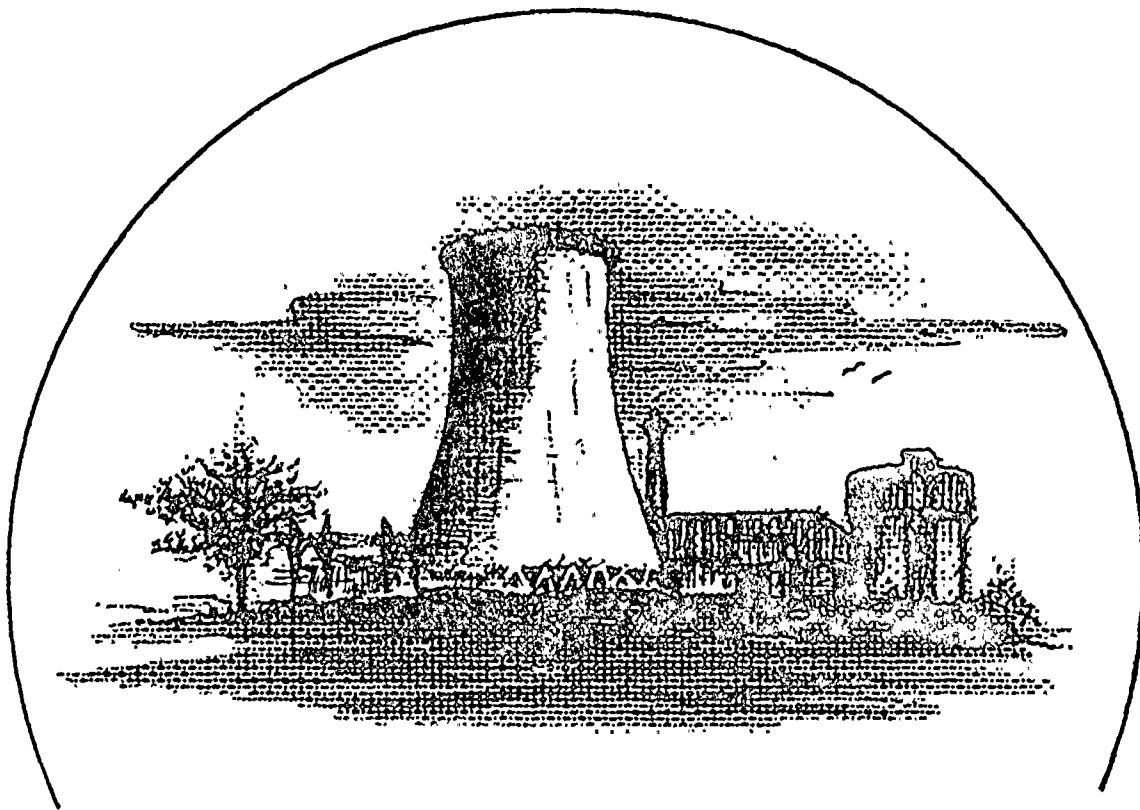


# Project Report

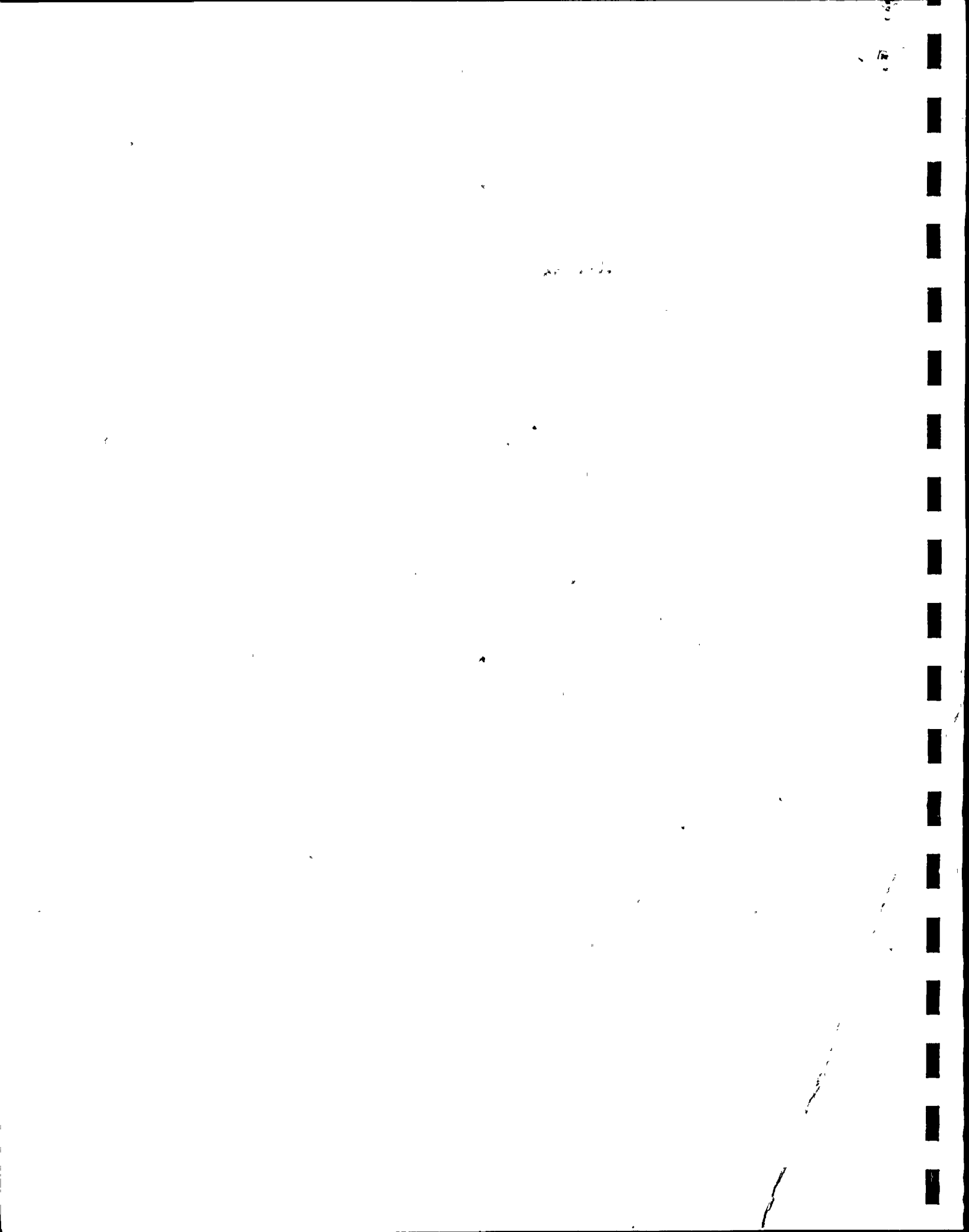


Docket # 50-410  
Control # 8501250078  
Date 4/7/85 of Document  
REGULATORY DOCKET FILE

## Nine Mile Point Unit 2

NOV 1984

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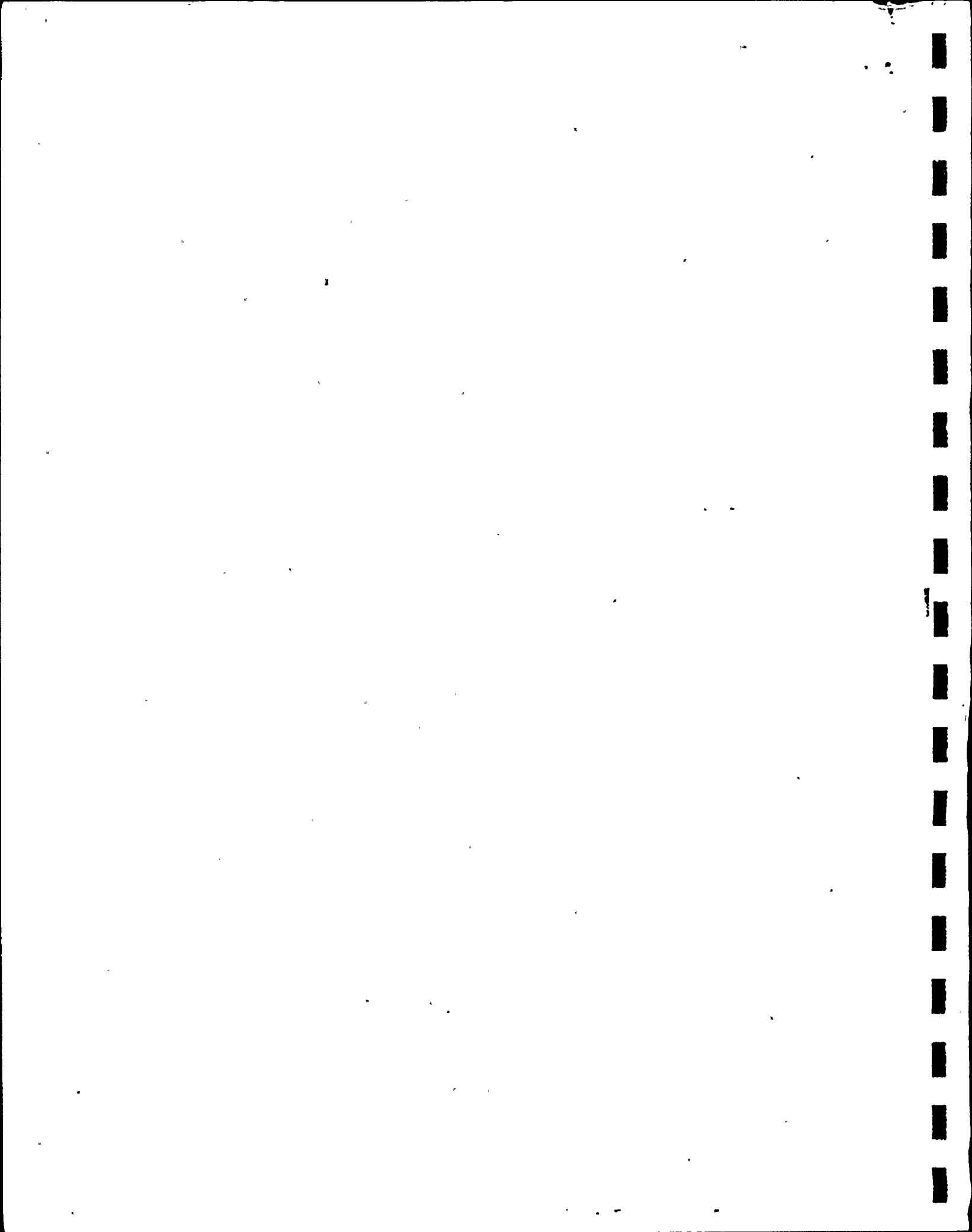


NOVEMBER 1984

PROJECT REPORT

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## I. EXECUTIVE SUMMARY

### A. Project Director

The Project percent complete table and curve were revised this month to incorporate the scheduled startup turnover dates (STR's), revisions to the scheduled construction release dates, and the corresponding construction commodity plan. The scheduled construction release dates were revised based on reconciling the area/system schedules to the milestone schedules. The planned and actual percent complete were also revised to reflect the latest estimated commodities such as conduit and Large Bore Pipe Welds. The percent complete plan curve shows, for illustration, the new plan and the previous plan for earning percent complete.

The project this period earned 1.1 percent progress against the scheduled 1.3 percent reflected in our new planning profile, and is at a cumulative 82.7 percent complete. It is the intent to keep the Base Plan as shown in future reports.

The Project is slightly behind schedule for the March 1985 Integrated Flush Milestone. Management is addressing those key areas where the Project is behind schedule, and a management plan is either in place or being developed to recover or to mitigate the consequence of that situation. Emphasis is being placed on completing all work necessary to support the Integrated System Flush Milestone. This milestone represents a major step toward achieving the February 1986 fuel load.

As stated in the last Project Report, a rapid transition has taken place on the Project with emphasis shifting from bulk construction to that work required to support the Start-up and Test schedule. This transition is being accompanied by establishment of clear definition of the scope of each system or testable sub-system. A walk-down process is being utilized to establish system status which allows the development of definitive short-term schedules which are necessary to control the Project at this stage of completion.

Emphasis continued on finalization of the area/system schedules, which will integrate the non-system related to-go work with that work necessary to support the near-term test schedules, allowing the earliest completion of the total Project. As of the end of this report period, all are completed and being used by construction Field Forces.

A revised Turnover Matrix has been developed and distributed to the Project. In some few cases, scheduled construction completion turnover dates do not support the start-up and test program. The Project is actively pursuing work-around plans to address these disconnects.

The Project is addressing INPO concerns and has begun to evaluate the interim results and prepare corrective action plans where deemed necessary. We anticipate the INPO Final report to be released to the Project in January, 1985. The Project will be in position to respond to the INPO audit evaluation in a rapid and positive manner.

The Project participated in the NRC Caseload Forecast panel meetings held on site October 30-31. The results of this visit will be reported to management as soon as they are known.

The Project is preparing for the NRC Construction team Inspection (CTI) scheduled for December 3rd to the 14th. The results of this inspection will be reported to the project in an exit interview scheduled for December 14, with the final inspection report to be issued by the NRC at a later date.

### MAJOR PROBLEMS

#### 1. Schedule Control

A Master Tracking System (MTS) or Punchlist is being developed 13 weeks prior to release of a system or BIP for test from information in the engineering/planning file and a system walk-down. This document (MTS) is used to scope the work remaining and is scheduled on the Thirteen Week Look Ahead Schedule. Four weeks prior to release for test, a system walkdown is conducted and any refinements to the MTS will be made. The implementation of this system will enhance our ability to scope, status, and consequently control the work.

In addition, the prioritization of remaining work and the deployment of Project effort towards defined turnover and test objectives will improve schedule performance.

#### 2. Cable Backlog

The cable backlog is 143,000 ft. as of November 26th. The "Tiger Team" has been able to identify and resolve constraints to raceway completion which is the key to cable pulling. The area continues to receive close Management attention.

#### 3. Large Bore Supports

A Hanger Action Committee has been established under the direction of the SWEC Project Director. The following specific actions have been taken to increase the hanger production:

- a) ITTG Engineering Organization has been augmented by SWEC Engineering.
  - b) Daily N&D sign-out sessions are held by SWEC and ITTG.
  - c) Constructability reviews are held prior to hanger installation.
  - d) Plan of the day meetings are held to resolve hardspots.
- Considerable improvement in actual rate of hanger completion has been observed. Continued management attention will be applied to this activity.

#### 4. Stress Reconciliation Program

A major effort to identify and complete hangers required to support the stress reconciliation effort has been effective in bringing the project back on schedule in this area. Of the 330 total AX packages required to be analyzed, 26 have been completed by engineering and a backlog of approximately 75 As-Built packages exist in the Engineering office.

I. EXECUTIVE SUMMARY

B. Manager Quality Assurance - Projects

The review of In-Place safety related items, materials, components, etc., that have been accepted by the contractor's QC organization is continuing and is expected to be completed by early December, 1984. The details and results of this activity are addressed within this report.

The Independent Assessment Team has completed its review of completed CAT Action Plans. The review continues regarding NRC deficiencies identified in the SALP Report, and NMPC/Contractor identified deficiencies.

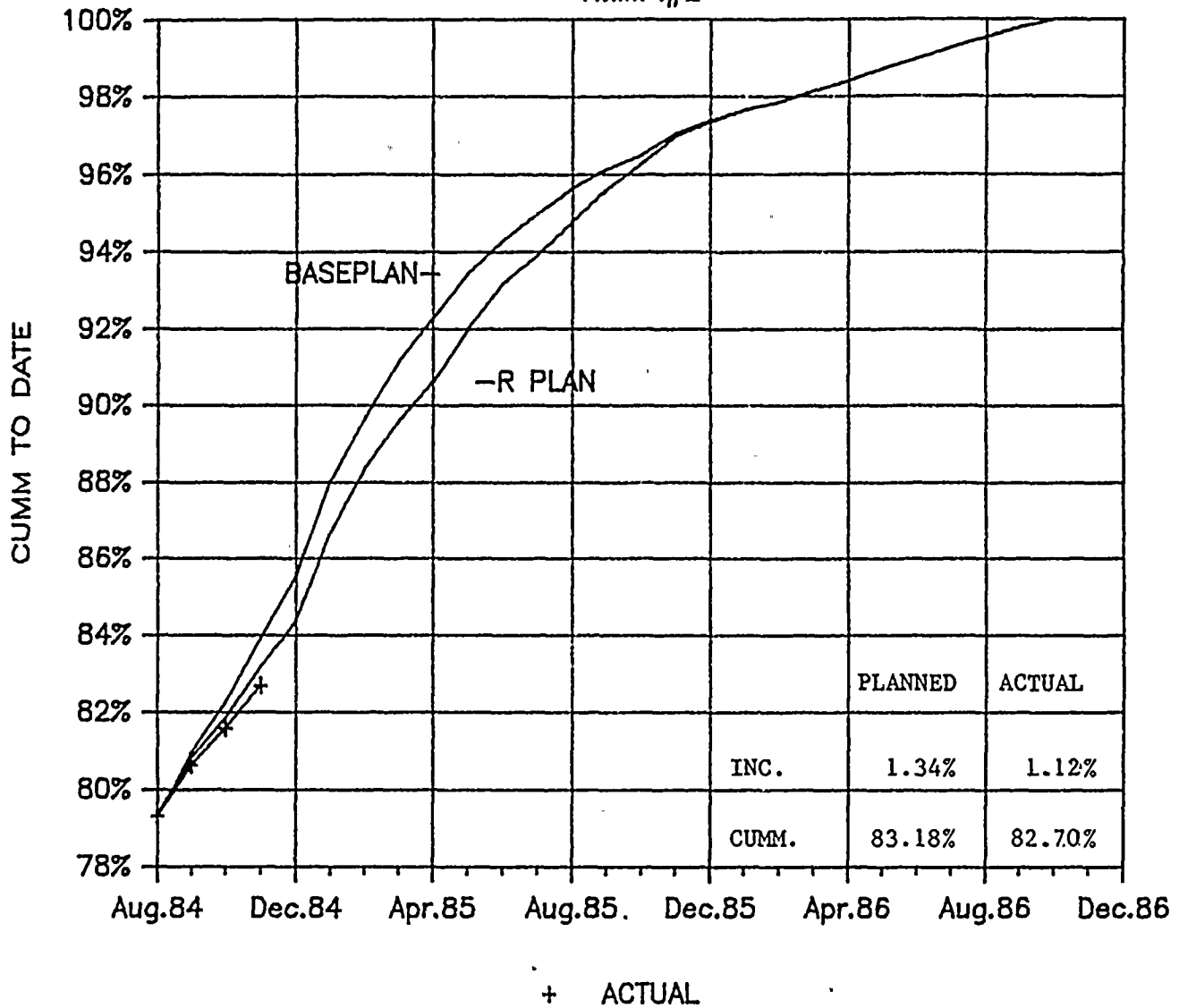
# PROJECT PERCENT COMPLETE SUMMARY TABLE NOV 84

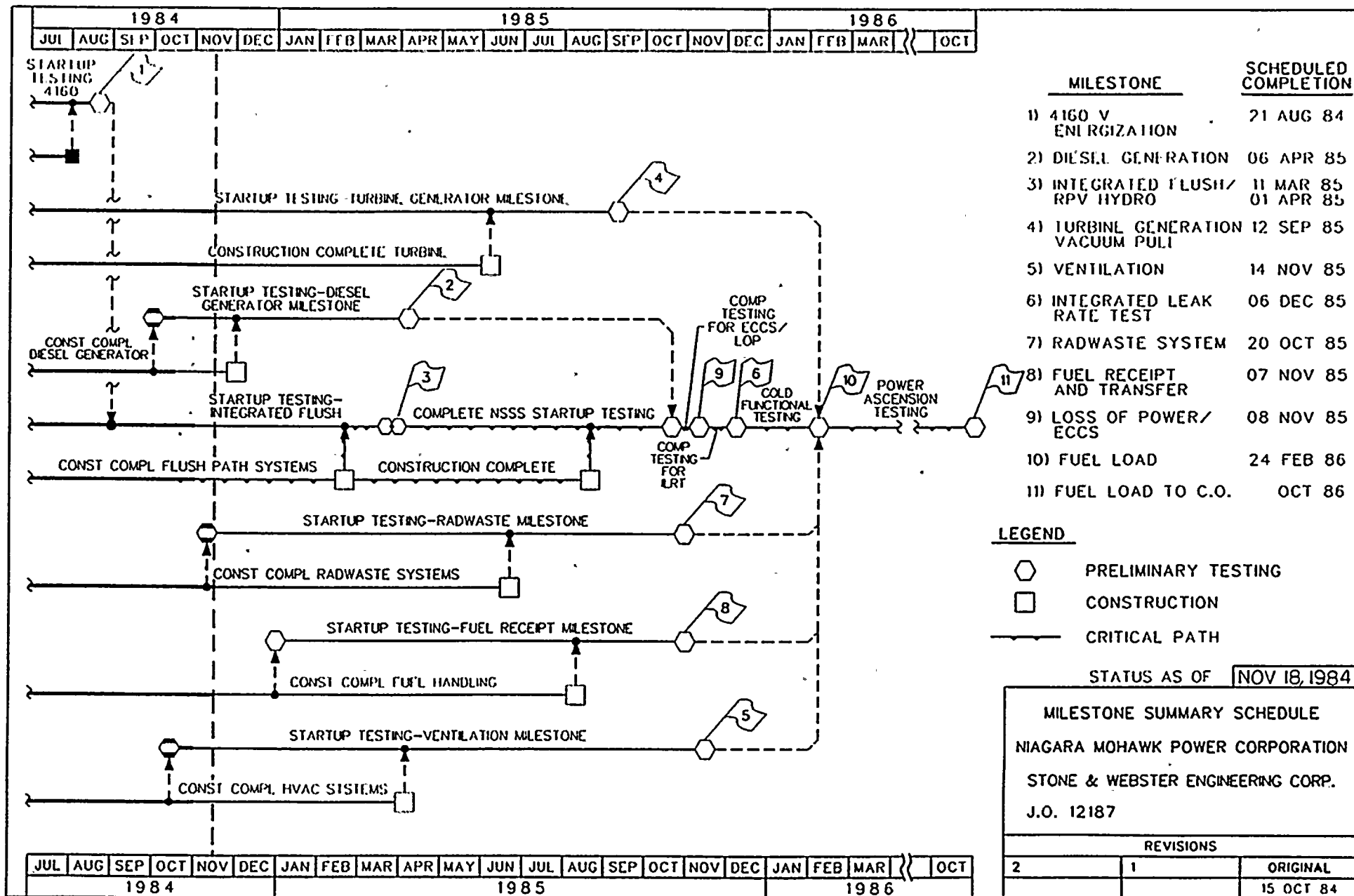
DATE 18-Nov-84		PERCENT OF TOTAL PROJECT	ITEM PERCENT COMPLETE	ACTUAL PERCENT COMPLETE		PLANNED PERCENT COMPLETE	
				CUMM	INC	CUMM	INC
I. MILESTONES							
1	ENERGIZATION 4160 V	2.49%	98.37%	2.45%	0.00%	2.45%	0.00%
2	DIESEL GEN\REL. TEST	0.63%	73.56%	0.46%	0.00%	0.53%	0.00%
3	INT. FLUSH\RPV HYDRO	17.09%	87.49%	14.95%	0.18%	14.93%	0.20%
4	T G\INT VAC PULL	3.50%	82.30%	2.88%	0.05%	2.88%	0.06%
5	VENTILATION	3.95%	74.00%	2.92%	0.00%	2.95%	0.02%
6	INTEGRATED LEAK RATE	0.24%	56.97%	0.14%	0.00%	0.14%	0.00%
7	RADWASTE SYSTEM	1.34%	69.75%	0.93%	0.01%	0.93%	0.01%
8	FUEL RECEIPT	0.75%	58.25%	0.44%	.00%	0.44%	0.00%
9	LOSS OF POWER/ECCS	3.01%	70.87%	2.13%	.00%	2.15%	0.03%
10	FUEL LOAD	2.50%	66.28%	1.66%	0.02%	1.63%	0.00%
11	FUEL LOAD TO C.O.	0.50%	0.00%	0.00%	0.00%	0.00%	0.00%
SUBTOTAL		36.00%	80.46%	28.97%	0.27%	29.03%	0.32%
II. CONSTRUCTION COMM.							
1	PIPING	10.45%	92.74%	9.69%	0.12%	9.70%	0.13%
2	ELECTRICAL	7.63%	84.53%	6.45%	0.19%	6.45%	0.19%
3	I & C	0.99%	66.52%	0.66%	0.04%	0.66%	0.05%
4	HVAC	0.83%	88.99%	0.74%	0.02%	0.74%	0.03%
5	CIVIL	13.10%	100.00%	13.10%	0.00%	13.10%	0.00%
SUBTOTAL		33.00%	92.84%	30.64%	0.38%	30.65%	0.40%
III. STARTUP & TEST COMM.		5.00%	11.40%	0.57%	0.15%	0.83%	0.21%
IV. ENGINEERING							
1	DESIGN VERIFICATION	0.54%	48.70%	0.26%	0.02%	0.30%	0.03%
2	EQUIP. QUALIFICATION	0.25%	82.98%	0.21%	.00%	0.22%	0.01%
3	LICENSING	0.56%	82.14%	0.46%	0.01%	0.47%	0.01%
4	SUPPORT OF STARTUP	0.38%	76.26%	0.29%	0.01%	0.30%	0.01%
5	BAL OF ENGINEERING	18.27%	95.78%	17.50%	0.09%	17.71%	0.17%
SUBTOTAL		20.00%	93.60%	18.72%	0.13%	19.00%	0.23%
V. QUALITY ASSURANCE		5.00%	69.64%	3.48%	0.20%	3.29%	0.15%
VI. RECORDS TURNOVER TO PPF		1.00%	32.00%	0.32%	0.00%	0.38%	0.03%
TOTAL		100.00%	-----	82.70%	1.12%	83.18%	1.34%



# PROJECT PERCENT COMPLETE

N.M.P.#2





## II. MILESTONE SCHEDULE STATUS

### A. Energization 4160V

Start-Up has energized seven of the eight 4160V switchgears with the one exception being the HPCS related switchgear. All but one unit sub-station has been energized with the completion scheduled for late November. Related remaining testing (MCCs, distribution panels etc.) is progressing in a manner which will support the overall project schedules.

