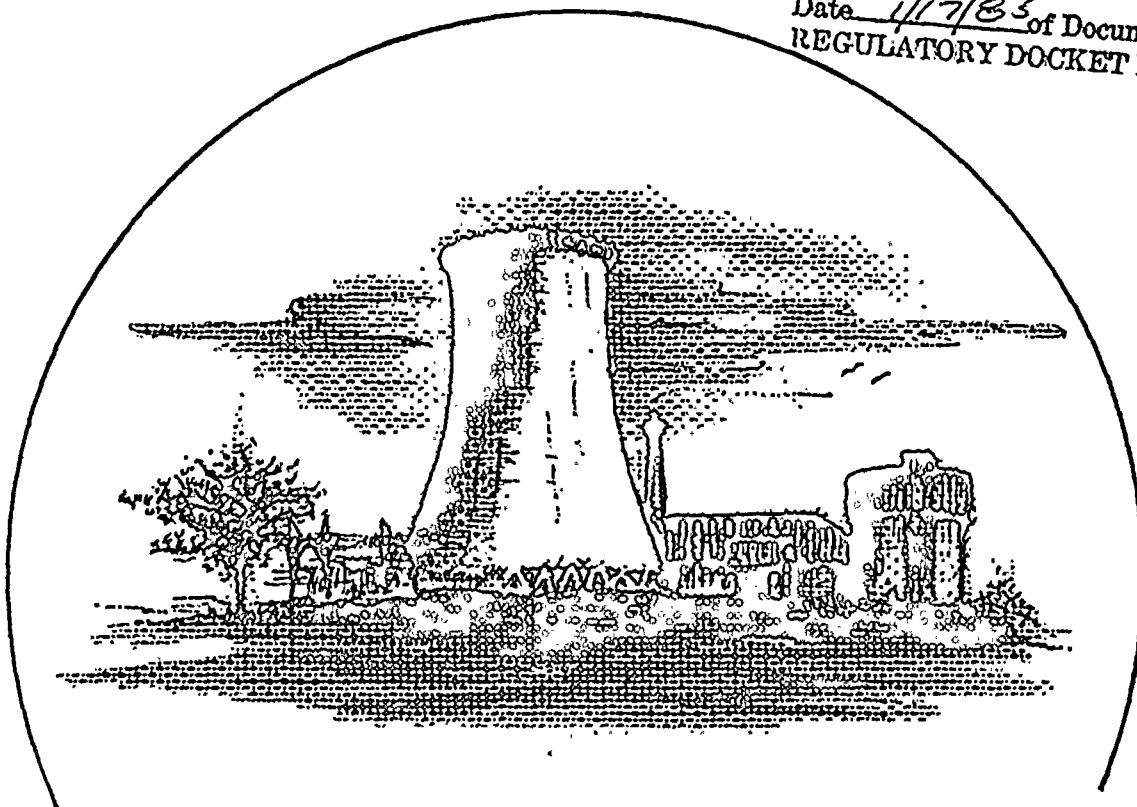


Project Report

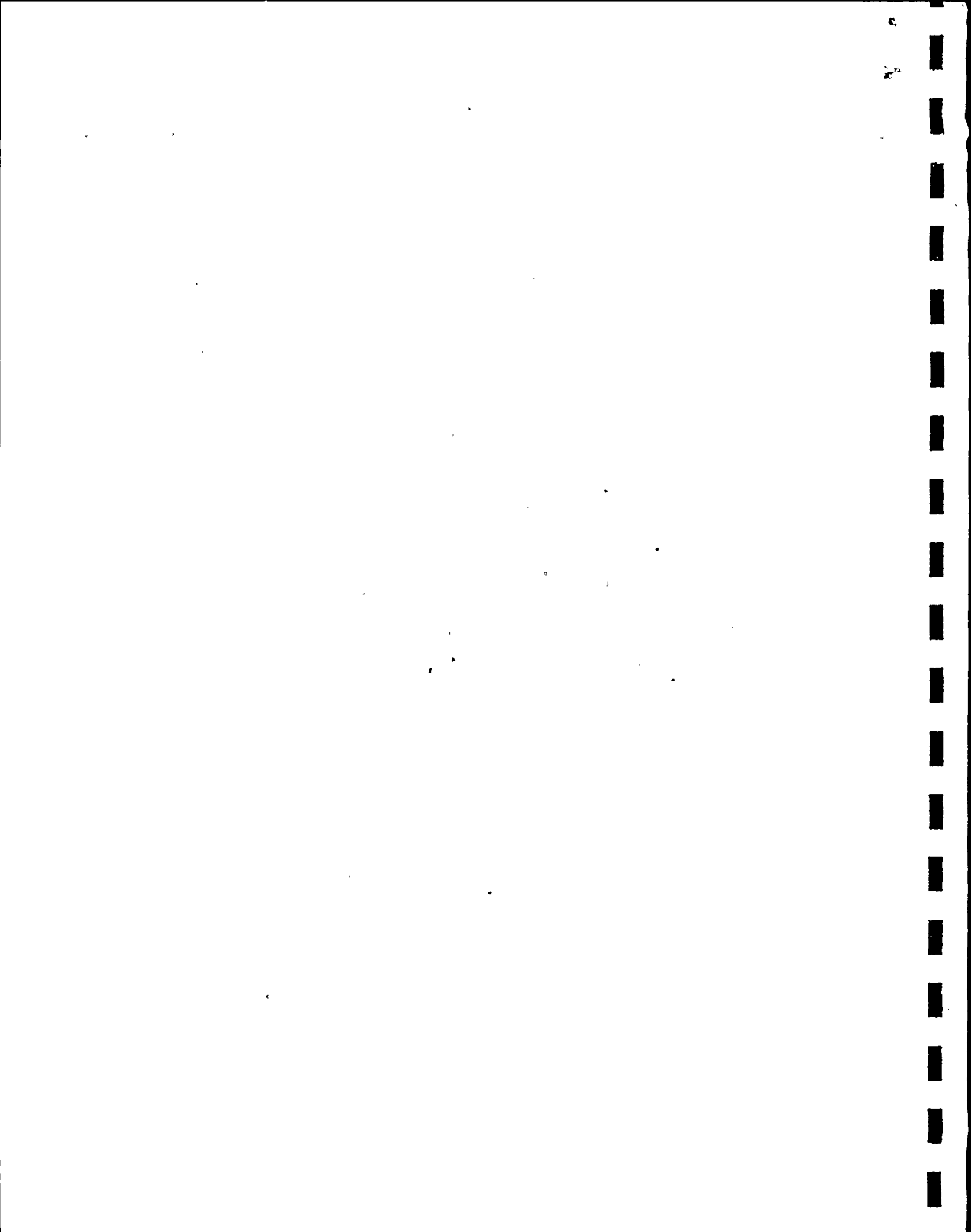
Docket # 50-410
Control # 8501250078
Date 1/17/85 of Document
REGULATORY DOCKET FILE



Nine Mile Point Unit 2

DEC 1984

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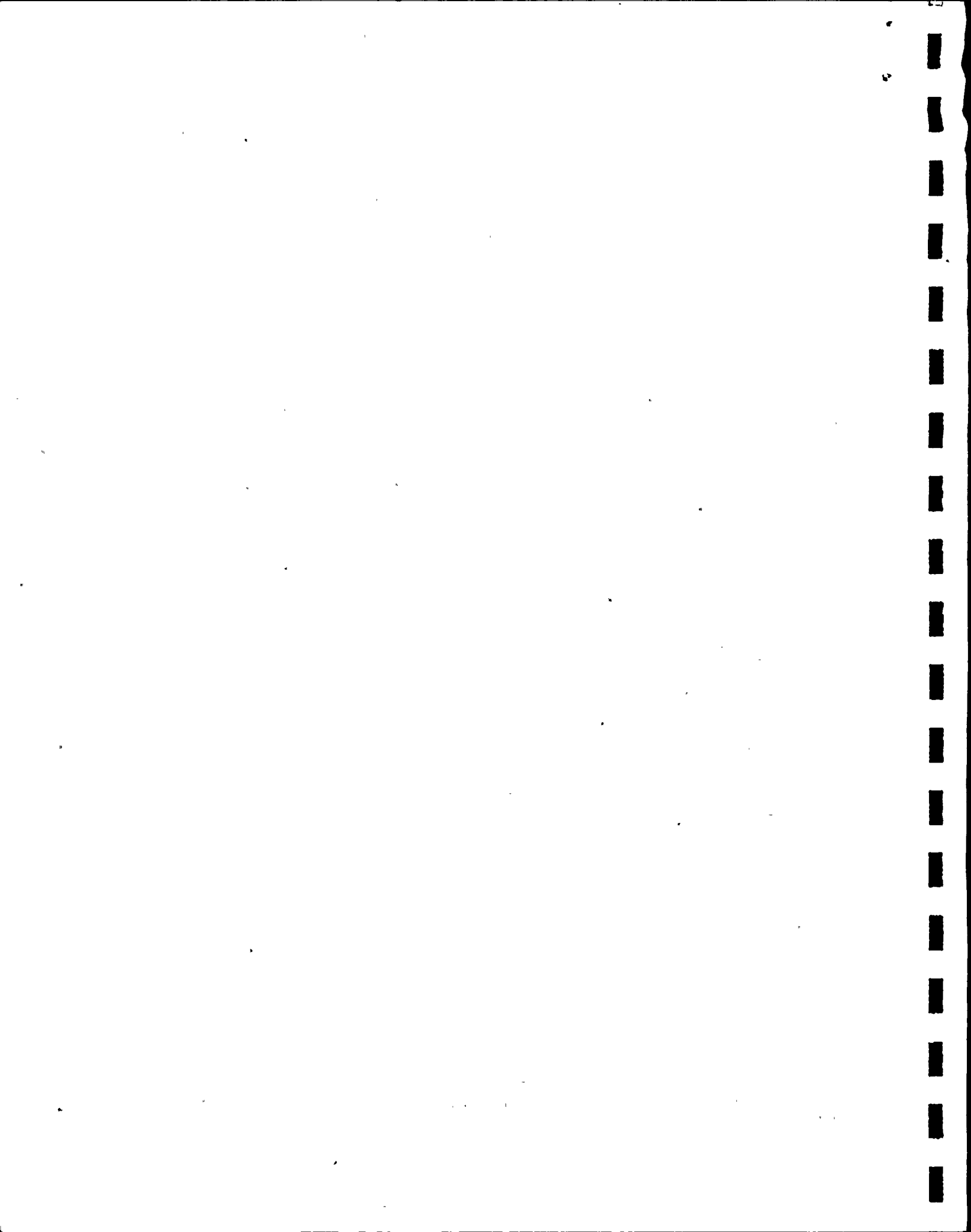


DECEMBER 1984

PROJECT REPORT

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I. EXECUTIVE SUMMARY

A. Project Director

The Project this period earned 0.8% to end 1984 at a cumulative 83.49 percent complete. The earning of 0.8% for this month against a planned percent complete of progress of 1.19% was disappointing. It should be recognized that this reporting period included Thanksgiving week and even though the Project anticipated some loss of production, the loss was more severe than expected. Anticipated construction turnovers to Preliminary Test did not materialize, and lack of testing progress contributed to this month's shortfall. The Project has established a "War Room" to be used as a focal point for rapid elimination of restraints which are holding up system completion and release.

The Project is estimating that the Integrated Flush/RPV Hydro Milestone is currently 2 - 3 weeks behind schedule. Due to the close coordination and cooperation between Construction and Startup and Test, required work activities are proceeding at a rate which provides encouragement that the start of the Integrated Systems Flush can still be accomplished on schedule.

Johnson Controls production improved significantly during December while L. K. Comstock's positive conduit and conduit support production continued. In general, SWEC force account work continues to support Project priorities. ITT Grinnell planned production fell below expectation. The shift from bulk construction to that work required to support the Startup and Test schedule intensified this month.

The Project awaits the INPO final report to be released in January 1985. The Project will be in position to respond to the INPO audit evaluation in a rapid and positive manner.

The NRC completed its Construction Team Inspection (CTI) on December 14th. Initial indications give cause to appraise the inspection as a positive indication of Project improvements since the CAT. The Project is currently awaiting the issuance by the NRC of the final inspection report.

Engineering demonstrated good progress in the Equipment Qualification, Design Verification and Licensing efforts. Continued engineering schedule adherence is anticipated.

The Project expended \$674.7 million of the \$675.0 million forecasted for 1984. A reevaluation of the required cash flow for 1985 is underway.

In general 1984 was a year of tremendous Project challenges: the Project moved from bulk construction to near term intensified support of the turnover process; the assignment of a new management team; and the development of corrective actions required by the CAT audit. It is satisfying that the actions taken in the area of quality including establishment of new programs such as the QPMP and Quality First Program appear to have been successful.

The Project realizes that the plan of 1985 is achievable but difficult. The Project Director believes the management team has the capability to drive the Project to this schedule as all Project resources are organized to support and sustain the Startup and Test program.

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 has been completed. The results are presently being evaluated by Engineering and QA.

The Independent Assessment Team has completed its review of completed CAT Action Plans, NRC deficiencies identified in the SALP Report, and NMPC/Contractor identified deficiencies. The final Report is expected to be issued in early 1985.

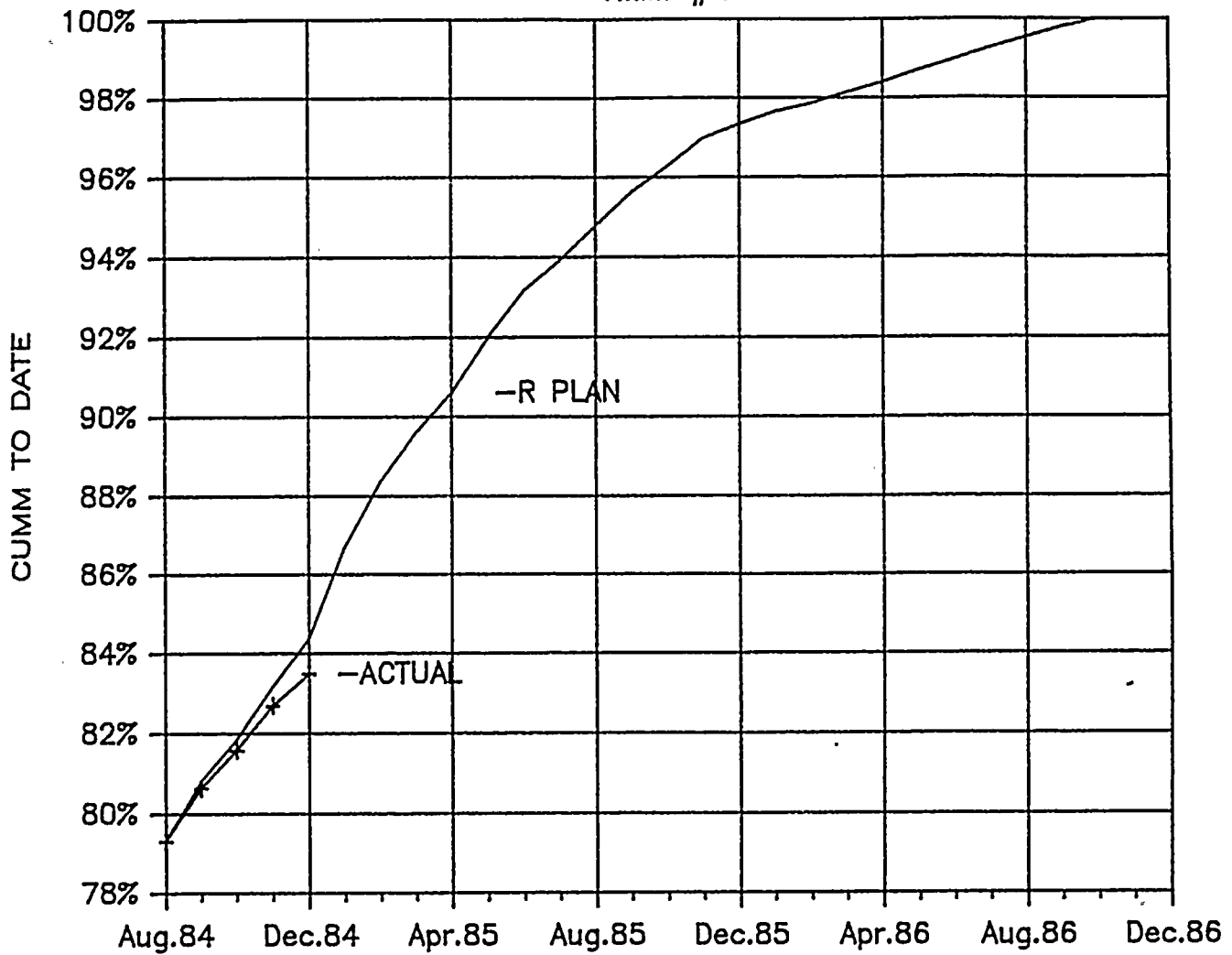
The NRC Construction Team Inspection was concluded on December 16, 1984. The Team Leader presented the preliminary finding at the exit meeting. Thirteen open items were identified with two preliminarily classified as violations. The potential violations relate to storage and maintenance and a welding deficiency in an instrument tube support. The final report is due in January or early February.

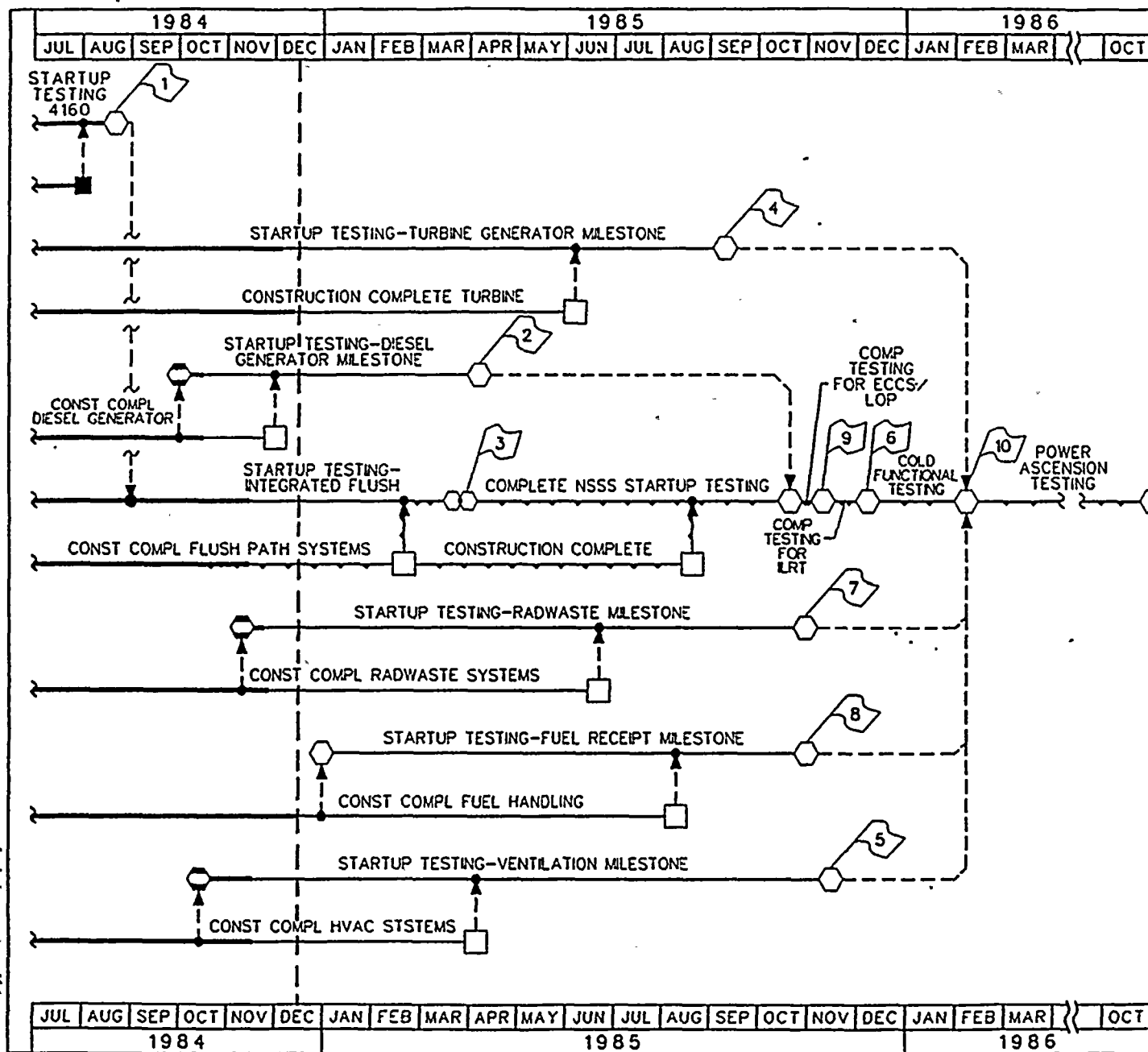
PROJECT PERCENT COMPLETE SUMMARY TABLE DEC 84 R2

