  
P. Salas, Compliance and Licensing Supervisor, BFNP  
B. McKinney, Technical Support Manager, BFNP  
G. Turner, Site Quality Manager, BFNP  
C. Crane, Work Control Supervisor

ENCLOSURE 2

MEETING SUMMARY

A management meeting was held at the Browns Ferry Nuclear Plant with the Tennessee Valley Authority (TVA), on November 19, 1990 to discuss Browns Ferry restart schedule, physical plant separation, and project plan overview. The meeting was opened by the Senior Vice President, Nuclear Power. A presentation of operator certificate was conducted by the NRC Regional Administrator.

The schedule overview was given by the Site Director. The restart effort was characterized as being 10 days behind a December 15, fuel load date.

The Operations Manager gave a presentation on the separation of Unit 2 from Units 1 and 3. A plan for the completion of instruction and installation of barriers, equipment marking, and personnel access control was requested by the NRC. TVA indicated a plan would be provided soon after January 1, 1991.

The Site Licensing Manager gave a presentation on the project plan. This presentation included a review of major inspections completed, completion of TMI items, completion of bulletins and generic letters, and submittals to the NRC. The importance of the requested Technical Specification changes was stressed by TVA.

The meeting was then opened to questions from the members of the public and press who were present.

The Senior Vice President, Nuclear Power then closed the meeting by thanking everyone for their participation.

TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT

TVA/NRC MANAGEMENT MEETING

NOVEMBER 19, 1990

# AGENDA

- |   |         |
|---|---------|
| I. OPERATOR CERTIFICATE<br>PRESENTATION | NRC     |
| II. OPENING REMARKS                     | TVA/NRC |
| III. SCHEDULE OVERVIEW                  | TVA     |
| IV. PHYSICAL PLANT SEPARATION           | TVA     |
| V. PROJECT PLAN REVIEW                  | TVA     |
| VI. CLOSING REMARKS                     | TVA/NRC |

TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT

TVA/NRC MANAGEMENT MEETING  
SCHEDULE OVERVIEW

NOVEMBER 19, 1990



## SCHEDULE OVERVIEW

<u>MILESTONES</u>	<u>EARLY</u>	<u>LATE</u>
• FUEL LOAD	12/15-01/03	01/25-02/14
• ILRT	01/12-02/03	02/22-03/14
• HYDRO	01/17-02/07	02/28-03/20
• CRITICALITY	02/05-02/26	03/21-04/10