### B. Diesel Generators

Several items are impacting the completion of construction and turnover to Start-Up & Test. Four "B" releases have been made, however, which have allowed preliminary testing to commence.

Completion of the division 1&3 diesels has been restrained by late material deliveries of instrument control valves and pipe spools required for reworking the air exhaust and air start lines. The air start system is projected to be completed by December 21, 1984 for EG-1.

Completion of the HPCS diesel fuel oil system has been delayed due to late hanger designs and valve delivery for the remaining instrumentation work. The project completion date is December 15, 1984. The air start system will also be completed on December 15, 1984, pending proper alignment on pipe connections after the installation of adapters and expansion joints on the intake and exhaust piping.

### 2. Diesel Generators (Continued)

The majority of electrical work on EG-3 is presently on hold due to outstanding Engineering design modifications associated with panels 413 and 414. The overall Milestone status for completing reliability starts is presently four weeks behind schedule.

### C. Integrated Flush/RPV Hydro

Thirteen (13) additional flush paths ("B" releases) were turned over in November. A review of requirements for integrated flush was conducted by Start-Up and Test as well as construction. The results of that review have been incorporated in the revised "Turnover Matrix" issued by the project on November 19, 1984. The revised logic is presently being incorporated in a schedule revision of the integrated flush Milestone Network. The revised network will be issued the week of November 26, 1984.

A preliminary evaluation of the review indicates that construction is one week behind schedule and that Start-Up and Test is approximately three weeks behind schedule. The Flush Paths which have the potential to impact integrated flush are as follows:

1.001A Main Steam System

This flush path is currently on schedule due to good progress for the month.

33.001A High Pressure Core Spray

This system has been rescheduled to release December 3, 1984. Although some relief was obtained through rescheduling the potential for impacting integrated flush still exists due to a material shortage caused by an ISI problem.

38.001B Spent Fuel Pool Cooling & Clean-Up

This activity is currently one week late. Start-Up is evaluating work around plan to accomodate this negativity. The system is scheduled for release December 19, 1984.

38.001G Spent Fuel Pool Cooling and Clean-Up

The scheduled release date for this system is December 17, 1984. The system is presently one week behind schedule. The evaluation of Start-Up & Test logic associated with 38.001B (above) may resolve the negativity.

D. Turbine Generator

The turbine generator milestone is currently on schedule. Five systems were scheduled to turn over during the November period. All five systems have been released to Start-Up & Test.

### III. CONSTRUCTION

#### A. General

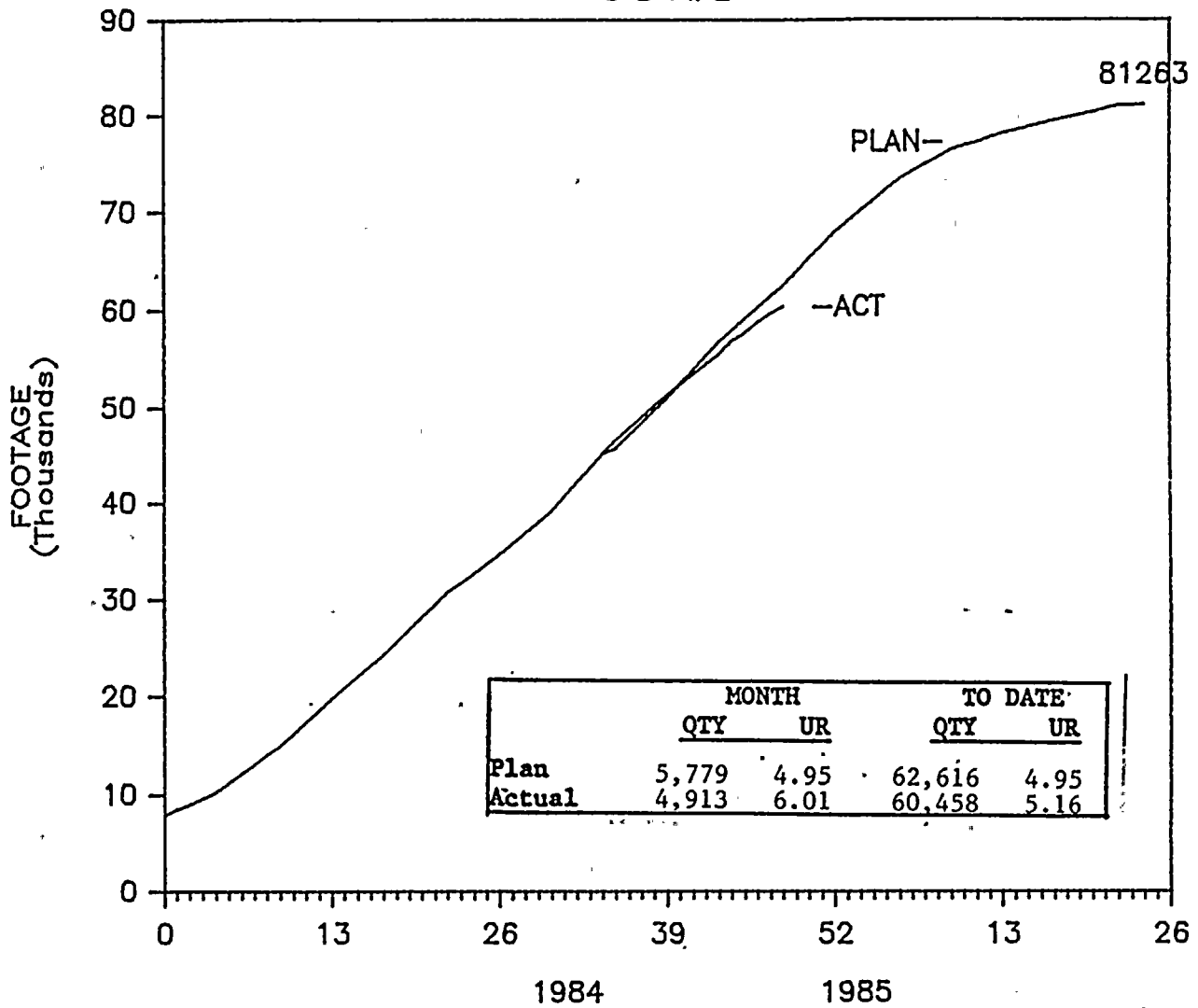
During November, efforts continued to establish a finer integration of critical system work with the Testing Program. A list of "critical to testing" releases were emphasized to better prioritize construction tasks.

Work continued on the development of area schedules by construction management and planning.

Increased levels of overtime became necessary to satisfy schedule demands and the inability to maintain qualified pipefitter/welder manpower.

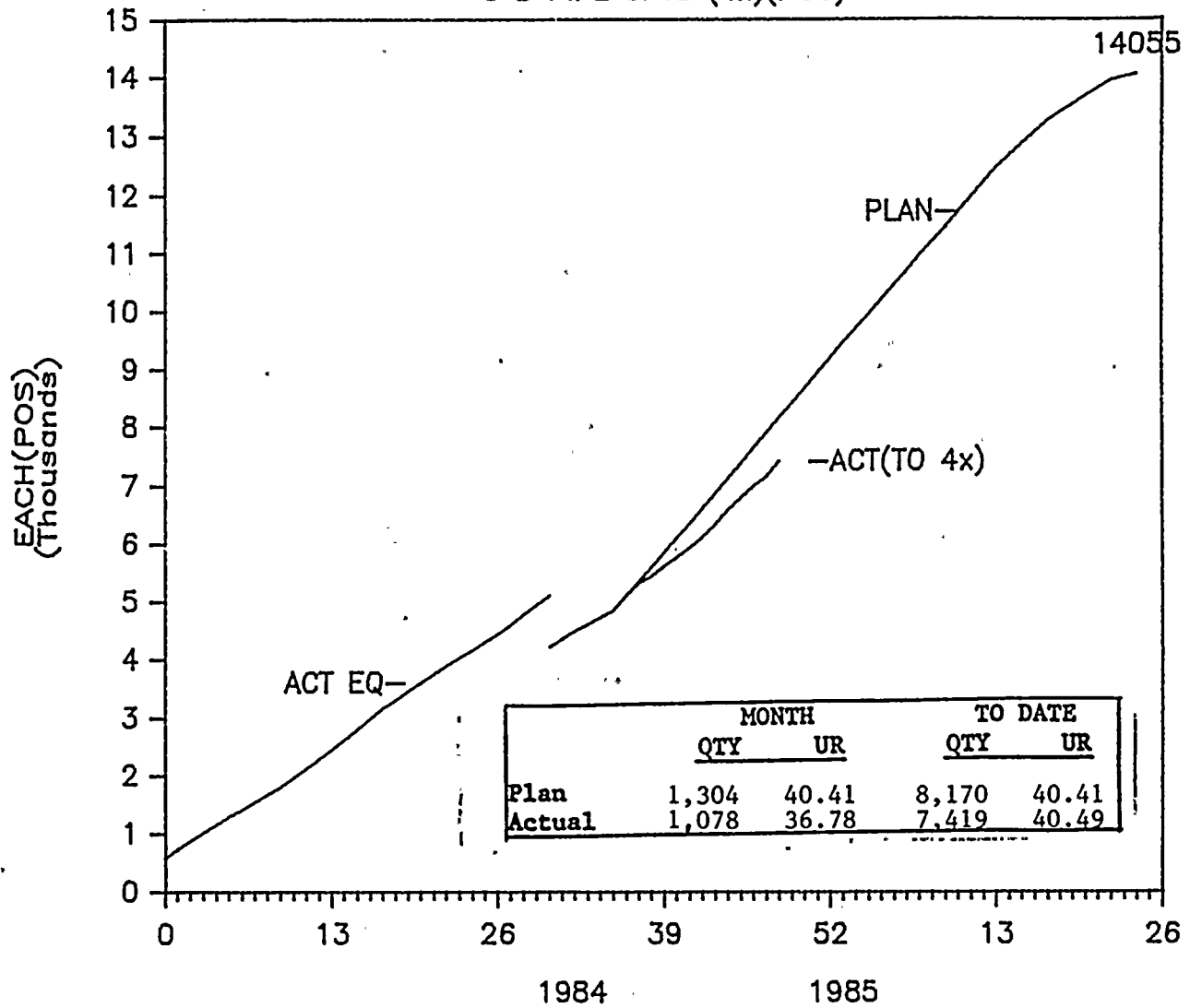
# SWEC PLAN VS ACT

S B PIPE



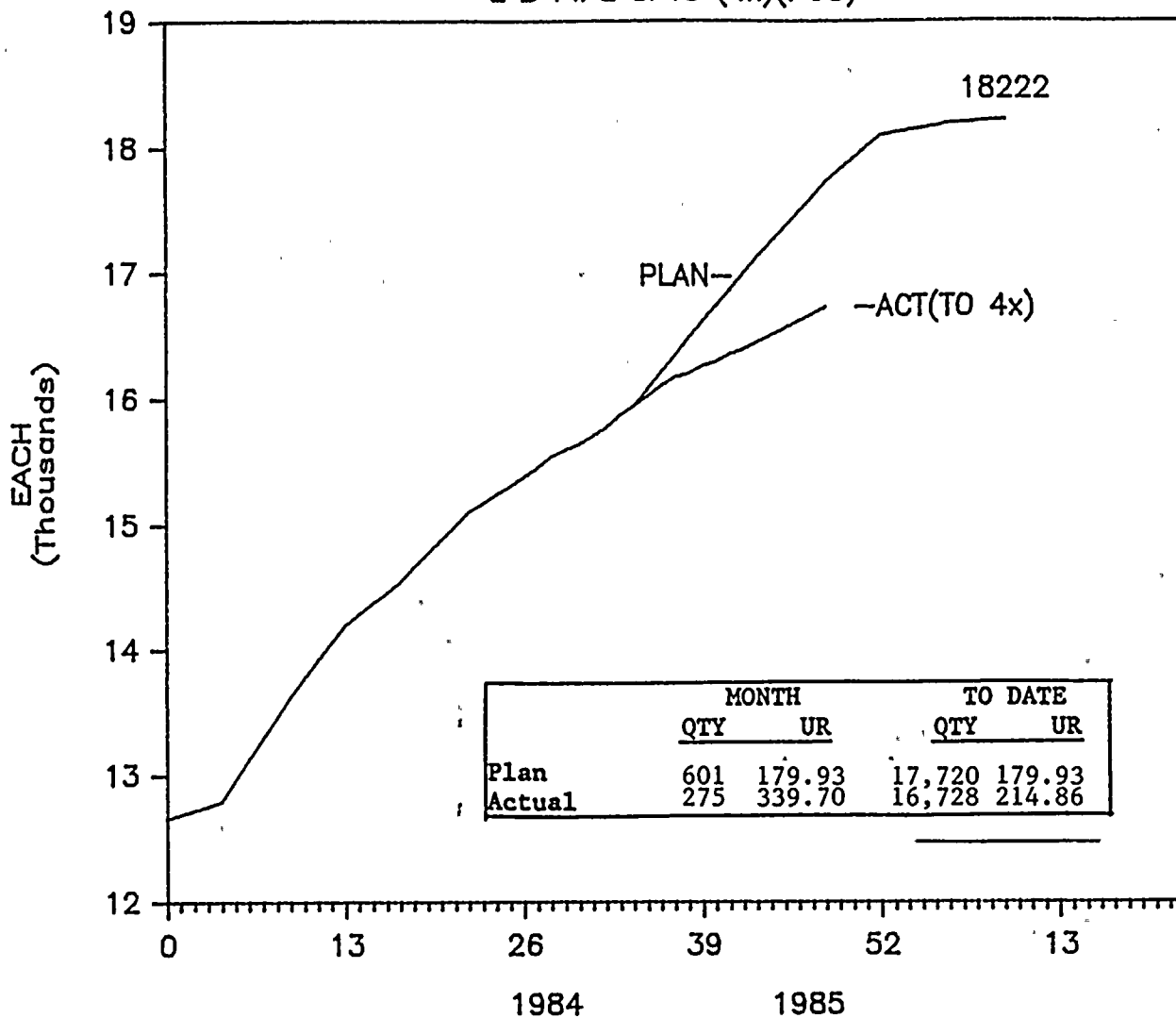
# SWEC PLAN VS ACT

S B PIPE SPTS (4x)(POS)



# ITT PLAN VS ACT

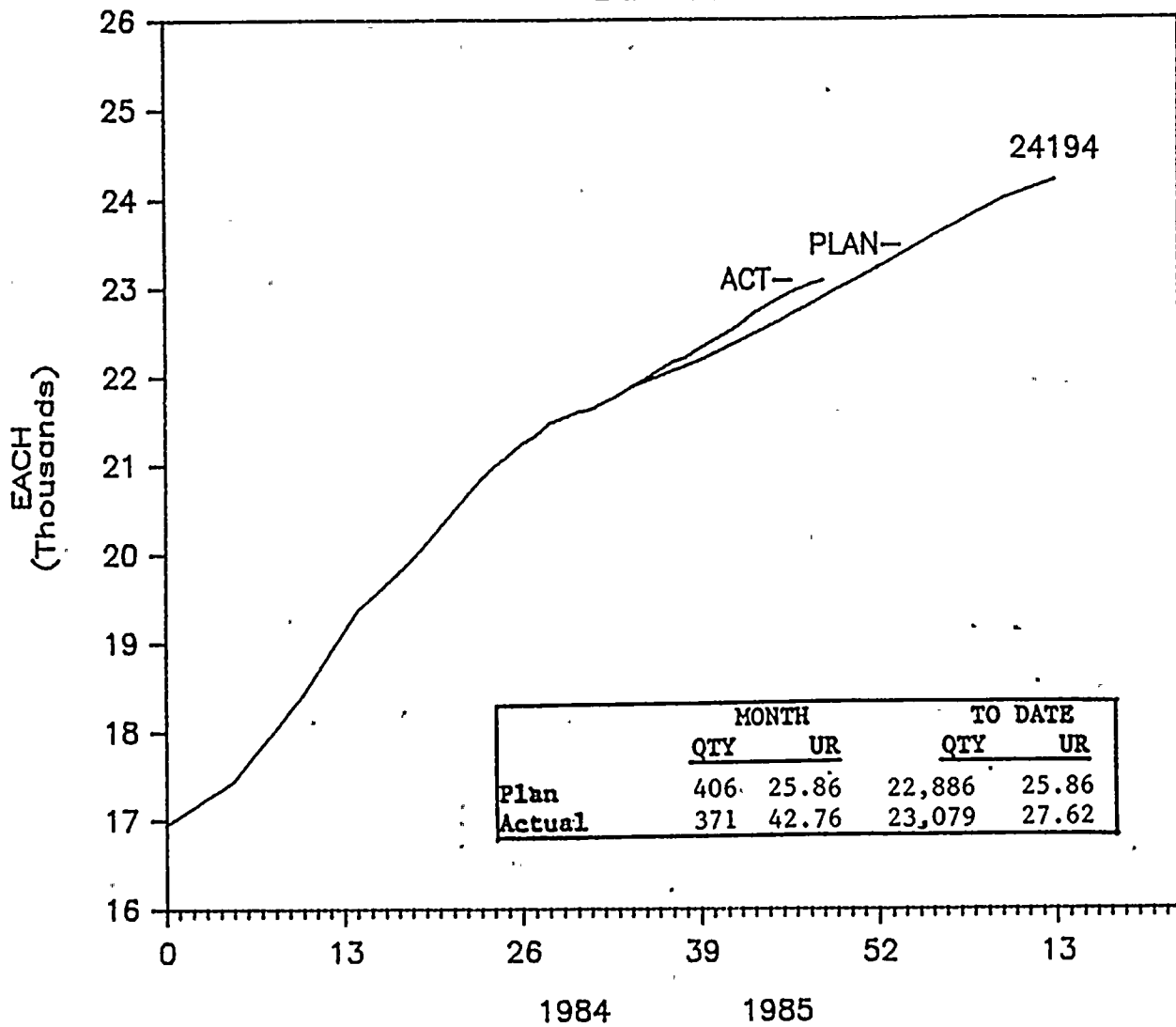
L B PIPE SPTS (4x)(POS)