DATE	PERCENT OF TOTAL PROJECT	ITEM PERCENT COMPLETE	ACTUAL PERCENT COMPLETE		PLANNED PERCENT COMPLETE	
			CUMM	INC	CUMM	INC
16-Dec-84						
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%	88.19%	15.07%	0.12%	15.32%	0.39%
4 T G\INT VAC PULL	3.50%	82.41%	2.88%	.00%	2.89%	0.01%
5 VENTILATION	3.95%	74.56%	2.95%	0.02%	2.95%	0.00%
6 INTEGRATED LEAK RATE	0.24%	56.97%	0.14%	0.00%	0.14%	0.00%
7 RADWASTE SYSTEM	1.34%	70.29%	0.94%	0.01%	0.93%	0.00%
8 FUEL RECEIPT	0.75%	58.25%	0.44%	.00%	0.44%	0.00%
9 LOSS OF POWER/ECCS	3.01%	71.16%	2.14%	0.01%	2.15%	0.00%
10 FUEL LOAD	2.50%	66.68%	1.67%	0.01%	1.64%	0.01%
11 FUEL LOAD TO C.O.	0.50%	0.00%	0.00%	0.00%	0.00%	0.00%
SUBTOTAL	36.00%	80.94%	29.14%	0.17%	29.44%	0.41%
II. CONSTRUCTION COMM.						
1 PIPING	10.45%	93.79%	9.80%	0.11%	9.80%	0.10%
2 ELECTRICAL	7.63%	86.11%	6.57%	0.12%	6.59%	0.14%
3 I & C	0.99%	71.36%	0.71%	0.05%	0.70%	0.04%
4 HVAC	0.83%	90.68%	0.75%	0.01%	0.75%	0.01%
5 CIVIL	13.10%	100.00%	13.10%	0.00%	13.10%	0.00%
SUBTOTAL	33.00%	93.73%	30.93%	0.29%	30.94%	0.29%
III. STARTUP & TEST COMM.						
	5.00%	12.00%	0.60%	0.03%	1.00%	0.17%
IV. ENGINEERING						
1 DESIGN VERIFICATION	0.54%	53.33%	0.29%	0.03%	0.33%	0.03%
2 EQUIP. QUALIFICATION	0.25%	86.80%	0.22%	0.01%	0.23%	0.01%
3 LICENSING	0.56%	84.11%	0.47%	0.01%	0.48%	0.01%
4 SUPPORT OF STARTUP	0.38%	77.37%	0.29%	.00%	0.31%	0.01%
5 BAL OF ENGINEERING	18.27%	96.39%	17.61%	0.11%	17.83%	0.12%
SUBTOTAL	20.00%	94.40%	18.88%	0.16%	19.18%	0.18%
V. QUALITY ASSURANCE						
	5.00%	72.28%	3.61%	0.13%	3.41%	0.12%
VI. RECORDS TURNOVER TO PPF						
	1.00%	33.00%	0.33%	0.01%	0.40%	0.02%
TOTAL	100.00%	----	83.49%	0.80%	84.37%	1.19%

PROJECT PERCENT COMPLETE

N.M.P.#2





MILESTONE	SCHEDULED COMPLETION
1) 4160 V ENERGIZATION	21 AUG 84
2) DIESEL GENERATORS	6 APR 85
3) INTEGRATED FLUSH/RPV HYDRO	11 MAR 85 1 APR 85
4) TURBINE GENERATOR VACUUM PULL	12 SEP 85
5) VENTILATION	14 NOV 85
6) INTEGRATED LEAK RATE TEST	6 DEC 85
7) RADWASTE SYSTEM	20 OCT 85
8) FUEL RECEIPT AND TRANSFER	7 NOV 85
9) LOSS OF POWER/ECCS	8 NOV 85
10) FUEL LOAD	24 FEB 86
11) FUEL LOAD TO C.O.	1 OCT 86

LEGEND

- PRELIMINARY TESTING
- CONSTRUCTION
- CRITICAL PATH

STATUS AS OF DEC 17, 1984

MILESTONE SUMMARY SCHEDULE
 NIAGARA MOHAWK POWER CORPORATION
 STONE & WEBSTER ENGINEERING CORP.
 J.O. 12187

REVISIONS

2	1	ORIGINAL
		15 OCT 84

II. MILESTONE SCHEDULE STATUS

Project Controls is currently developing a computerized (Project/2) Project Schedule consisting of all the Project Milestone Schedules, and it will depict their interrelationships. This will enable the Project to assess more easily a potential impact on the overall project caused by any current deviation from the schedule.

A. Energization 4160V

The 4160V milestone is essentially complete with the exception of the High Pressure Core Spray (HPCS) related switchgear. This switchgear is scheduled to be energized the first week in January 1985. Testing of other electrical distribution is being prioritized and energized to support the Startup & Test program.

B. Diesel Generators

Release of the Standby Diesel Generator #1 and associated systems in the West Bay is well under way. HVAC, fire detection and protection have been released to Startup & Test. The breaker portion and air start systems are in the turnover signoff process. The fuel portion has minimal instrumentation and electrical remaining and is estimated to turnover on 12/26. The Middle Bay (Standby Diesel #3) has approximately 3 weeks of work remaining. The completion of the air gap setting restrains Large Bore Pipe and instrumentation completion and has a estimated completion date of 1/2/85. With respect to the High Pressure Core Spray Diesel Generator, the primary emphasis has been placed on Diesel Generators 1 & 3, where outstanding electrical modifications are being completed. There are approximately eight weeks of work remaining with an estimated completion date of February 28th.

C. Integrated Flush/RPV Hydro

Startup & Test is prioritizing work with Construction to expedite the release of systems to support the Integrated Flush/RPV Hydro effort. The work scope of RPV Hydro has been identified to Construction and an integrated Project Plan has been developed and distributed for use. The integrated Flush milestone is 2-3 weeks behind schedule due to late Construction releases although the February 25, 1985, date for the start of the Integrated Systems Flush is still achievable. Fourteen (14) additional flush paths ("B" releases) were turned over in December.

1.001A Main Steam System

This flush path currently is showing 8 weeks negative. A work around plan is being studied, source documents are being verified, and a walkdown is being done.

31.001A Residual Heat Removal System

Projected completion for the entire flush path is currently 1/20/85; however, the completion of work required for the suppression pool fill will support the schedule. The completion of this flush path will support integrated flush.

D. Turbine Generator

The completion of the General Electric Turbine Generator work has been integrated into the Startup Plan and is being closely monitored by General Electric, Construction, and Startup & Test. The Turbine Generator Milestone remains on schedule. All of the 7 releases scheduled to date have been accomplished. The lube oil flush was completed during December, and G.E. is restoring the system to enable centerline completion.

III. CONSTRUCTION

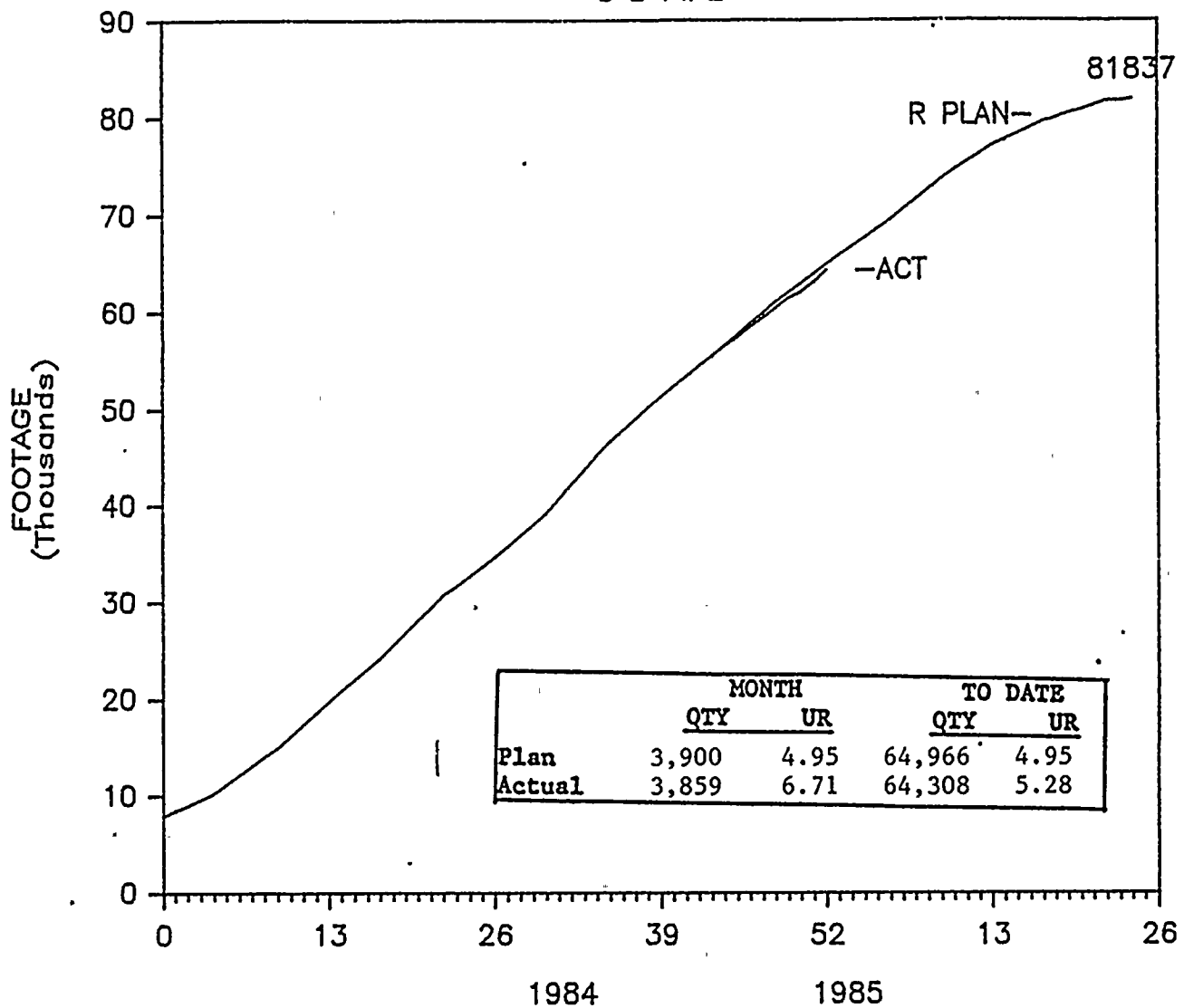
A. General

During December, efforts focused upon completion of construction work for the suppression pool fill along with work required to release the Emergency Core Cooling Systems for initial testing.

Significant craft manpower continued to be directed toward near term system releases. In a number of areas, non-manual support became a limiting factor in work completion. The "War Room" was established to provide a focal point for identification and elimination of restraints which are holding up system completion and release. Integration of contractor and SWEC engineering was initiated to provide better support to field efforts.

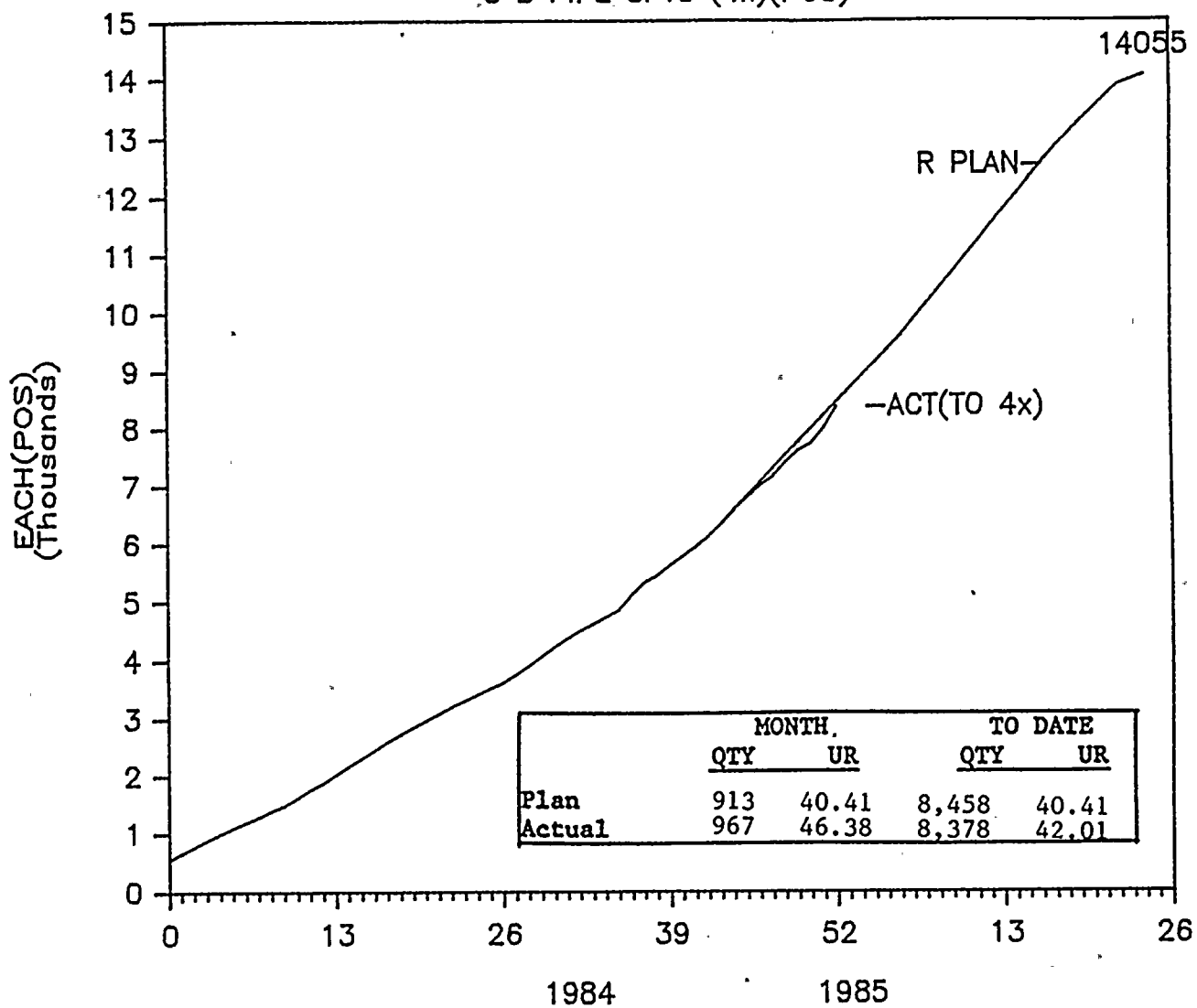
SWEC PLAN VS ACT

S B PIPE



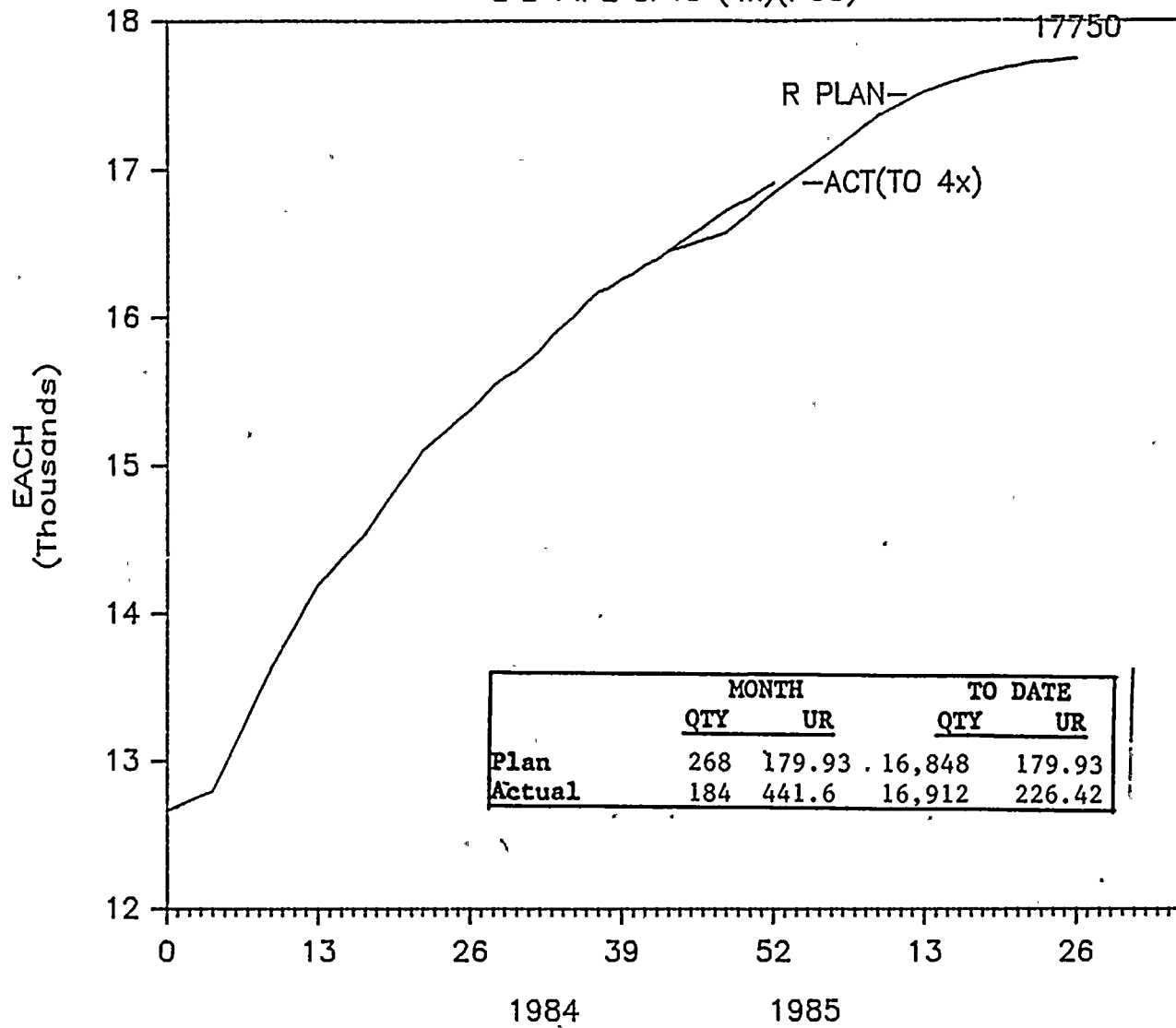
SWEC PLAN VS ACT

S B PIPE SPTS (4x)(POS)



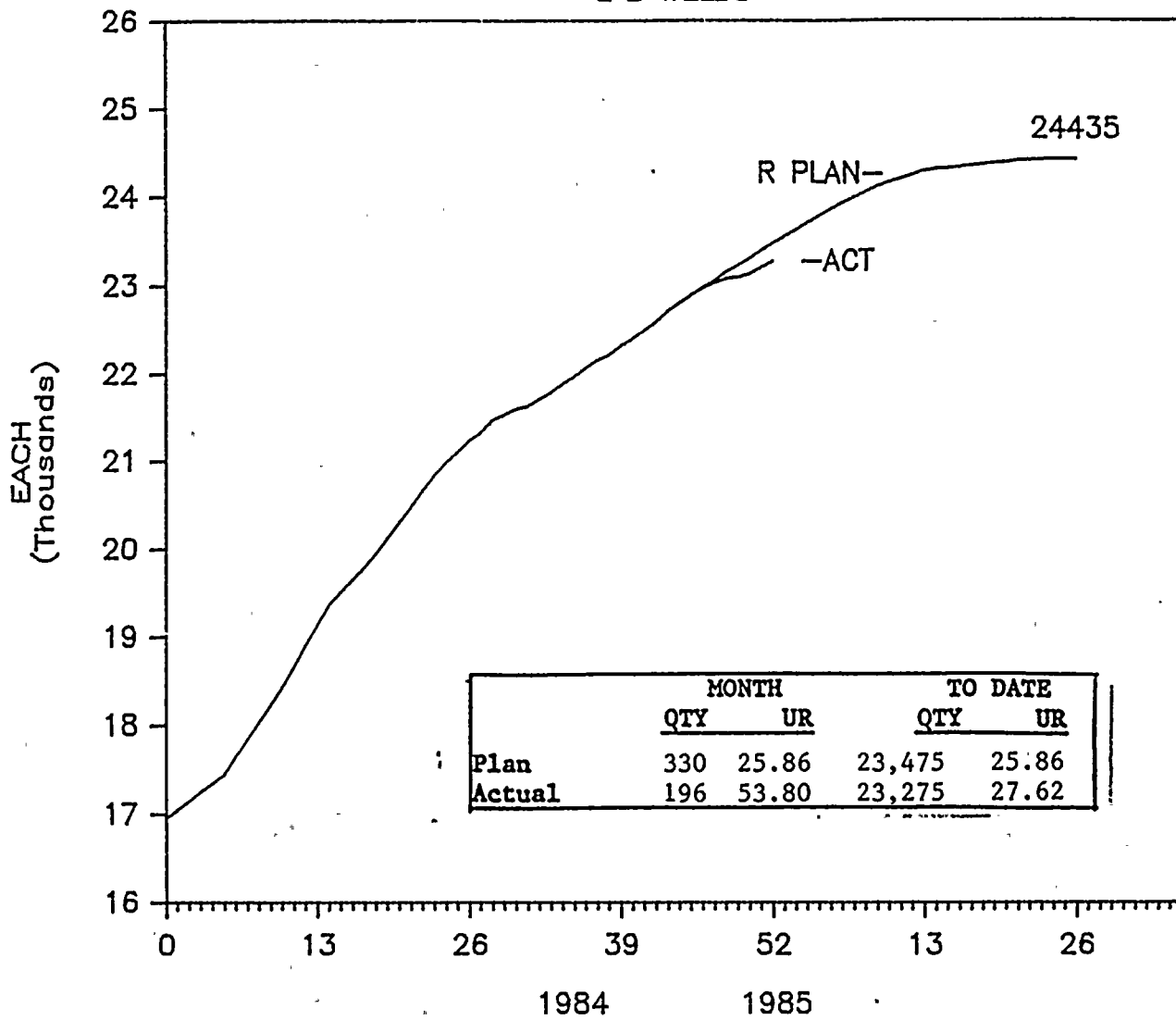
ITT PLAN VS ACT

L B PIPE SPTS (4x)(POS)