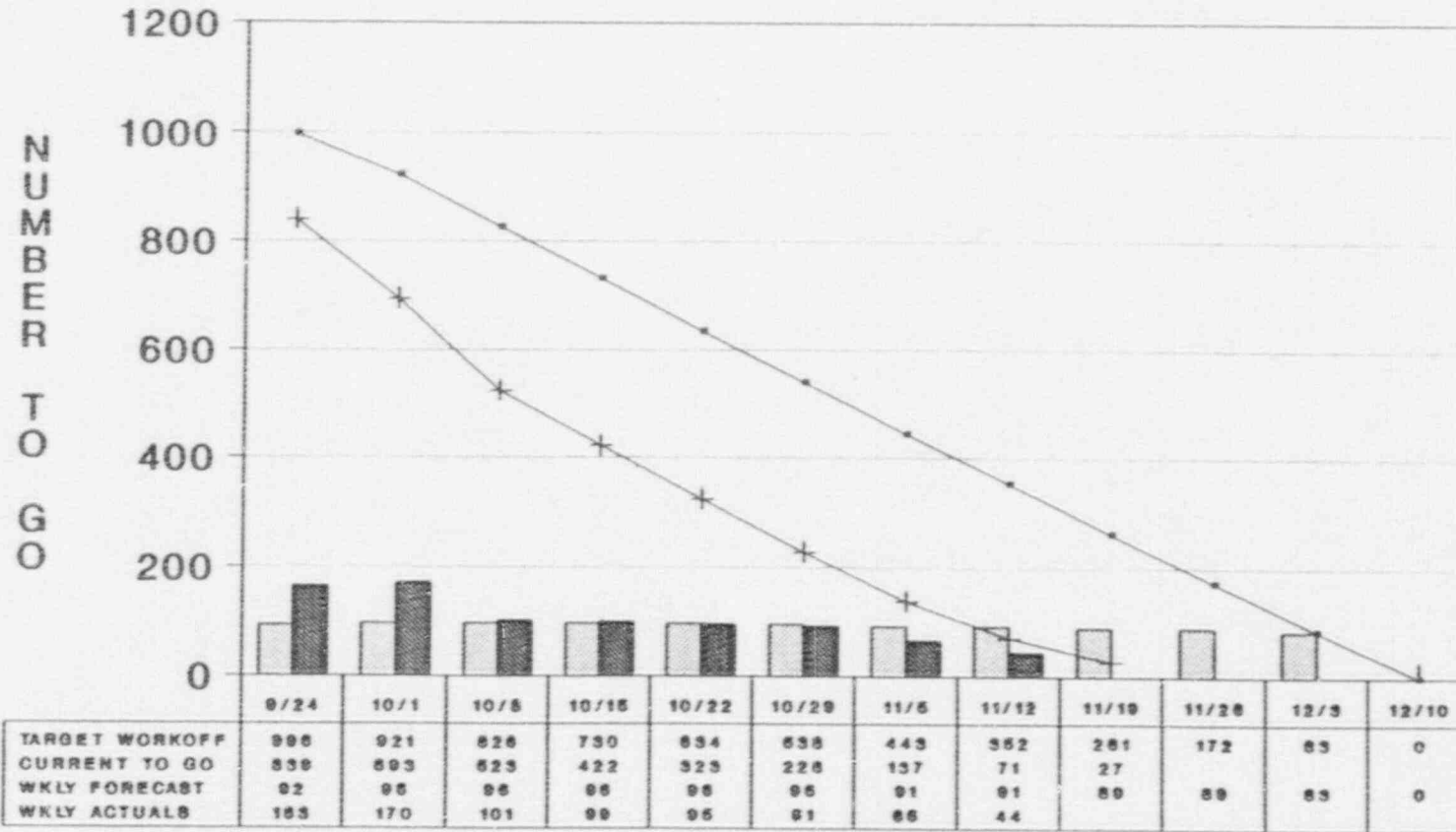
## SCHEDULE EXPOSURE

- PMT BREAKAGE
- COORDINATION/INTEGRATION OF PMTs, SIs & RESTART TESTS ( eg, HVAC)
- MATERIAL AVAILABILITY

## STATUS OF SPOC PROCESS

- 21 OF 35 SYSTEMS REQUIRED FOR FUEL LOAD ARE SPOC COMPLETE
- 37 OF 80 SYSTEMS REQUIRED FOR RESTART ARE SPOC COMPLETE

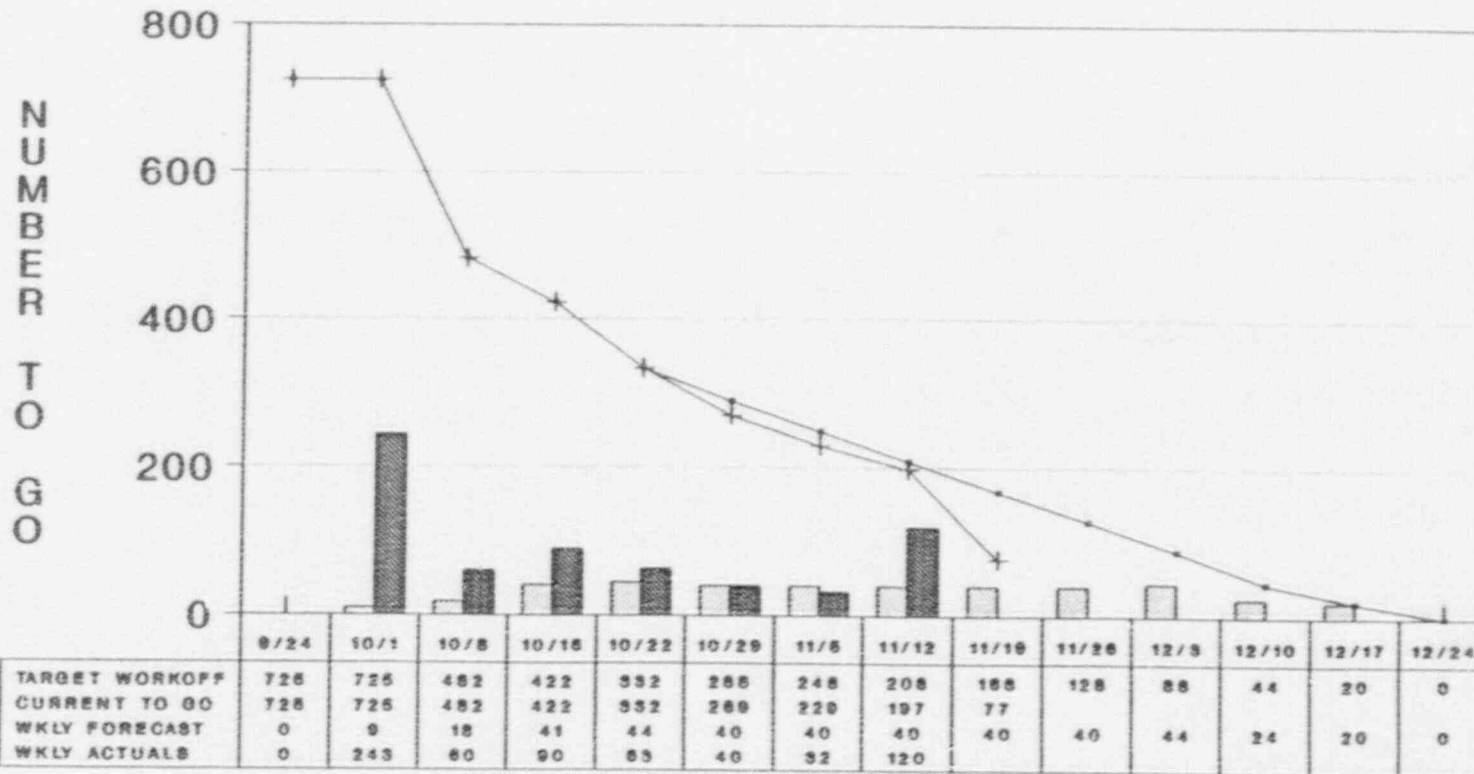
# TOTAL DD's



WEEK BEGINNING

TARGET WORKOFF   
  CURRENT TO GO   
  WKLY FORECAST   
  WKLY ACTUALS

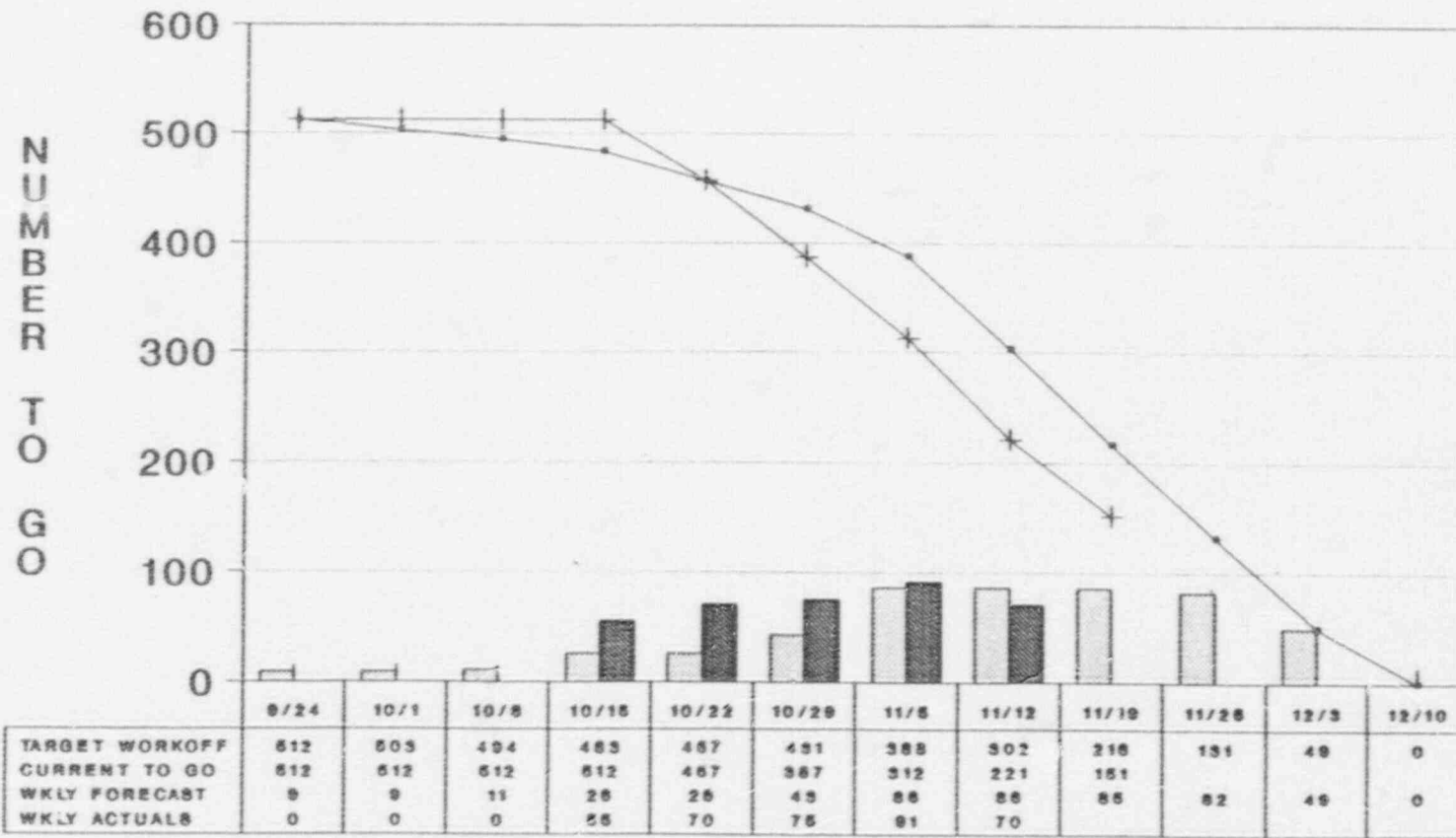
# PRE-U2C5 ECN REVIEW FOR DRAWING UPGRADE