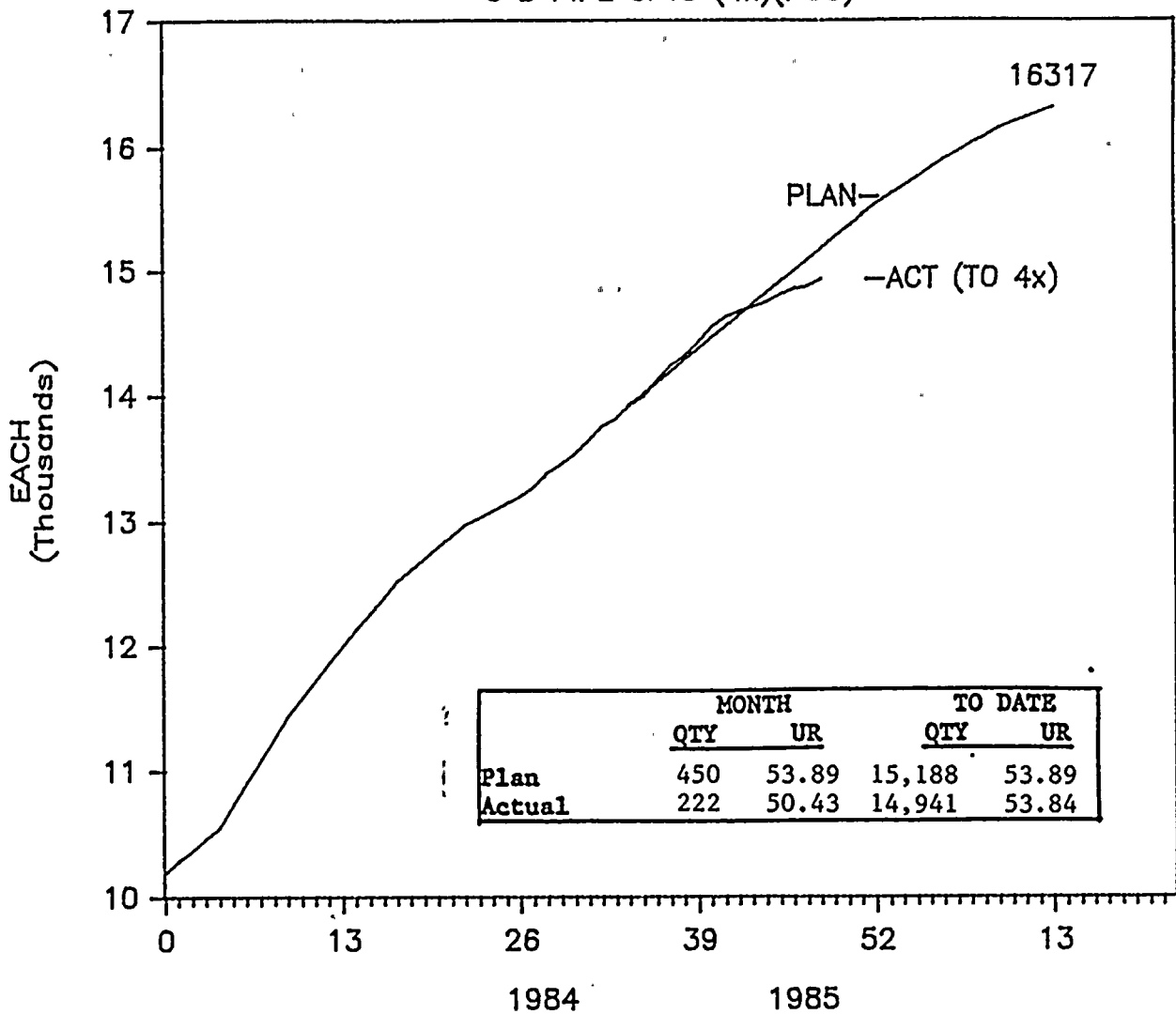
# ITT PLAN VS ACT

L B WELDS



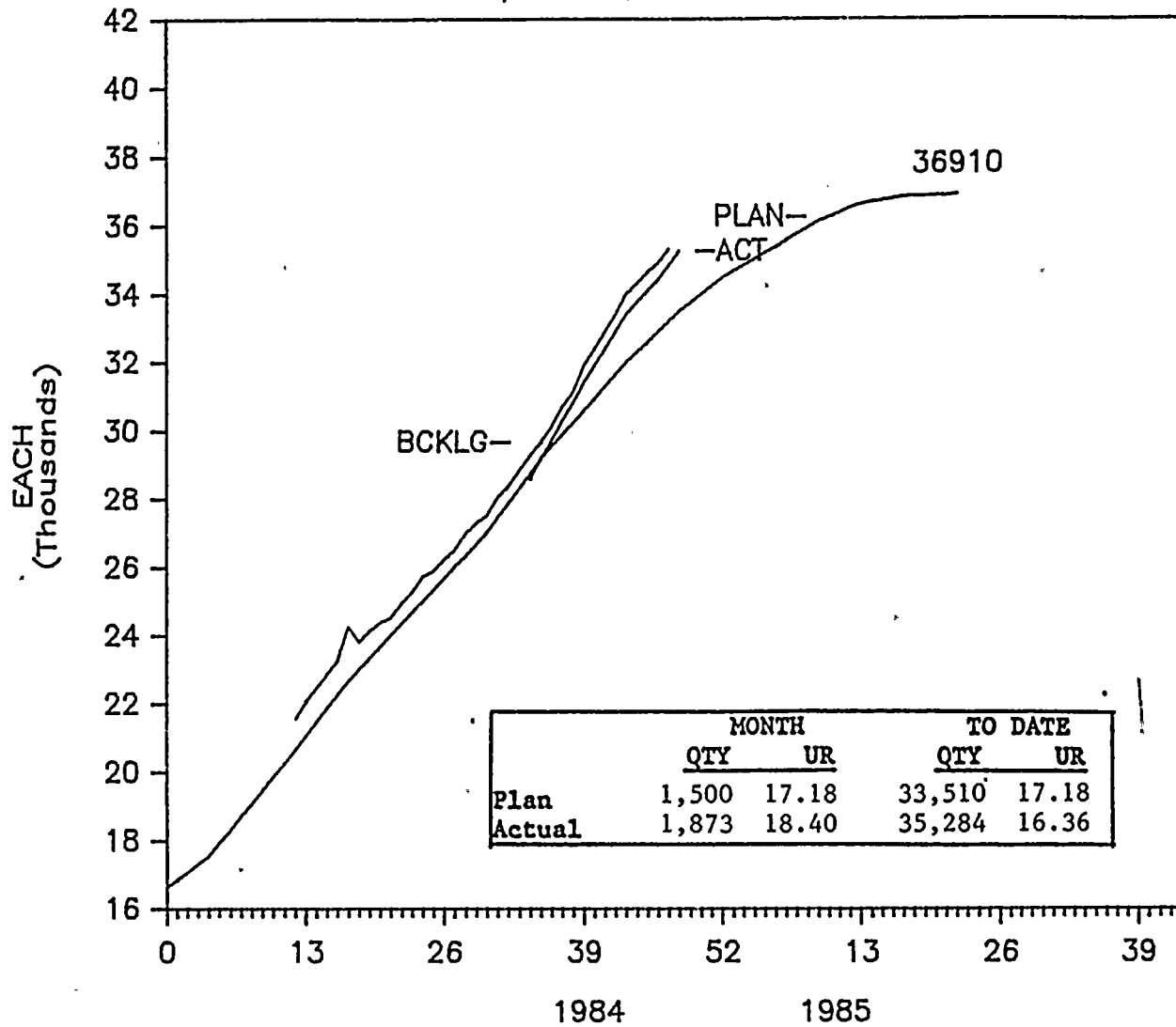
# ITT PLAN VS ACT

S B PIPE SPTS (4x)(POS)