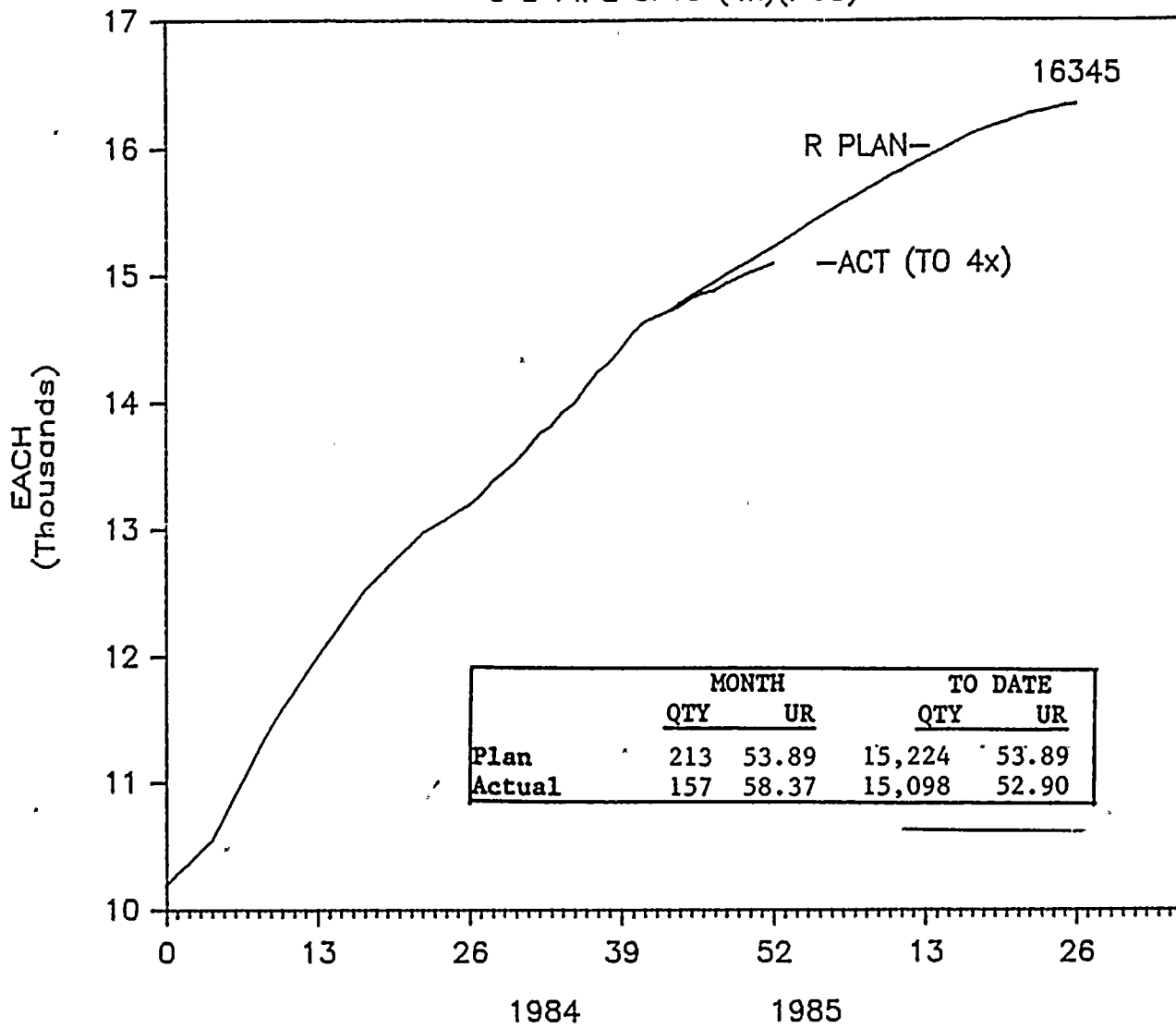
ITT PLAN VS. ACT

L B WELDS



ITT PLAN VS ACT

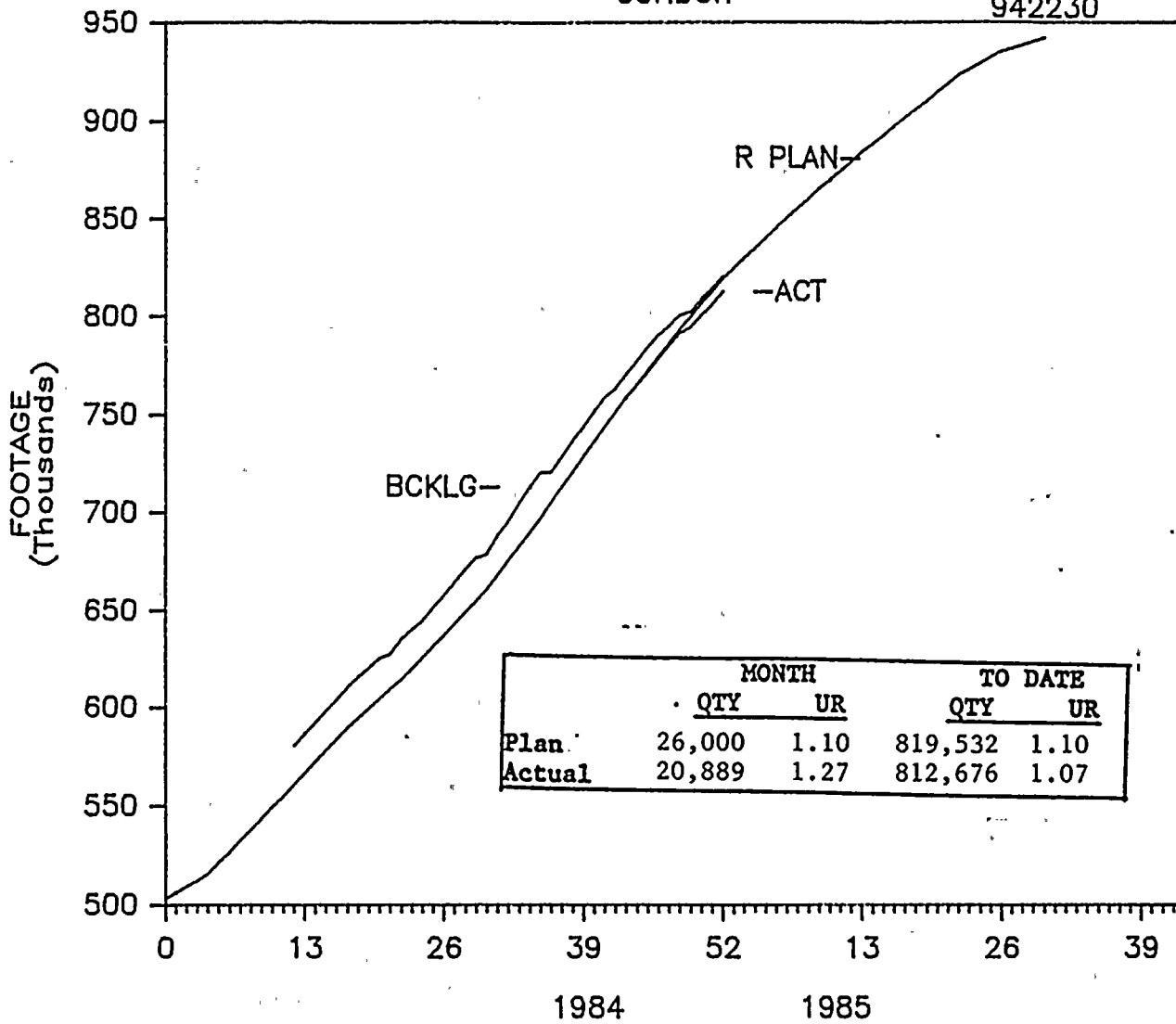
S B PIPE SPTS (4x)(POS)



LKC PLAN VS ACT

CONDUIT

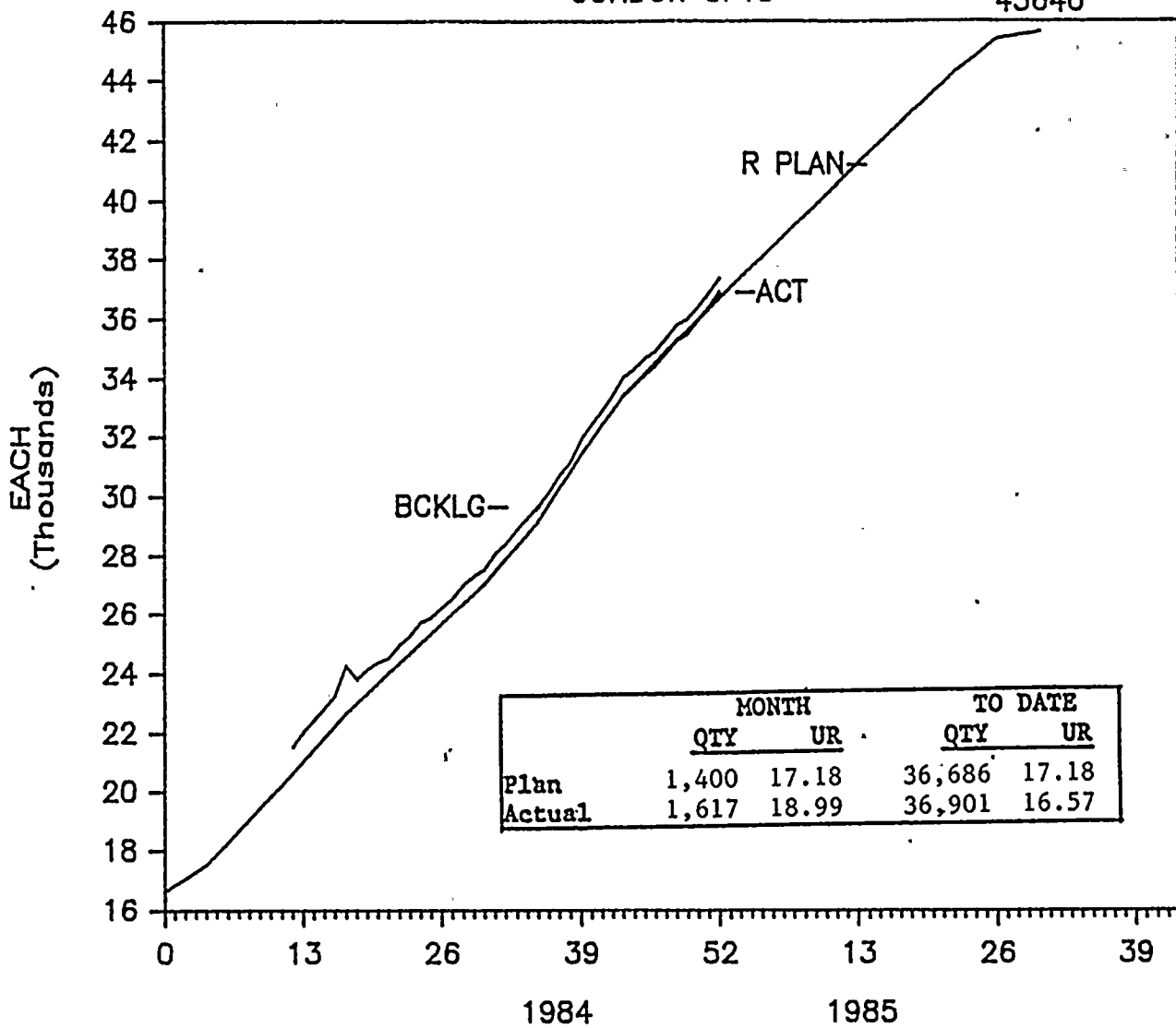
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LKC PLAN VS ACT