WEEK BEGINNING

TARGET WORKOFF   
  CURRENT TO GO   
  WKLY FORECAST   
  WKLY ACTUALS

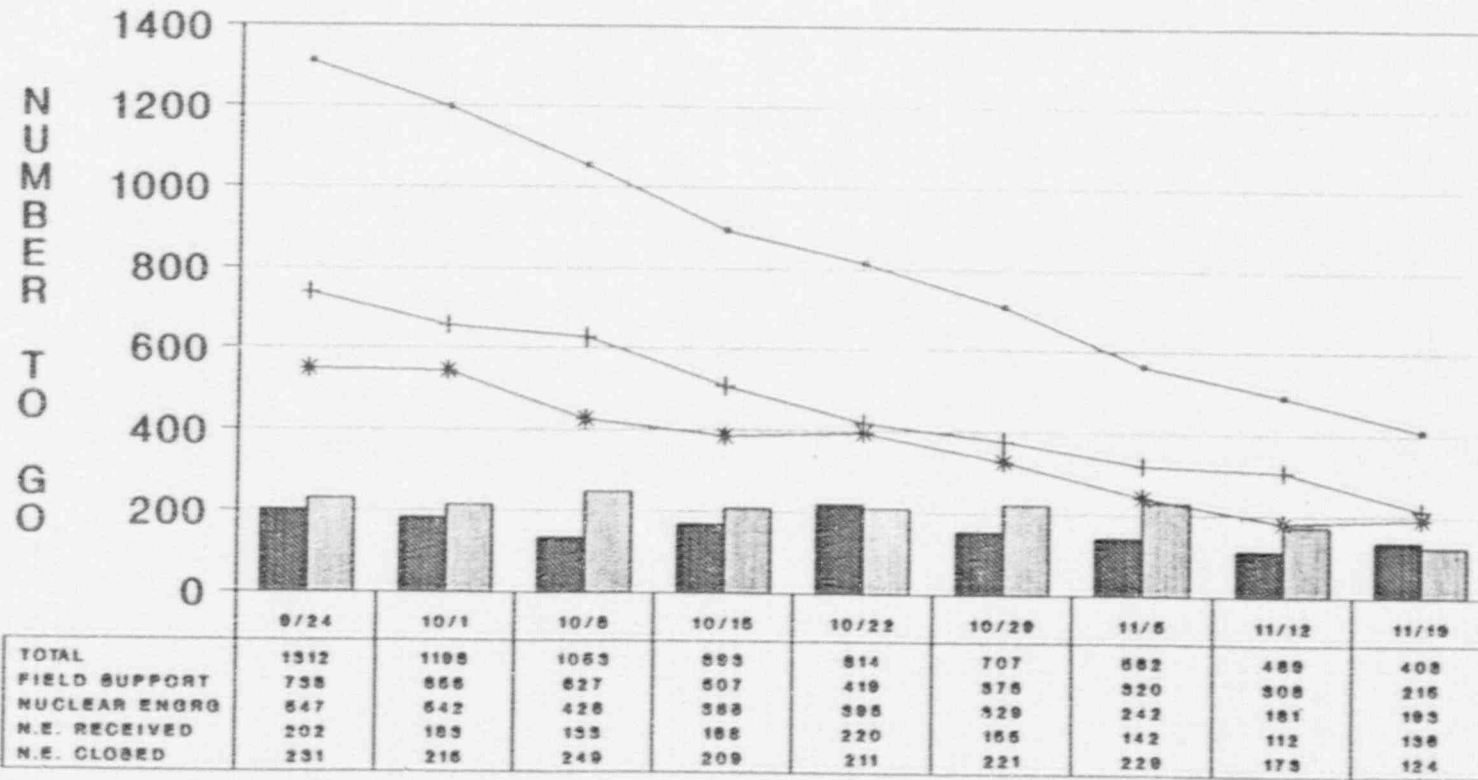
# SECONDARY DRAWING



WEEK BEGINNING

TARGET WORKOFF
  CURRENT TO GO
  WKLY FORECAST
  WKLY ACTUALS

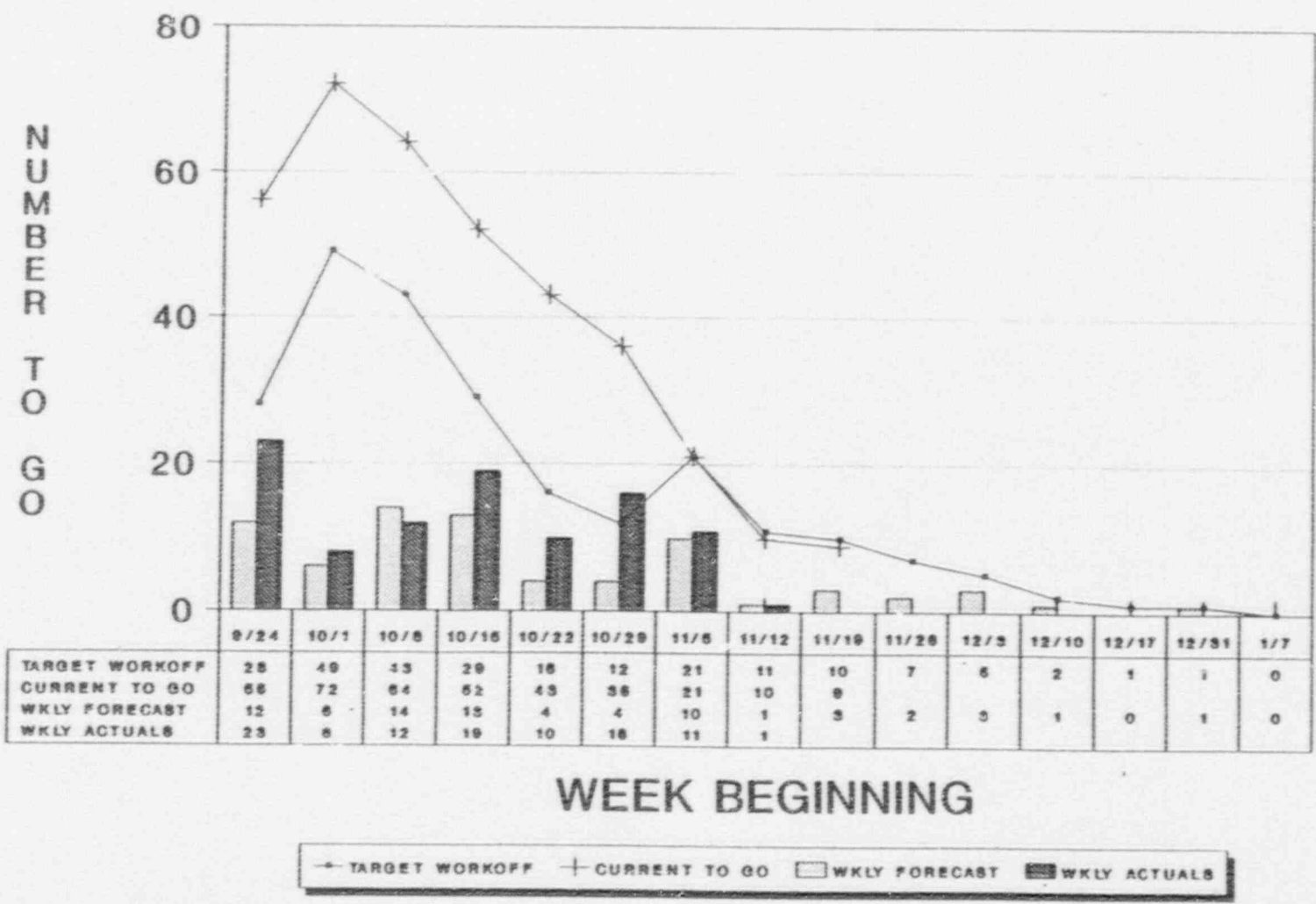
# FDCN PERFORMANCE TREND PROJECT TOTAL



WEEK BEGINNING

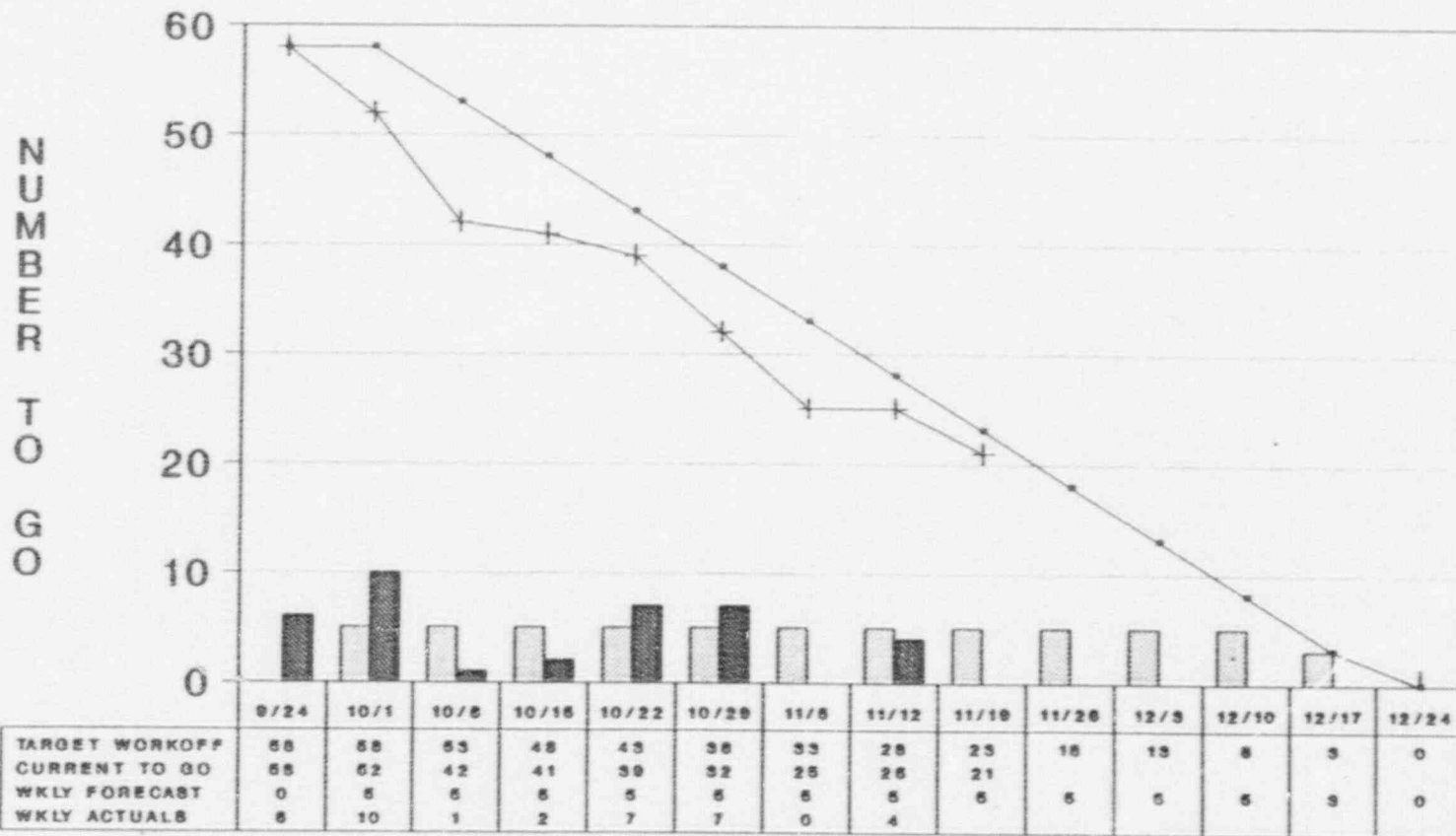
◆ TOTAL    + FIELD SUPPORT    \* NUCLEAR ENGRG    ■ M.E. RECEIVED    □ N.E. CLOSED