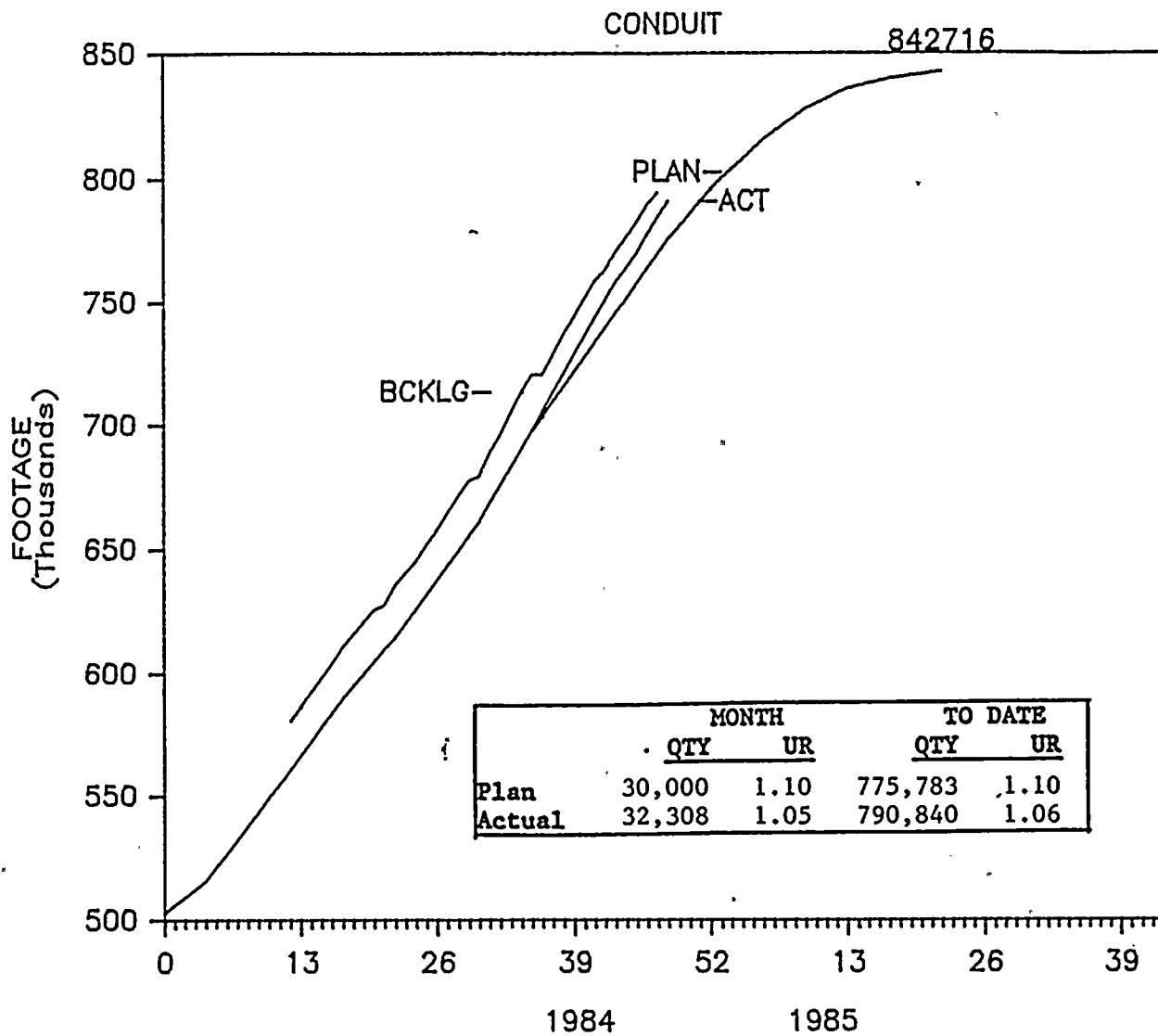


# LKC PLAN VS ACT

CONDUIT SPTS

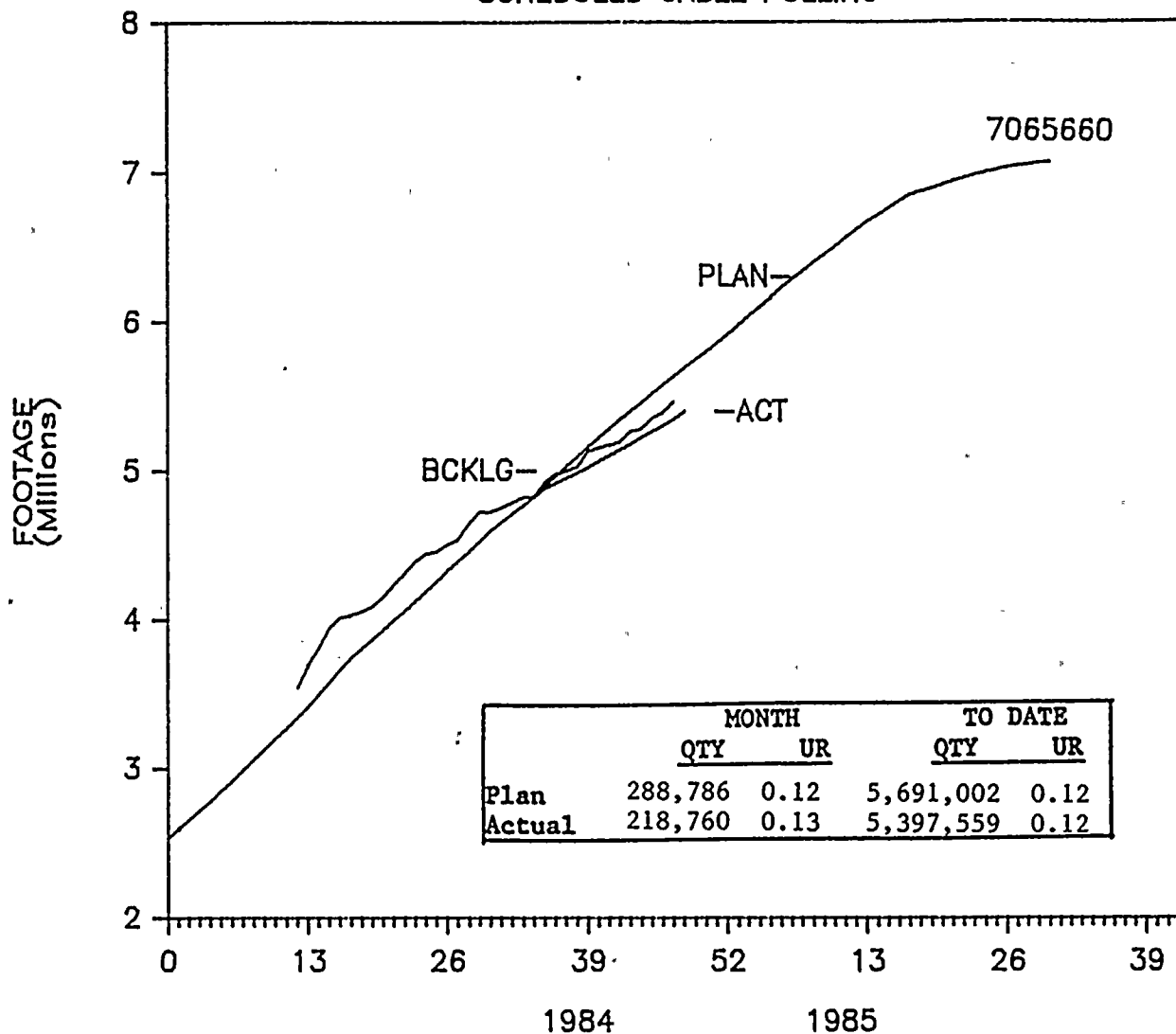


# LKC PLAN VS ACT



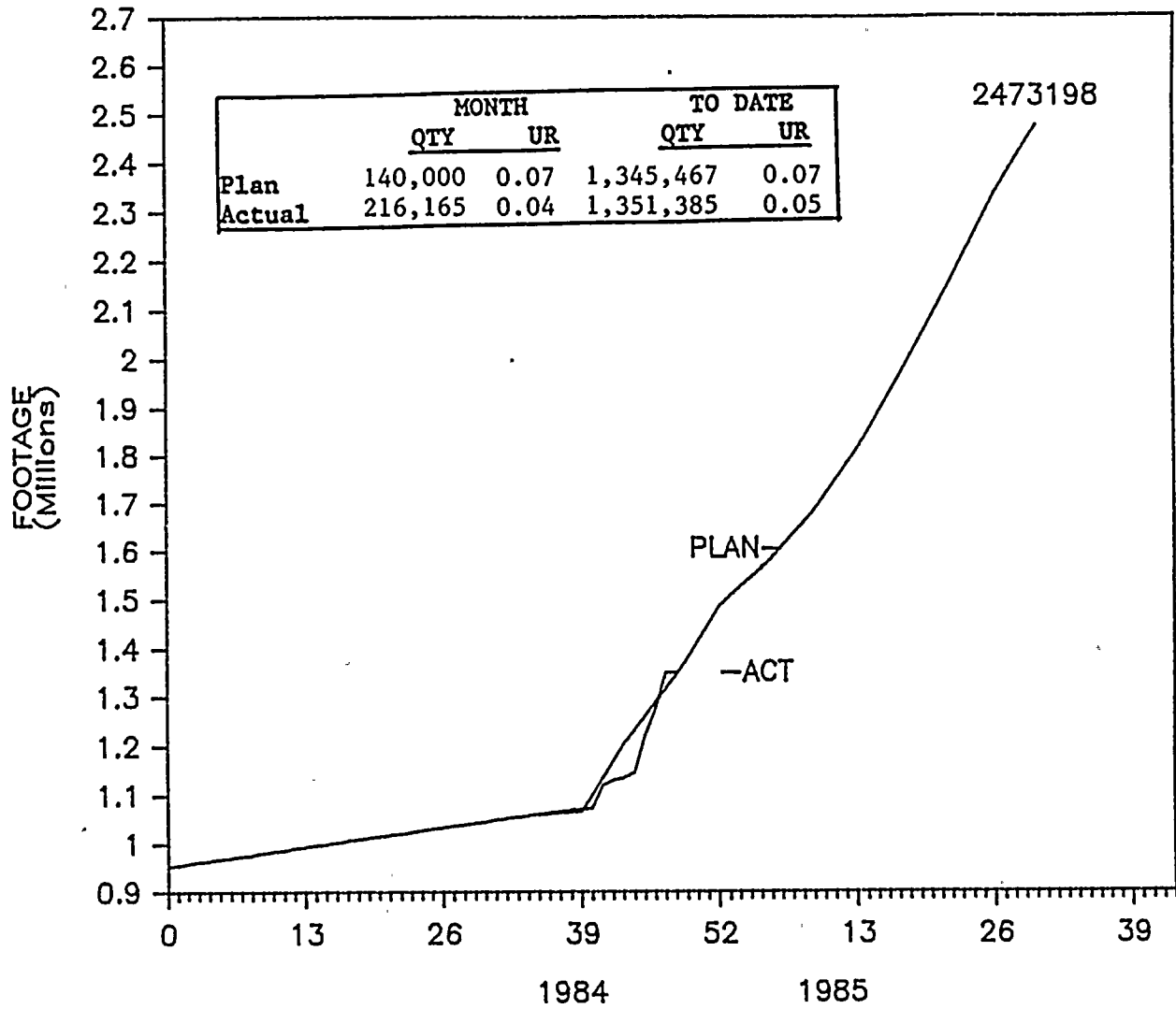
# LKC PLAN VS ACT

## SCHEDULED CABLE PULLING



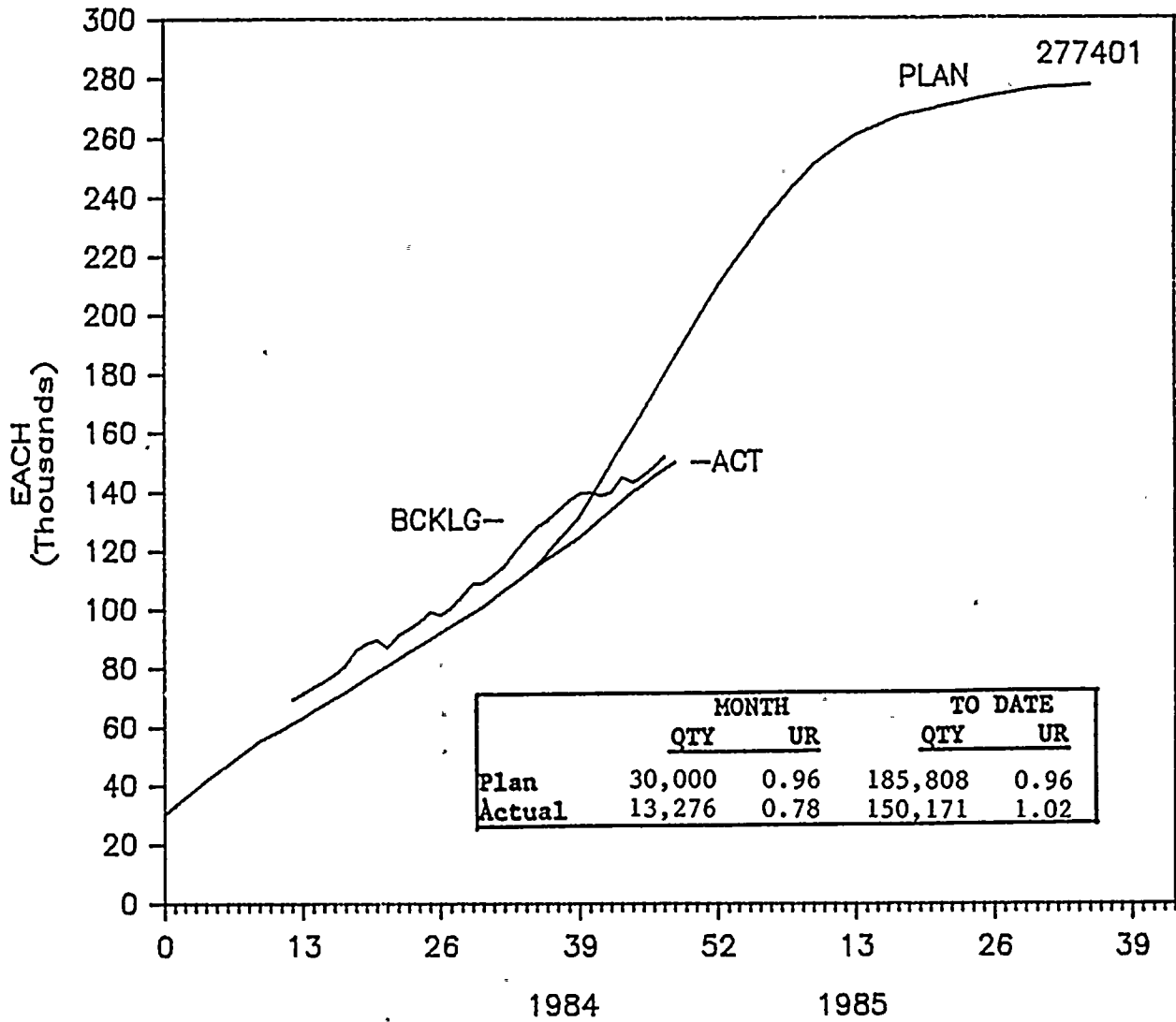
# LKC PLAN VS ACT

## UNSCHEDULED CABLE PULLING



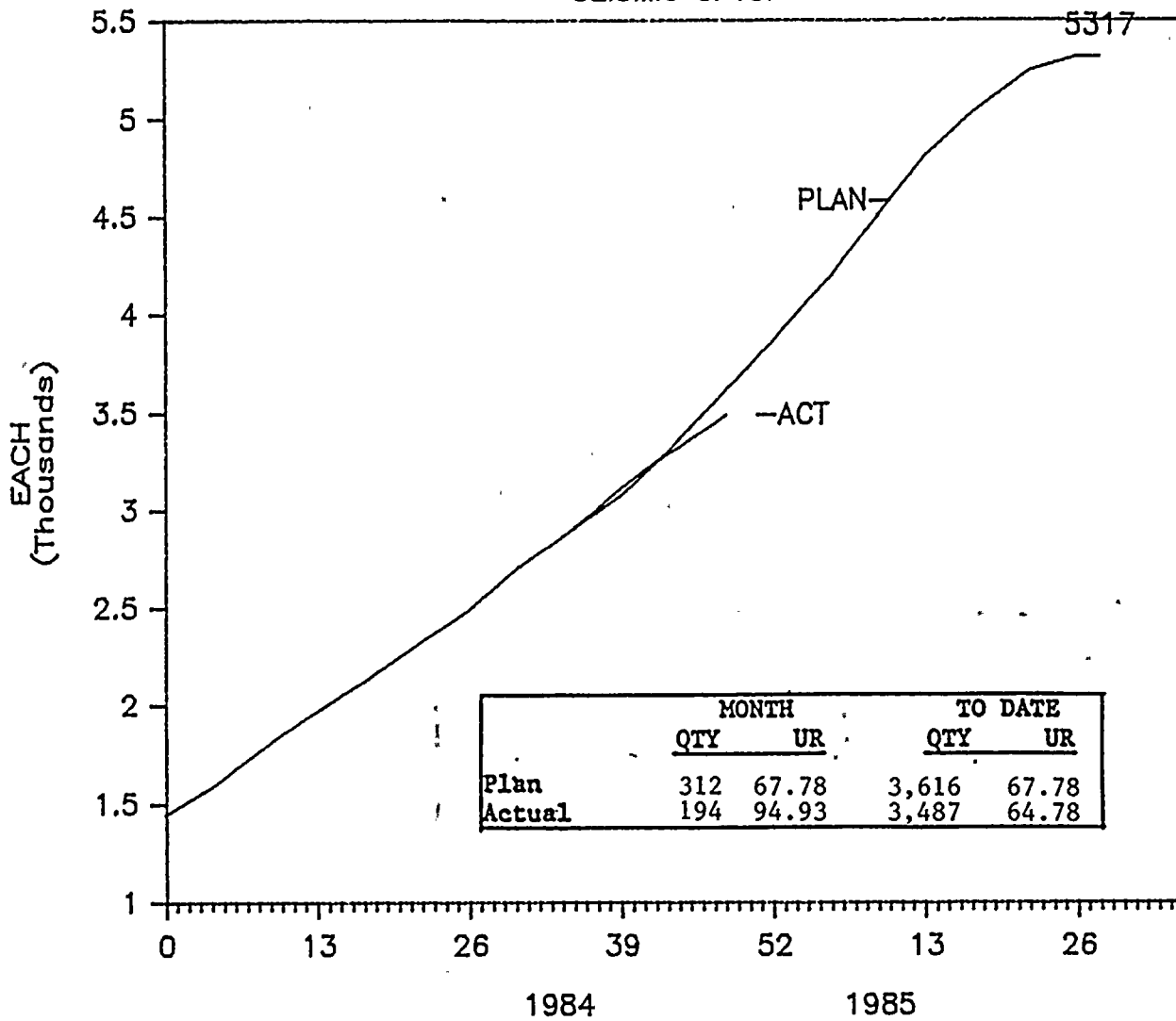
# LKC PLAN VS ACT

CABLE TERM



# JCI PLAN VS ACT

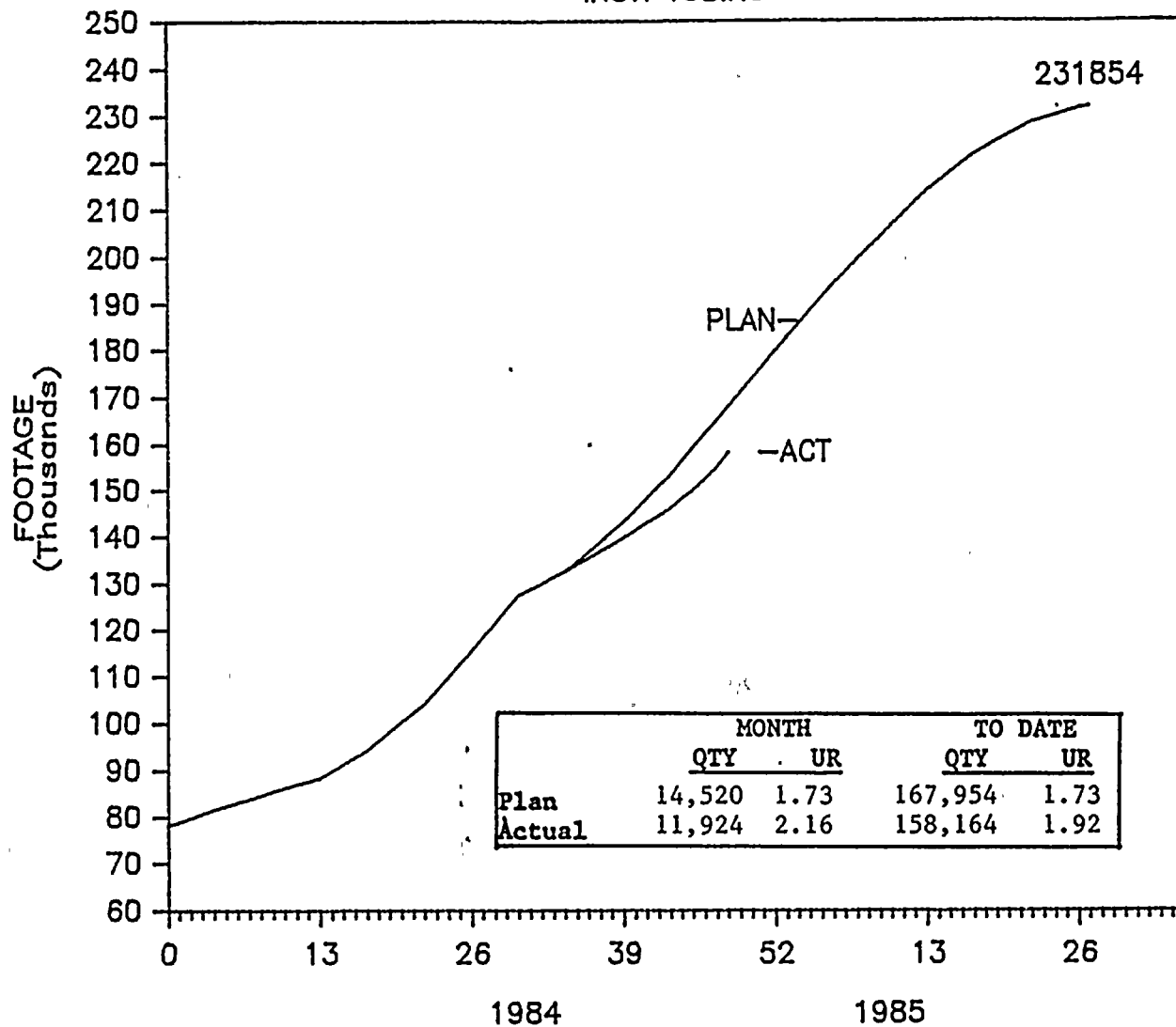
SEISMIC SPTS.





# JCI PLAN VS ACT

INST. TUBING



### III CONSTRUCTION (Continued)

#### B. Contractor Performance

##### 1. SWEC Force Account

In general, SWEC Force Account work continues to support Project priorities; although small bore pipe and small bore hangers require improvement. Specific production assessments and exceptions are addressed below.

##### Mechanical Equipment Erection

A limited amount of equipment remains to be installed and continues to be completed in compliance with system priorities.

##### Cat II and III Hanger Completion

Production continued below planned levels but in support of system priorities.

##### Small Bore Pipe and Supports

Both small bore pipe and hangers proceeded below the revised planned production. A shift in allocation of SWEC forces was completed to move craft from CAT II and L.B. III hanger completion to provide additional labor to support critical small bore system completion.

##### Preventative Maintenance

Planned maintenance requirements and inspections were performed this period and no significant problems were identified.

##### Painting

A contract was not finalized in November. SWEC force account continued to perform site-wide painting. A contract should be finalized during the next reporting period.

##### 2. ITT Grinnell

Large bore hangers continued below planned quantities. Action plans have been developed as described under Major Problem.

##### 3. L. K. Comstock

L. K. Comstock's positive conduit and conduit support production continued. Pulling of unscheduled cable exceeded plan while scheduled cable pulled remained below expectations.

Cable termination remained below target, although the current production rate satisfies Project requirements. This plan is being adjusted to conform to Project requirements.

Increased requirements in system completion shifted a significant portion of L.K. Comstocks labor toward near term work.

### III CONSTRUCTION (Continued)

#### 4. GE-PGCC

Separation rework of four panels is being finalized, with completion of all separation work required by the end of December to meet the NRC commitment. The relatively large number of phase 3D modifications included in the NSSS/BIP program, plus other mandatory BOP and NSSS changes identified in phase 3E & 3F are extending the completion of the PGCC Modification Program through the first quarter of 1985.

#### 5. Johnson Controls

Johnson Controls continued to exhibit a shortfall in scheduled quantities for instrument tubing and supports.

In initiating work in the upper elevations of the Secondary Containment, problems with pre-engineered supports and tubing continued. Due to criticality of the systems involved, these items will be handled on a priority basis, and engineering support will be upgraded.

Authorized JCI's workforce increases have not filled due to difficulties attracting qualified craft.

#### 6. Schneider Power Corporation

Additional focus continued on the Primary Containment installations with a second shift implemented.

#### 7. Insulation Contracts (Various)

Schedule slippages in piping systems release continued to restrain insulation. An evaluation was requested for completion next month to clarify work available to Keasbey.

#### 8. Reactor Controls Inc. (NSSS)

In general, the Recirculation System and Control Rod Drive installations are proceeding on schedule. Internal activity on the RPV remains about four weeks behind schedule.

#### 9. Walsh Construction

SWEC force account assumed Walsh's responsibility for distributable work, and will assume direct work in January 1985. Walsh continued working punch list items and backfill operations site wide.

### III CONSTRUCTION (Continued)

#### C. Construction Completion

Through November 18th, 85 cumulative A releases of a scheduled 106 have been accepted for testing. In addition, 46 flush path releases toward integrated flush have also been accepted for testing.

BIP releases completed during November are as follows:

<u>BIP</u>	<u>T/O DATE</u>	<u>DESCRIPTION</u>
6.002	11-08-84	Feedwater System
6.004	10-31-84	Reactor Feed Pump Seal Water
43.004	11-16-84	Fire Protection Water Control Building
47.004	10-23-84	Fire Detection Norm Swgr. Building
47.006	11-16-84	Fire Detection Diesel Generator Building
48.001	11-16-84	Aux Boiler System and Steam Piping
48.003	11-15-84	Aux Boiler Feedwater
66.008	11-12-84	Diesel Generator Building Drains

During November, a priority list of critical releases was developed by Startup and Test and Construction. These releases represent critical path items with major plant components involved. All site organizations have been charged with providing a maximum effort toward getting these releases completed. In addition, during November, a construction plan of the day meeting was implemented to drive near term releases to completion and improve adherence to completion commitments.

IV.

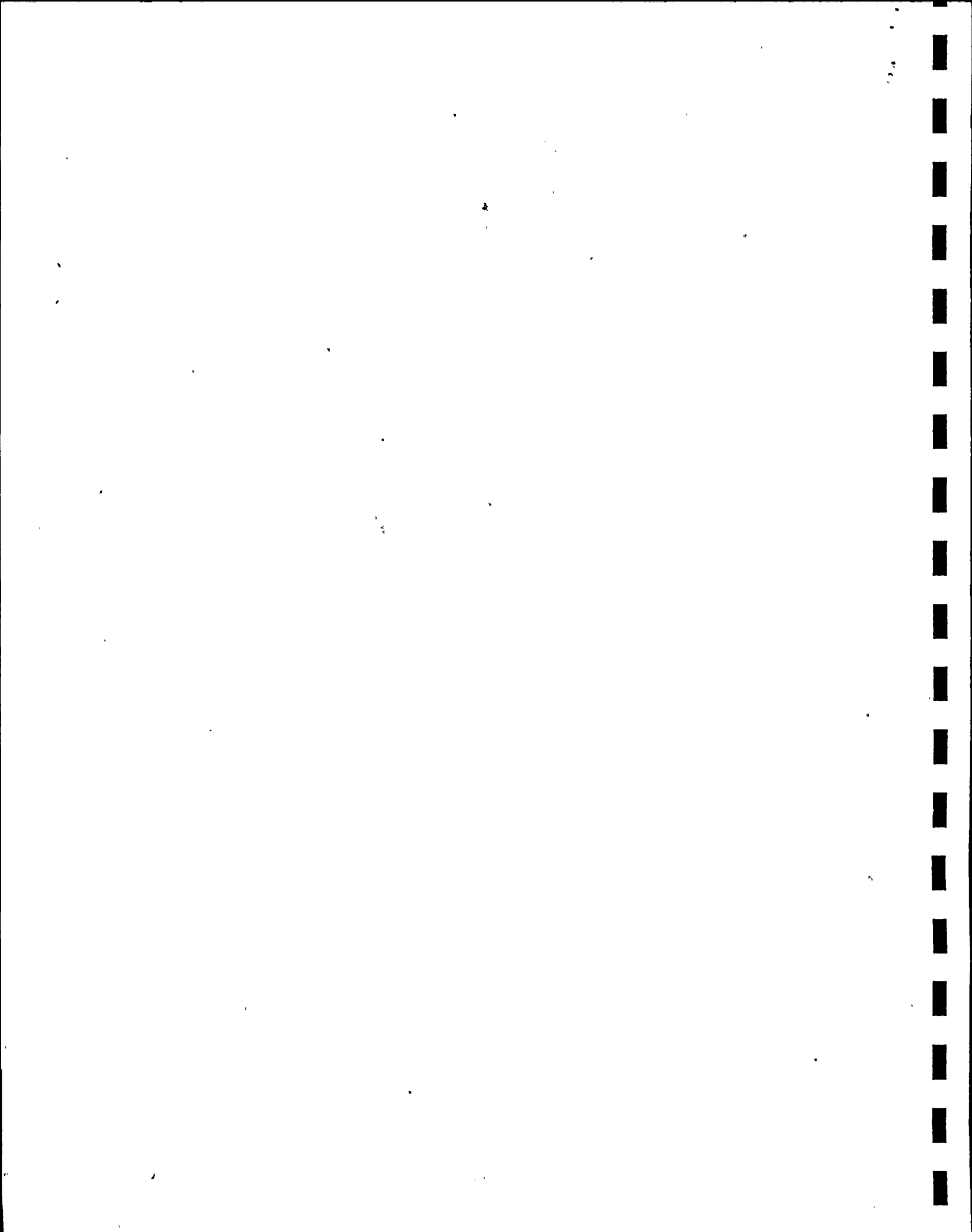
ENGINEERING

A. General

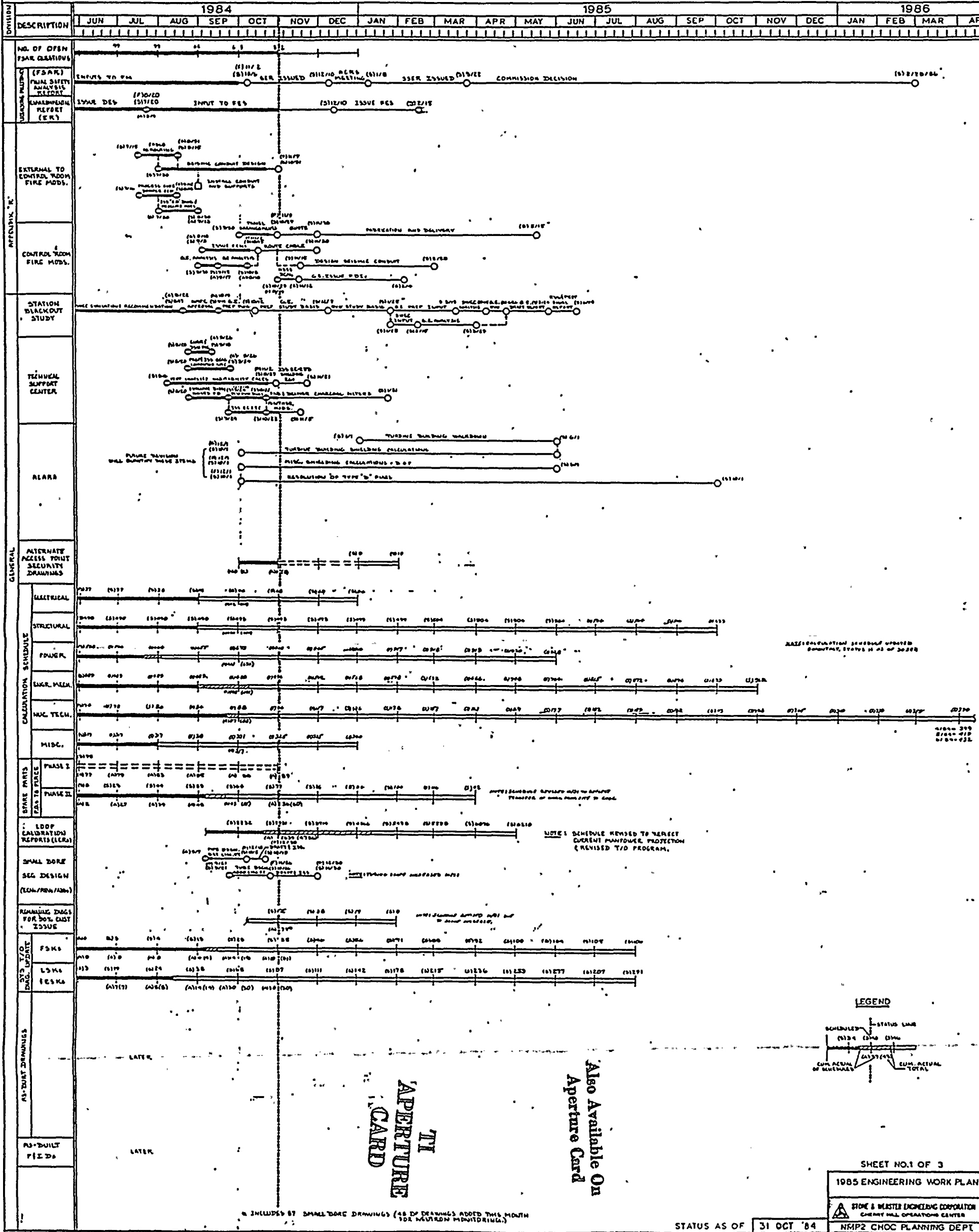
1. Several engineering activities have fallen 2-4 weeks behind schedule. The most significant are highlighted under Problem Areas on the following pages. Other significant engineering activities continue on schedule.

2. Appendix R

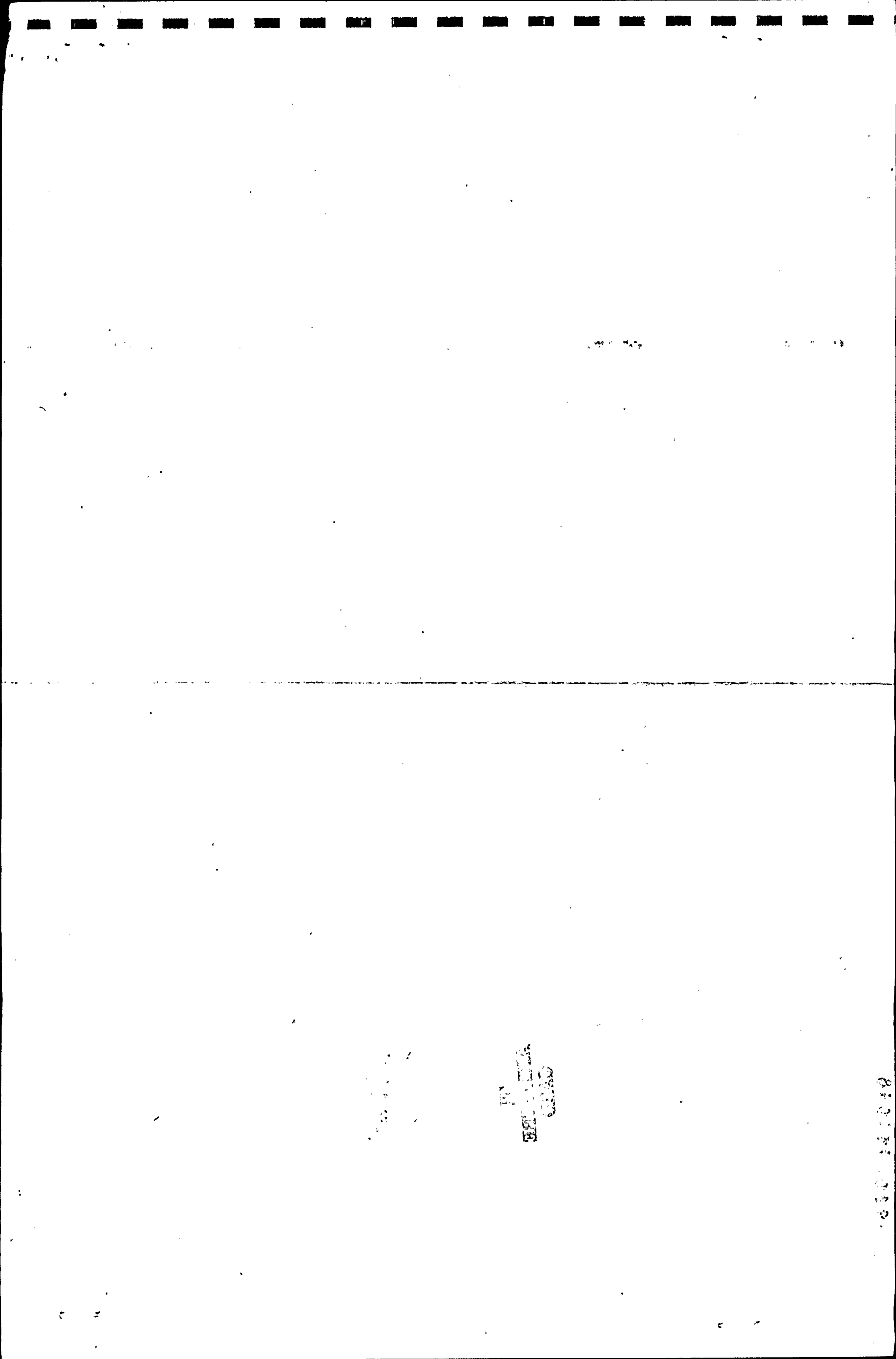
This task continues essentially on schedule. GE has completed its analysis of the NSSS's response for the control room fire scenario. Detailed designs are ongoing with the critical activity identified as being the design and procurement of the disconnect panels.