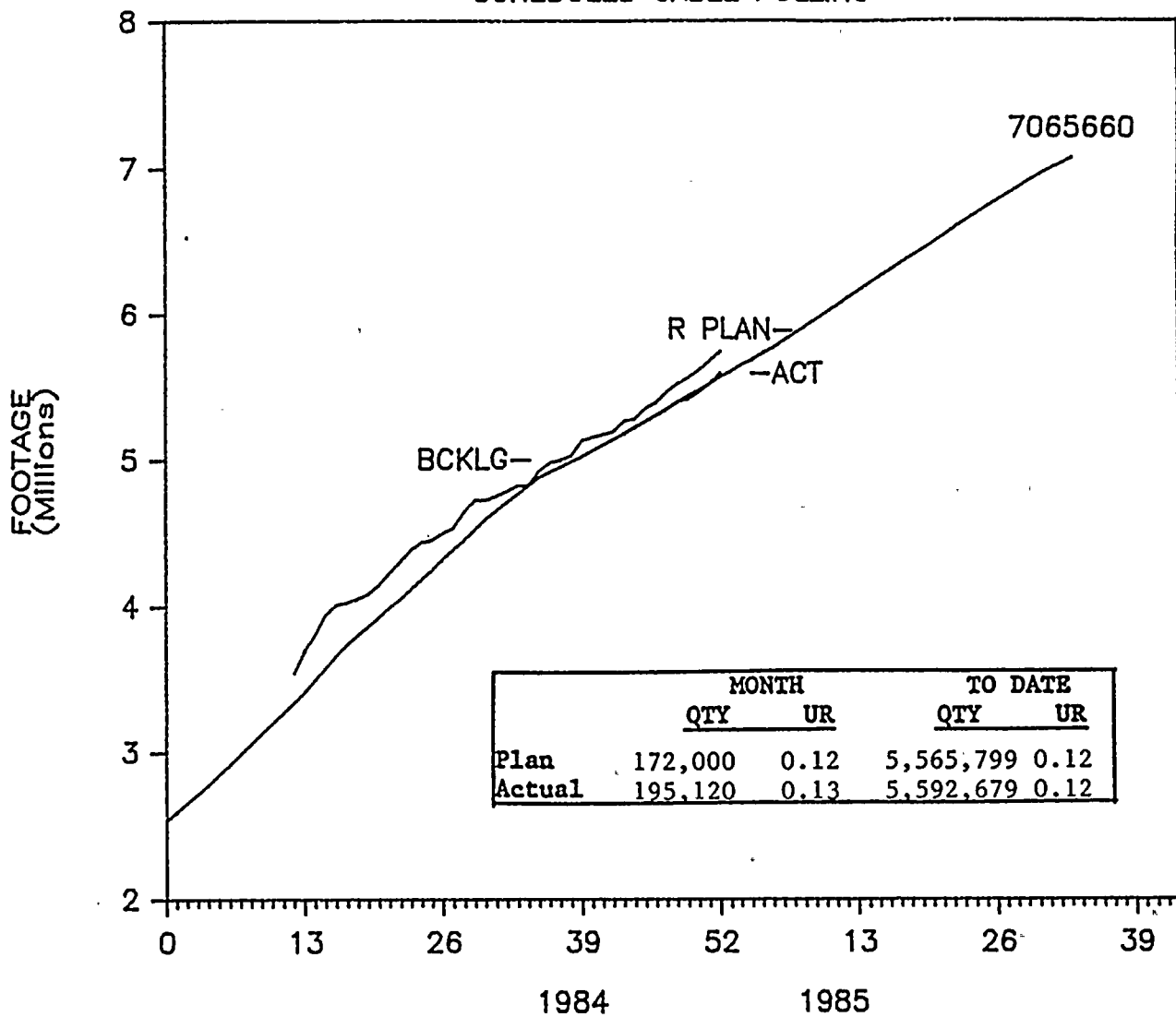
CONDUIT SPTS

45640



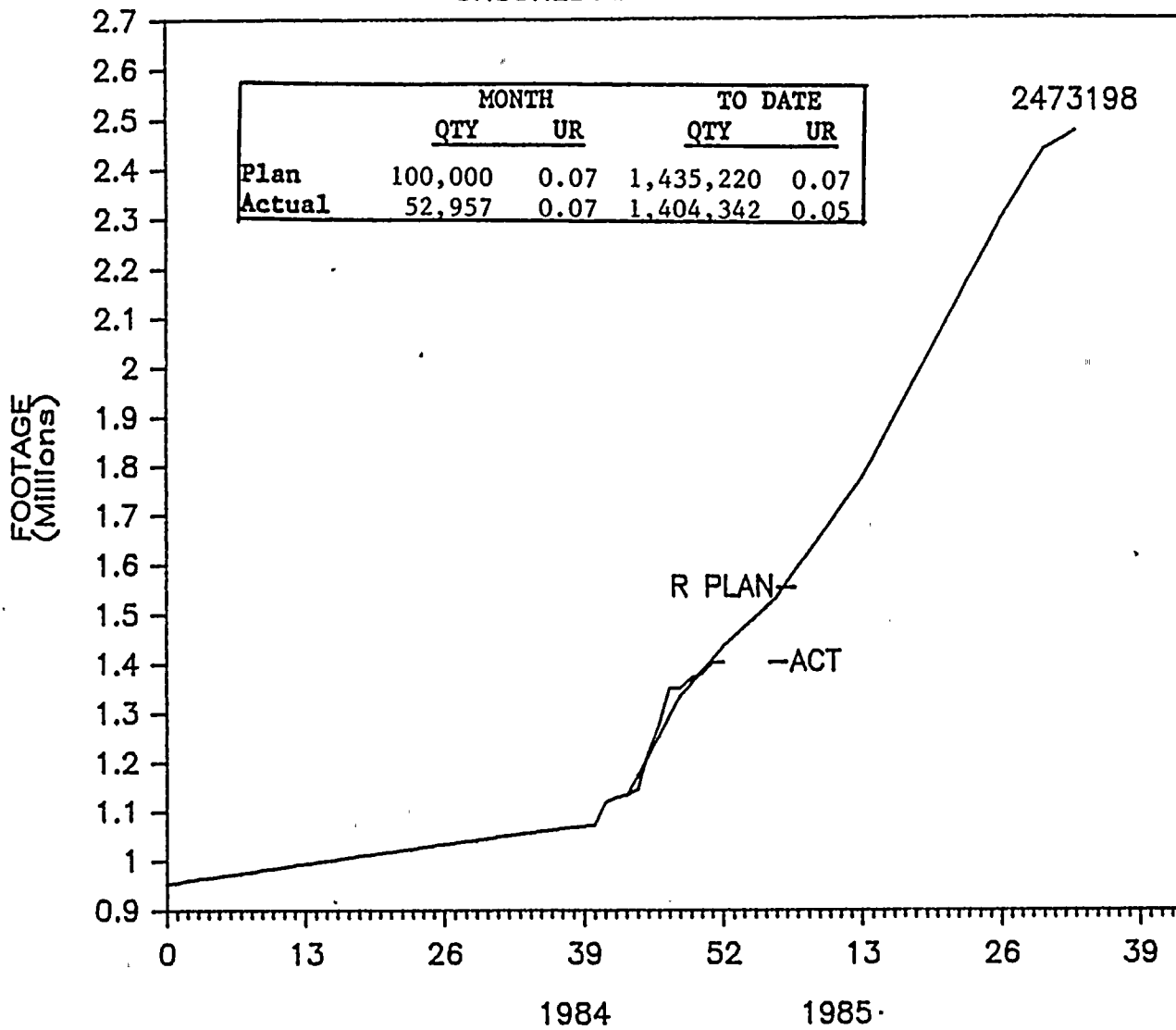
LKC PLAN VS ACT

SCHEDULED CABLE PULLING



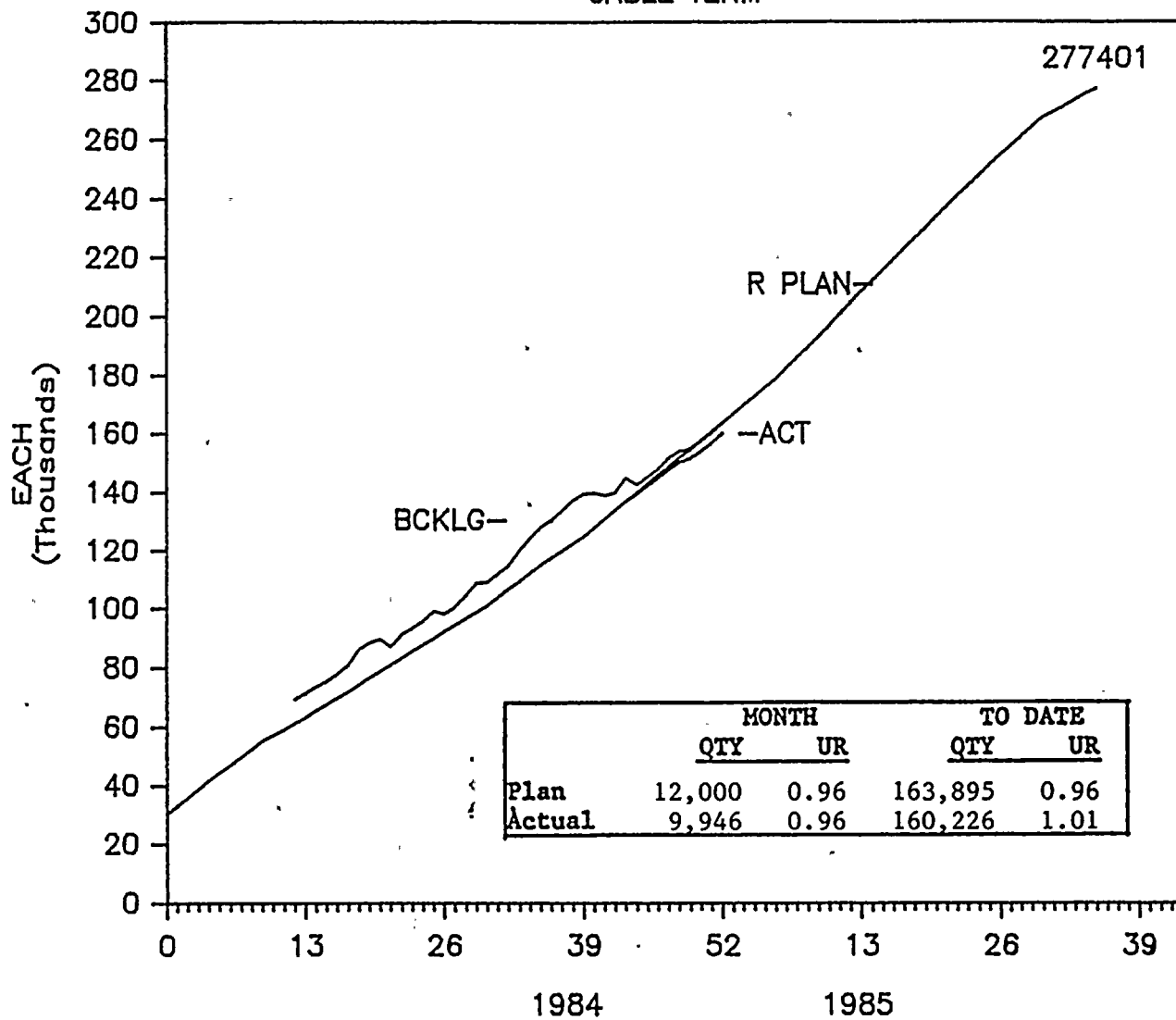
LKC. PLAN VS ACT

UNSCHEDULED CABLE PULLING



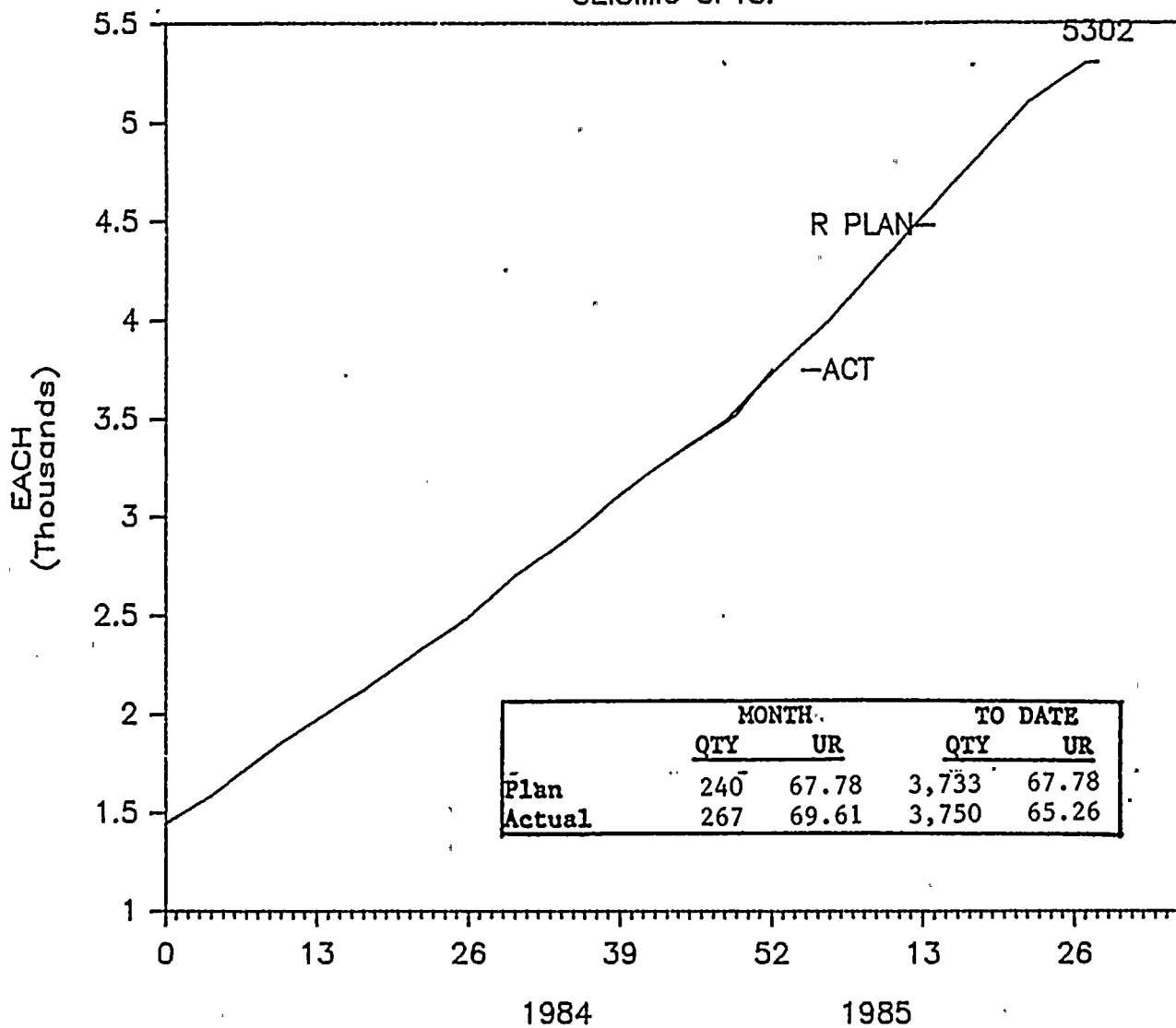
LKC PLAN VS ACT

CABLE TERM



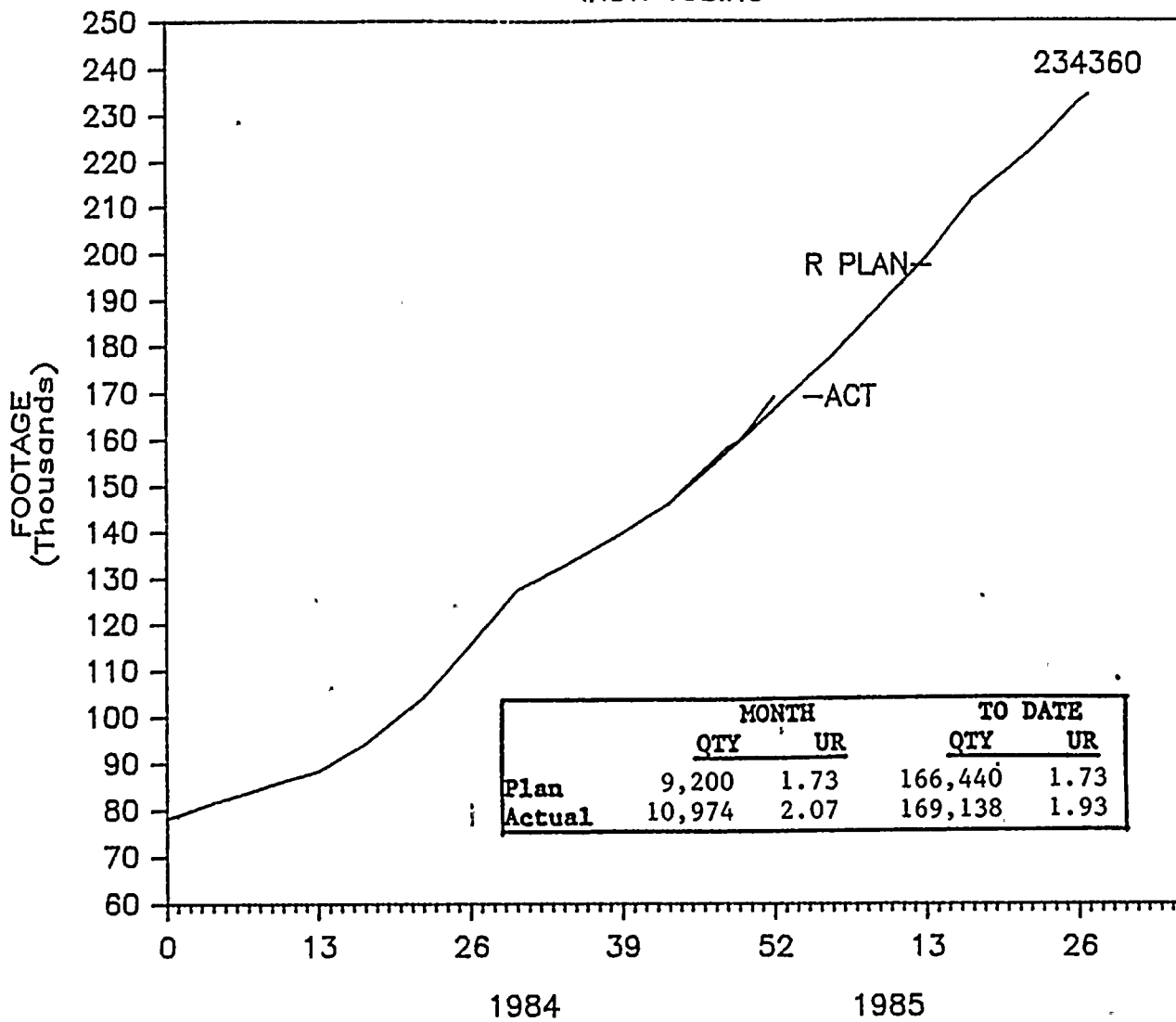
JCI PLAN VS ACT

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. Small bore pipe and small bore hangers and equipment completion continued to proceed with near term releases requiring a large proportion of available manpower.

Mechanical Equipment Erection

A limited amount of equipment remains to be installed. Major efforts for the period focused upon final alignment of critical pumps.

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. Improvement was noted on small bore hanger production due to the shift of forces from CAT II & III Large Bore Hanger Completion.

Preventative Maintenance

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

Painting

SWEC continued to perform painting under Force Account on an interim basis. A final decision for this contract has not been made.

2. ITT Grinnell

During December, work proceeded below planned production levels. Delays were experienced on system release due to problems with root valve planner packages. This problem has now been resolved.

3. L. K. Comstock

L. K. Comstock's positive conduit and conduit support production continued. Pulling of unscheduled cable diminished as security duct banks neared completion while scheduled cable pulls increased. Unit rates increased slightly during the period.

Cable termination remained below target, although the current production rate satisfies Project requirements.

III CONSTRUCTION (Continued)

Increased requirements in system completion shifted a significant portion of L.K. Comstocks labor toward near term work. During December, added emphasis was also required in the Primary Containment. Unit rate performance was impacted by these changes.

4. GE-PGCC

Separation rework was completed in December 1984. 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; however, the program does support Startup & Test requirements.

5. Johnson Controls

Johnson Controls production improved significantly during December.

A number of steps have been taken to further improve JCI efforts. These include integration of SWEC and JCI field engineering forces, increased use of compression fitting on CAT II seismic installation and approval for JCI to install root valves previously included in ITT Grinnell scope.

6. Schneider Power Corporation

Additional focus continued on the Primary Containment HVAC installations with a second shift implemented. A major push was made during December to complete the HVAC above the refueling floor in the Secondary Containment.

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

Walsh began demobilization. Effective 12/17/84, all direct work was transferred to SWEC for completion.

10. Grinnell Fire Protection

Work continued in the Reactor Building and yard areas on Water spray and CO₂ systems. No major problems during the period.

III CONSTRUCTION (Continued)

C. Construction Completion

During December, a number of changes in the turnover process were made. A new construction procedure governing construction requirements during the turnover/release process was generated to comply with Startup & Test requirements established in their procedures (SAPs). In addition, the "War Room" was established to provide added focus to critical work and restraints.

IV. ENGINEERING

Design verification and licensing proceeded on schedule this month.

Significant progress has also been made in the equipment qualification effort.

A number of activities in the balance of Engineering and support of start-up areas improved; however, total schedule recovery has not yet been achieved.

A. DESIGN VERIFICATION

1. As-Built Stress Reconciliation

Engineering efforts are on schedule with 45 packages scheduled and completed. This effort has encompassed 338 pipe support reconciliations requiring 3 modifications and 6 new supports. Reanalysis to minimize hardware impacts has eliminated 27 potential modifications.

A detailed schedule for as-built package submittals, consistent with the integrated flush schedule, has been developed by Construction Planning. A corresponding Engineering Work Plan was issued on December 21, 1984, and will be incorporated into the January 1985 Report.

As indicated on the schedule (Attachment 1), the receipt of AX as-builts is slightly behind the workaround plan with 135 packages being submitted as of November 30, 1984. However, since the remaining 10 were received on December 7, 1984, no impact to the Engineering Work Plan is anticipated.

IV Engineering (Continued)

2. Final Structural Load Verification

Load verification activities for the entire Control Building framing, connections and embedment plates have now been completed with no modifications required.

Main efforts have been concentrated on Primary Containment steel framing, liner and Control Building frame steel. The hardware fixes required in the Primary Containment are significantly less than originally anticipated. In order to minimize modifications, reanalysis was performed on the steel framing for Elev. 222 and 247 and has reduced the number of fixes required from 78 to 22. As a result of this effort, 49 calculations have been completed compared to 52 scheduled (Attachment 2). Three activities fell behind schedule because of the reiterations which were done to minimize hardware fixes are Primary Containment Elev. 278 beam design, and Primary Containment Elev. 261 beam design, and connection design. These three activities should be completed by the end of December.

B. Equipment Qualification

This effort remains behind schedule primarily due to delayed vendor document submittals.

A summary of equipment scheduled for qualification vs completed qualification is attached. Attachment 3 provides status of SWEC equipment requiring qualification. As indicated, this activity is approximately 1 month behind schedule but recovering. Attachment 4 shows the status of GE-NSSS equipment requiring qualification as originally scheduled and with a recovery schedule. The recovery schedule indicates essentially complete recovery by the end of March, 1985.

Increased engineering efforts supported by extensive expediting of vendors is leading to a satisfactory recovery, clearly supportive of the requirement to be 85% complete by April 1985.

C. Support of Start-Up

1. Spare Parts

The issuance of purchase orders for spare parts is approximately 5 weeks behind schedule. The effort is behind schedule due to a manpower shortage. Additional engineers are currently being added to the spare parts group. It is currently anticipated that with the manpower being added in January and the usage of overtime, the schedule will be recovered by March 30, 1985.

2. Pre-op Test Procedure Submittals

To date, SWEC Engineering has reviewed all but two procedures that have been submitted. This effort has been rescheduled to coincide with the latest start-up schedule. Although ahead of schedule on a quantitative basis, the issuance of NMPC drafts is sixteen weeks behind schedule.

D. Set Points

The scheduled number of systems to be issued for December 1, 1984, was 160; 147 systems were completed. The remaining effort primarily includes cleaning up documentation and verifying existing calculations. The set point information is currently available and will be provided to Start-Up personnel via Set Point data sheets, specifications, etc.

The final documentation/calculations will be completed by March 31, 1985.

E. P&ID's

21 of 28 scheduled P&ID's have been issued as of November 31, 1984. An additional P&ID was issued ahead of the specific schedule. All 28 of the systems scheduled through November will be issued by January 1.

F. ECN Incorporation

ECN's are incorporated into the original FSK's, LSK's and ESK's approximately 4 weeks before the turnover dates. Significant progress has been made to issue these documents to support the previous turnover schedule; however, as a result of the new turnover schedule, several pre-op dates have changed and engineering will revise its schedule accordingly.

Of the 6 specific FSK systems that were scheduled to be issued by November 31, 1984, 5 were issued. Of the 10 LSK/ESK systems, 9 were completed. The one delinquent system was in signout at the time of this report.

Additionally, 63 FSK systems were recently updated in accordance with the previous turnover schedule. A small number of systems may require a second update because of the new turnover dates.

H. Balance of Engineering

1. Digital Radiation Monitoring System

This system was originally scheduled to be delivered by October 1984, but current projections indicate that delivery will occur in March of 1985.

This system is behind schedule due to documentation and equipment qualification problems. The vendor (Kaman) is currently working to a best effort workaround plan. All documentation and delivery problems are expected to be resolved by mid March, 1985. During November, Kaman submitted equipment qualification documentation for 44 of 45 components and demonstrated system operability by completing the integrated system test.

2. Small Bore Pipe and Tube

This activity is behind schedule. An increase in the ACN incorporation activity hindered the issuance of new design. With the addition of manpower and extended working hours, a workaround plan is in place to be back on schedule by the end of January 1985. A priority has been placed on systems associated with the integrated flush.

3. Drawing Schedule

As of November 30, 1984, 84 drawings were required for construction. They consist of the following:

2 - Electrical wiring and termination drawings; rescheduled for December issue due to lack of vendor details.

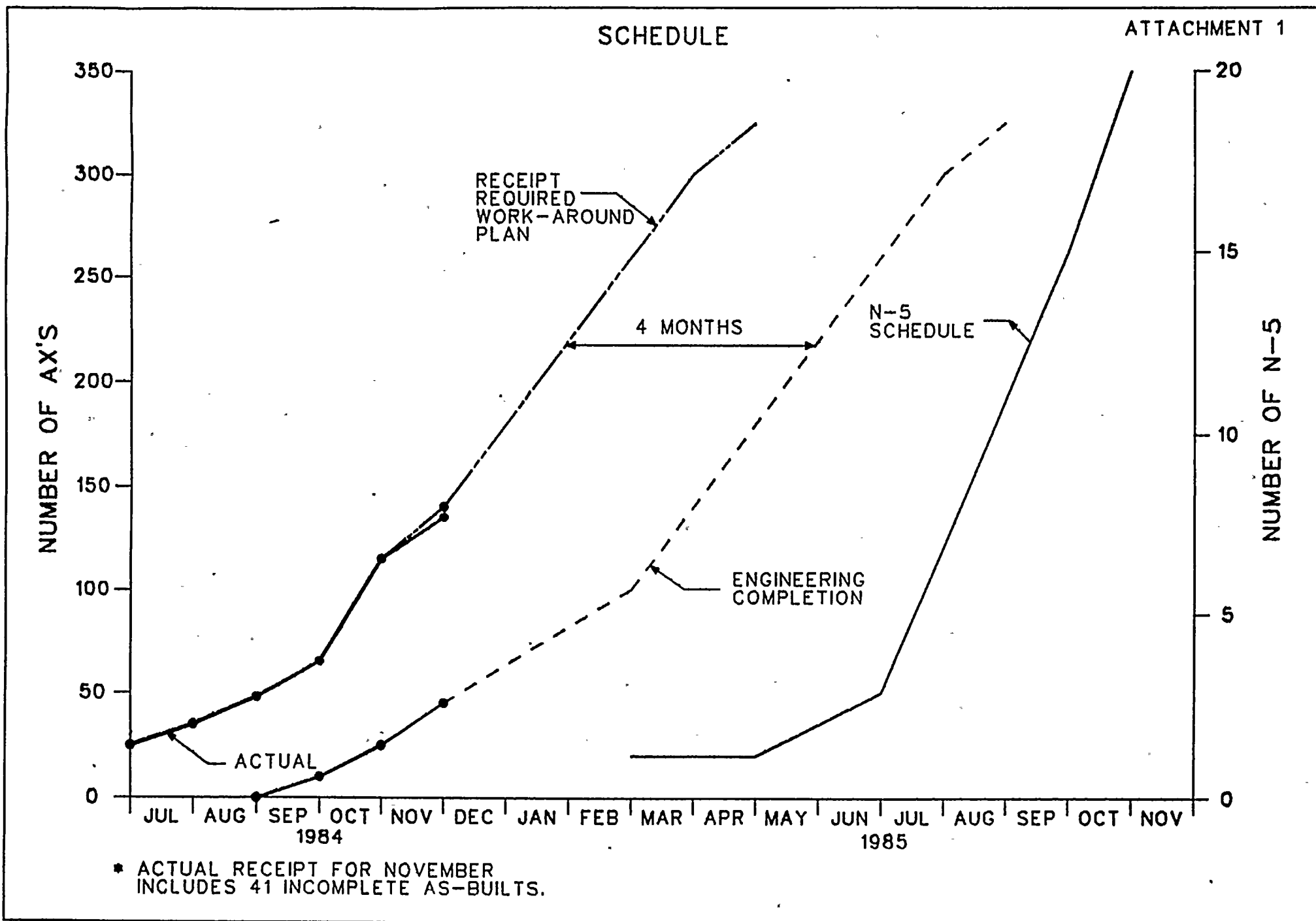
1 - Vessel drawing for lifting rig, aux wrench scheduled for issue in December.

9 - Power drawings (2-EP & 7-EM) with expected issue in December

57 - Small Bore drawings, including neutron monitoring. Scheduled completion is January 31, 1985.

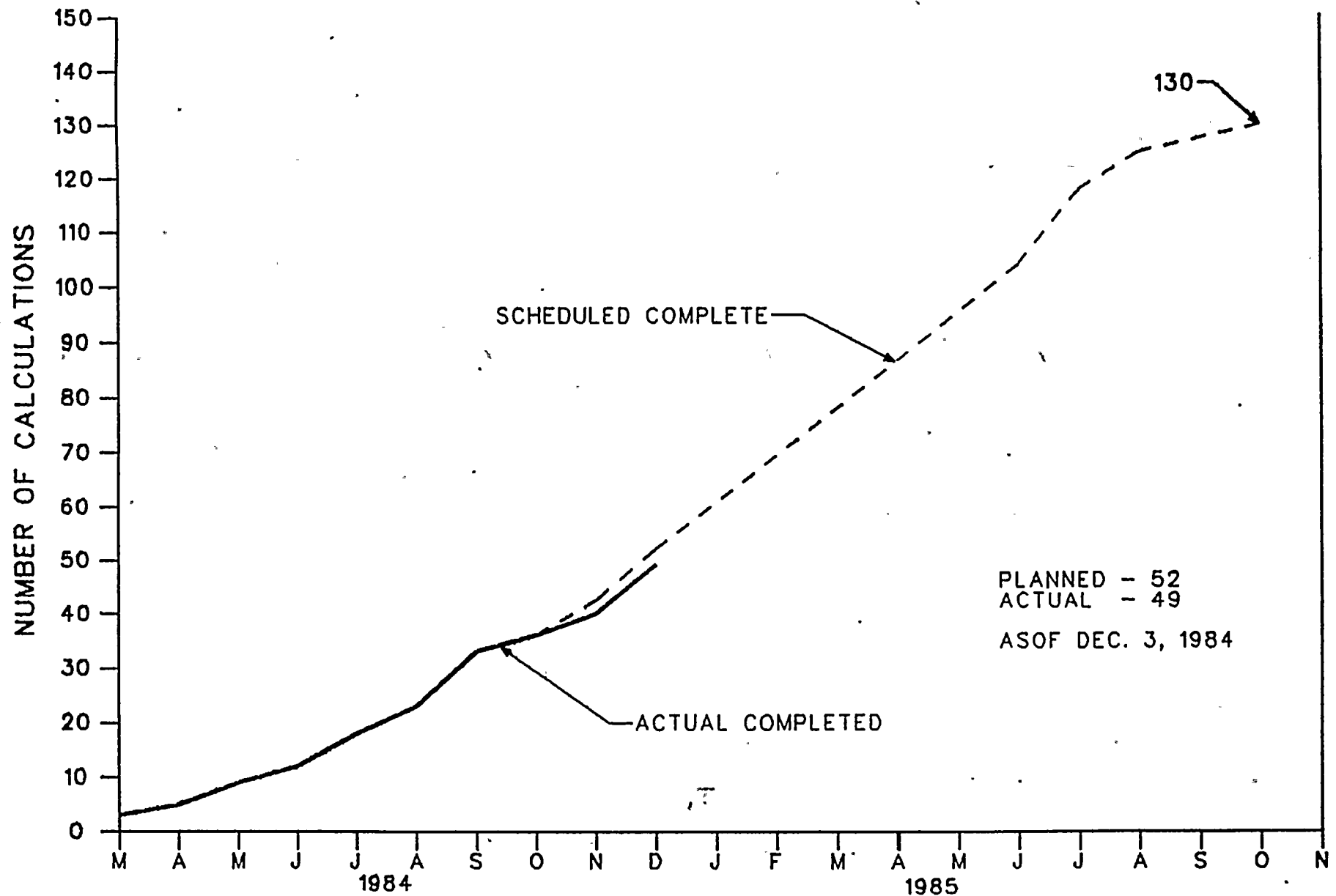
4. E&DCR and ACN Status

The current status is provided on attachments 5 and 6.