# TOTAL CALC's



TARGET WORKOFF
  CURRENT TO GO
  WKLY FORECAST
  WKLY ACTUALS

# PRE U2C5 CLOSURES

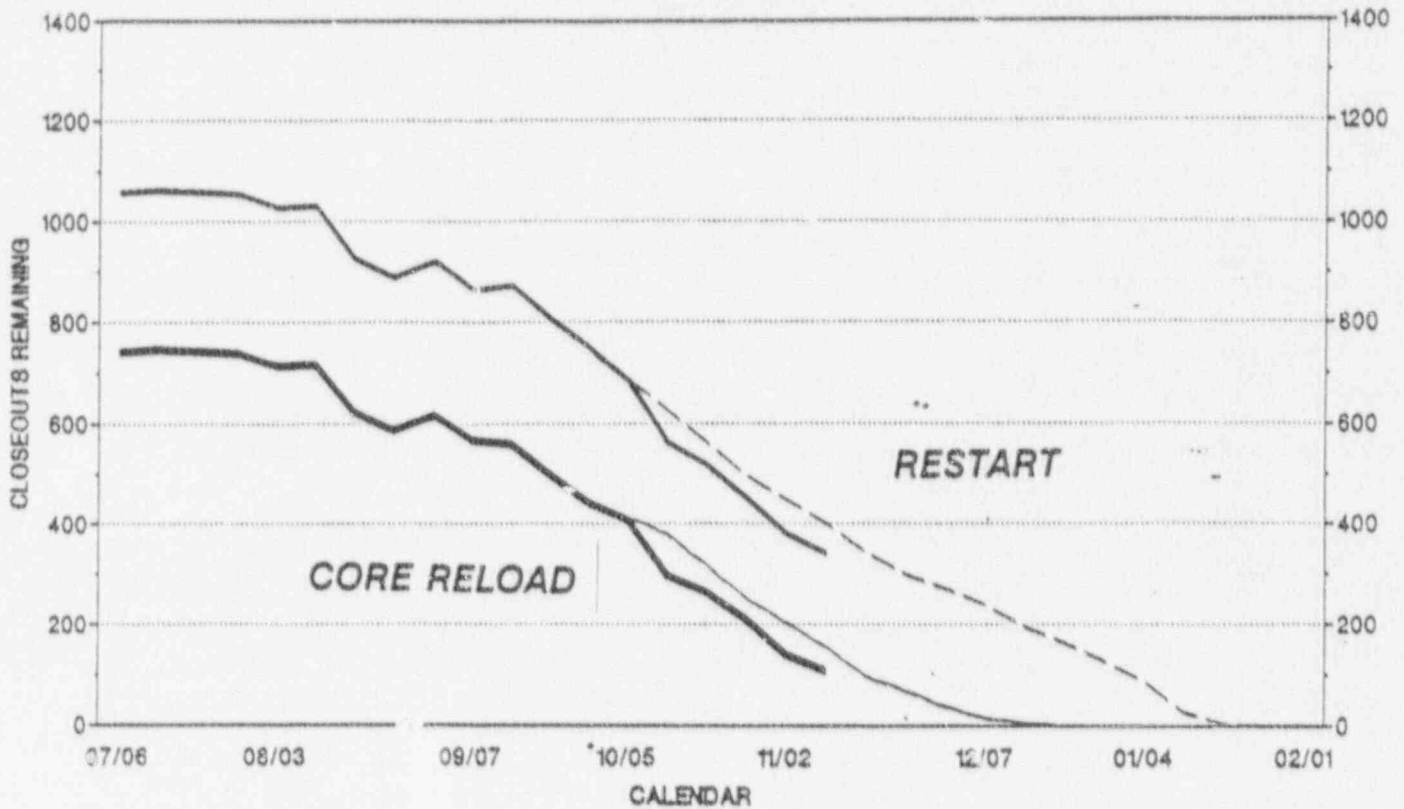


WEEK BEGINNING

+ TARGET WORKOFF    + CURRENT TO GO    □ WKLY FORECAST    ■ WKLY ACTUALS



**BROWNS FERRY NUCLEAR PLANT  
WORKPLAN CLOSEOUTS**



**Total Required = 4,765**

**CORE RELOAD TOTALS -**

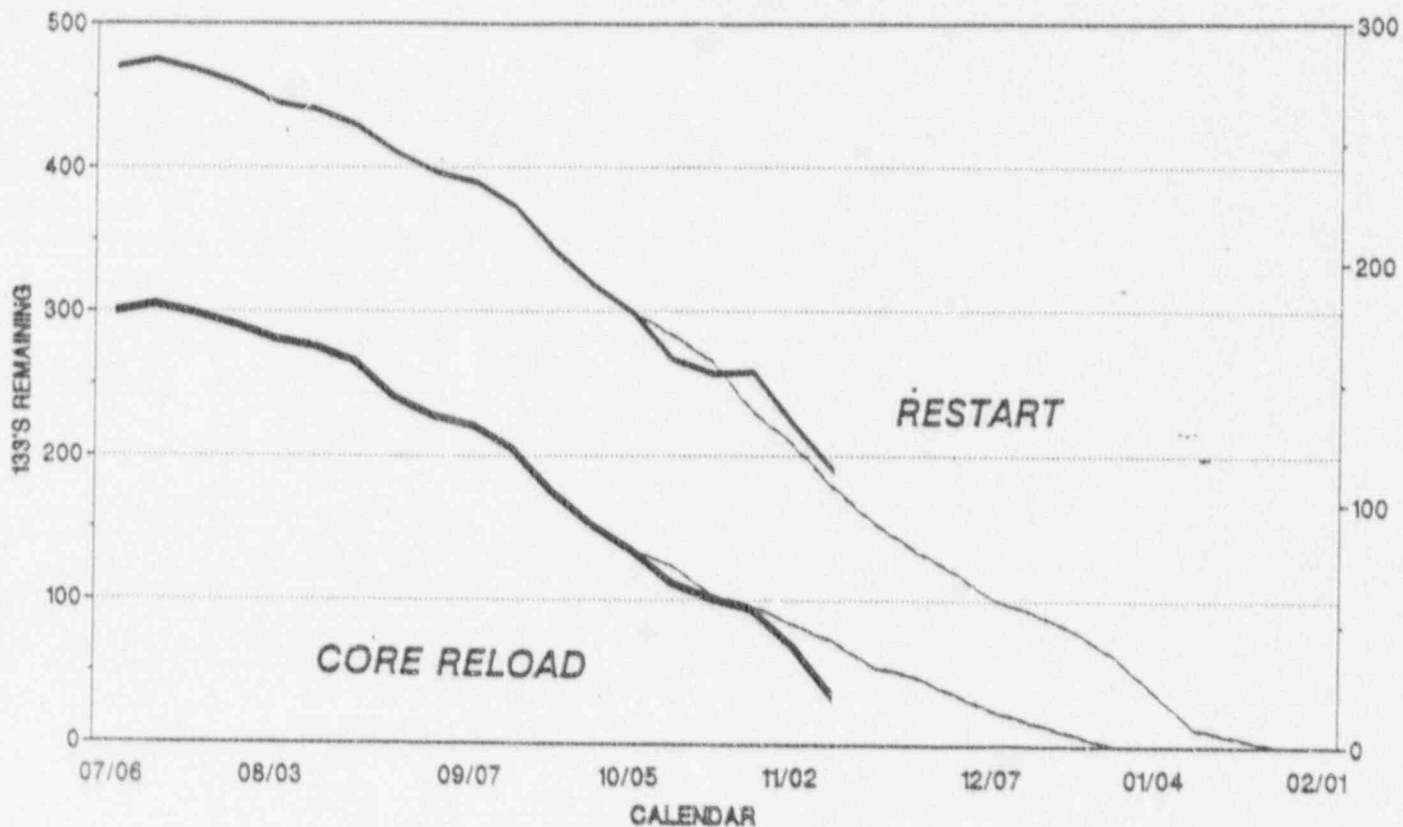
WP Closeouts Remaining = 108  
 Closed Out Last Week for Core Reload = 42  
 Restrained = 57  
 Available = 51

**RESTART TOTALS -**

WP Closeouts Remaining = 340  
 Closed Out Last Week for Restart = 68  
 Restrained = 279  
 Available = 61