# MONTHLY STATUS OF 1985 ENGINEERING WORK PLAN

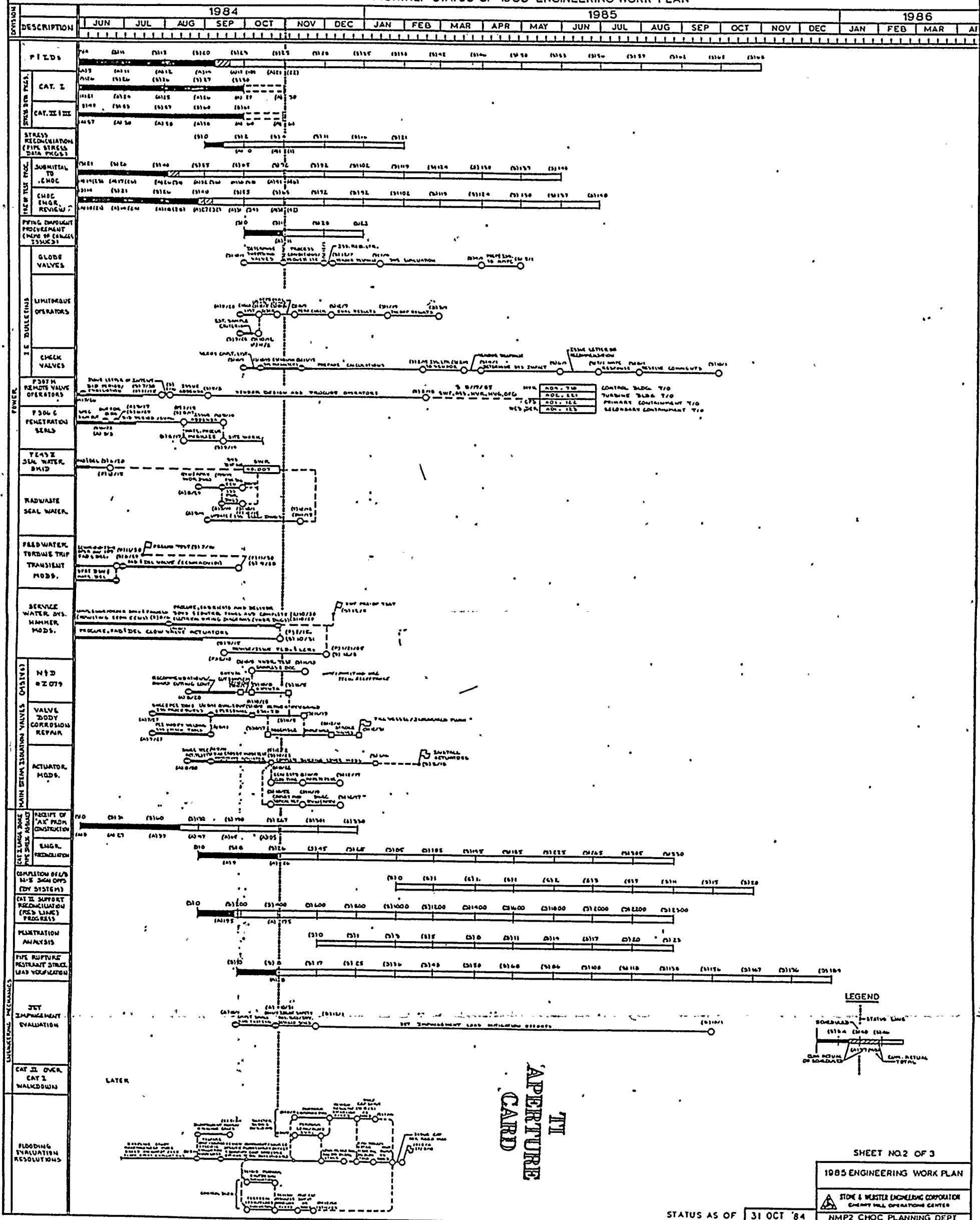


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# MONTHLY STATUS OF 1985 ENGINEERING WORK PLAN

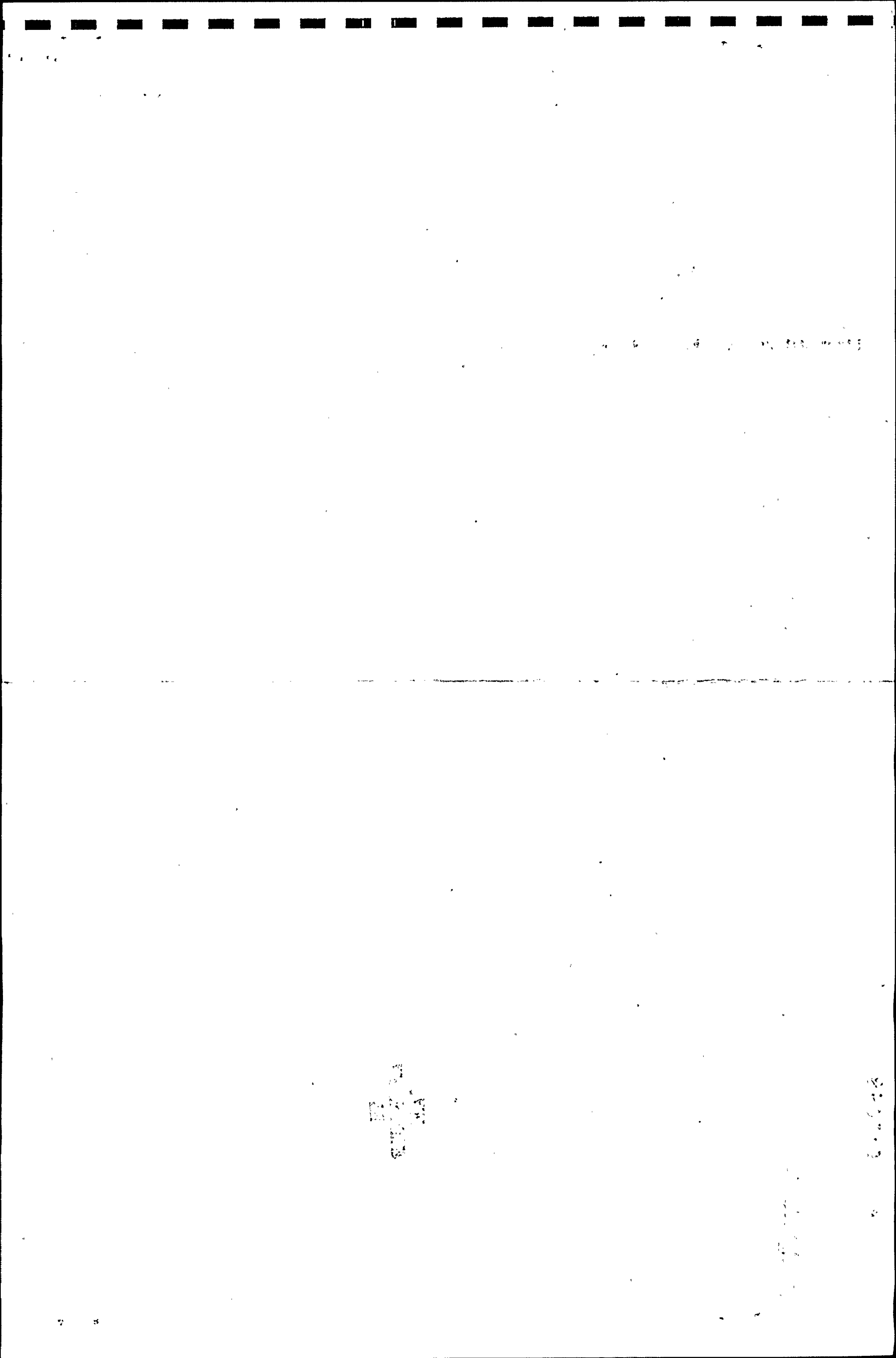


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Also Available On  
Aperture Card

STATUS AS OF 31 OCT '84

SHEET NO.2 OF 3  
1985 ENGINEERING WORK PLAN  
STONE & WEBSTER ENGINEERING CORPORATION  
CHOC HALL OPERATIONS CENTER  
NMP2 CHOC PLANNING DEPT.



III  
APERTURE  
CARD

**Also Available On  
Aperture Card**

8501250093-D3

1  
LAPTOP  
LAPTOP

IV Engineering (Continued)

3. Final Structural Load Verification

Calculations performed to date indicate less rework than initially anticipated. As shown on attachment I, 44 design activities of the final load verification task have been completed compared to 46 scheduled. Two activities: Primary Containment, EL 261 beam design and Primary Containment EL 278 floor analysis are behind schedule. These two activities will be completed and the overall effort back on schedule by December 1984.

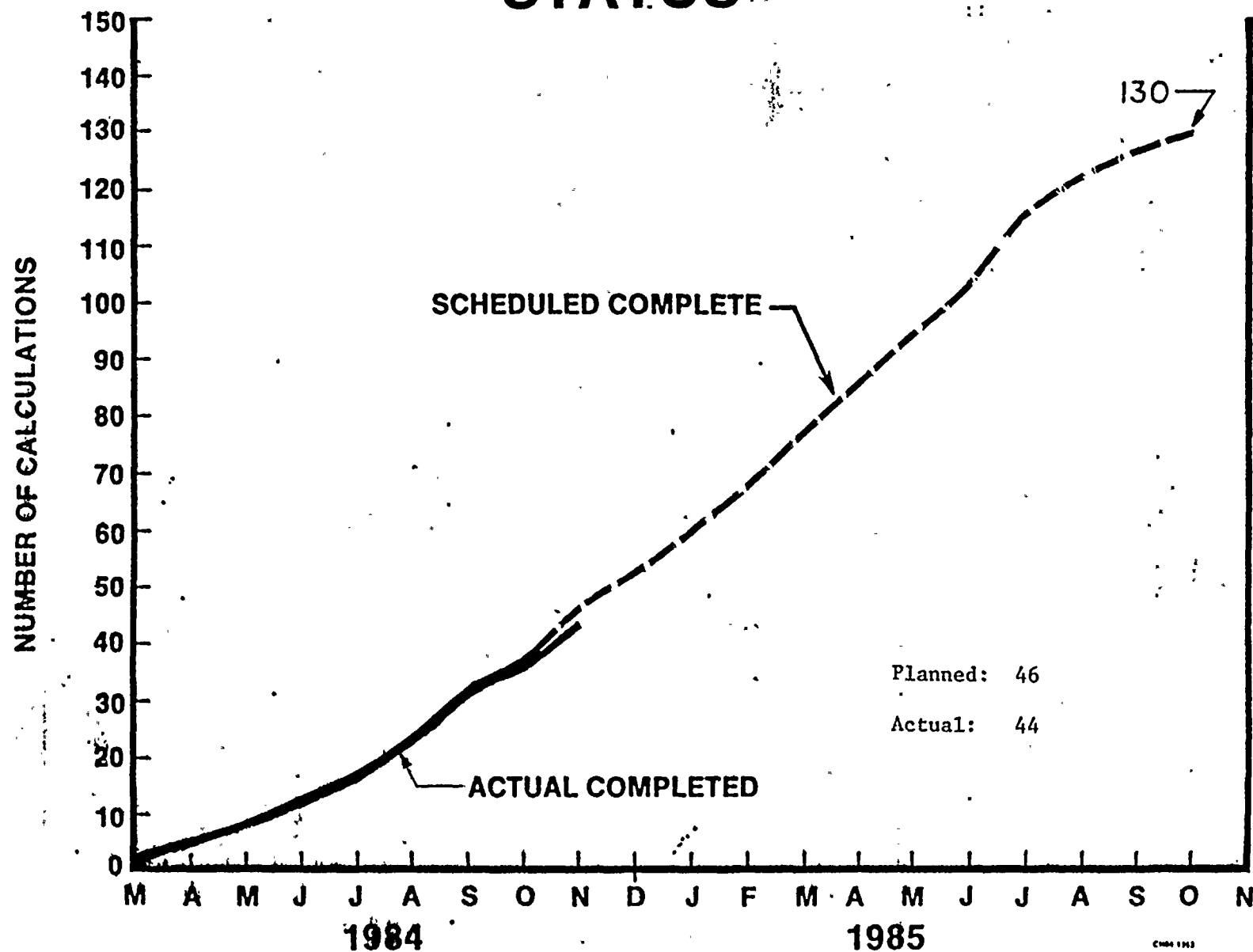
4. As-Built Stress Reconciliation

Engineering efforts are on schedule with 26 packages scheduled and completed. This effort has encompassed 231 pipe support reconciliations requiring 8 changes and 6 new supports.

5. E&DCR's

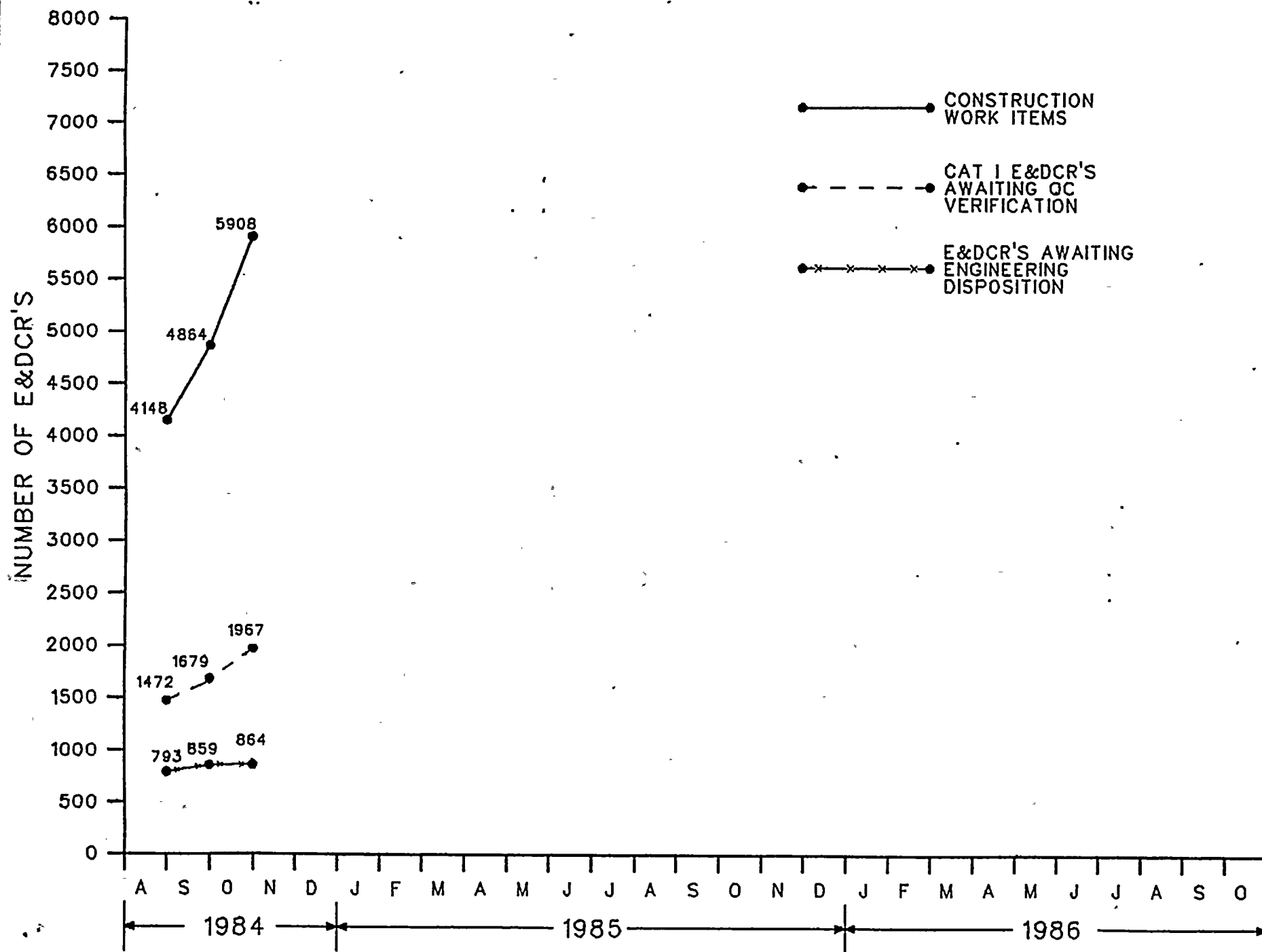
The status of E&DCR's open with Construction, QC, and Engineering is shown on Attachment II.

# STRUCTURAL FINAL LOAD VERIFICATION STATUS



# E&DCR STATUS

ATTACHMENT II



B. Problem Areas1. Spare Parts Procurements

The Phase II effort is currently running approximately 1 month behind schedule. This is due primarily to the "bow wave" of Spec/MPLs (Master Parts Lists) which resulted from System/38 problems in July. Reduction in the current backlog of 21 specifications is anticipated as a result of the revision of Project Procedure 99 to change the processing of GE/NSSS purchase requisitions and the addition of two engineers to the group preparing evaluations in November.

2. Small Bore SEG Design

This effort is running behind schedule due to reallocation of manpower to solve high priority field problems, and is presently anticipated to be completed by January 1, 1985. To date, 419 LF of the original 857 LF of small bore piping have been issued. The effort on the 4000 LF of tubing is now starting.

3. System Turnover Diagram Update

A revised pre-op schedule has been generated and will be used to develop new issue dates for FSK, LSK, and ESK incorporation. This schedule and status will be factored into the next monthly report.

4. Pre-Op Test Procedures

The issuance of NMPC Pre-op test procedure drafts for review is behind schedule; 46 have been received at CHOC versus 72 scheduled for the end of September 1984. This has been due mainly to reorganizations and shifting of manpower in the NMPC Startup group. Forty-two out of 46 drafts submitted to CHOC were reviewed and returned as of the end of October 1984.

The pre-op test procedure draft due dates have been revised by NMPC, and the new schedule will be included in the November 30 issue of the Engineering Work Plan.

5. Main Steam Isolation Valves

After resolving some initial mobilization and alignment problems, work is expected to be complete to support testing operations and the integrated flush schedule.



6. Receipt of As-Built Packages From Construction

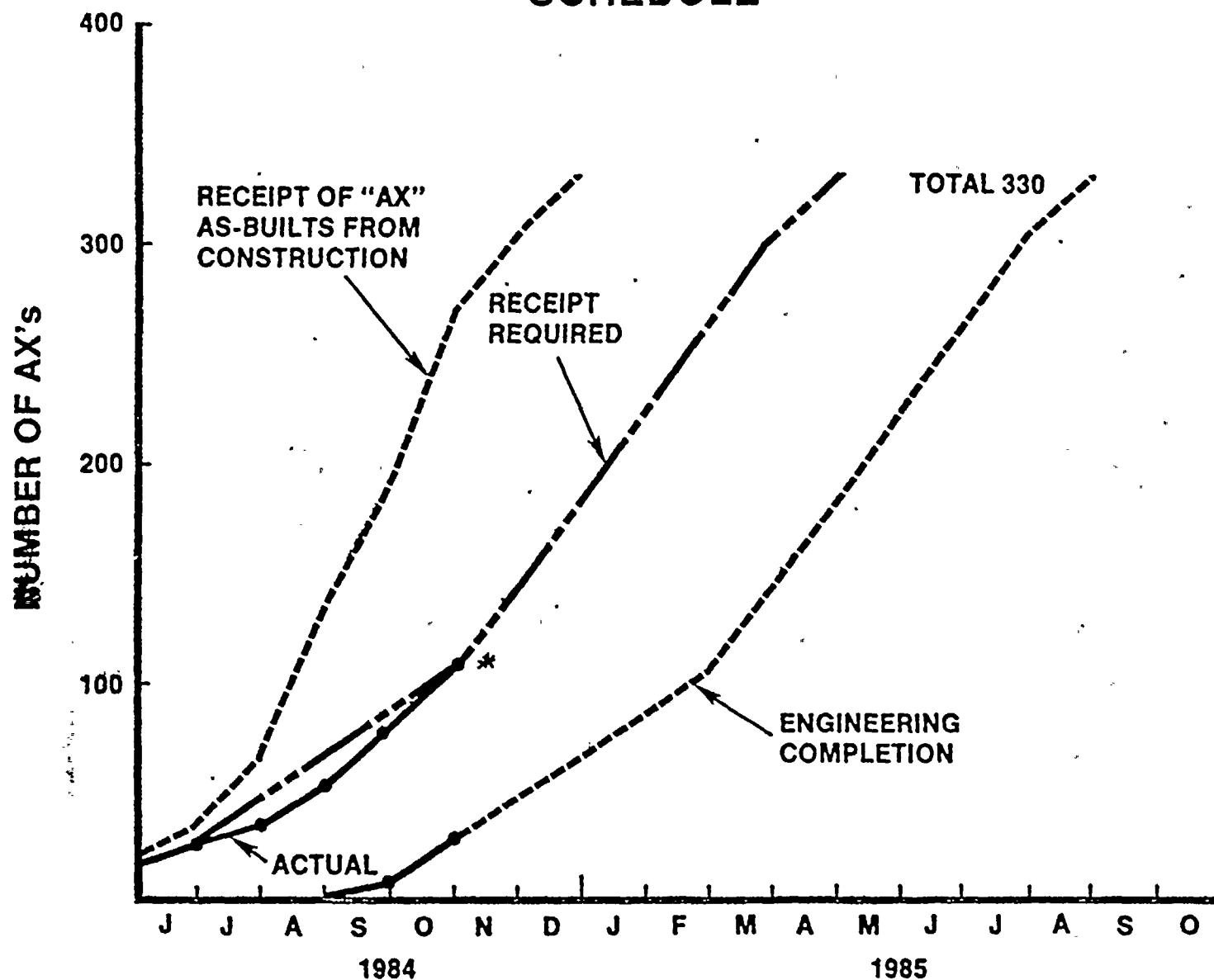
As seen on Attachment III, receipt of AX as-built packages from construction is behind schedule. Of 267 packages to be submitted, 85 had been received by the end of October. In accordance with the workaround plan, an additional 20 packages near completion were received to minimize impact to the engineering reconciliation schedule (total received 105).

A detailed schedule for as-built package submittal, consistent with the integrated flush schedule, is currently being developed by the construction planning organization. This schedule will be reviewed against the engineering reconciliation schedule.

NINE MILE POINT NUCLEAR STATION — UNIT 2  
ENGINEERING MECHANICS DIVISION (PSAS)  
AS-BUILT RECONCILIATION

ATTACHMENT III

SCHEDULE



#### IV. Engineering (Continued)

##### 7. Radiation Monitoring

Kaman started the integrated system test the week of October 22, 1984, and completed it the week ending November 2, 1984. Several hardware problems were discovered during the IST and are currently being reviewed. Shipment is to begin by the middle of November and be complete by the middle of December. This delivery is questionable due to PQA and SWEC Engineering resolution of open items.

##### 8. From/To Conduit Designs

This effort continued to be behind schedule during October. The initial slippage resulting from manpower allocation to other priority tasks is expected to be overcome during November. The scheduled completion for this task has been extended by 3 months through January 1985 to reflect an increase in scope from 3000 to 3400 conduit designs and the manpower reallocation.

##### 9. Equipment Qualification

Work continues to proceed on Equipment Qualification, the effort remains behind schedule primarily due to delayed vendor document submittals. A summary of actual components qualified versus scheduled is shown on attachment IV.

Vendors have been notified that all documentation must be complete by December 31, 1984, in order to meet the milestone of 100 percent qualification by June 1985. These vendor document submittals continue to improve with the intensified review of the action items list and bi-monthly schedule review meetings and the development of special planning fragnets for specifications having more complex qualification programs.

#### C. Drawing Schedule

As of October 31, 1984, 79 drawings were required for construction. They consist of the following:

7 - Electrical wiring and termination drawings. Expected issue had slipped from September to October due to lack of vendor details.