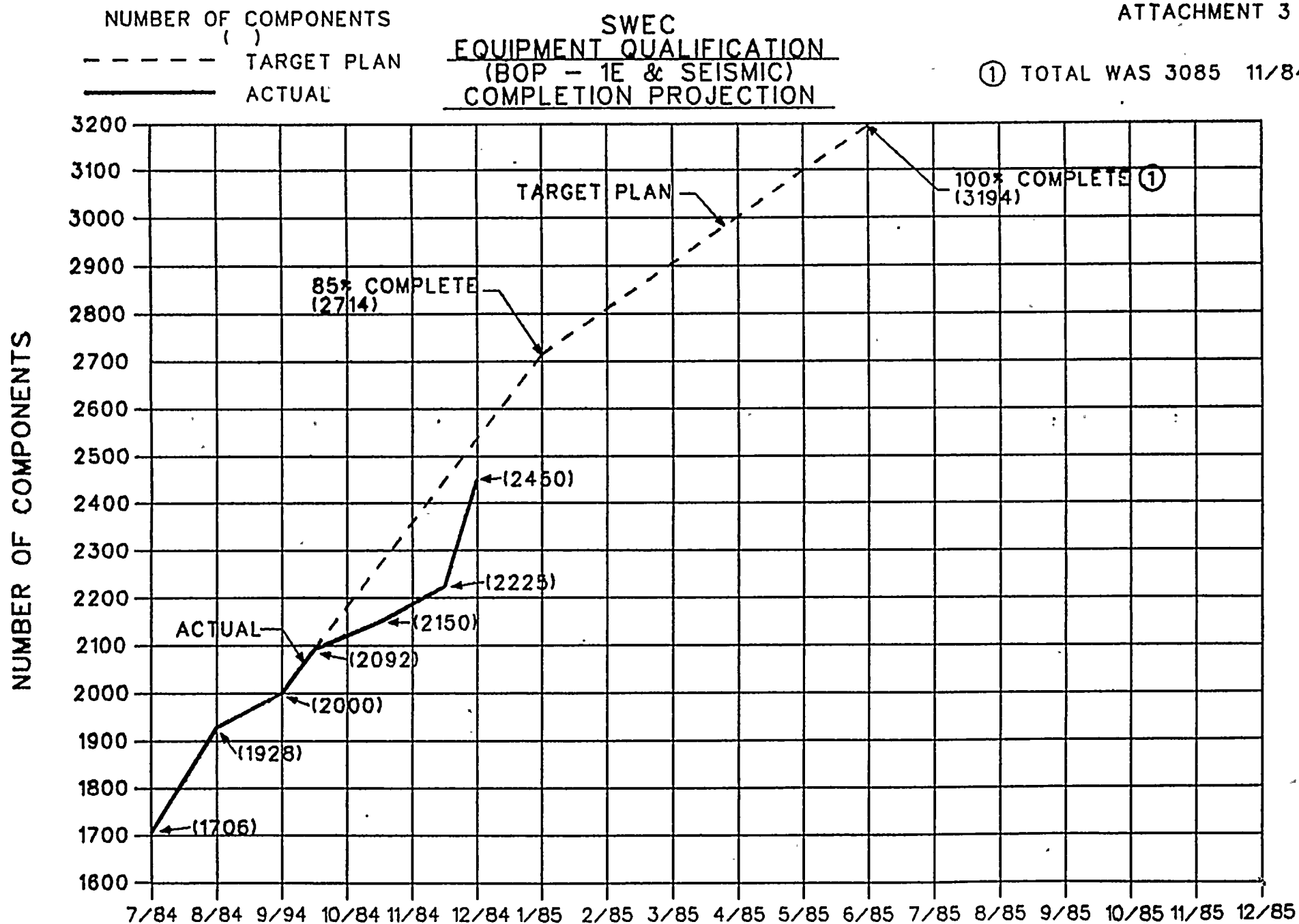
STRUCTURAL FINAL LOAD VERIFICATION STATUS

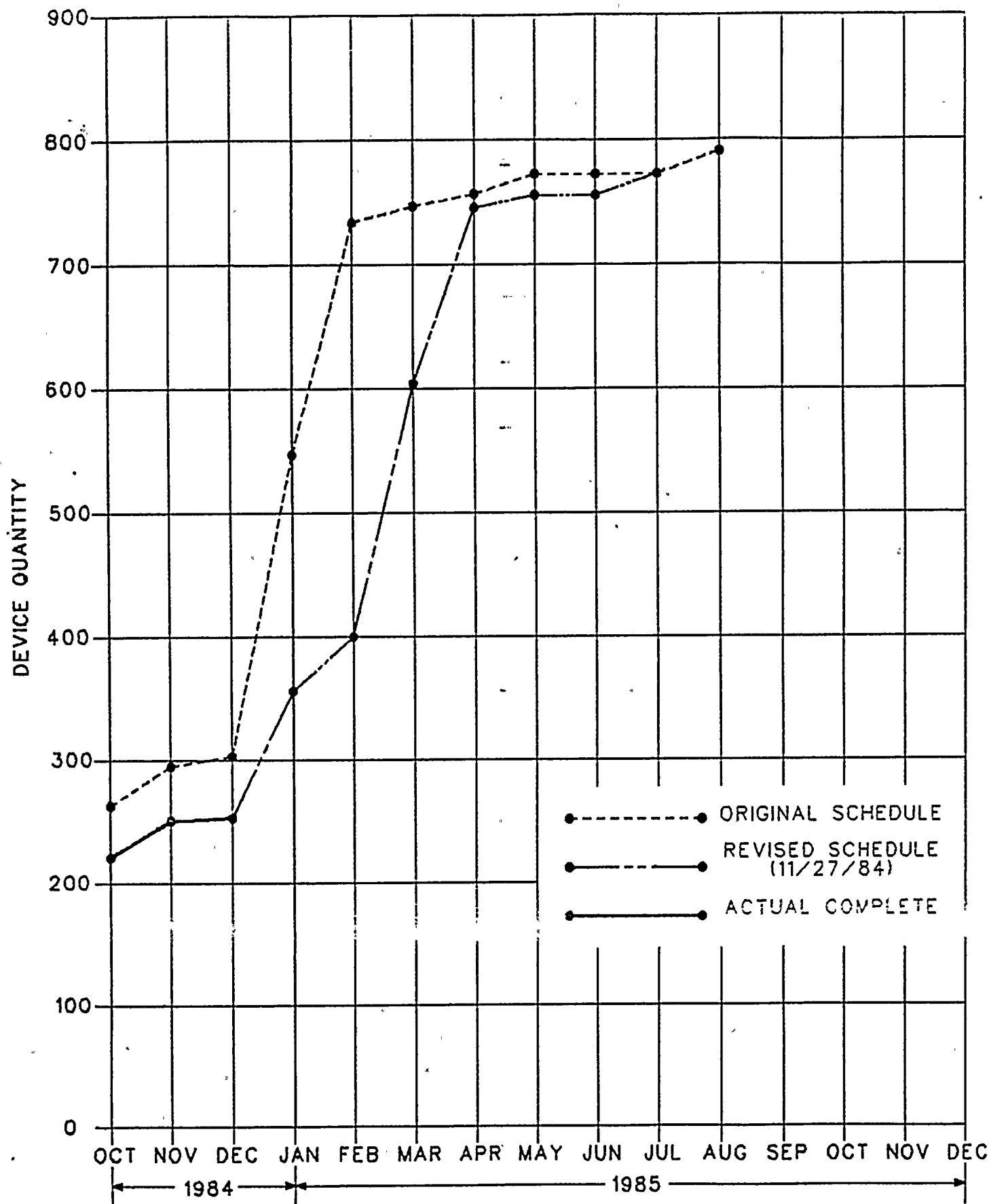
ATTACHMENT 2

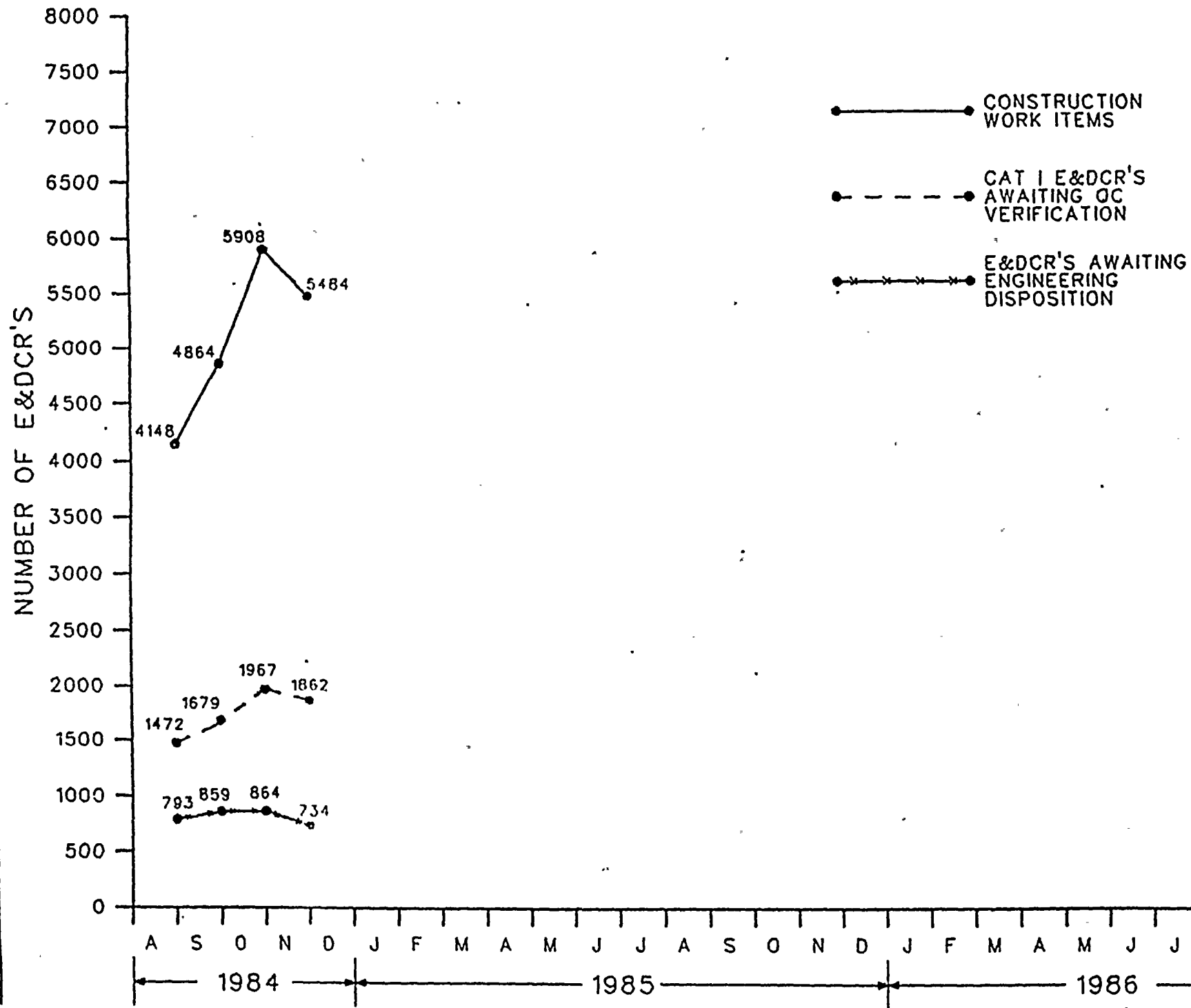


SWEC
EQUIPMENT QUALIFICATION
(BOP - 1E & SEISMIC)
COMPLETION PROJECTION

① TOTAL WAS 3085 11/84

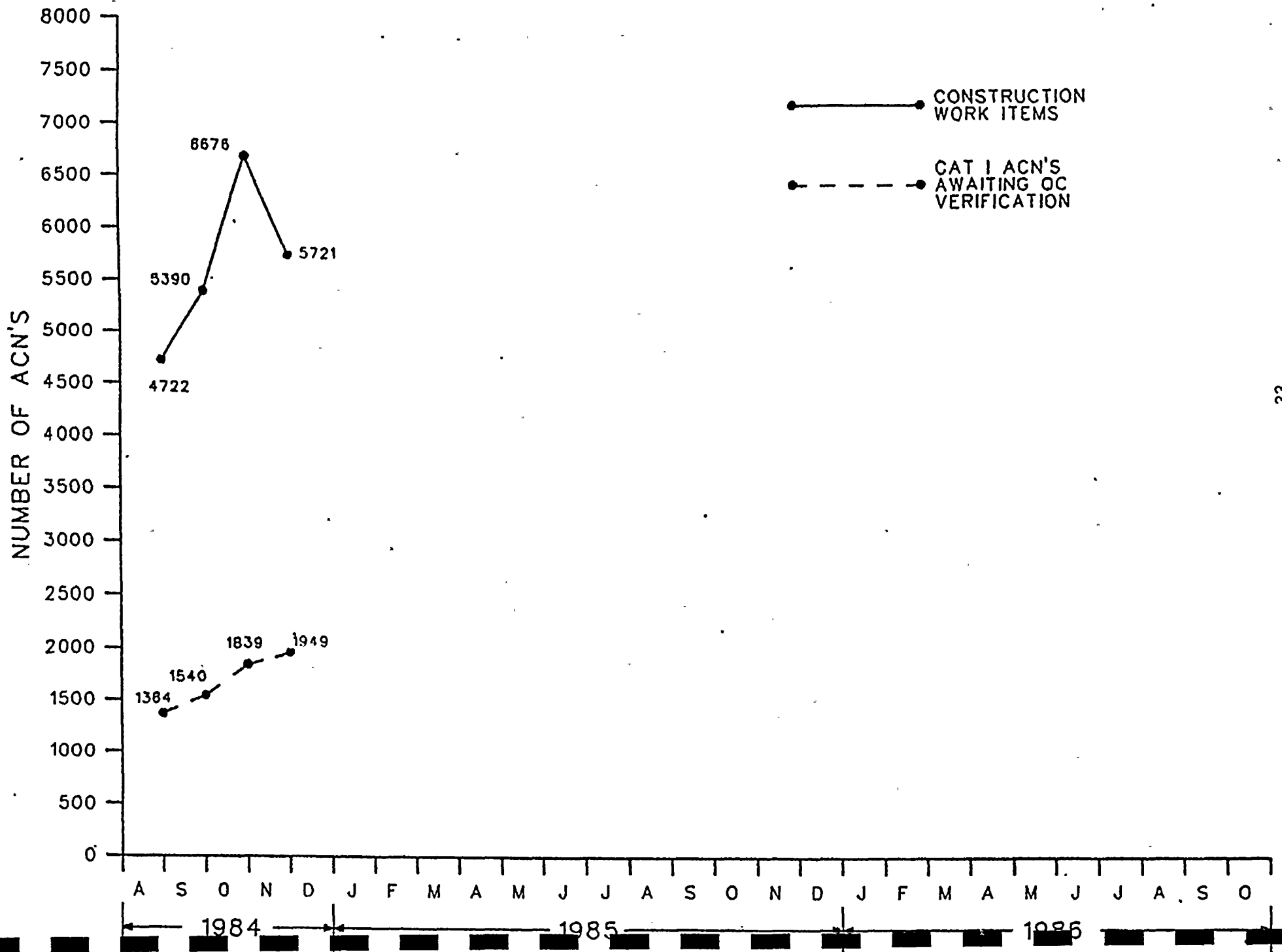


QUALIFICATION PLAN
NSSS EQUIPMENT

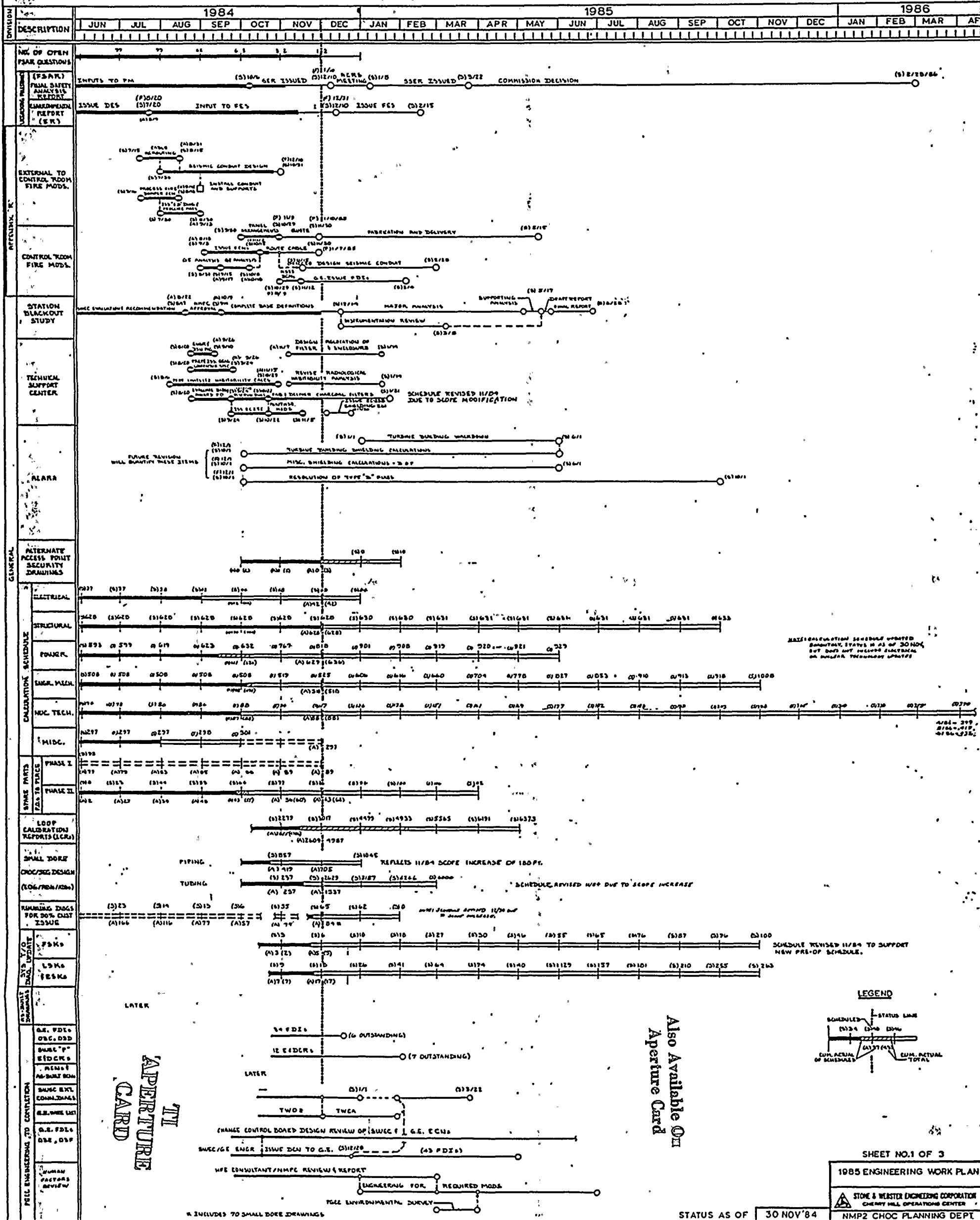


ACN STATUS

ATTACHMENT 6



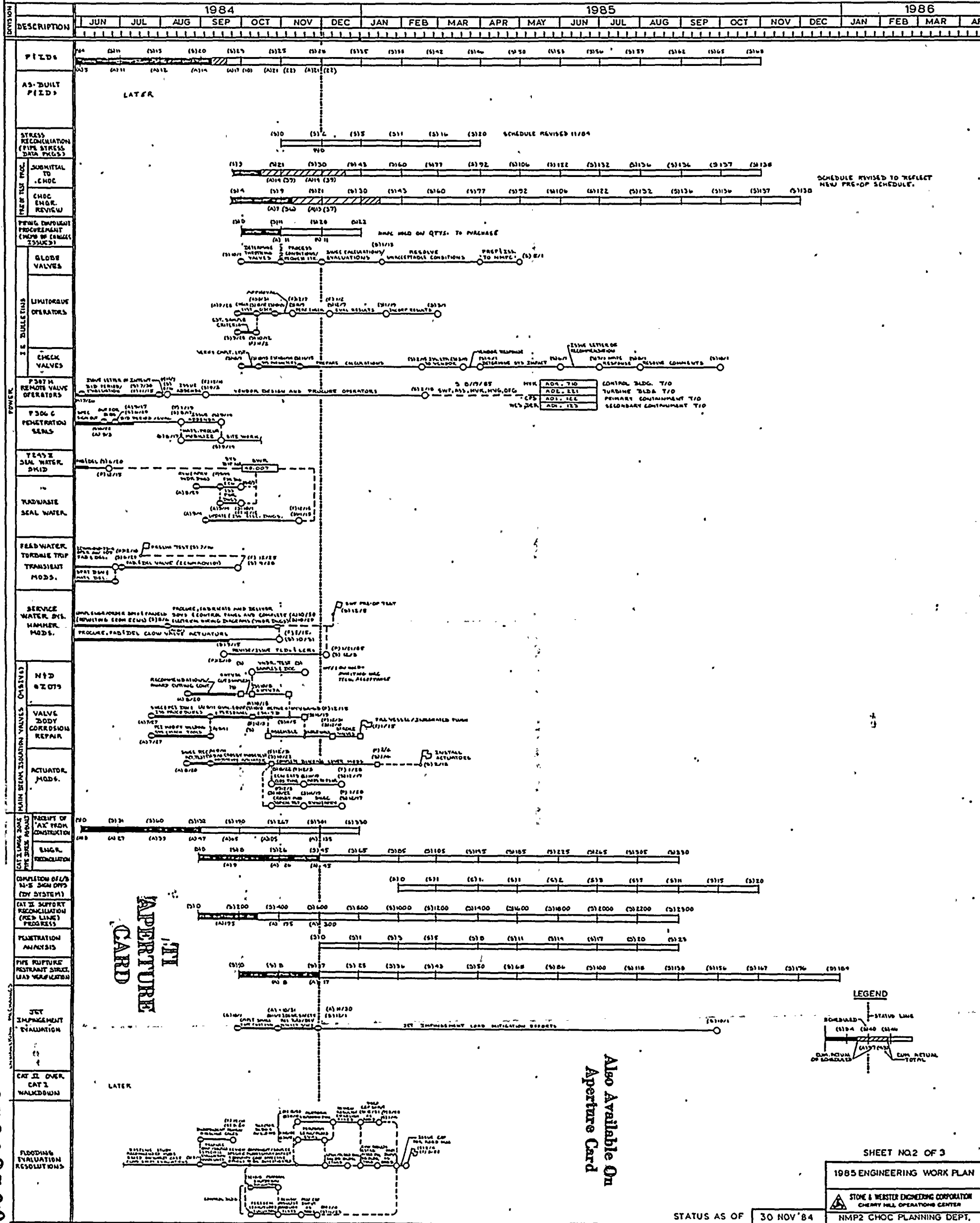
MONTHLY STATUS OF 1985 ENGINEERING WORK PLAN