**BROWNS FERRY MODIFICATIONS  
ECN/DCN CLOSEOUTS**



Total Required = 1,639

**CORE RELOAD TOTALS -**

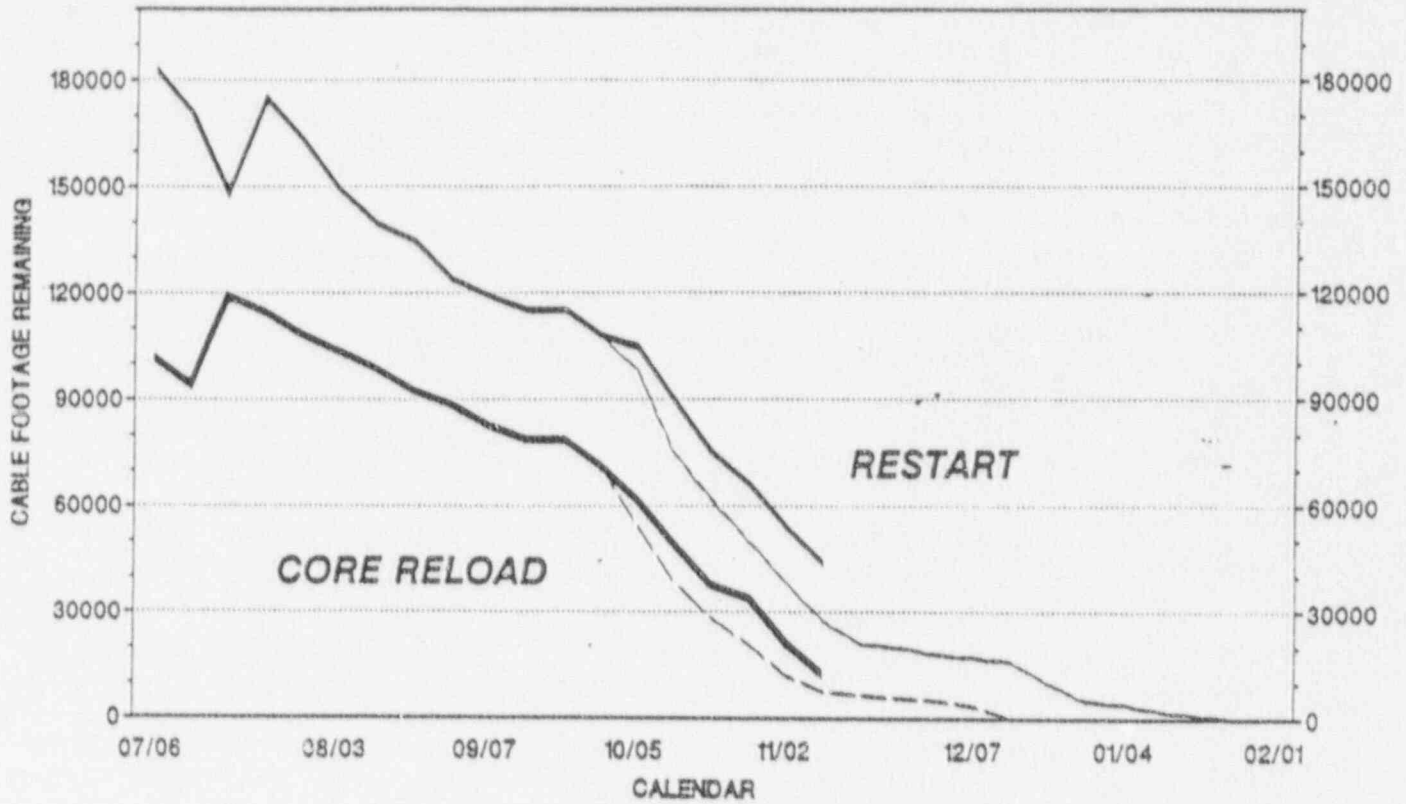
Remaining for Restart = 190

**RESTART TOTALS -**

Remaining for Core Reload = 34

Final 133's issued = 32  
 Preliminary 133's Issued = 28  
 Preliminary 133's Backlogged = 19