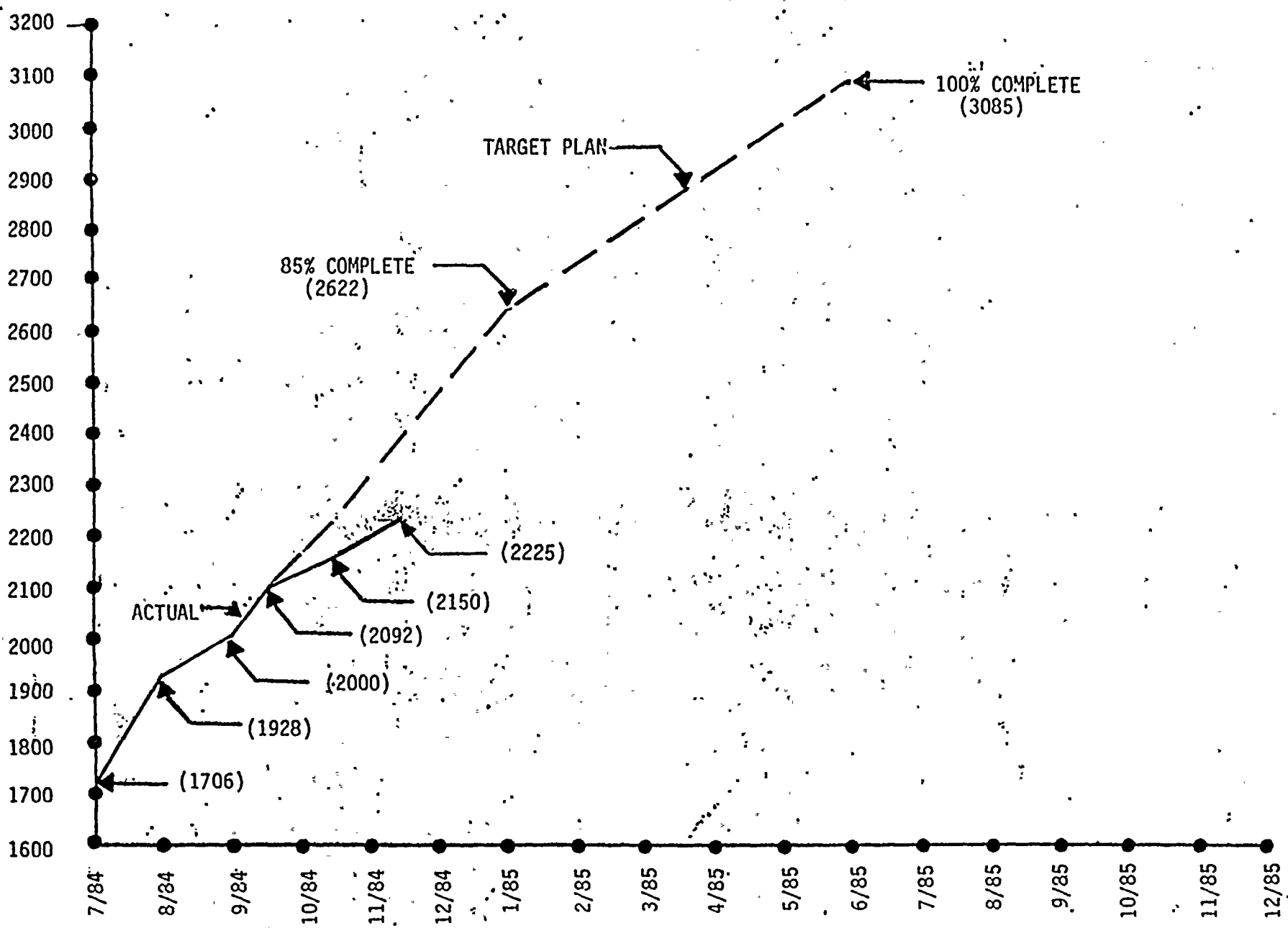
15 - Power drawings that contain holds due to lack of vendor detail on expansion joints and other miscellaneous equipment. Expected issue is December 1984.

57 - Small Bore drawings. This includes the additional 48 Neutron monitoring drawings recently added to the drawing schedule. The completion of drawing issues for construction has been rescheduled to February 1, 1985.

EQUIPMENT QUALIFICATION  
COMPLETION PROJECTION

NUMBER OF COMPONENTS  
--- TARGET PLAN  
— ACTUAL

NUMBER OF COMPONENTS



V. WORKFORCE LEVELS

The Site Staffing is shown on the following table and presented on a weekly basis on additional tables. The SWEC non-manual staffing, regardless of location, is also presented.

NOVEMBER SITE AVERAGE STAFFING (PAYROLL)

	<u>MANUAL</u>		<u>NON-MANUAL</u>		<u>TOTAL</u>	
<u>COST REIMBURSABLE</u>	<u>P</u>	<u>A</u>	<u>P</u>	<u>A</u>	<u>P</u>	<u>A</u>
SWEC	1380	1850	1052	1040 <sup>(1)</sup>	2432	2890
Walsh	481	303	37	27	518	330
LKComstock	731	740	100	97	831	837
ITT Grinnell	988	965	339	436	1327	1401
SMS	84	20	5	1	89	21
JCI	297	277	110	114	407	391
Schneider	150	149	19	20	169	169
Painting	<u>110</u>	<u>0</u>	<u>9</u>	<u>0</u>	<u>119</u>	<u>0</u>
Subtotal	4221	4304	1671	1735	5892	6039
 <u>Hard Money</u>						
A11		197		43		240
GE/NSSS				75		75
NMPC				584 <sup>(2)</sup>		584 <sup>(2)</sup>
 TOTAL		4501		2437		6938

Note:

(1) Excludes CHOC paid site assigned personnel.

(2) NMPC includes MAC, NYSEG, RG&E and Central Hudson.

# Manual Manpower (weekly payroll headcount)

Manual Manpower (weekly payroll, headcount, etc.)													1985													
1984													1985													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	
swoc	1400	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
walsh	1400	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
itt grinnell	1400	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
lk comstock	1400	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
ems	1400	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
johnson controls	1400	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
schneider power	1400	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
others	1400	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
Total	1400	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350

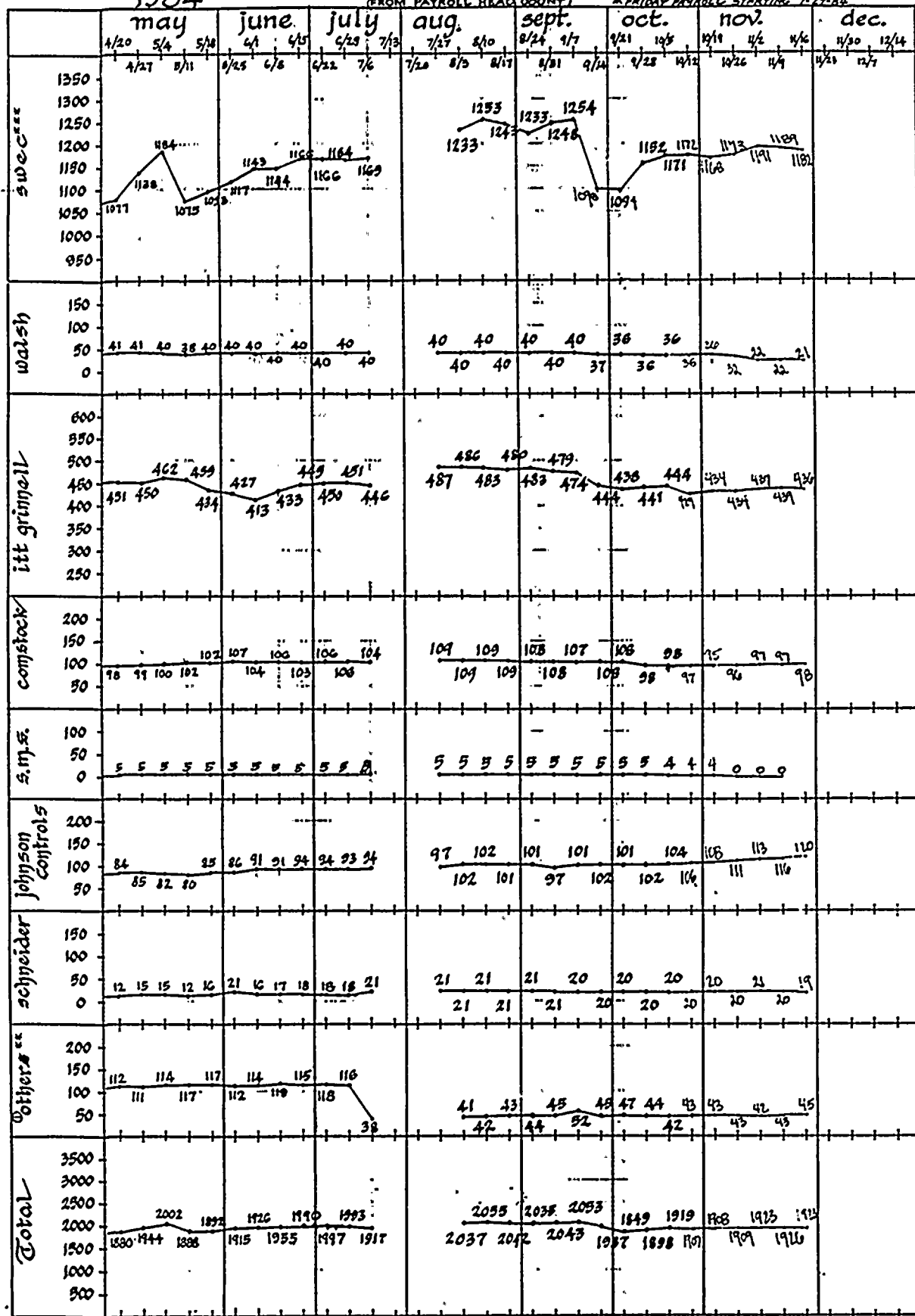
NOTE: 7/1/85 and 7/1/86 INFO NOT AVAILABLE

# Nonmanual Manpower (weekly)

1984

(FROM PAYROLL HEAD COUNT)

WEDNESDAY PAYROLL STARTING 7-27-84



Note:

7/13 and 7/20 INFORMATION NOT AVAILABLE

\*\* GE/NS55 NOT INCLUDED (STARTING 7/6/84) AND NORTHEAST READY MIX as of 9-26-84

\*\*\* EXCLUDES SBC CHOC ONLY (START 8-8-84)



## SWEC STAFFING REPORT

Page 1 of 2

November 18, 1984

	<u>CHOC LOCATED</u>			<u>SITE LOCATED</u>			<u>TOTAL</u>		
<u>Department</u>	<u>Open</u>	<u>Filled</u>	<u>Total</u>	<u>Open</u>	<u>Filled</u>	<u>Total</u>	<u>Open</u>	<u>Filled</u>	<u>Total</u>
<u>MANAGEMENT</u>	0	1	1	0	16	16	0	17	17
<u>PROJECT CONTROLS</u>	0	16	16	9	56	65	9	72	81
Planning	0	10	10	7	36	43	7	46	53
Management Systems				0	4	4	0	4	4
Cost	0	6	6	2	16	18	2	22	24
<u>SITE ENGINEERING</u>				36	471	507	36	471	507
<u>ADVISORY OPERATIONS</u>	0	36	36	6	140	146	6	176	182
PGCC				0	22	22	0	22	22
Startup & Test	0	36	36	6	118	124	6	154	160
<u>PROJECT ENGINEERING</u>	23	470	493				23	470	493
<u>CONSTRUCTION</u>				18	208	226	18	208	226
CCCP				0	7	7	0	7	7
Safety				0	9	9	0	9	9
System Turnover				12	33	45	12	33	45
Construction Groups				6	159	165	6	159	165

## SWEC STAFFING REPORT

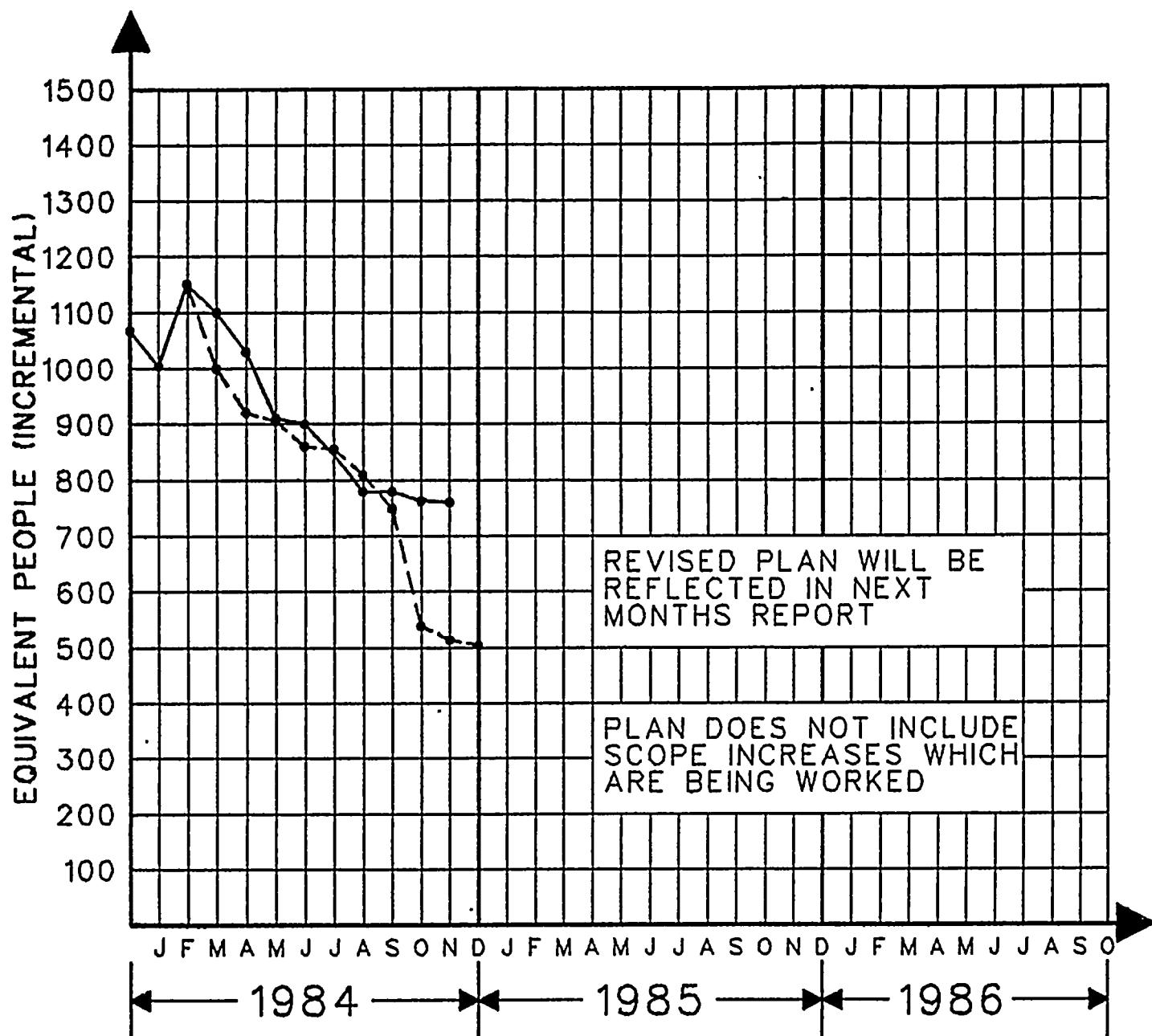
Page 2 of 2

November 18, 1984

	<u>CHOC LOCATED</u>			<u>SITE LOCATED</u>			<u>TOTAL</u>		
<u>Department</u>	<u>Open</u>	<u>Filled</u>	<u>Total</u>	<u>Open</u>	<u>Filled</u>	<u>Total</u>	<u>Open</u>	<u>Filled</u>	<u>Total</u>
<u>ADMINISTRATIVE SERVICES</u>	2	53	55	17	248	265	19	301	320
Project Administration	0	1	1				0	1	1
Office Services				0	7	7	0	7	7
Project Records Admin.	2	1	3	4	17	21	6	18	24
Document Control	0	32	32	13	147	160	13	179	192
Information Systems	0	19	19	0	22	22	0	41	41
Accounting				0	25	25	0	25	25
Time Office				0	15	15	0	15	15
First Aid				0	8	8	0	8	8
Training				0	7	7	0	7	7
 <u>CONTRACTS &amp; MATERIALS</u>	 0	 6	 6	 0	 61	 61	 0	 67	 67
Contracts				0	10	10	0	10	10
Materials				0	23	23	0	23	23
Purchasing	0	4	4	0	12	12	0	16	16
Expediting	0	2	2	0	16	16	0	18	18
 <u>QA/QC</u>	 0	 4	 4	 33	 273	 306	 33	 277	 310
QA	0	4	4	3	22	25	3	26	29
QC				30	251	281	30	251	281
 <u>LABOR RELATIONS/PERSONNEL</u>	 	 	 	 1	 7	 8	 1	 7	 8
 <u>GRAND TOTAL</u>	 25	 586	 611	 119	 1473	 1592	 144	 2059	 2203

# SWEC ENGINEERING AND DESIGN PERSONNEL (SEG + CHOC)

	PLANNED	ACTUAL	VARIANCE
NOVEMBER	523	761	238

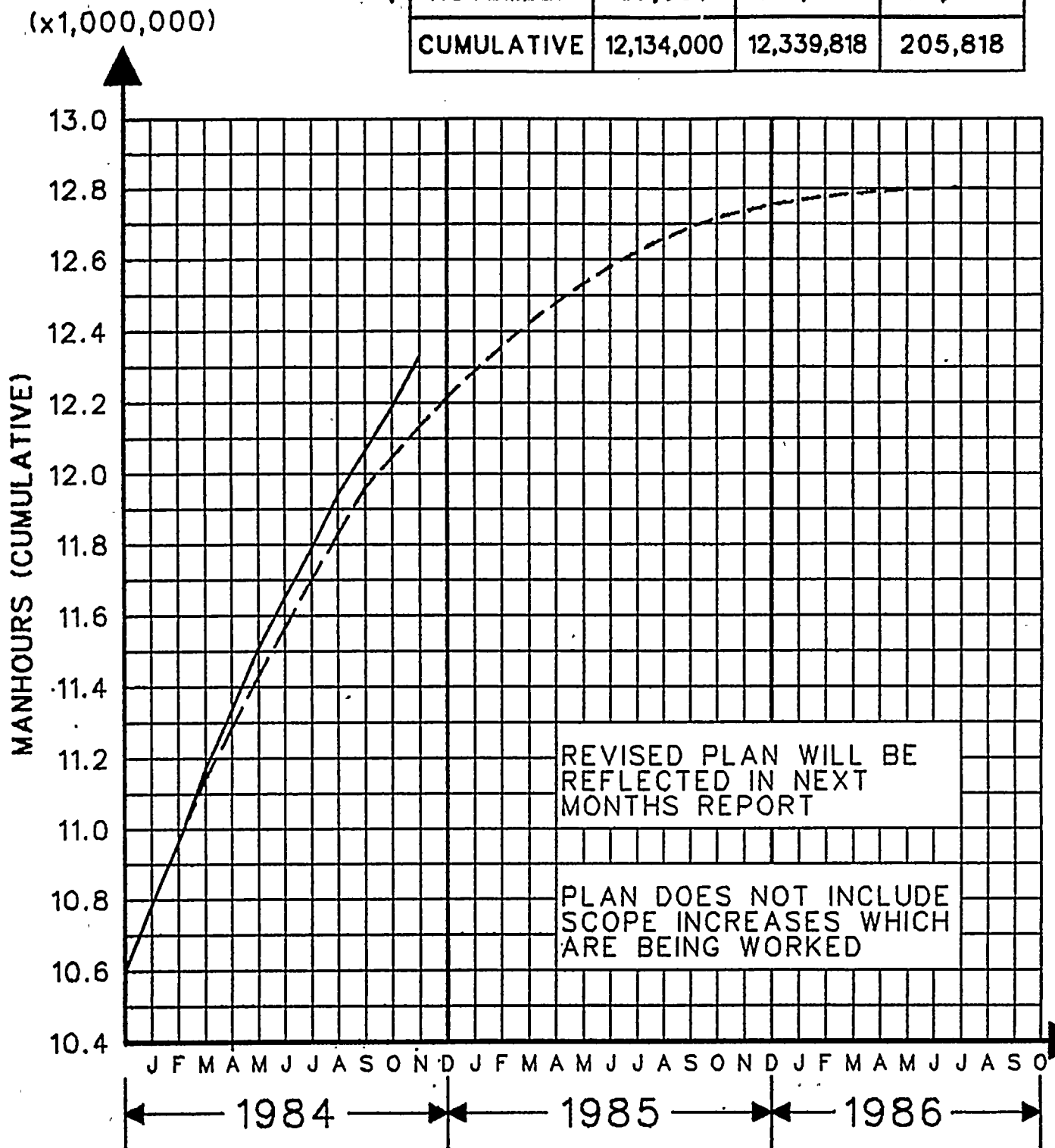


## KEY

- --- ○ PLANNED
- ——— ● ACTUAL

# SWEC ENGINEERING AND DESIGN MANHOURS (SEG + CHOC)

	PLANNED	ACTUAL	VARIANCE
* NOVEMBER	87,000	139,970	52,970
CUMULATIVE	12,134,000	12,339,818	205,818



NOTE:

\* NOVEMBER ACTUALS PROJECTED.

## KEY

○ --- ○ PLANNED  
● — ● ACTUAL

## VI. QUALITY ASSURANCE

### A. QA-Projects Activities

#### Detailed Assessments

Actions to be completed by the contractors, as a result of the detailed assessments, are scheduled for completion by the first quarter of 1985.

#### Surveillance

As part of the NMPC QA-Project's surveillance activities, a review was performed of In-Place safety related items, material, components, etc., that had been accepted by the contractors QC organizations. The data collected from this review has been summarized by commodity, contractor, and generalization of deficiencies (see attachment 1). As a result, NMPC QA-Projects plans to continue this effort to cover the time frame of 1980 through 1984.

Completion of this phase is scheduled for early December 1984, followed by the evaluation of the results to determine required corrective/preventive actions. To date, SWEC has been directed to further evaluate the areas of ITT Grinnell installed large Bore Pipe supports. A written response of the evaluation is then to be provided to NMPC QA no later than November 30, 1984. It should be noted that all identified deficiencies have been documented and have been or will be properly resolved.

Another 67 surveillances were performed by NMPC QA-Projects from October 20 to November 19, 1984, involving approximately 800 attributes from approved checklists. From these surveillance activities the following number of deficiencies/discrepancies were identified:

	<u>HARDWARE</u>	<u>SOFTWARE</u>
SWEC	6	1
ITT Grinnell	3	0
JCI	1	0
RCI	2	1

All of the above deficiencies/discrepancies have been properly identified and are being resolved. In addition to the above, Eight Corrective Action Requests (CARs) were issued as follows:

	<u>HARDWARE</u>	<u>SOFTWARE</u>
SWEC	1	4
ITT Grinnell	1	0
JCI	0	2
RCI	0	0

CAR #84.0112 had imposed a "Stop Further Processing Order" on RCI's activities involving General Electric's (GE) FDI-14-31263. This "Stop Further Processing Order" is still in place. RCI is to develop or revise procedures to address processing of G.E. FDI's prior to the stop further processing order being lifted.

CAR #84.0126 had imposed a "Stop Further Processing Order" on ITT Grinnell's activities for threading rod. ITT generated fabrication and inspection procedure for this activity and the "Stop Further Processing Order" was lifted.

#### Audits

A hardware orientated audit, RG-VR-NZ-84008, of SWEC's ASME III Small Bore activities under specification P301P was completed. Four AFR's were issued, one identifying a hardware deficiency and the remaining three identifying programmatic deficiencies. On the positive side, the auditors noted a dedication among the functional groups involved, and their dedication to implement the program properly.