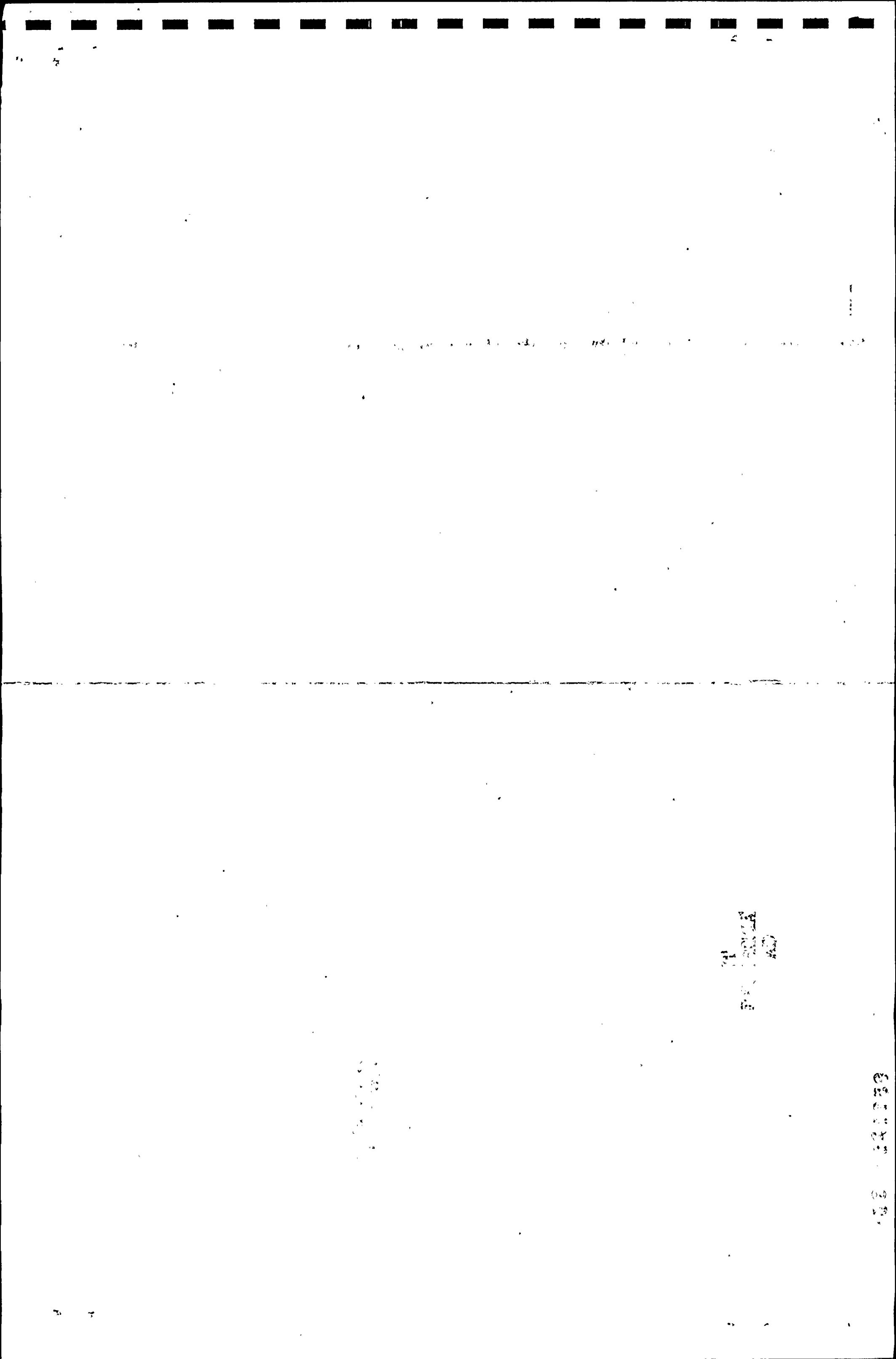
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1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

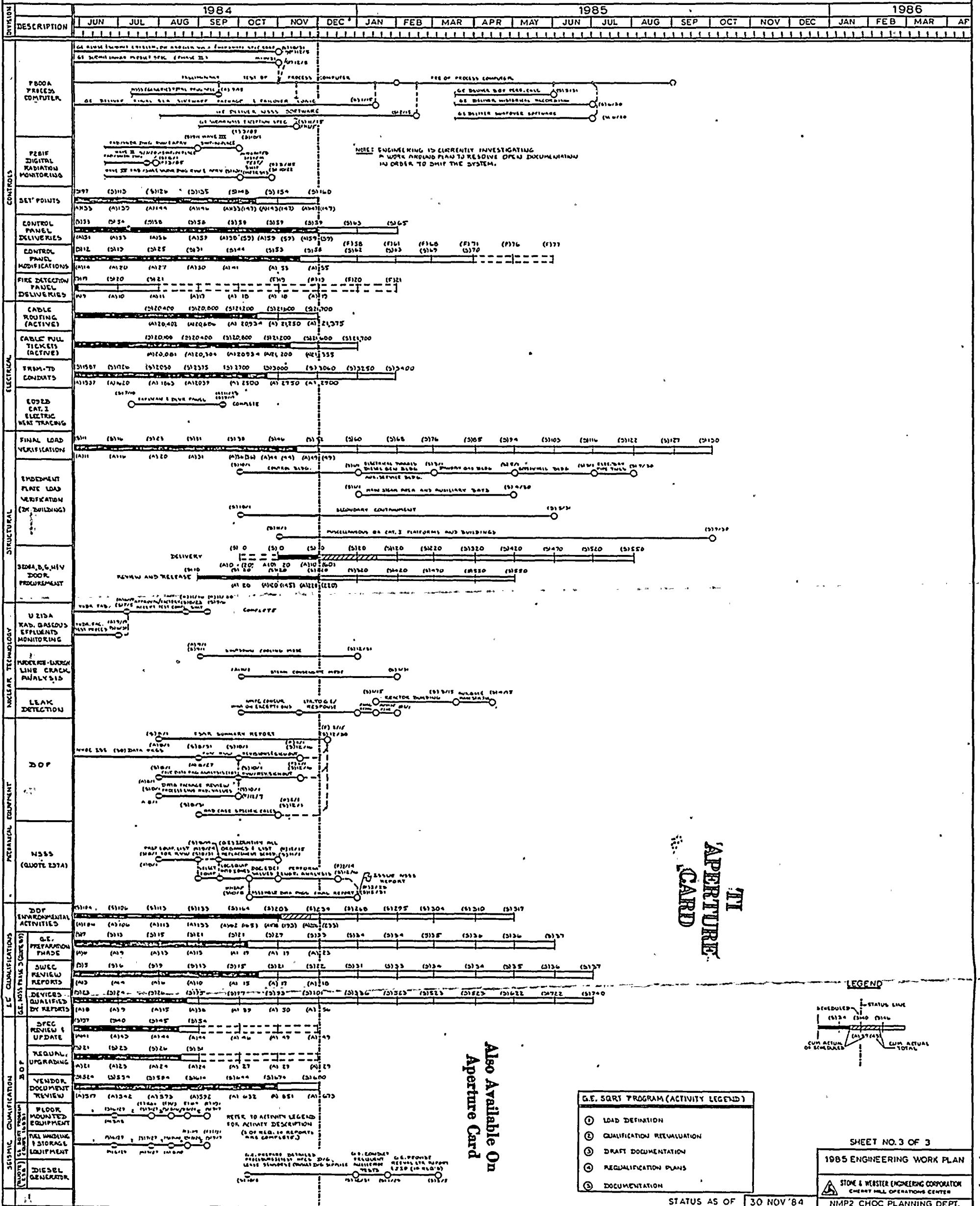
MONTHLY STATUS OF 1985 ENGINEERING WORK PLAN



8501250085-02



MONTHLY STATUS OF 1985 ENGINEERING WORK PLAN



8501250085-03

CHIT
RECEIVED
11

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.

DECEMBER SITE AVERAGE STAFFING (PAYROLL)

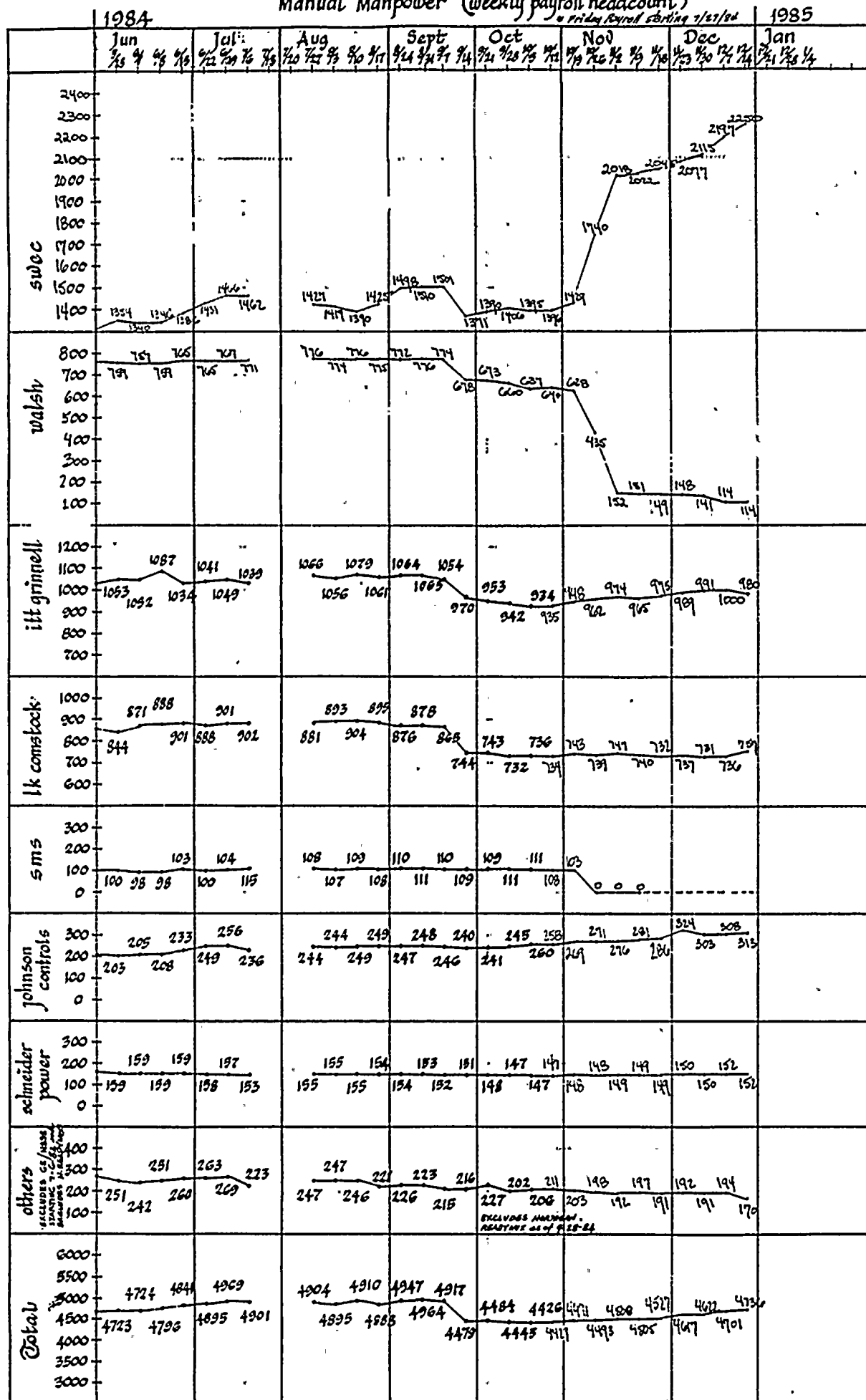
	<u>MANUAL</u>		<u>NON-MANUAL</u>		<u>TOTAL</u>	
<u>COST REIMBURSABLE</u>	<u>P</u>	<u>A</u>	<u>P</u>	<u>A</u>	<u>P</u>	<u>A</u>
SWEC	1516	2161	1020	1053	2536	3214
Walsh	382	129	37	15	419	144
LKComstock	731	740	100	99	831	839
ITT Grinnell	949	990	307	439	1256	1429
SMS	83	0	5	0	88	0
JCI	306	312	110	126	416	438
Schneider	150	151	19	19	169	170
Painting	<u>120</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>130</u>	<u>0</u>
Subtotal	4237	4483	1608	1751	5845	6234
 <u>Hard Money</u>						
A11		186		46		232
GE/NSSS				72		72
NMPC				633		633
 TOTAL		4669		2502		7171

Note:

(1) Excludes CHOC paid site assigned personnel.

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

Manual Manpower (weekly payroll headcount)

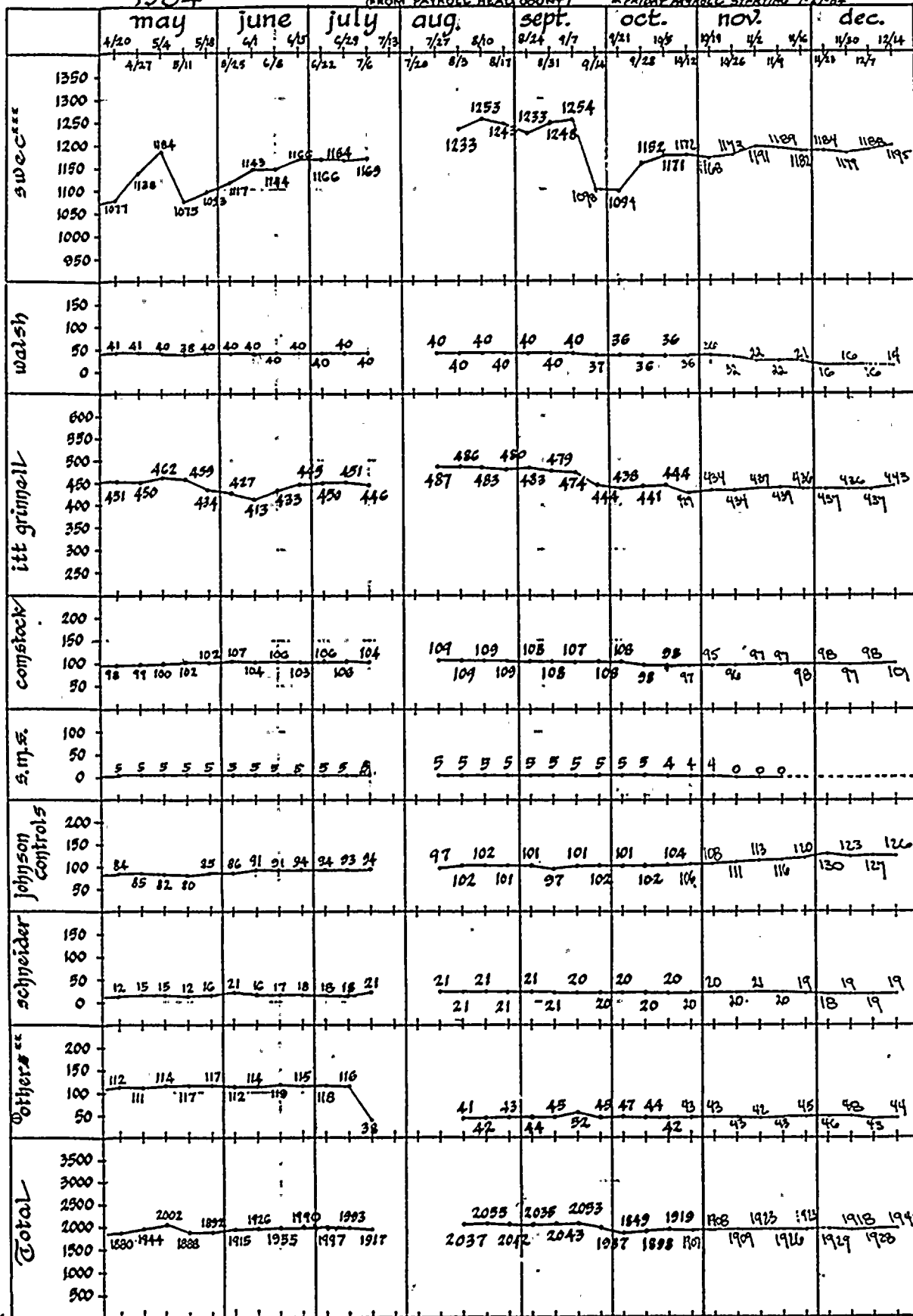


1984

Nonmanual Manpower (weekly)

(FROM PAYROLL HEAD COUNT)

* FRIDAY PAYROLL STARTING 7-27-84



Note:

7/13 and 7/20 INFORMATION NOT AVAILABLE

** GE/NEES NOT INCLUDED (STARTING 7/6/84) and NORTHERN READY MX as of 9-28-84

*** EXCLUDES 38G CHOC ONLY (START 8-8-84)

December 16, 1984

SWEC STAFFING REPORT

Page 1 of 2

	<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	2	2	0	15	15	0	17	17
<u>PROJECT CONTROLS</u>	0	16	16	8	56	64	8	72	80
Planning	0	10	10	6	37	43	6	47	53
Management Systems				0	4	4	0	4	4
Cost	0	6	6	2	15	17	2	21	23
<u>SITE ENGINEERING</u>				32	485	517	32	485	517
<u>ADVISORY OPERATIONS</u>	1	34	35	10	136	146	11	170	181
PGCC				2	22	24	2	22	24
Startup & Test	1	34	35	8	114	122	9	148	157
<u>PROJECT ENGINEERING</u>	24	464	488				24	464	488
<u>CONSTRUCTION</u>				32	218	250	32	218	250
CCCP				0	7	7	0	7	7
Safety				0	10	10	0	10	10
System Turnover				6	40	46	6	40	46
Construction Groups				26	161	187	26	161	187