**BROWNS FERRY MODIFICATIONS  
CABLE INSTALLATION**



**Total Required = 513,878**

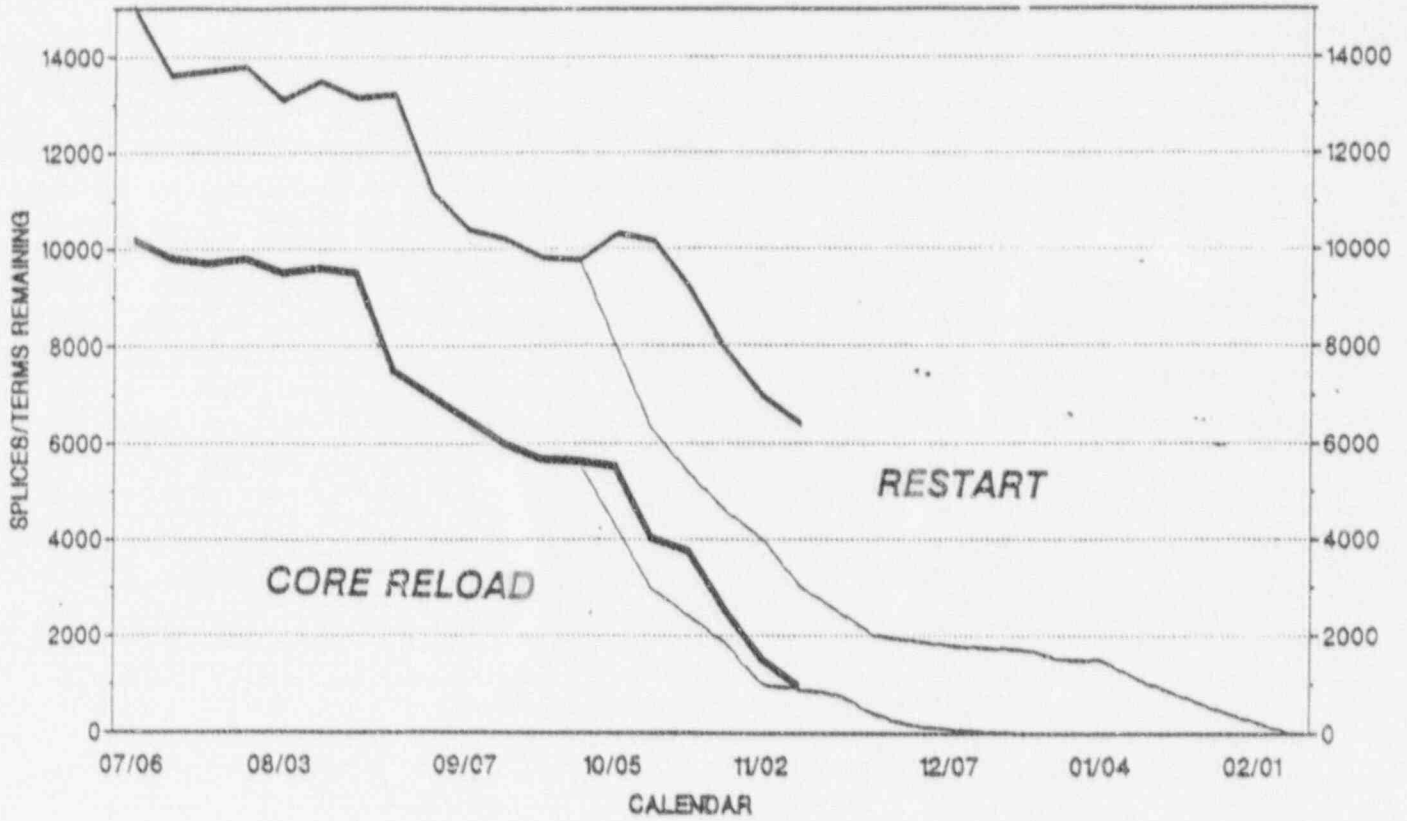
**CORE RELOAD TOTALS -**

Remaining for Core Reload = 12,543  
 Pulled Last Week for Core Reload = 14,828

**RESTART TOTALS -**

Remaining for Restart = 43,807  
 Pulled last Week for Restart = 17,378

**BROWNS FERRY MODIFICATIONS  
SPLICES/TERMINATIONS**



**Total Required = 35,889**

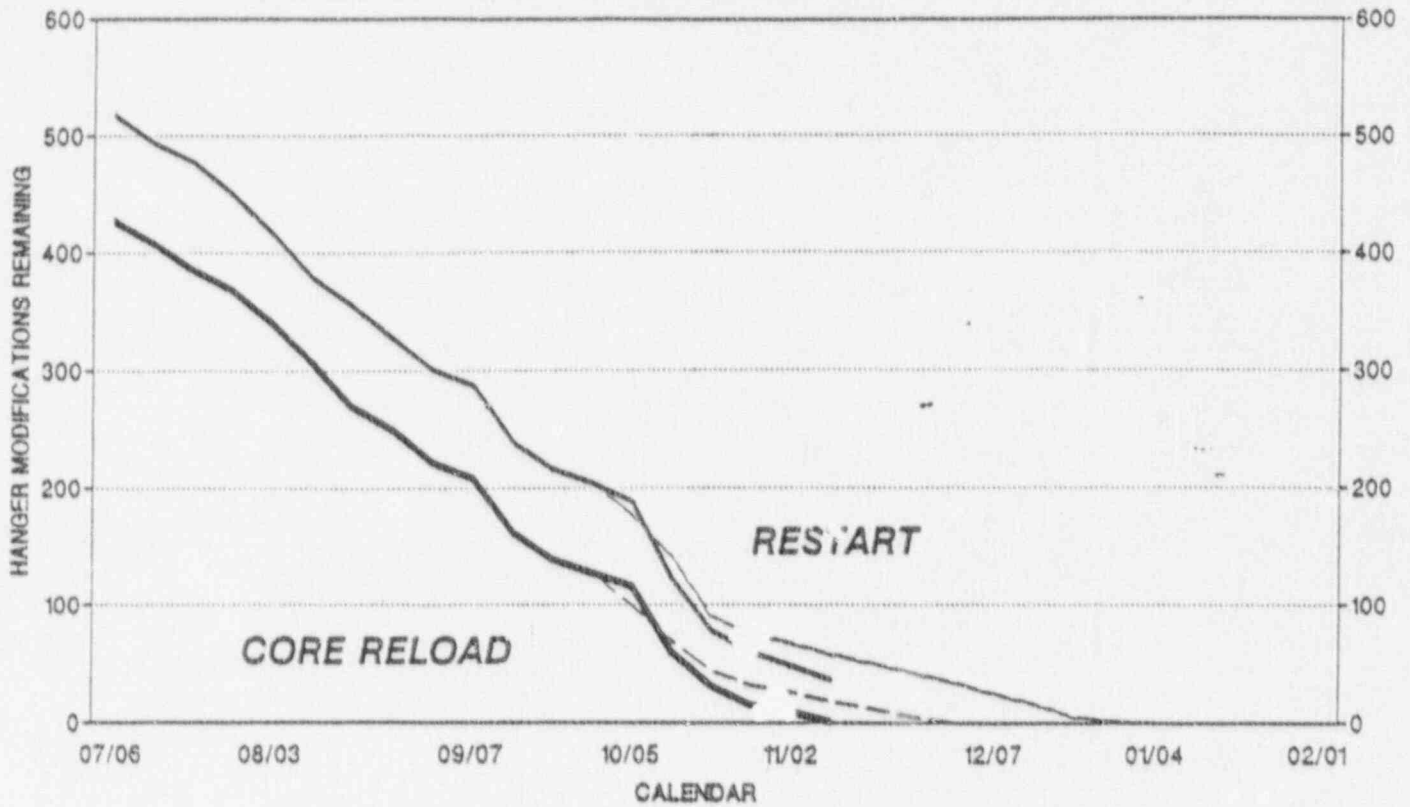
**CORE RELOAD TOTALS -**

Remaining for Core Reload = 941  
Completed Last Week for Core Reload = 779

**RESTART TOTALS -**

Remaining for Restart = 6,400  
Completed Last Week for Restart = 901

**BROWNS FERRY MODIFICATIONS  
HANGER MODS - LARGE BORE**



**Total Hangers Required = 1,469**

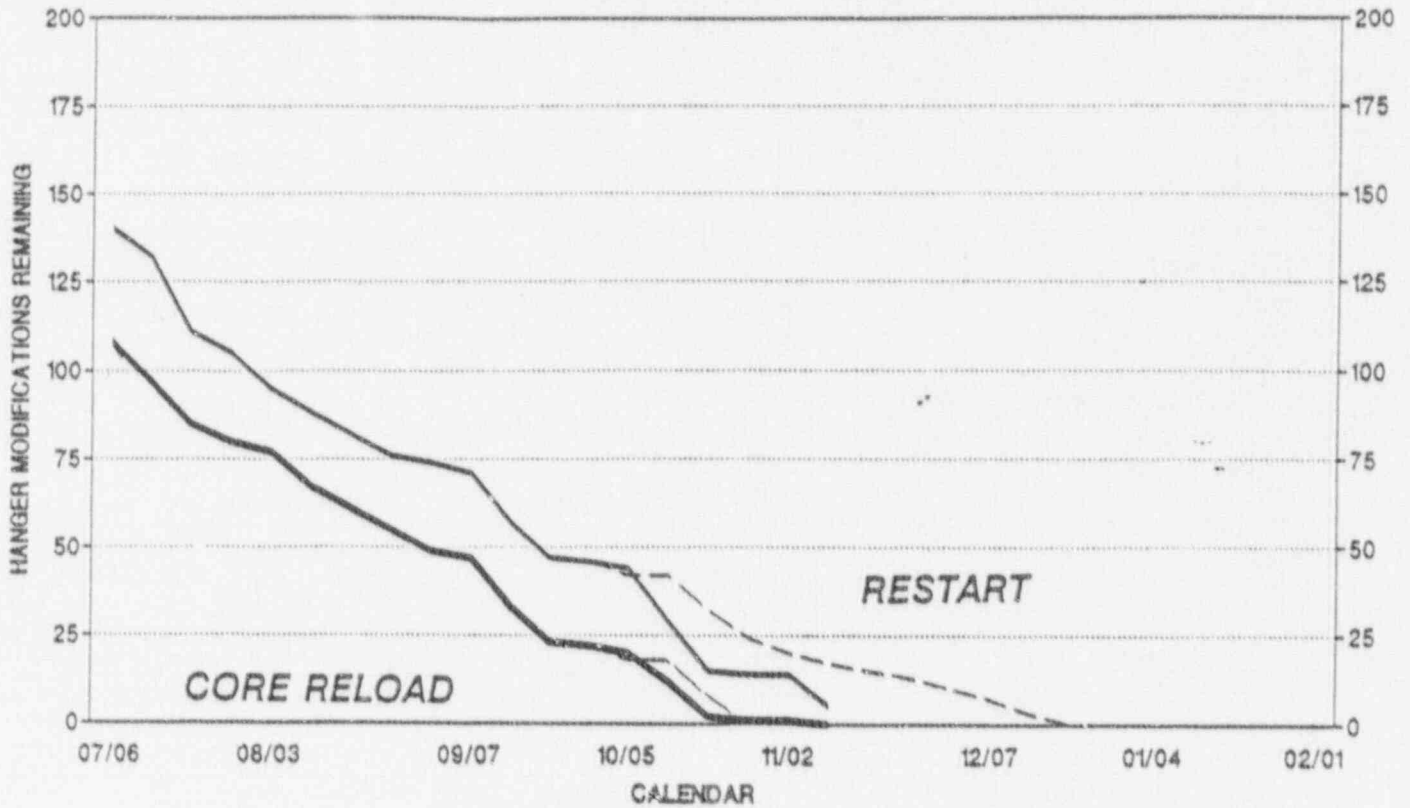
**CORE RELOAD TOTALS -**

Hangers Remaining = 1  
Hangers Completed Last Week = 8  
Fitter Work Left for Core Reload = 1

**RESTART TOTALS -**

Hangers Remaining = 36  
Hangers Completed Last Week = 12  
Fitter Work Left for Restart = 34

**BROWNS FERRY MODIFICATIONS  
HANGER REPAIRS - LARGE BORE**



**Total Required = 857**

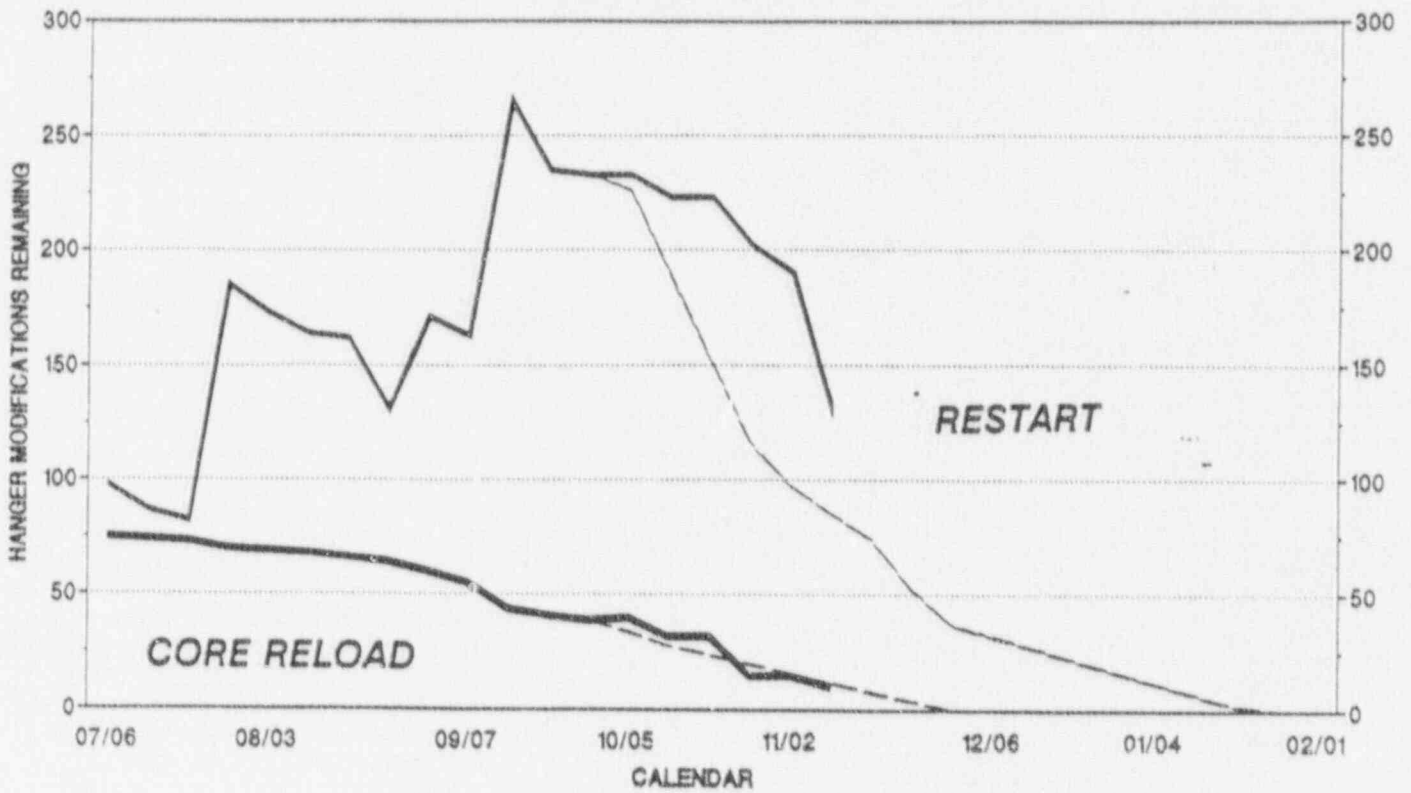
**CORE RELOAD TOTALS -**

Hangers Remaining = 0  
Hangers Completed Last Week for Core Reload = 1  
Fitter Work Remaining = 0

**RESTART TOTALS -**

Hangers Remaining = 5  
Hangers Completed Last Week for Restart = 9  
Fitter Work Remaining = 5