A special audit SP-VR-NZ-84009 to comply with the commitment made to the NRC in G.K. Rhode's letter dated June 30, 1983, which was in response to an NRC Notice of Violation. In summary, NMPC committed to assuring that only certified QC personnel (ANSI N45.2.6) would be "Final Accepting" items and not personnel in training is currently in process. The scope of the audit has been expanded to include the qualification/certification programs and the proper utilization of only certified personnel of JCI, RCI, and ITT-G, as well as SWEC's.

#### Quality Trending

Of the six remaining Suspected Trend Investigation Reports (STIRS), four have been investigated and the other two require further analysis. As a result of the recently completed four STIRS, one corrective action request has been issued to identify and correct an adverse trend for inadequate inspection performed by SWEC's FQC. The next quality trend report will be issued in January 1985.

#### NRC RELATED ACTIVITIES

As a result of the NRC Resident Inspector's formal exit meeting of October 19, 1984, five (5) unresolved items and two (2) open items were identified. These seven items are presently being investigated and addressed by NMPC and SWEC. At the same time, twelve previously identified items were closed.

ITT Grinnell has submitted, for SWEC and NMPC review, a plan for performing the film comparisons to determine the extent if the "Duplication of Radiographs" problem. To date, two instances of duplication have been identified.

NRC Open Items, Unresolved Items and Notices of Violations, that remained open as of September 20, are statused below:

1	2	3	4	5	
<u>Item</u>	<u>Additional Action Required</u>	<u>Final Review</u>	<u>On Hold</u>	<u>NRC Reviewing</u>	<u>Total</u>
Open:	3	8	2	3	16
Unresolved:	18	21	12	6	57
Violations:	11	9	3	4	<u>27</u>
				TOTAL	100

- 1- NRC Open Item, Unresolved Item, or Notice of Violation
- 2- Additional action required within NMPC or contractor prior to final review and verification by QA (i.e. more documentation required, additional calculations to be performed, etc.)
- 3- The package for the item is completed and is being reviewed for adequacy and completeness prior to submittal to the NRC.
- 4- Items which parallel or are identical to items presently identified in the CAT inspection and require further resolution prior to submittal.
- 5- Items which have been completed and have been forwarded to the NRC for review and approval for closure of the item.

B. Independent Review

Assessment Team Inputs for Progress Report

The Independent Assessment Team has completed its review of completed CAT Action Plans (Phase 1). This represents 63 items and 358 specific deficiencies. Three other items (seven deficiencies) related to radiography will be handled separately by NMPC-QA. Twelve CARs have been issued. Six of these represent hardware deficiencies and the other six represent programmatic deficiencies. Percent acceptable is 96.6%.

The review of SALP (Systemic Assessment of License Performance) and CDR (Construction Deficiency Reports) deficiencies identified by NRC (Phase II) is nearly complete. Four CARs have been issued, three of which are programmatic and one of which is hardware related. A total of 129 items were reviewed altogether for a 98.0% acceptability rate.

The review of deficiencies identified by NMPC between 1/1/81 and 3/31/84 (Phase III) is still in progress, although all items for the final report to NMPC and NRC have been finished. Approximately 190 of a total of 216 items have been completed. Four CARs (three programmatic and one hardware) have been issued for an acceptance rate of about 97.9%.

The review of contractor identified deficiencies from 1/1/81 through 3/31/84 (Phase IV) is nearly complete for purposes of the final report although analysis of the "broken" samples will still be required. About 2580 items have been completed out of approximately 2640 total. To date, 21 programmatically related and 39 hardware related CARs have been issued for an acceptance rate of 97.7%.

The final report for all four phases remains on schedule for December 18, 1984.



ATTACHMENT 1

<u>COMMODITY</u>	<u>RESPONSIBLE CONTRACTOR</u>	<u>NO. OF ITEMS INVOLVED</u>	<u>GENERIC DEFICIENCIES</u>
PIPE HANGERS/SUPPORTS	ITT GRINNELL	50	SUPPORTS VIOLATED MINIMUM GAP AND CLEARANCE REQUESTS AND HAD LOOSE LOCKING DEVICES
INSTRUMENT TUBING SUPPORTS	JCI	17	SUPPORTS IDENTIFIED WITH WELD DEFICIENCIES (i.e., SPATTER, OVERLAP)
CABLE TRAY	SWEC/COMSTOCK	62	TRAYS LACK ID MARKINGS AND GROUND WIRES
STRUCTURAL STEEL	SWEC/CIVES	MEMBERS: 76  CONNECTIONS: 114	MEMBERS AND CONNECTIONS  HAD INCORRECT COPES AND UNACCEPTABLE WELDS

## VII. CONTRACT ADMINISTRATION

### A. Major Contract Issues

#### 1. GE Spare Parts Excess Inventory Sale - NSSS

Contract Administration was successful in extending a General Electric proposal offering an inventory of NSSS startup, test and operational spare parts at a discount (35-50%). Efforts continue to take maximum advantage of this offer. This proposal is valid until December 31, 1984.

#### 2. P800A - GE NSSS Contract Amendment No. 18

Contract Amendment No. 18, covering a two-year extension of services, was signed by General Electric on November 2, 1984 and by NMPC on November 16, 1984.

#### 3. P800A - GE NSSS Contract - Cost Allocation

Using the joint GE-NMPC team approach, an intensive effort was begun to characterize the technical nature of the PGCC System FDDR's. The scope of this effort will be to determine the root causes of FDDR's, division of cost responsibilities, and quantify the total cost obligations. A statistical sampling procedure was agreed upon to keep the work within bounds. Work is progressing well toward a target date of mid-December to be ready for a final settlement meeting.

#### 4. Startup and Test Services - RFQ

A total of thirteen vendors were requested to bid for startup and test services. All bids were received on site November 15, 1984. The commercial and technical evaluation will begin November 19, 1984.

#### 5. Reactor Controls, Inc., P301V

Efforts are being pursued to reach commercial resolution on the impacts to RCI's construction program as a result of RCI's QA program enhancements and modifications.

#### 6. ITT Grinnell Engineering Billing Issue, P301N

ITT Grinnell has been requested to provide any new data which supports their current position, and further requested to participate in a negotiated settlement.

### B. Materials Management

#### Materials Computer System

In an effort to provide greater site visibility of material availability, needs, schedule and overall status, Materials Management has implemented the Nine Mile 1 system. This system is immediately available and is designed to provide smooth transition to commercial operation.

C. Expediting

1. BALANCE OF PLANT (BOP):

The total number of active CHOC purchase orders for permanent plant equipment is seventy-seven (77) with deliveries projected through June 30, 1985. The material on these orders represent a total of 1,892 items which are not delivered (not including hanger material, cable, or equipment procured from GE on the NSSS contract) and are required for completion of the plant.

2. Schedule Impact:

The seventy-seven (77) open orders can be broken down into two categories:

	<u>11/84</u>	<u>10/84</u>
On or ahead of the P.O. commitment	19	20
Behind the P.O. commitment	58	62

The fifty-eight (58) negative orders do not necessarily indicate schedule impact. Expeditors have been attending daily meetings with Construction Systems Completion and with AOD in order to identify material restraints. Although most materials identified are procured by the Field Purchasing group, there is equipment on eleven (11) CHOC purchase orders currently projected as impacting the turnover completion schedule. Corrective action plans have been initiated.

## VIII. STARTUP AND TEST

### A. General

Startup Administrative Procedures (SAP) have been drafted and Joint Test Group (JTG) has approved 18 of the 31 total SAP's since 10/29/84. The remaining 13 SAP's are scheduled to be approved by the end of November. These procedures streamline and set policy for the Startup and Test Program.

### B. Release for Testing Status

Of the 106 subBIP 'A' releases scheduled as of November 18, 1984, 85 have been accepted for Preliminary Testing. There are 4 additional subBIP 'A' releases which have been accepted as early releases. There are 21 subBIP 'A' releases overdue per the Project Schedule issued October 15, 1984. (See Attachments 1 and 2)

### C. Preliminary Test Status

Preliminary testing continued with emphasis on supporting testing in progress on Service Water, Condensate System, Instrument Air System, Turbine Building Closed Loop Cooling, Makeup Water, Control Rod Drive Hydraulics, Turbine Generator Lube Oil System, and Permanent Plant electrical unit heaters, Electrical, Annunciator & Computer testing is being prioritized to support the Startup schedule. The portions of the circulating water, Feedwater, Radwaste, and Heating Ventilation Systems which have been released are also being prioritized to support the Startup schedule.

### D. Turnover Status

Project Records Management has the schedule of system turnovers to support development of a required records list and inclusion of outstanding documentation on the Installation Completion Report (ICR) to support the turnover process.

### E. Preop/Acceptance Testing Status

Startup and Test is preparing to begin an Acceptance Test for System 15 - Makeup Water Treating by the end of November, 1984. The system turnover plan is shown on Attachment 3.

#### F. Major Problems

1. Materials and Spare Parts: An evaluation of the present Materials and Spare Parts Program is in process. The initial problems identified are being addressed and resolutions are in progress (i.e. completing an inventory of the warehouse and feedback is being provided to user organizations). The Controlling Procedure (PG-35) has been revised to streamline the efforts.
2. Release of Systems From Construction: Startup and Test is working with Turnover to accept releases which are designated priority for testing. The releases are behind schedule due to incomplete construction, procedural and programmatic problems.
3. Systemic Software: Current Permanent Plant File contents indicate a need to increase the emphasis and activities for software processing to be completed to support system turnover. A major effort remains underway by Records Management to define the records required for turnover. (See Section X).
4. Project Schedule Integration: Meetings are being held to coordinate and bring the various Project schedules and contractors into line with the Startup/Project Schedule. The Project is shifting to a System Completion mode to support plant completion and Startup. Startup has started a Plan of the Week to coordinate the testing to support the Startup/Project Schedule.

#### G. Fuel Status

1. Enriched uranium has been delivered to G.E.
2. G. E. currently fabricating the bundles; scheduled to complete by May, 1985.
3. NMPC currently evaluating storage requirements prior to shipment to Site.

## SubBIP 'A' Releases

Scheduled	Released IAW Schedule	Early Release	Total Releases Accepted
106	85	4	89

Late Per Schedule: 21

## 'B' Component Releases

Schedule	Early Releases Accepted	% Completed Testing
N/A	183	65%

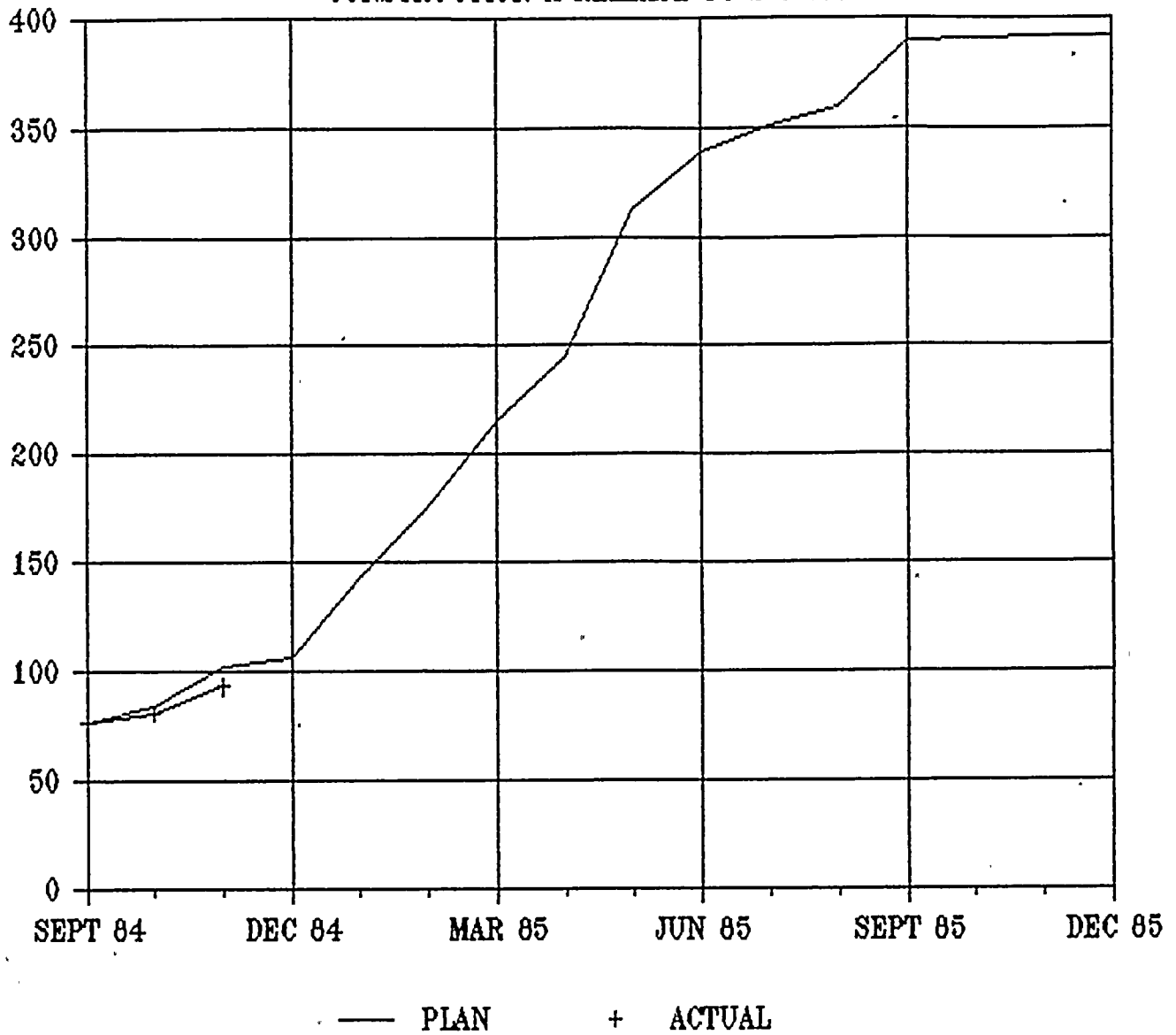
NOV 18 1984

# PLAN VS ACTUAL

## CONSTRUCTION A RELEASE TO STARTUP

ATTACHMENT #2

CUMM "A" RELEASES



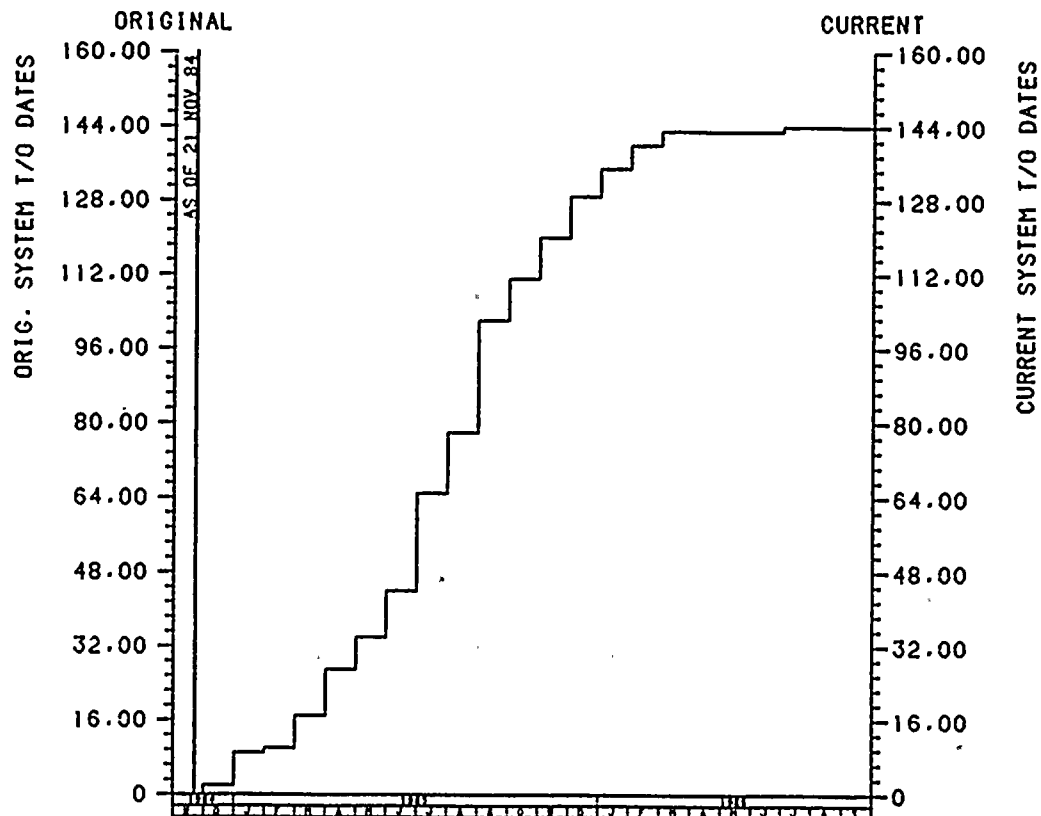
P2 GRAPHICS

PROJECT BIEPUSH

PLOT FILETIME

PAGE 1

SHEET 1

NIAGARA MOHAWK POWER CORPORATION  
NINE MILE POINT UNIT 2  
SYSTEM TURNOVER DATESORIG. SYSTEM T/O DATES  
ORIGINAL INCREASING BASE/ STARTS  
ORIG SCH ES CUMCURRENT SYSTEM T/O DATES  
CURRENT/ STARTS  
CURR SCH ES CUM



## IX. COST

### A. Cash Flow Summary

Approximately \$2,608 million\* has been charged on the total Project to date. (See Attachment 1)

See Attachment 2 for the cost commitment status report with expended cost through October.

As of November 18, approximately 626.6 million had been expended in 1984 versus 633.4 million forecasted or an underrun of 6.7 million.

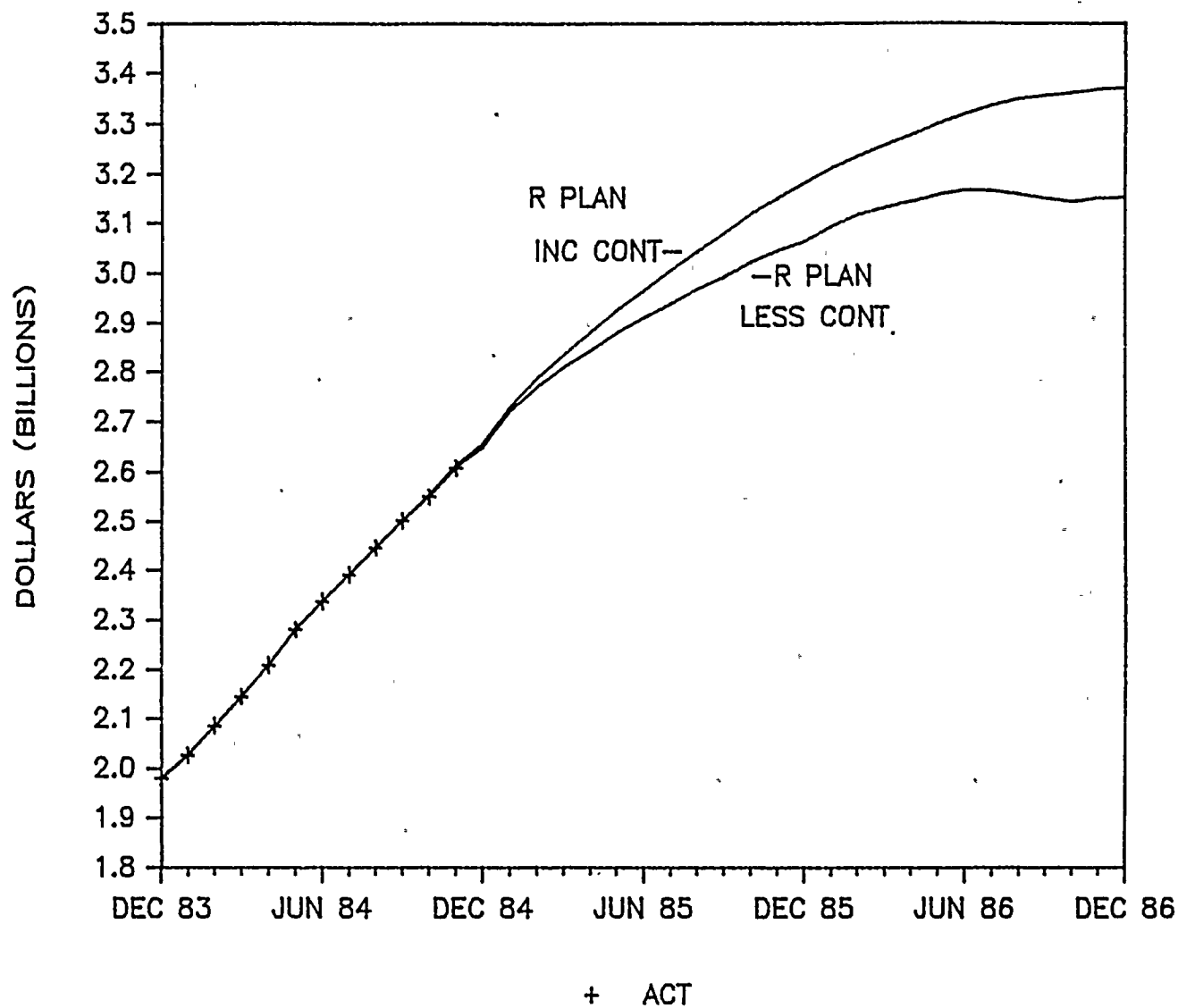
Approximately 58.3 million was expended in November versus 60.6 million planned.

### B. November Cash Flow Variance Analysis

	<u>Variance</u>	<u>Remarks</u>
SWEC (Manual & Non-Manual) & Walsh (Manual & Non-Manual) Including: Printing Temp. Electric Walsh Takeover	\$ .5 million over	SWEC Labor Forces have taken over the forecasted Printing effort, the remaining Temporary Electric effort (SMS), and a portion of Walsh's effort. The overall effect of this takeover has been an approximate 50000 MH overrun in Manual Manhours, and an underrun in Non-Manual manhours of approximately 1700 MH. (The combined effect being a \$.5 mil. overrun to the forecast).
Grinnell	\$. 8 million over	Non-Manual staffing higher than Plan. Manual overtime higher than forecast by approximately 10000 hours (38% over plan).
Comstock	\$. 6 million over	Manual and Non-Manual overtime over the forecast. (Manual overtime being 41% over and Non-Manual overtime being 49% over)
Johnson Controls	\$. 5 million under	Underrun is attributed to a one-week payment not made in November as forecast.