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December 16, 1984

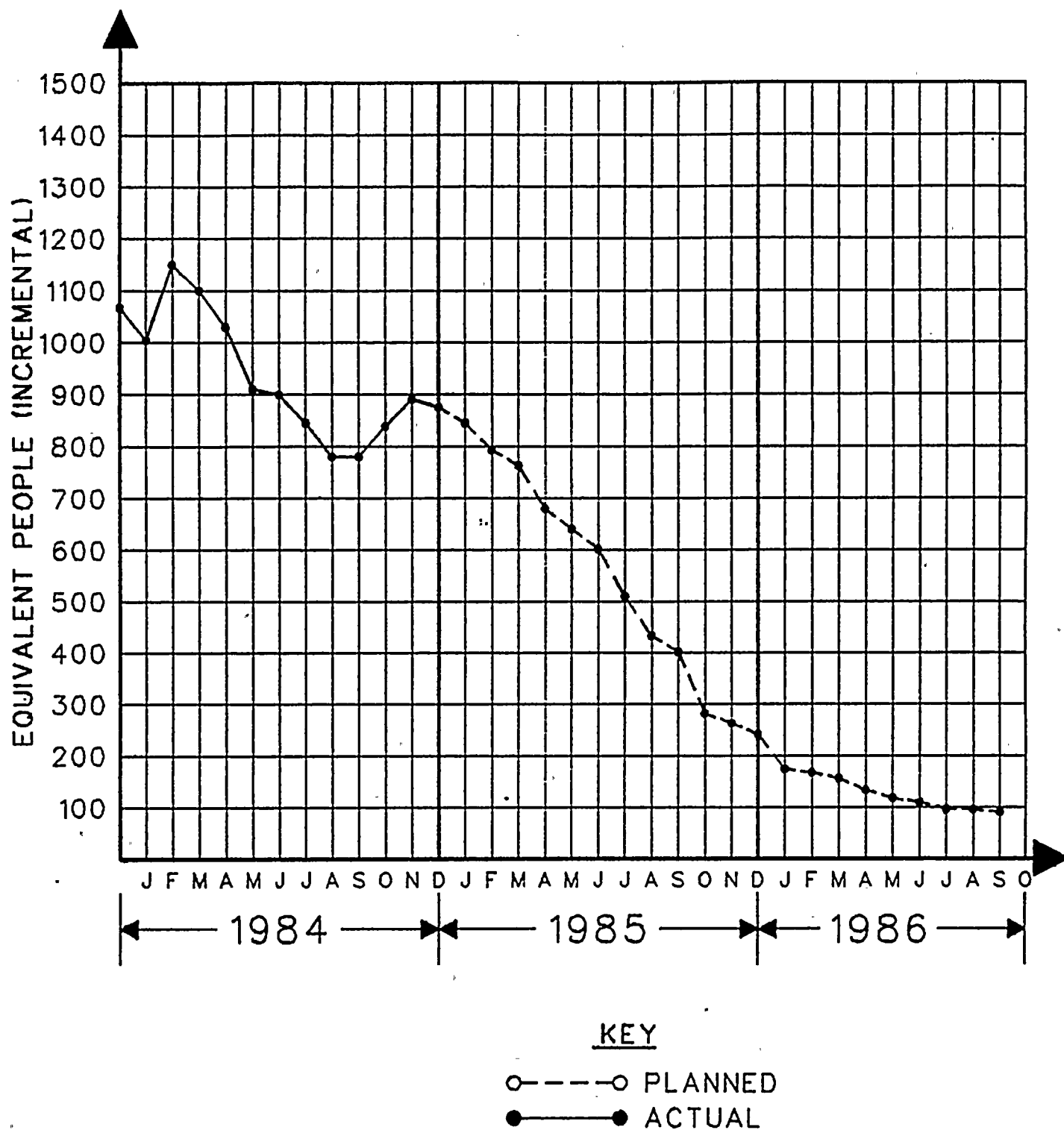
SWEC STAFFING REPORT

Page 2 of 2

<u>Department</u>	<u>CHOC LOCATED</u>			<u>SITE LOCATED</u>			<u>TOTAL</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	55	57	16	252	268	18	307	325
Project Administration	0	1	1				0	1	1
Office Services				0	7	7	0	7	7
Project Records Admin.	2	1	3	2	14	16	4	15	19
Document Control	0	32	32	10	153	163	10	185	195
Information Systems	0	21	21	3	23	26	3	44	47
Accounting				0	25	25	0	25	25
Time Office				1	15	16	1	15	16
First Aid				0	8	8	0	8	8
Training				0	7	7	0	7	7
 <u>CONTRACTS & MATERIALS</u>	 0	 5	 5	 3	 60	 63	 3	 65	 68
Contracts				1	9	10	1	9	10
Materials				0	23	23	0	23	23
Purchasing	0	4	4	0	12	12	0	16	16
Expediting	0	1	1	2	16	18	2	17	19
 <u>QA/QC</u>	 0	 4	 4	 25	 282	 307	 25	 286	 311
QA	0	4	4	3	24	27	3	28	31
QC				22	258	280	22	258	280
 <u>LABOR RELATIONS/PERSONNEL</u>	 	 	 	 1	 7	 8	 1	 7	 8
 <u>GRAND TOTAL</u>	 27	 580	 607	 127	 1511	 1638	 154	 2091	 2245

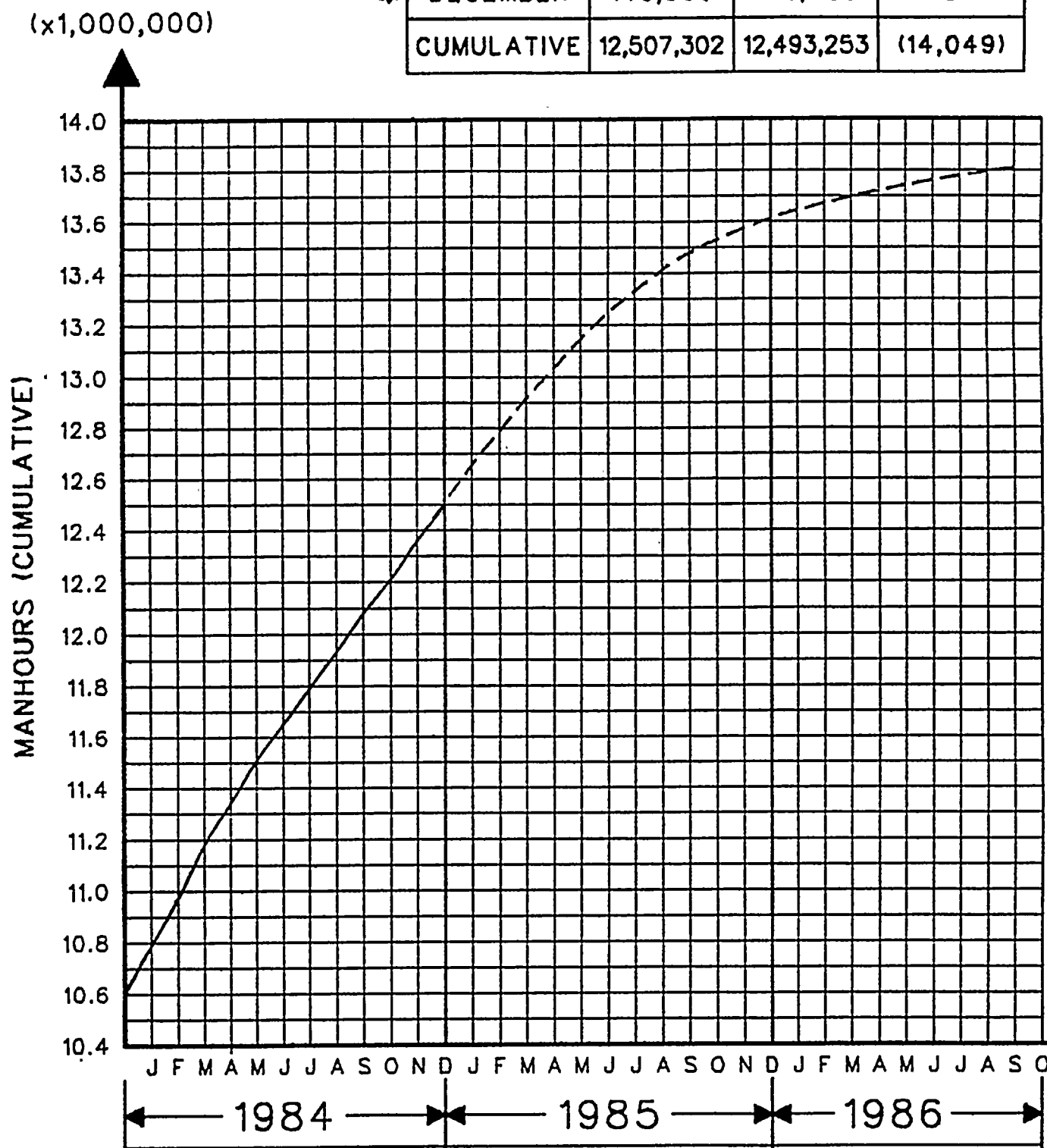
SWEC ENGINEERING AND DESIGN PERSONNEL (SEG + CHOC)

	PLANNED	ACTUAL	VARIANCE
DECEMBER	876	876	0



SWEC ENGINEERING AND DESIGN MANHOURS (SEG + CHOC)

	PLANNED	ACTUAL	VARIANCE
★ DECEMBER	146,909	146,709	-0-
CUMULATIVE	12,507,302	12,493,253	(14,049)



NOTE:

★ DECEMBER 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

The review of In-Place safety related items, materials, components, etc., that had been accepted by the Contractors QC organizations has been completed by NMPC QA Projects. The data collected from this review is summarized by commodity, contractor, and generalization of deficiencies on Attachment #1.

Per NMPC direction, SWEC has completed their evaluation of ITT Grinnell installed Large Bore Pipe Supports. The results of SWEC's findings are contained in Attachment #2.

The results of the NMPC surveillance and SWEC's evaluation of ITT Large Bore Pipe Supports have been forwarded to Project Engineering to determine if any reinspection is required and if so, what inspection attributes are applicable.

In addition to the above, 100 instrumentation supports previously accepted by JCI Quality Control are to be evaluated by SWEC.

Further Actions are pending an Engineering evaluation of the data gathered.

Another 112 surveillances were performed by NMPC QA-Projects from November 20 to December 19, 1984, involving approximately 1200 attributes from approved checklists. From these surveillance activities the following number of deficiencies/discrepancies were identified:

	<u>HARDWARE</u>	<u>SOFTWARE</u>
SWEC	17	5
ITT Grinnell	6	3
JCI	2	0
RCI	0	7

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	0	3
ITT Grinnell	0	0
JCI	0	1
RCI	1	0

Quality Trending

Of the two remaining Suspected Trend Investigation Reports (STIRS), one has been closed, and no corrective action was required. The other STIR is still being investigated. The next quality trend report will be issued in January 1985.

NRC RELATED ACTIVITIES

NMPC & SWEC have completed the review of ITT Grinnell's plan for performing the film comparisons to determine the extent of the "Duplication of Radiographs" problem. Comments that were generated have been resolved and ITT Grinnell is to revise the plans and resubmit it for approval.

Mr. R. A. Gramm introduced a new Resident Inspector on site - Mr. R. M. Wheeler.

Mr. Gramm and Mr. Wheeler are in the process of performing inspection period 84-19. To date, 6 inspector follow-up items have been identified. These 6 items are presently being pursued by NMPC and SWEC for closure, prior to the NRC exit.

NRC Resident Inspector held a formal exit meeting on 11/7 for inspection period 84-15.

* Results: 5 Unresolved Items
 3 Open Items

* All results are unofficial. Inspection Report 84-15 has not yet been formally issued.

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	6	2	5	16
Unresolved:	13	27	12	10	62
Violations:	8	15	3	4	<u>30</u>
				TOTAL	108

- 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.

Audits

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 assure that only certified QC personnel (ANSI N45.2.6) would be "Final Accepting" items and not personnel in training. The audit revealed that the inspection activities being performed by SWEC and their Contractors (ITT-G, RCI and JCI) are being performed only by Certified Personnel.

Audit RG-VR-N2-84010 was performed at SWEC in Boston for activities in support of the NMP-2 Project. The audit specifically addressed the conformance of QA, FQC, PQC, NDT and QACA Divisions for compliance to the SWEC NMP2 QA Program and the commitments in the Regulatory Licensing document (SAR). The audit was conducted during the week of 9 December, 1984, and resulted in the issuance of three (3) AFR for minor deficiencies.

Audit RG-VR-N2-84011 presently in process (Dec. 17-21, 1984). The Audit Scope includes those activities being performed by ITT Grinnell and Stone & Webster on a pre-selected large bore piping and hanger installation effort (Hardware Audit) to verify that all work effort is in compliance with the applicable requirements and the QA programs.

No. OF ITEMS

COMMODITY	INVOLVED	DEFICIENCIES	ACTIONS
PIPE HANGERS/ SUPPORTS	50	- LOOSE LOCKING DEVICES - WELDING	. NMPC HAS DIRECTED SWEC TO PERFORM A REINSPECTION OF 125 ADDITIONAL HANGERS/SUPPORTS.
INSTRUMENT TUBING SUPPORTS	30	- WELDING	. NMPC HAS DIRECTED THAT A RE- INSPECTION OF 100 SUPPORTS BE PERFORMED BY JCI AND THAT 20 OF THE 100 SUPPORTS BE REINSPECTED BY SWEC.
HVAC HANGERS/ SUPPORTS	56	- CONFIGURATION - WELDING	. NMPC HAS DIRECTED SWEC TO PERFORM A REINSPECTION OF 50 HANGERS/SUPPORTS.
FIELD RACEWAY HANGERS/SUPPORTS	319	- LACK OF HARDENED WASHERS - INADEQUATE STOR- AGE & MAINTEN- ANCE	. UNDER EVALUATION.

COMMODITY	NO. OF ITEMS INVOLVED	DEFICIENCIES	ACTIONS
CABLE TRAY	106	<ul style="list-style-type: none"> - LACK OF IDENTIFICATION. - INADEQUATE STORAGE & MAINTENANCE 	UNDER EVALUATION.
CONDUIT	189	<ul style="list-style-type: none"> - DAMAGED IDENTIFICATION NUMBERS. - INADEQUATE STORAGE AND MAINTENANCE 	UNDER EVALUATION.
ELECTRICAL EQUIPMENT	43	<ul style="list-style-type: none"> - DAMAGED & MISSING PARTS & COMPONENTS - INADEQUATE IDENTIFICATION OF COMPONENTS - INADEQUATE TORQUE OF BOLTED HARDWARE - INADEQUATE STORAGE & MAINTENANCE 	<p>AS A RESULT OF THE NRC VIOLATION, NMPC HAS ALREADY DIRECTED SWEC TO PERFORM A REINSPECTION. A SAMPLE REINSPECTION IS IN PROCESS.</p>

COMMODITY	NO. OF ITEMS INVOLVED	DEFICIENCIES	ACTIONS
STRUCTURAL STEEL	80 MEMBERS	- WELDING	. UNDER EVALUATION.
	120 CONNEC-	- IMPROPER COPEs	
	TIONS	- LOOSE BOLTS	
		- INADEQUATE IDEN-	
		TIFICATION OF	
		BOLTING HARDWARE	
		- UNAPPROVED COAT-	
		ING IN FRICTION	
		CONNECTIONS	
CONCRETE EXPANSION 40		- VIOLATION OF	. UNDER EVALUATION.
ANCHORS		DISTANCES FROM	
		C OF ANCHOR TO	
		EDGE OF CONCRETE	
		- VIOLATION OF DIS-	
		TANCES FROM C TO	
		C OF ANCHORS.	

SUMMARY:

Approximately 1000 field welds and 1250 inspection attributes were included in 125 supports sampled by SWEC. The following is a summary of the 125 supports inspected and concerns identified:

FOR ATTACHMENT "B"

<u>SUPPTS/WELDS</u>	<u>SUPPTS AFFECTED</u>	<u>TOTAL WELDS INSPECTED</u>	<u>WELD CONCERN</u>
125/1000 approx.	32	383	61

FOR ATTACHMENT "C"

<u>SUPPTS/ATTRI</u>	<u>SUPPTS AFFECTED</u>	<u>TOTAL ATTRI</u>	<u>NO. OF ATTRI. ASSOCIATED WITH HARDWARE CONCERNS</u>
125/1250 approx.	45*	565	45

* Six (6) supports included in total of 45 are also listed on Attachment B due to welding concerns.

VII. CONTRACT ADMINISTRATION

A. Major Contract Issues

1. GE Spare Parts Excess Inventory Sale - NSSS

Every effort is being made to ensure that maximum advantage is taken of a 35 - 50% discount offer on an inventory of start-up, test, and operational spare parts. This proposal from GE remains valid until December 31, 1984.

2. P800A - GE NSSS Contract - Cost Allocation

The research initiated in November to characterize the technical nature of PGCC FDDRs as well as to determine the respective cost responsibilities was completed during December. The information gained from this study was used as the foundation for a final settlement meeting with General Electric during the week of December 10, 1984. Deductions from GE's monthly PGCC invoices continue to be made.

B. Materials Management

1. Valve List Review

In conjunction with engineering, materials management is conducting a review of the valve shortage and excess list. The primary objective of this effort is to identify potential substitute materials and thus reduce the need to place additional valve orders.

2. Inventory Tracking

Data is currently being entered into the computerized inventory tracking/materials management system. A major feature of this system is its ability to reserve material and identify shortages by BIP or work package. This system is currently being used to track spare parts and standard stock items. It is anticipated that the system will be fully operational by January 7, 1985.

3. Productivity Improvement

After careful review of its operations, materials management has identified several activities which can be made more productive. Listed below are the areas of concern in which materials management has initiated constructive change.

- Combine small bore inventory under SWEC control
- Realign laydown areas for greater effective control
- Improve tool control process
- Improve measurement and test equipment control
- Improve material control response time and enhance inventory management

Materials Management will monitor the effectiveness of these changes. The results of the effort which began during December will be seen and reported in subsequent months.

C. Expediting

1. BALANCE OF PLANT (BOP):

The total number of active CHOC purchase orders for permanent plant equipment is now sixty-nine (69) with deliveries projected through August 30, 1985. The material on these orders represent a total of 1,845 items which are not delivered (not including hanger material, cable, or equipment procured under P800A/NSSS spare parts) that are required for completion of the plant.

VIII. STARTUP AND TEST

A. General

The procedures which set policy for the Startup & Test Program are the Startup Administrative Procedures (SAP). These procedures have been approved by the Joint Test Group (JTG), and their implementation will streamline the program.

B. Release for Testing Status

Of the 106 subBIP 'A' releases scheduled as of December 17, 1984, 94 have been accepted for Preliminary Testing. There are 11 additional subBIP 'A' releases which have been accepted as early releases. There are 12 subBIP 'A' releases overdue per the Project Schedule issued October 15, 1984 with Revision #1. (See Attachments 1 and 2)

C. Preliminary Test Status

Preliminary testing continues with emphasis on systems supporting Integrated Flush. Other systems in testing at this time are Service Water, Instrument Air, Turbine Building Closed Loop Cooling, Makeup Water, Control Rod Drive Hydraulics, Turbine Generator Lube Oil System, and permanent plant electrical unit heaters. Electrical Systems and the Annunciator & Computer testing is being prioritized to support the Startup schedule. The suppression pool is in the process of being filled to support ECCS pump runs and integrated flush.

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 January, 1985. 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: An Integrated Startup/Project Plan has been developed and issued to the Project for information. 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	94	11	105

Late Per Schedule: 12

Flush Path Releases

Scheduled	Released IAW Scheduled	Early Release	Total Releases Accepted
65	53	7	60