**BROWNS FERRY MODIFICATIONS  
HANGER MODS - SMALL BORE**



**Total Required = 966**

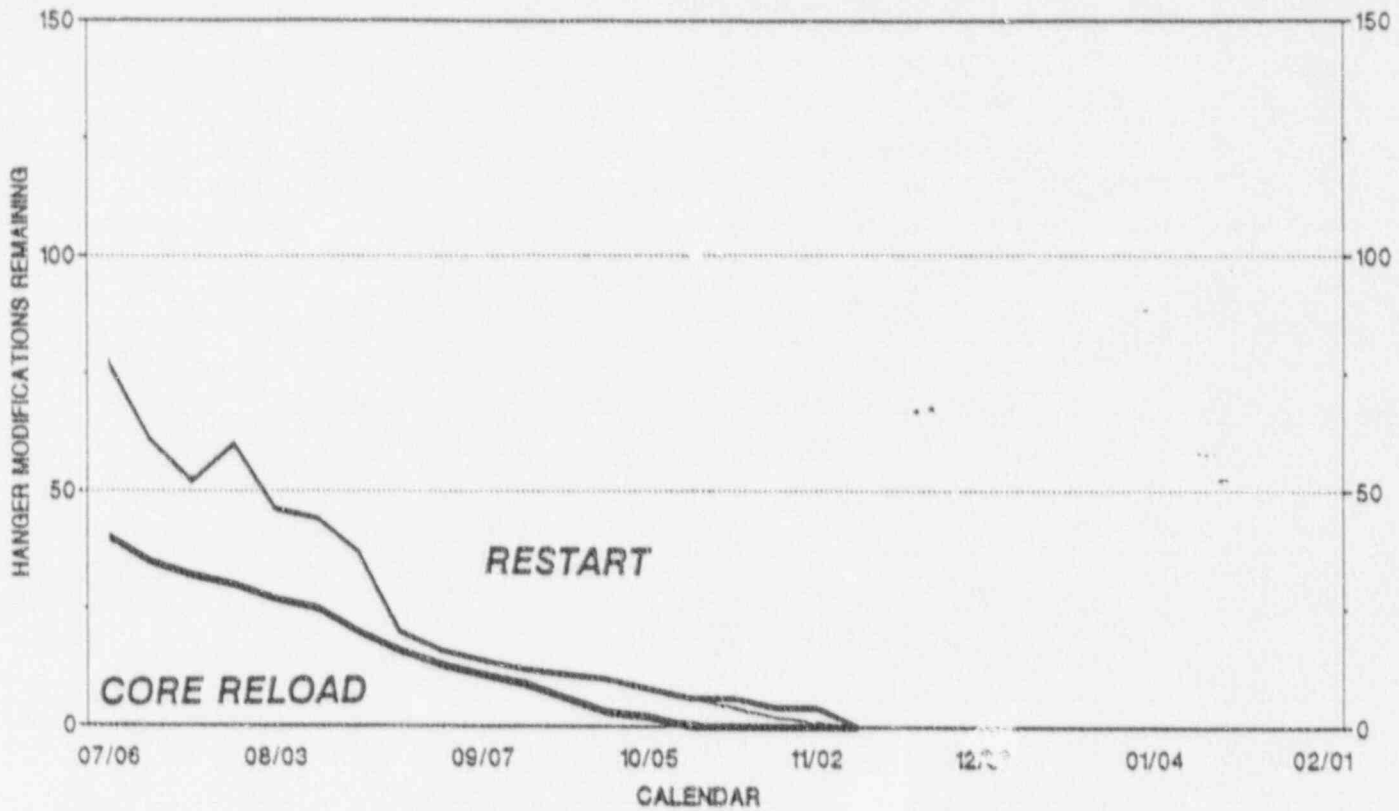
**CORE RELOAD TOTALS-**

Hangers Remaining = 10  
 Hangers completed Last Week for Core Reload = 5  
 Fitter Work Remaining = 10

**RESTART TOTALS -**

Hangers Remaining = 131  
 Hangers Completed Last Week for Restart = 59  
 Fitter Work Remaining = 131