FPO's	\$1.0 million over	Resultant overrun due to realistic purchase order requirements needed to support construction.
Other Misc.	\$ .2 million under	
Total Construction	\$2.2 million over	
Headquarter Labor	\$1.4 million over	Manpower requirements greater than forecast.
HQ NSSS/PGCC	\$2.9 million under	Realization of negotiated credits
Headquarter P.O.'s	\$ .5 million over	October underruns being realized in November.
Total Headqrtrs.	\$1.0 million under	
Client Cost	\$3.1 million under	Underrun in Property Tax as forecasted and consultant fees not paid in November.
Contingency	\$ .4 million under	
<b>TOTAL PROJECT</b>	<b>\$ 2.3 million under</b>	

## PROJECT FORECAST



\*\*19-Nov-84 \*\*

\*\*COST COMMITMENT STATUS REPORT-OCT.84\*\*

DESCRIPTION	9/15/80 ESTIMATE		1/1/83 ESTIMATE	4/84 REVISED ESTIMATE	10/84 CONTRACT COMMITMENT	10/84 EXPENDED	ESTIMATED COST TO COMPLETE	PROJECTED FINAL COST
	ORIGINAL	REFORMATED						
A. CONSTRUCTION								
1. CONTRACTS								
a. WALSH	\$176,261	\$179,915	\$192,455	\$243,837	\$243,837	\$235,418	\$8,419	\$240,832
b. ITT GRINNELL	\$126,732	\$144,391	\$223,574	\$252,538	\$240,347	\$234,770	\$17,768	\$256,758
c. L K CONSTOCK	\$58,619	\$61,281	\$75,990	\$152,432	\$152,432	\$115,959	\$36,473	\$147,405
d. JOHNSON CONTROLS	\$13,136	\$14,878	\$21,423	\$32,052	\$32,051	\$19,595	\$12,457	\$36,940
e. SCHNEIDER PWR	\$9,028	\$9,028	\$11,041	\$31,982	\$28,357	\$24,507	\$7,475	\$31,543
f. OTHER	\$284,152	\$292,068	\$315,671	\$340,898	\$295,557	\$274,553	\$66,345	\$338,034
2. SWEET LABOR	\$182,715	\$203,576	\$213,322	\$402,571	\$277,449	\$277,449	\$125,122	\$395,199
3. WORK. COMP. & INSUR.	\$35,650	\$35,650	\$37,612	\$23,992	\$22,240	\$22,240	\$1,752	\$29,636
4. FIELD P.O.'s & UTIL.	\$113,215	\$121,757	\$142,413	\$238,430	\$197,402	\$190,607	\$47,823	\$232,786
SUBTOTAL	\$999,508	\$1,062,544	\$1,233,501	\$1,718,732	\$1,489,672	\$1,395,098	\$323,634	\$1,709,133
B. HEADQUARTERS								
1. HQ SERVICES	\$382,891	\$388,231	\$415,184	\$571,305	\$510,997	\$510,997	\$60,308	\$571,018
2. PQA SERVICES	\$25,002	\$25,002	\$33,361	\$36,349	\$31,632	\$31,632	\$4,717	\$36,644
3. CHOC P.O.'S								
a. NSSS & PGCC	\$145,934	\$145,934	\$120,018	\$222,747	\$498,204	\$163,051	\$59,696	\$219,147
b. T.G.	\$36,306	\$36,308	\$36,308	\$36,315	INC ABOVE	\$36,308	\$7	\$36,315
c. OTHER	\$230,470	\$235,806	\$254,650	\$289,054	INC ABOVE	\$248,845	\$40,209	\$288,254
SUBTOTAL	\$820,603	\$831,281	\$859,521	\$1,155,770	\$1,040,833	\$990,833	\$164,937	\$1,151,378
C. CLIENT COST (1)	\$234,889	\$234,889	\$222,978	\$290,498	\$171,606	\$171,606	\$118,892	\$290,498
D. CONTINGENCY	\$345,000	\$271,286	\$334,000	\$205,000	\$0	\$0	\$205,000	\$218,991
GRAND TOTAL	\$2,400,000	\$2,400,000	\$2,650,000	\$3,370,000	\$2,702,111	\$2,557,537	\$812,463	\$3,370,000

(1) CLIENT COST INCLUDES UNIT #2 ADMIN BLDG COST &amp; AFUDC COST (\$2,581,491 &amp; \$5,290,799 RESP.)

\*\* NOTE: ALL DOLLARS ARE IN THOUSANDS \*\*

## IX. COST (Continued)

### C. Common Facilities

A proposed plan for allocating the costs of common facilities between Units 1 and 2 has been developed. The plan is presently being reviewed by the NMPC Accounting Department. Once this plan has been finalized approved by Senior Management, and it will be presented to the Cotenants for their approval.

#### Contingency Management Program

The Contingency Management Program was instituted to identify all items that were not included in the April 1, 1984 Revised Estimate Baseline and therefore, must be funded from Contingency. The Contingency balance appropriated for the 4/1/84 estimate was \$205,000,000. To date, the Contingency balance has increased by \$4,930,079 for approved changes. However, as of November 19, 1984, there are pending CEPs which total approximately \$20.4 million. These pending CEPs are either approved preliminary packages or packages being reviewed by NMPC. Also, we have a potential contingency exposure for approximately \$16.4 million for CEPs not yet transmitted to NMPC.

Presently, the Engineering, Construction, and NMPC Budgets are being evaluated for the 1985 forecast, as well as potential contingency drawdowns. Next month's report will address the results of our latest budget and forecast reviews.

CONTINGENCY MANAGEMENT PROGRAM  
APPROVED CHANGES  
April 1, 1984 to November 19, 1984

<u>Item</u>	<u>Drawdown</u>	<u>Addition</u>	<u>Contingency Balance</u>
Balance 4/1/84			\$205,000,000
Increase to contingency based on the latest Project forecast (CEP in process)		13,991,441	
CEP 01049 (Pending CEP Revision)		1,056,202	
<u>APPROVED CEP's *</u>			
#01130            Approx. \$	186,000		
#01149	53,200		
#01153            Approx.	1,735,292		
#01160 Rev. 1    Approx.	683,500		
#01163	1,254,494		
#01164 Rev. 1    Approx.	500,000		
#01167	83,998		
#01168 Rev. 1	250,250		
#01171	4,243,480		
#01172	266,800		
#01178	91,900		
#01225	535,151		
#01226	224,089		
#01232	<u>9,410</u>		
	\$10,117,564	<u>\$15,047,643</u>	
NET CHANGE		\$+4,930,079	\$209,930,079

\* CEP #

Description

01130	AOD CHOC Review of NMPC Preoperational and Acceptance Test Procedures.
01149	Extraction of Cable Numbers from Test Loop Diagrams.
01153	PGCC/NSS Support-Revised Budget.
01160 Rev. 1	Technical Support Center.
01163	PGCC Separation
01164 Rev. 1	Temp. Site Assistance for Planning & Scheduling
01167	System 38 and Peripheral Equipment
01168 Rev. 1	Div. 19-Project Management Budget Revision
01225	Additional Personnel for SWEC QA/QC Organization
01226	IRs and N&Ds Cost increases
01232	Modify PMS software to add Drywell Temperature
01171	QA/QC, EA PQA - Budget Revision
01172	Data Base Accuracy for System 38 Activity Control System.
01178	Ductwork Qualification.

## A. Progress made during the last month:

1. Project Procedures PP-103, 104, 105, 106, 107, 108, 110, 111 regarding compliance to the NMP2 Records Management Plan have been submitted for final signature.
2. Indexing Conventions have been completed on the CBI/Graver Containment Liner Package. The package is currently available for review.
3. Program Implementation - Status
  1. ITT Grinnell - procedural changes are currently being reviewed. Records Requirements have been identified.
  2. JCI - procedure changes have been completed and are being reviewed by NMPC QA.
  3. Start-Up & Test - Comments have been provided on SAP's and a new SAP on Records Activities has been drafted.
  4. Walsh Construction - Records Management activities have been completed.
  5. Comstock - Records Management activities have been completed.
  6. FQC - Records Management has provided comments on QAD 17.1. Procedure presently being reviewed by NMPC QA.
  7. RCI - Procedure revisions have been reviewed by RCI - San Jose. Procedures will be reviewed by NMPC QA next.

## B. Major Activities in Progress:

1. Loading of the ID/Traceability Matrix items which have been through the review cycle are being loaded onto the Required Records List (RRL). This activity is approximately 40% complete.
2. Review of ITT Grinnell CAT II & III Hanger packages commenced on 11/15/84.
3. Review checklists and a Record Overview procedure are currently being developed in FQC.
4. Implementation of Records Management Plan within SWEC Document Control has begun. Procedural changes are scheduled for completion by 12/7/84.
5. Relocation of Records Management personnel to the Record Acceptance Center is currently in progress.
6. Information Services is currently developing the software for the tracking of Records Management Packages in support of Start-Up & Test. A preliminary printout of these packages is scheduled for completion by 11/21/84. Records Management Input and Statusing will commence by 11/26/84.

C. Record Turnover

The following are estimated percents complete of SWEC turnover of documentation to the NMPC Permanent Plant File.

Total Turnover of CHOC Documents 98% Complete

Total Turnover of SWEC Site Documents 13% Complete

Total Turnover of ALL SWEC Documents 25% Complete

The following are estimated percents complete of NMPC Syracuse Turnover of documentation to the Permanent Plant File.

Total Turnover of NMPC Syracuse Documents 87% Complete

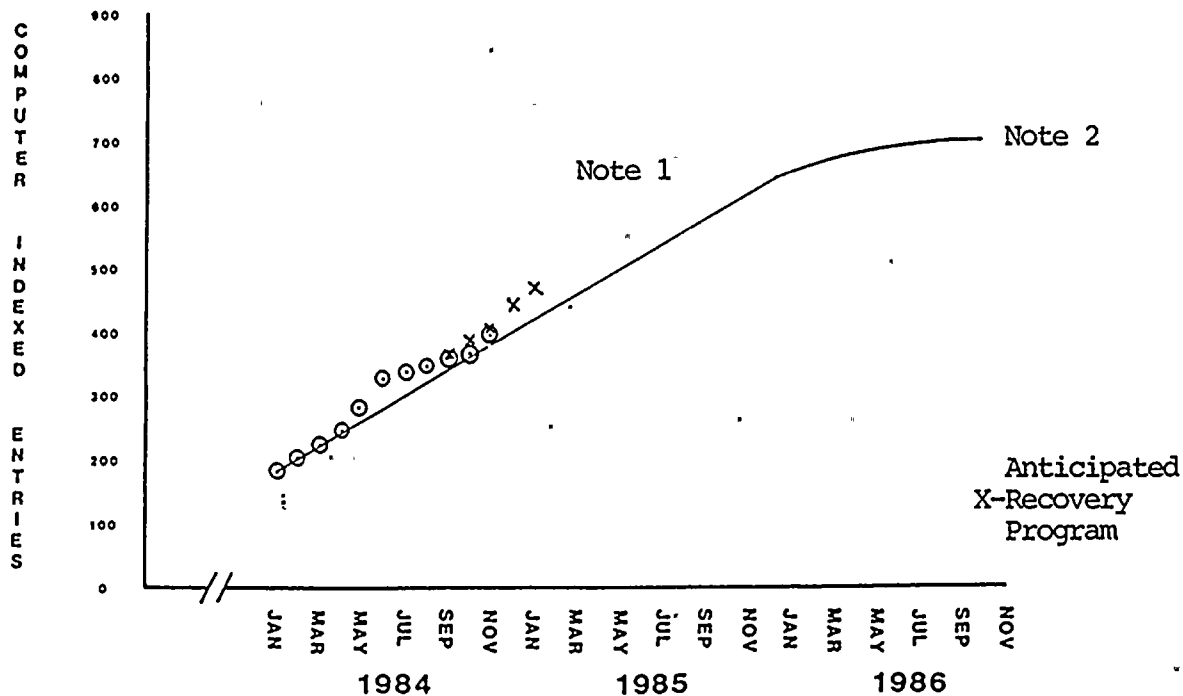
The total estimated percent complete of turnover documentation to the PPF 32% Complete.



NMP2 PERMANENT PLANT FILE  
COMPUTER INDEXED ENTRIES  
PLANNED VS. ACTUAL  
(IN THOUSANDS)

Note 1 - Fuel Load  
Note 2 - Commercial Operation

PLANNED ———  
ACTUAL ○



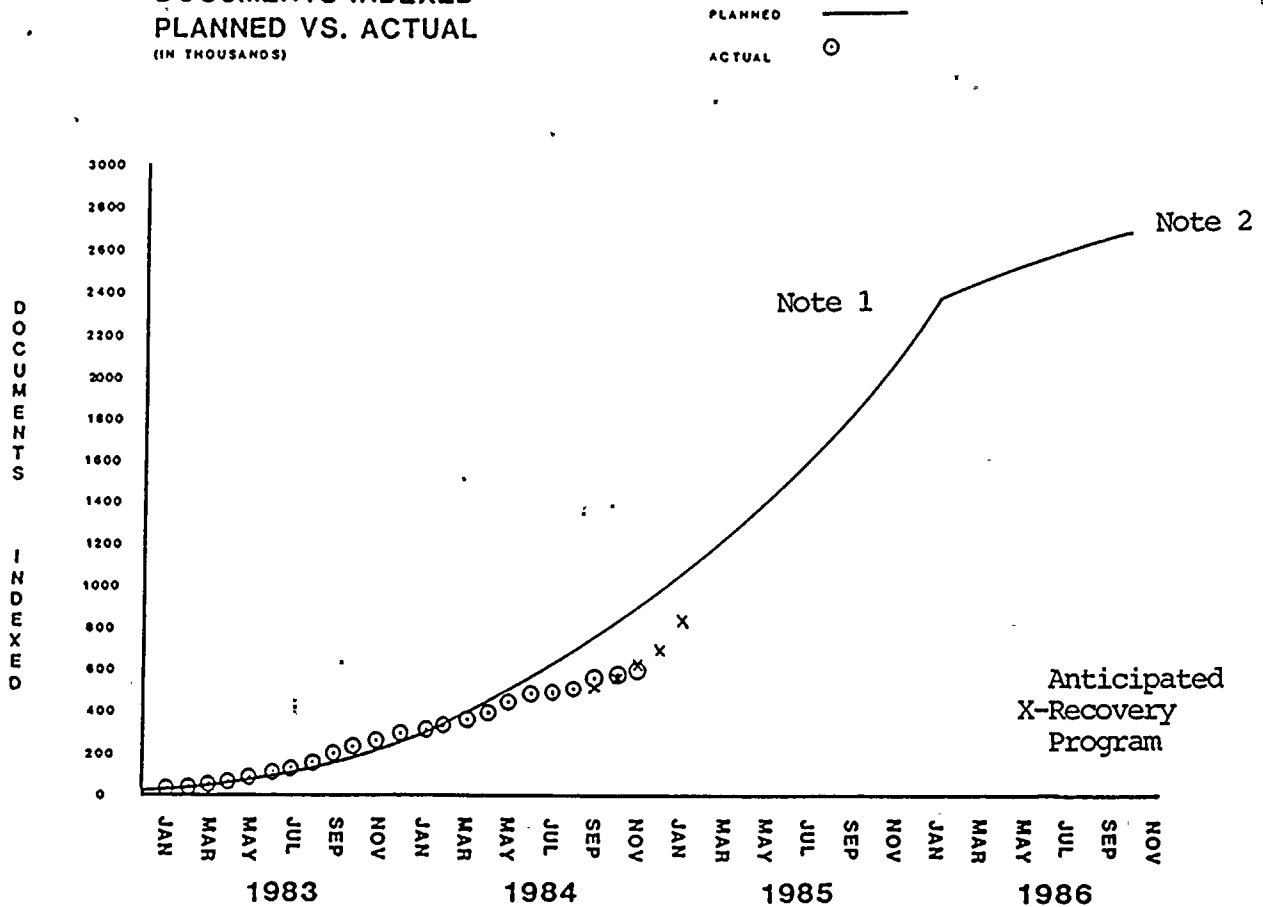
The following tables summarize the production levels of record receipt, preparation, filming and indexing into the Permanent Plant File.

Activity	November	October	Total to Date	Percent Complete
Record Receipt and Preparation (Includes Aperture Cards)	152,458 Pages	148,208 Pages	2,596,581 Pages	32%
Records Microfilming And Verification (Includes Aperture Cards)	136,952 Pages	134,642 Pages	2,211,779 Pages	27%
Computer Indexed Entries	10,530 Entries	9,937 Entries	386,240 Entries	59%
Records Indexing and Document Entry	10,872 Documents	32,696 Documents	596,158 Documents	24%

Percent complete is based on an estimated 2,400,000 documents comprising 8,000,000 pages and 650,000 computer index entries required for Permanent Plant File entry by fuel load.

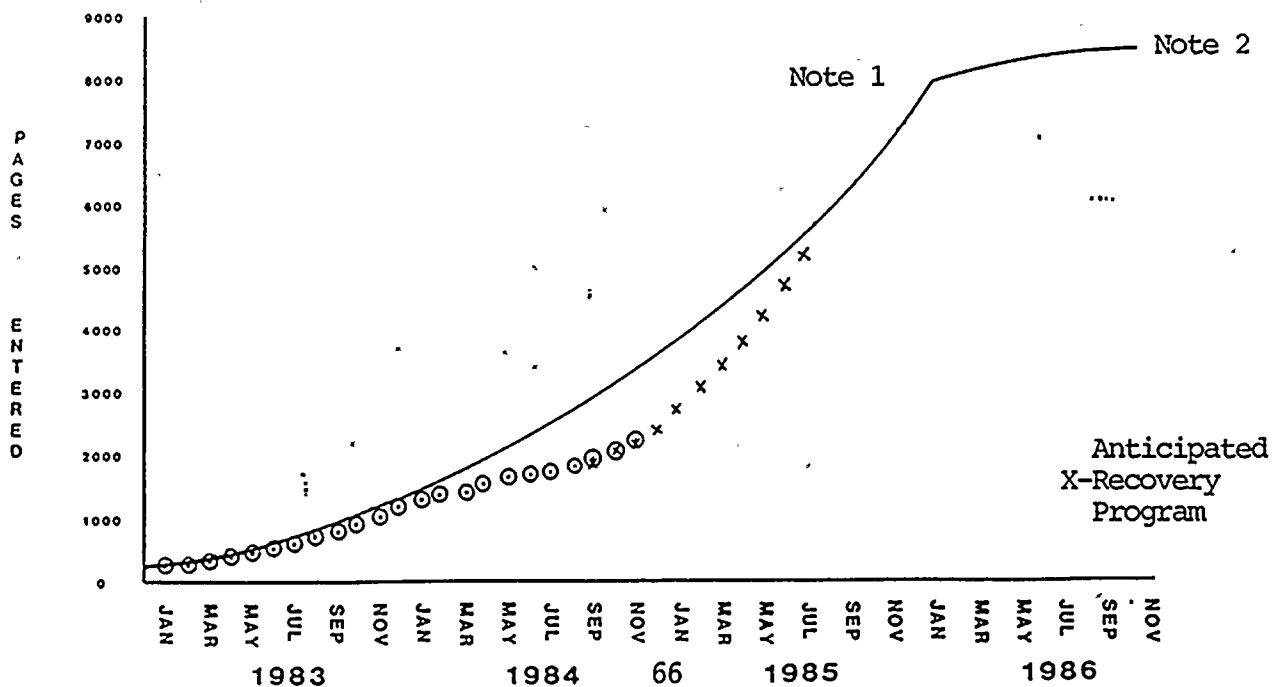
NMP2 PERMANENT PLANT FILE  
DOCUMENTS INDEXED  
PLANNED VS. ACTUAL  
(IN THOUSANDS)

Note 1 - Fuel Load  
Note 2 - Commercial Operation



NMP2 PERMANENT PLANT FILE  
PAGES ENTERED  
PLANNED VS. ACTUAL  
(IN THOUSANDS)

PLANNED —  
ACTUAL ○



## XI. LICENSING

### A. FSAR Status

A total of 850 questions relative to the FSAR and ER-OLS have been received from the NRC. For this period, 838 responses are complete, and ten of the 12 remaining open questions are confirmatory. Amendment 15 will be sent to the NRC November 21, 1984.

### B. Safety Evaluation Report (SER) Status

There are 233 SER open items and an additional 80 Power Systems SER items for a total of 313. We believe that 298 SER items are NMPC action complete.

### C. 50.55(e) Reports

Eight 50.55(e) Reports were sent to the NRC.

1. RCI Undersigned Welds (55(e)-84-29), Final Report.
2. Rosemont Transmitter Leakage (55(e)-84-44), Interim Report.
3. SAM Relay Timers (55(e)-84-27), Final Report.
4. QA on Bolted Connections (55(e)-84-28), Final Report.
5. QA on Cable Terminations (55(e)-84-45), Interim Report.
6. Operator Wiring on low Valves (55(e)-84-46), Interim Report.
7. Battery Charger Circuit Breaker (55(e)-84-30), Final Report.
8. HPCS Battery Termination (55(e)-84-47), Interim Report.

### D. 50.55(e)'s Identified

Six items were reported to the NRC as potential deficiencies under 10CFR50.55e.

1. Cable Separation in Free Air (55(e)-84-48)
2. ITT Min. Wall Requirement (55(e)-84-49)
3. Parker Min. Wall for Tubing (55(e)-84-50)
4. Non-blunt Stencils (55(e)-84-51)
5. G.E. Topaz Inverters (55(e)-84-52)
6. Documentation for Spare Parts (55(e)-84-53)

XI LICENSING (Cont'd)

E. Inspection Reports

Responses were submitted to violations identified in Inspection Report 84-13 (2 violations).

F. Advisory Committee on Reactor Safety (ACRS) (Meeting Preparation)

The first ACRS mock meeting was held November 5 and 6. The second mock meeting originally scheduled for November 28 and 29 has been cancelled due to a conflict with the Hope Creek ACRS subcommittee meeting. Several of the NMP2 presenters will be requested to attend the Hope Creek meeting. Another mock meeting will be scheduled at a later date..

STATUS OF RESPONSES TO BRANCH TECHNICAL QUESTIONS

<u>Technical Question Areas</u>	<u>NUMBER OF RESPONSES</u>			<u>SCHEDULE FOR RESPONSE COMPLETION</u>	
	<u>Questions Received</u>	<u>Completed</u>	<u>Outstanding</u>	<u>1984 Nov.</u>	<u>1985</u>
INSTRUMENT AND CONTROLS* 421 & DISCREPANCIES	85	85			
RADIOLOGIC 470, 471 EFFLUENT 460, 451, 810	62	59	3		3
PIPING 210 STRUCTURE/220 SEISMIC-230 GEOLOGY-231 HYDROLOGY-240 GEOTECH-241 STRUCTURAL AUDIT	168	166	2	1	1
EQUIPMENT QUAL. 270 271	13	10	3		3
QA 260	51	51			
FIRE PROTECTION 280	33	33			
POWER SYSTEM 430	118	117	1		1
CONTAINMENT REACTOR PHYSICS CORE PERFORM 480, 491, 492	67	67			
REACTOR SYSTEM 440	49	48	1		1
AUXILIARY SYSTEM 410	51	51			

STATUS OF RESPONSES TO BRANCH TECHNICAL QUESTIONS

<u>Technical Question Areas</u>	<u>NUMBER OF RESPONSES</u>			<u>SCHEDULE FOR RESPONSE COMPLETION</u>	
	<u>Questions Received</u>	<u>Completed</u>	<u>Outstanding</u>	<u>1984 Nov.</u>	<u>1985</u>
STARTUP & TEST 640	41	40	1		1
OTHER 100, 250, 251 252, 281, 311 450, 620, 630 730	61	60	1	1	
TOTALS	850	838	12	2	10