BROWNS FERRY MODIFICATIONS  
HANGER REPAIRS - SMALL BORE



Total Required 2,176

**CORE RELOAD TOTALS -**

*Small Bore Hanger Repair Effort  
for CORE RELOAD is*

**100% COMPLETE**

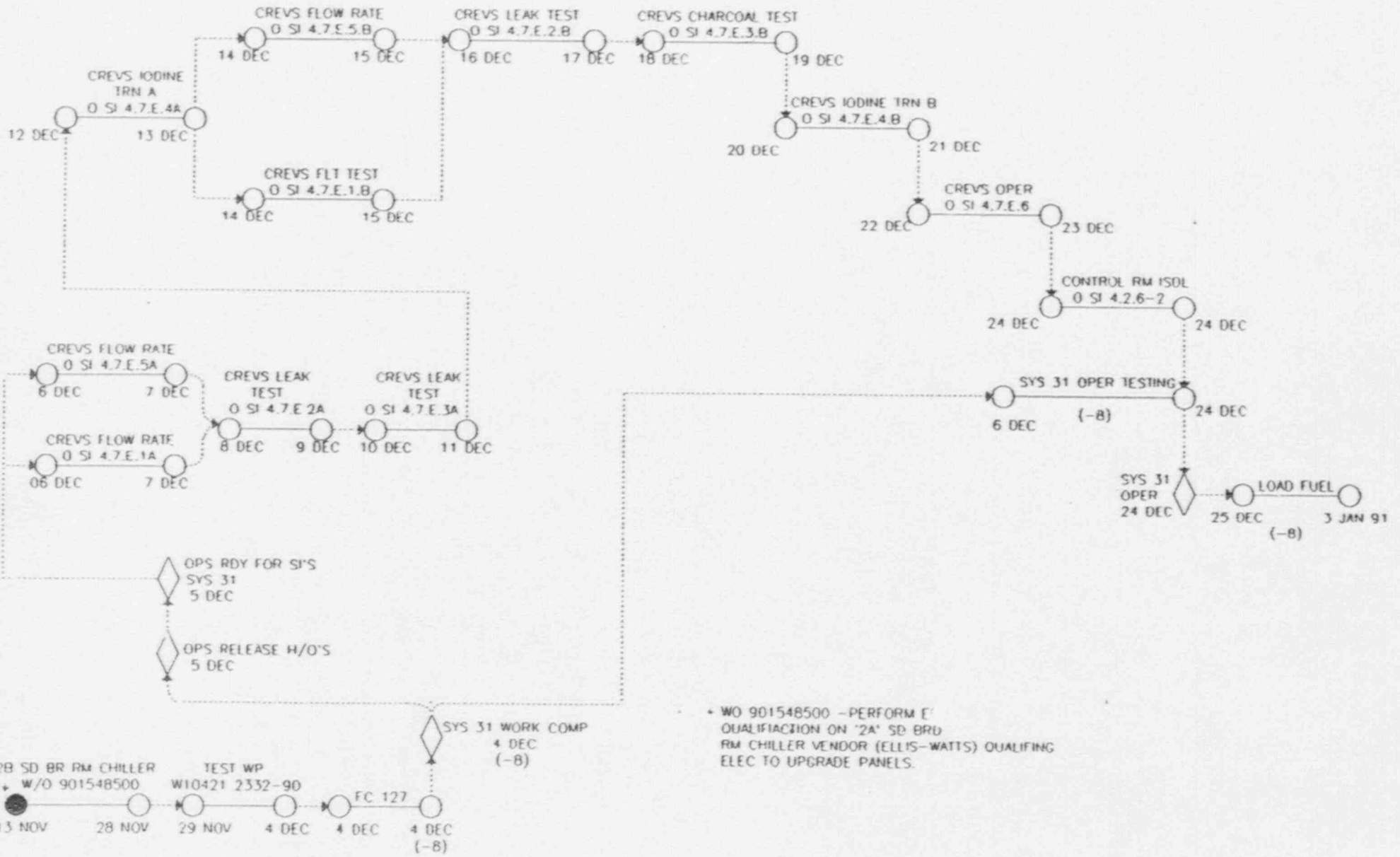
**RESTART TOTALS -**

*Small Bore Hanger Repair Effort  
for RESTART is*

**100% COMPLETE**

# CRITICAL PATH #1 TO CLOSE BREAKER

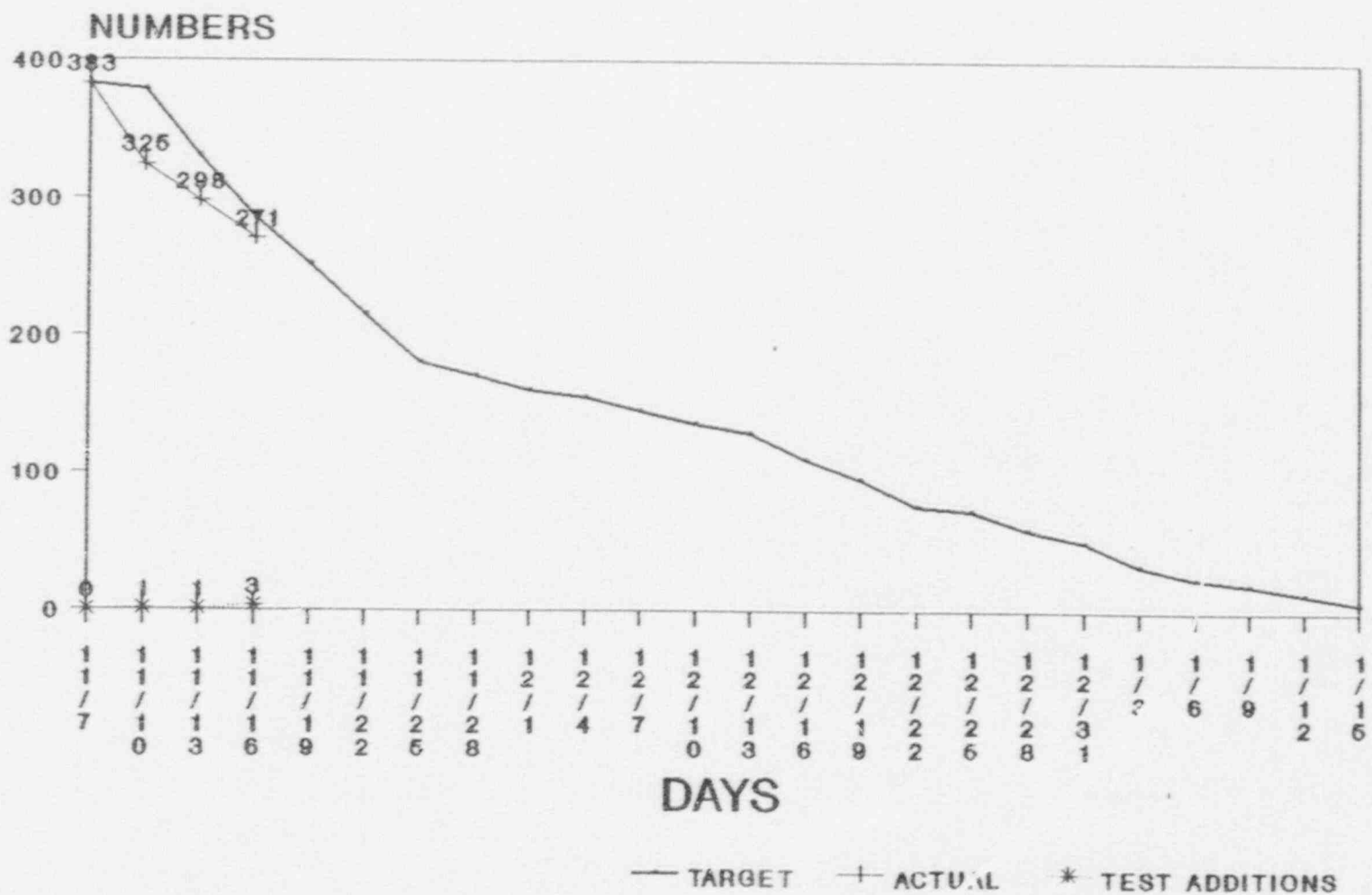
ANADNE





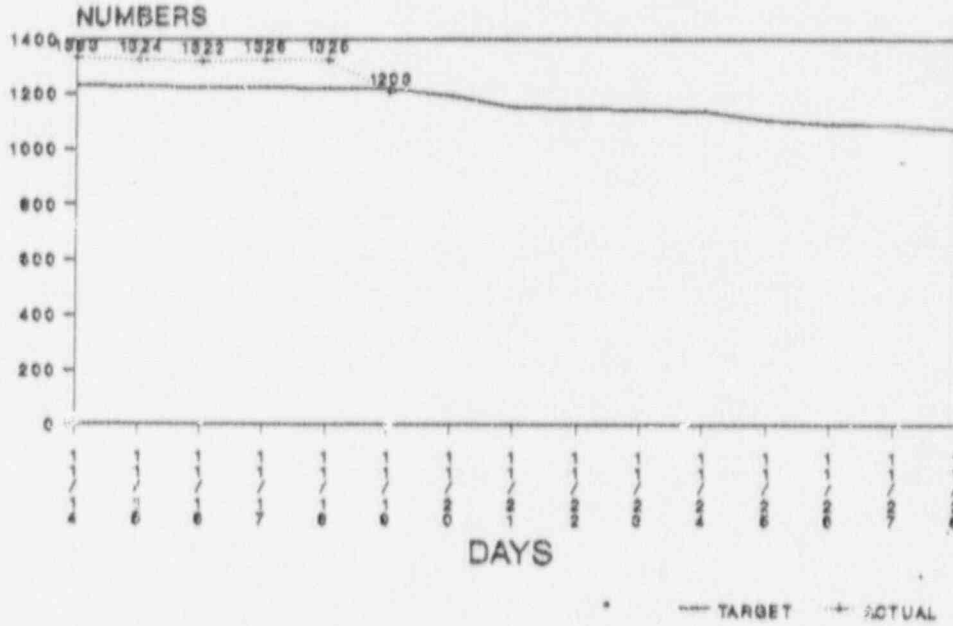
# TESTING

## Target Schedule



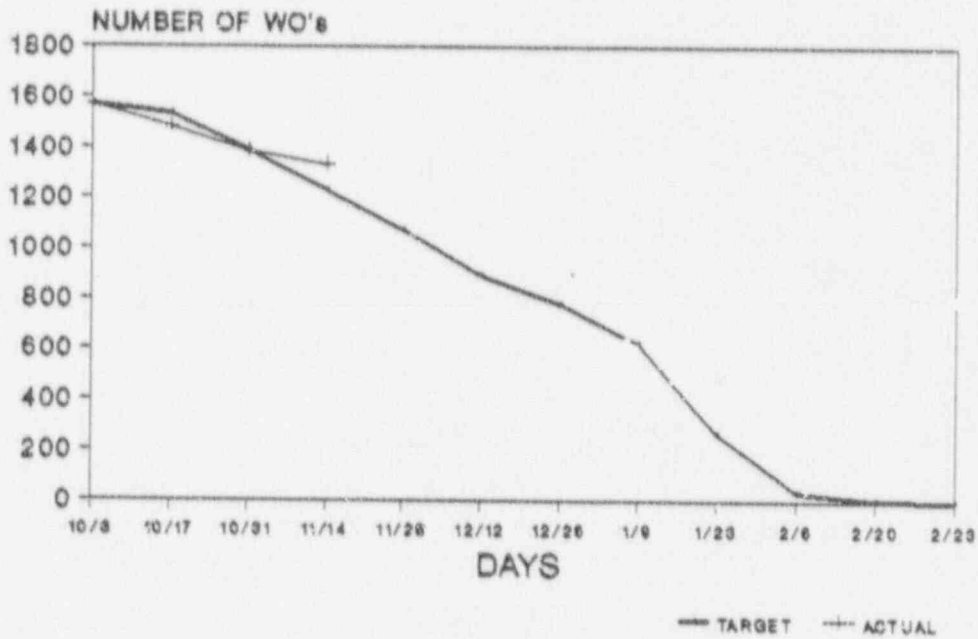
# MAINTENANCE WO'S

Unit 2 Cycle 5



# MAINTENANCE WO'S

TARGET SCHEDULE



TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT

TVA/NRC MANAGEMENT MEETING  
PHYSICAL PLANT SEPARATION

NOVEMBER 19, 1990

PHYSICAL PLANT SEPARATION  
UNIT 2/UNIT 3 INTERFACE

UNIT 3 WILL BE SEPARATED AS MUCH AS  
POSSIBLE FROM UNITS 1 AND 2

EQUIPMENT REQUIRED TO SUPPORT UNIT 2  
LOCATED IN UNIT 3 WILL BE PHYSICALLY  
MARKED AND CONTROLLED BY UNIT 2 ASOS

PHYSICAL BARRIERS WILL BE ESTABLISHED  
BETWEEN UNIT 2 AND UNIT 3 WHERE PRACTICAL

PERSONNEL ACCESS POINTS TO BE ESTABLISHED  
FOR UNIT 3 ACCESS AND EGRESS--PREVENTING  
UNNECESSARY TRAFFIC THROUGH UNIT 2

TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT

TVA/NRC MANAGEMENT MEETING  
PROJECT PLAN REVIEW

NOVEMBER 19, 1990

PROJECT PLAN REVIEW  
SINCE SEPTEMBER 21, 1990

SUCCESSFUL COMPLETION OF MAJOR INSPECTIONS

- REGULATORY GUIDE 1.97
- ATWS

TECHNICAL SPECIFICATION AMENDMENTS

- TS-291, REV. TO LOW WATER LEVEL SETPOINT
- TS-280, REV. 1, HYDRO/ILRT
- TS-286, RPS CIRCUIT PROTECTION  
(REQUEST FOR ADDITIONAL INFORMATION)
- TS-242, NRC ISSUANCE, RHRSW/EECW

COMPLETION OF NUREG-0737 ITEMS

- CONTAINMENT PRESSURE MONITOR
- SAFETY PARAMETER DISPLAY SYSTEM  
(PHASE I AND DESIGN REPORT)
- CONTAINMENT ISOLATION DEPENDABILITY

PROJECT PLAN REVIEW  
SINCE SEPTEMBER 21, 1990

COMPLETION OF IE BULLETINS

- IEB 90-01, ROSEMOUNT TRANSMITTERS
- IEB 80-06, ESF RESET CIRCUITRY

COMPLETION OF GENERIC LETTERS

- GL 86-01, SCRAM SYSTEM PIPE BREAKS
- GL 90-03, VENDOR INTERFACE

COMPLETION OF 14 PROJECT PLAN SUBMITTALS

- DEPENDENCY MATRICES
- CONTROL ROOM HABITABILITY
- STATUS OF NPP SER OPEN ITEMS
- LONG-TERM TORUS INTEGRITY MODIFICATIONS