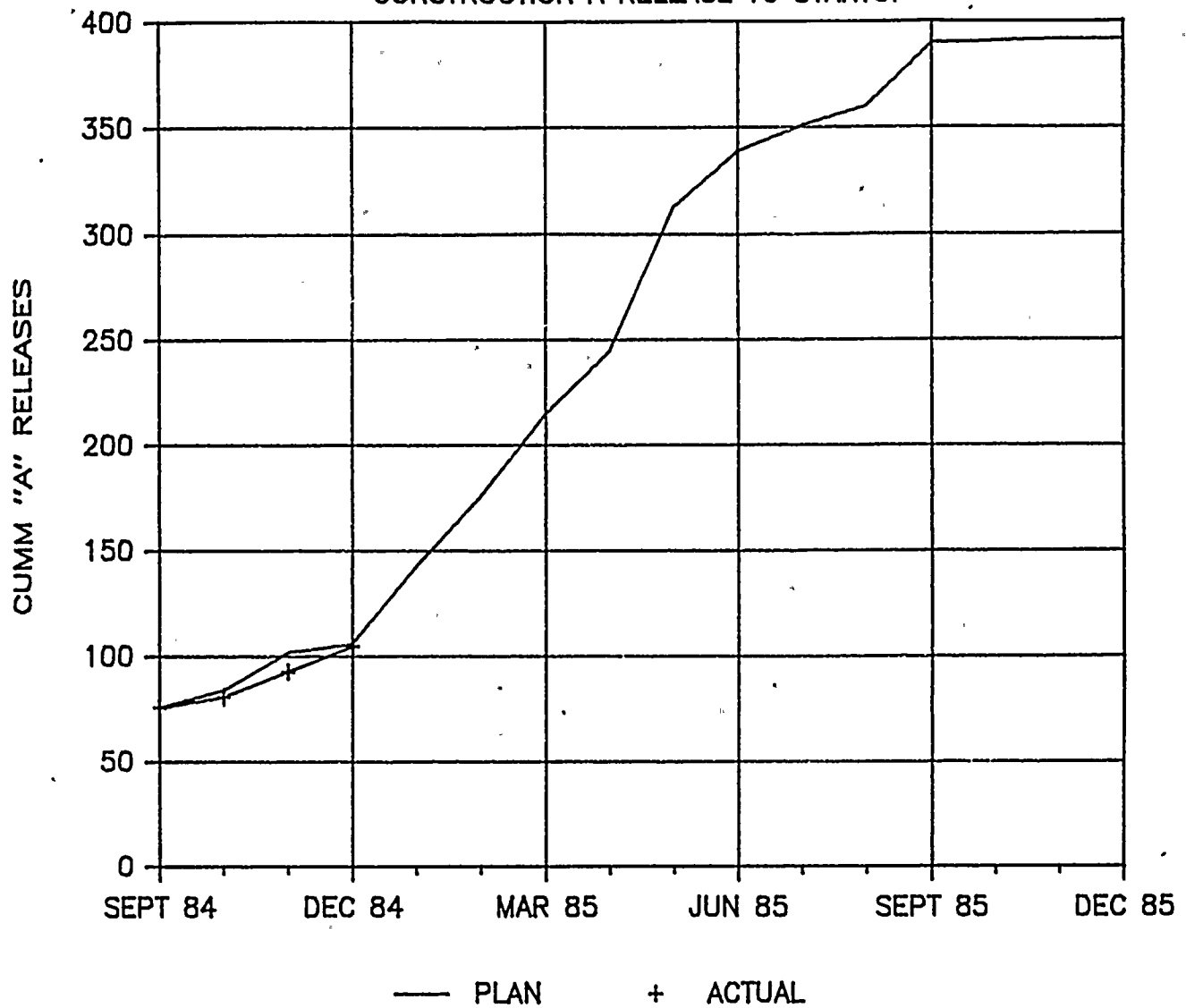
Late Per Schedule: 12

'B' Component Releases

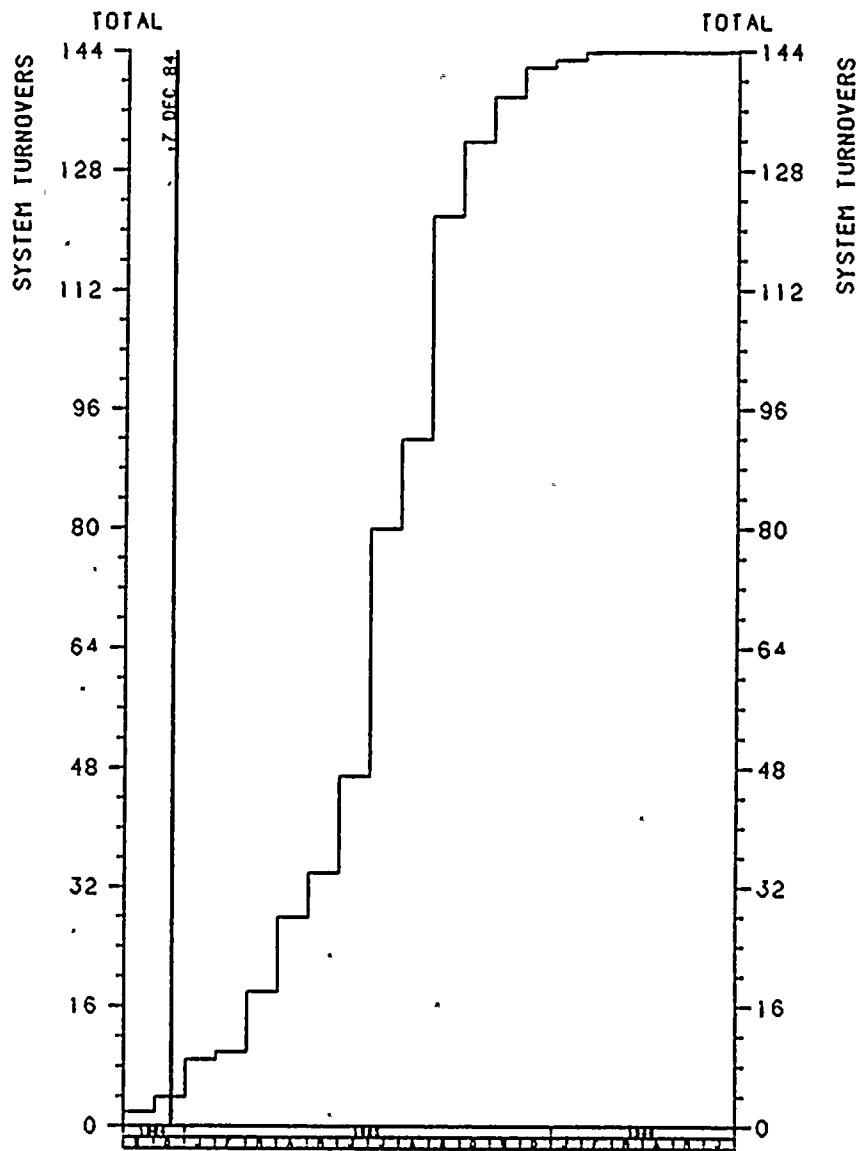
Schedule	Early Releases Accepted	% Completed Testing
N/A	234	85%

PLAN VS ACTUAL

CONSTRUCTION A RELEASE TO STARTUP



NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT UNIT 2
NUMBER OF SYSTEM TURNOVERS PER MONTH



SYSTEM TURNOVERS
TOTAL

STARTS
ORIG SCH ES CUM

SYSTEM TURNOVERS
TOTAL

STARTS
CURR SCH ES CUM

IX. COST

A. Cash Flow Summary

Approximately \$2,656 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 November.

As of December 16, approximately \$674.7 million had been expended in 1984 versus \$675.0 million forecasted for an underrun of .3 million.

Approximately \$48.1 million was expended in December versus \$41.6 million planned.

B. December Cash Flow Variance Analysis

	<u>Variance</u>	<u>Remarks</u>
SWEC (Manual & Non-Manual) & Walsh (Manual & Non-Manual) Including: Painting Temp. Electric Walsh Takeover	\$3.0 million over	SWEC Labor Forces have taken over the forecasted Painting effort, the remaining Temporary Electric effort (SMS), and a portion of Walsh's effort. The overall effect of this takeover has been an approximate 100,000 MH overrun in Manual Manhours, and an overrun in Non-Manual manhours of approximately 11,000 MH.
Grinnell	\$2.4 million over	Non-Manual staffing higher than Plan. Manual overtime higher than forecast by approximately 24,000 hours (120% over plan).
Comstock	\$1.4 million over	Manual and Non-Manual overtime over the forecast. (Manual overtime being 152% over and Non-Manual overtime being 74% over)
Johnson Controls	\$. 5 million over	Manual and Non-Manual overtime forecast. (Manual overtime being 106% over and Non-Manual overtime being 177% over)

Other Misc. \$2.6 million under

*Total Construction \$4.7 million over

Headquarter Labor \$8.8 million over

Manpower requirements greater than forecast, and October's Bill paid on schedule.

HQ NSSS/PGCC \$1.6 million under

Realization of negotiated credits

Headquarter P.O.'s \$2.6 million under

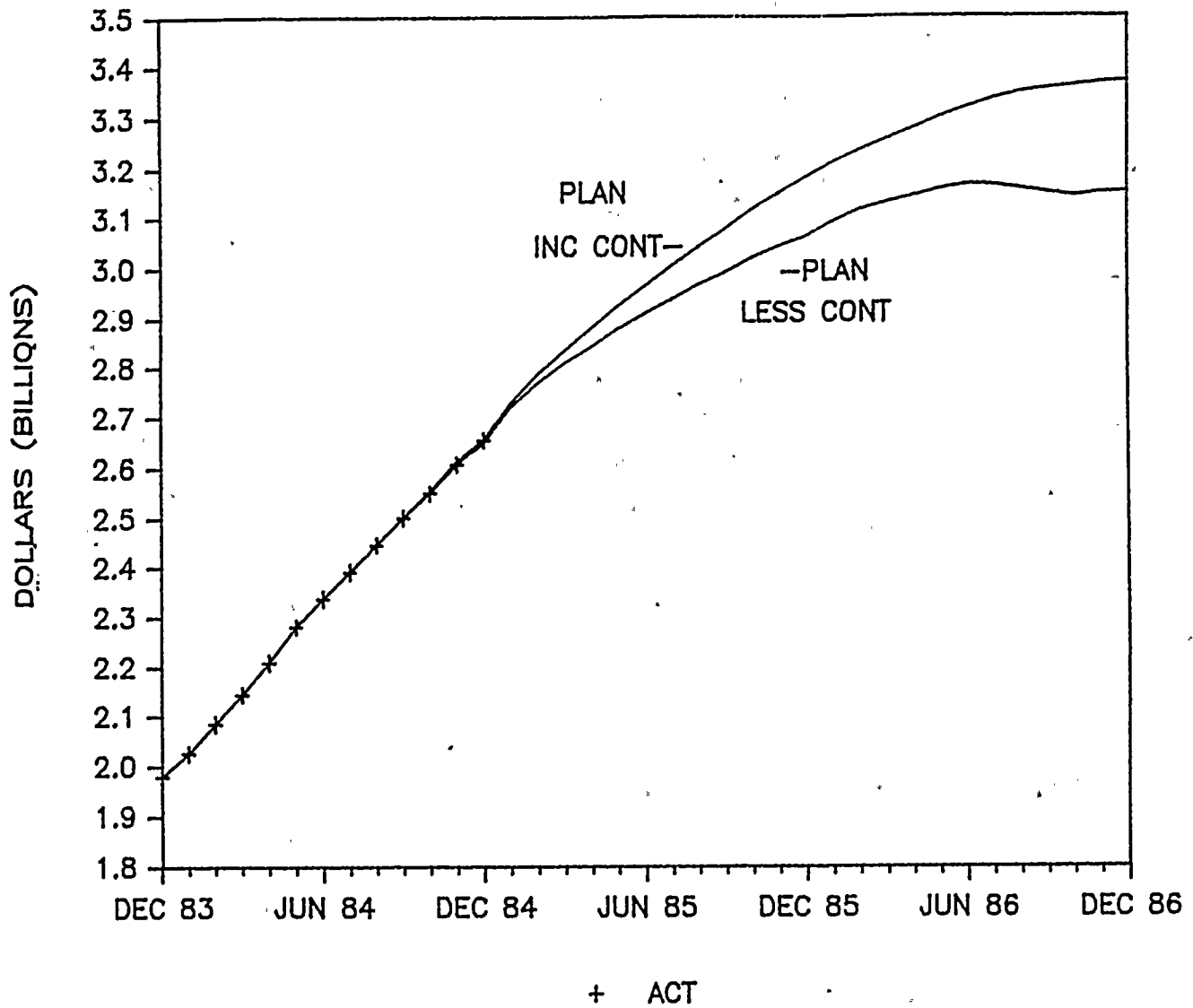
*Total Headqrtrs. \$4.6 million over

*Client Cost \$.6 million over

*Contingency \$3.4 million under

TOTAL PROJECT \$6.5 million over

PROJECT FORECAST



##13-Dec-84 ##

##COST COMMITMENT STATUS REPORT-NOV.84##

DESCRIPTION	8/15/80 ESTIMATE		1/1/83 ESTIMATE	4/84 REVISED ESTIMATE	11/84 CONTRACT COMMITMENT	11/84 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	\$237,127	\$6,710	\$240,832
b. ITT GRINNELL	\$126,732	\$144,391	\$223,574	\$252,538	\$240,347	\$242,136	\$10,402	\$256,758
c. L K CONSTOCK	\$58,619	\$61,281	\$75,990	\$152,432	\$152,432	\$121,241	\$31,191	\$147,405
d. JOHNSON CONTROLS	\$13,136	\$14,878	\$21,423	\$32,052	\$32,051	\$21,257	\$10,795	\$36,940
e. SCHNEIDER PMR	\$9,028	\$9,028	\$11,041	\$31,982	\$28,357	\$25,788	\$6,194	\$31,543
f. OTHER	\$284,152	\$292,068	\$315,671	\$340,898	\$304,016	\$277,333	\$63,565	\$338,034
2. SNEC LABOR	\$182,715	\$203,576	\$213,322	\$402,571	\$292,098	\$292,098	\$110,473	\$395,199
3. WORK. COMP. & INSUR.	\$35,650	\$35,650	\$37,612	\$23,992	\$22,511	\$22,511	\$1,481	\$29,636
4. FIELD P.O.'s & UTIL.	\$113,215	\$121,757	\$142,413	\$238,430	\$198,468	\$194,254	\$44,176	\$232,786
SUBTOTAL	\$999,508	\$1,062,544	\$1,233,501	\$1,718,732	\$1,514,117	\$1,433,745	\$284,987	\$1,709,133
B. HEADQUARTERS								
1. HQ SERVICES	\$382,891	\$388,231	\$415,184	\$571,305	\$519,231	\$519,231	\$52,074	\$571,018
2. PQA SERVICES	\$25,002	\$25,002	\$33,361	\$36,349	\$32,206	\$32,206	\$4,143	\$36,644
3. CHOC P.O.'S								
a. NSSS & PGCC	\$145,934	\$145,934	\$120,018	\$222,747	\$504,609	\$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	\$251,092	\$37,962	\$288,254
SUBTOTAL	\$820,603	\$831,281	\$859,321	\$1,155,770	\$1,056,046	\$1,001,888	\$153,882	\$1,151,378
C. CLIENT COST (1)	\$234,889	\$234,889	\$222,978	\$290,498	\$180,229	\$180,229	\$110,269	\$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	\$2,750,392	\$2,615,862	\$754,138	\$3,370,000

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

NOTE: ALL DOLLARS ARE IN THOUSANDS

*** NOTE: This report is an extraction of various Stone & Webster reports

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 has been provided to the Cotenants.

Contingency Management Program

The Project is currently reviewing the cash requirement to complete. As a part of this evaluation, the contingency will be assessed. The results will be provided in this section at the conclusion of this assessment.

X. RECORDS/INFORMATION MANAGEMENT

A. Progress made during the last month:

1. The review has been completed on 1850 ITT CAT II Hanger Packages and approximately 1400 have been turned over to the NMP2 Record Acceptance Center.
2. Record status activities have been completed per the current component lists for the following BIPs' 15.001, 15.002, 14.001, 14.002, 72.001 - 72.0010, 72.B01 - 72.B16, 10B01, 22.B01, 22.A01, 10.C01, 4.004 and 4.003. Anticipated changes will be required as component lists are redefined by Startup and Test.
3. Program Implementation - Status
 1. Site Document Control - procedures have been reviewed by Records Management and comments are being incorporated.
 2. FQC - QAD 17.1 has been approved on site and is currently awaiting approval by SWEC-QA Boston.
 3. ITT Grinnell - All five (5) Records Management Procedures have been approved and 48 Documentation Turnover Transmittals have been prepared to initiate turnover of backlogged documentation. Indexing conventions have been approved to support the review activities.
 4. JCI - Procedure QAS 18.01 has been approved and QAS 18.02 and 18.03 are in final review stages. Indexing conventions have been approved to support review activities.
 5. RCI - Procedures QAI 17.1 and 17.2 are in final approval cycle and are scheduled for issue on 12/21/84.
 6. NMPC-QA Projects - Program has been assessed and procedure revisions are being drafted.
 7. Startup and Test - Procedure SAP 104A and 104B have been approved. SAP 104E has been drafted and is scheduled for review by Records Management and Startup and Test.
4. Project Procedures PP 103, 104, 105, 106, 107, 108, 110, and 112 covering Records Management activities were issued on 11/20/84.
5. Records Management Personnel have been relocated to the Record Acceptance Center (RCA). The RAC is currently set up to process Category II & III documentation. Category I processing will commence when construction activities are complete.
6. The Preliminary Required Records List has been completed and distributed for review by Engineering, Licensing, Quality Assurance and Startup and Test.

7. The NMP2 Records Management Organization has successfully completed the activities in support of the 400,000 records milestone on the NMP2 Records Database.

B. Major Activities in Progress:

1. Methodology being developed for statusing procurement documentation in support of Startup and Test. Statusing in support of initial system turnovers began on 12/12/84.
2. Completion of the Record Acceptance Center and related equipment which include:
 - a. Roof on Vault
 - b. Fire Protection
 - c. Key Card Access
 - d. Vault Doors
 - e. HVAC

These activities are scheduled for completion by 1/18/85.

3. Review activities by the NMP2 Record Users Group in support of the issuance of the NMP2 Required Records List by 1/15/85.

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	<u>85%</u> Complete
*Total Turnover of SWEC Site Documents	<u>14%</u> Complete
Total Turnover of ALL SWEC Documents	<u>26%</u> Complete

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

Total Turnover of NMPC Syracuse Documents	<u>87%</u> Complete
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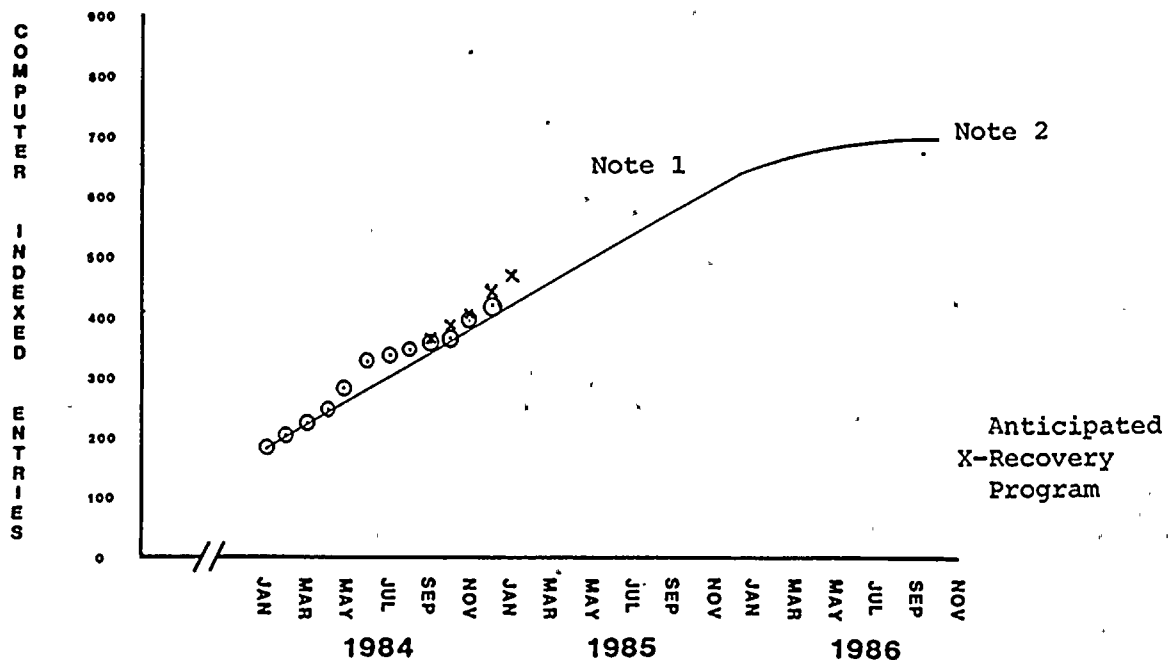
The total estimated percent complete of turnover documentation to the PPF 33% Complete.

*Estimates adjusted for CHOC and Site due to reallocation of record's source from Site to CHOC.

**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.

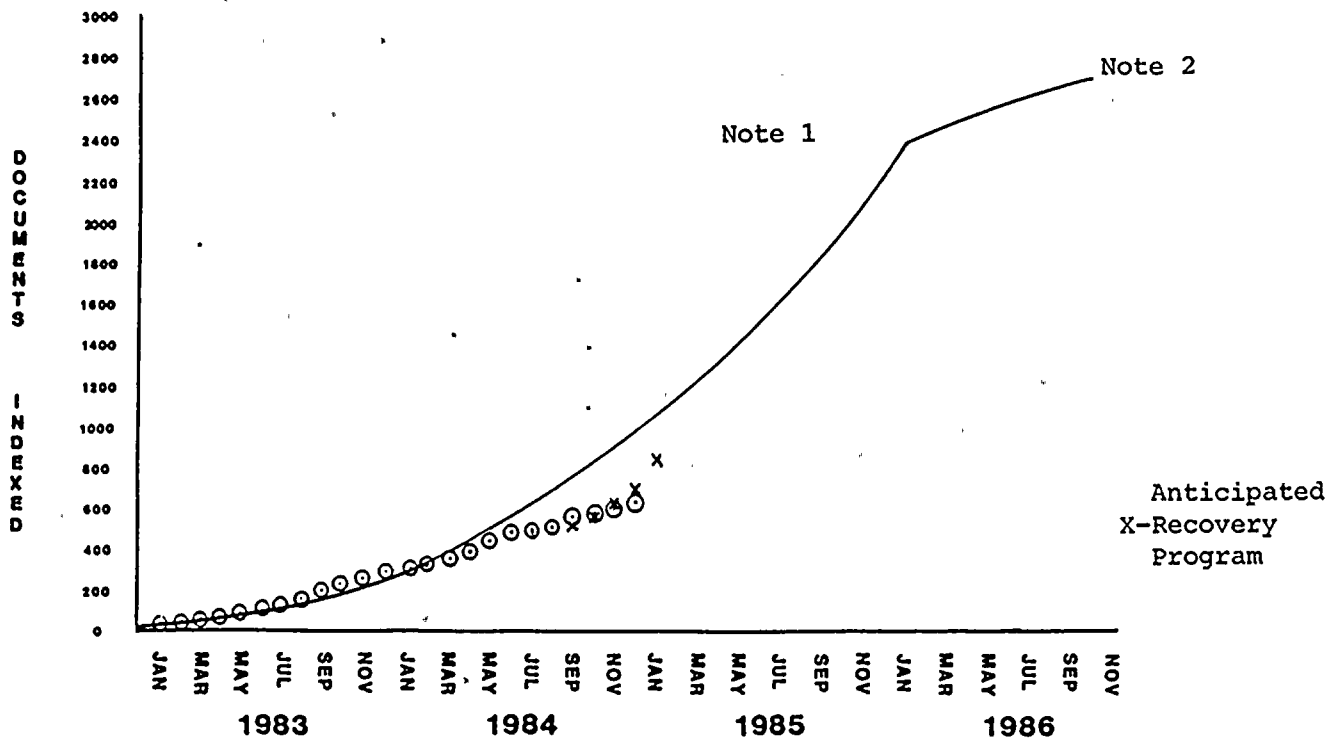
Activity	December	November	Total to Date	Percent Complete
Record Receipt and Preparation (Includes Aperture Cards	68,824 Pages	152,458 Pages	2,665,405 Pages	33%
Records Microfilming And Verification (Includes Aperture Cards)	59,835 Pages	136,953 Pages	2,271,614 Pages	28%
Computer Indexed Entries	23,283 Entries	10,530 Entries	409,523 Entries	63%
Records Indexing and Document Entry	27,714 Documents	10,872 Documents	623,872 Documents	26%

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)

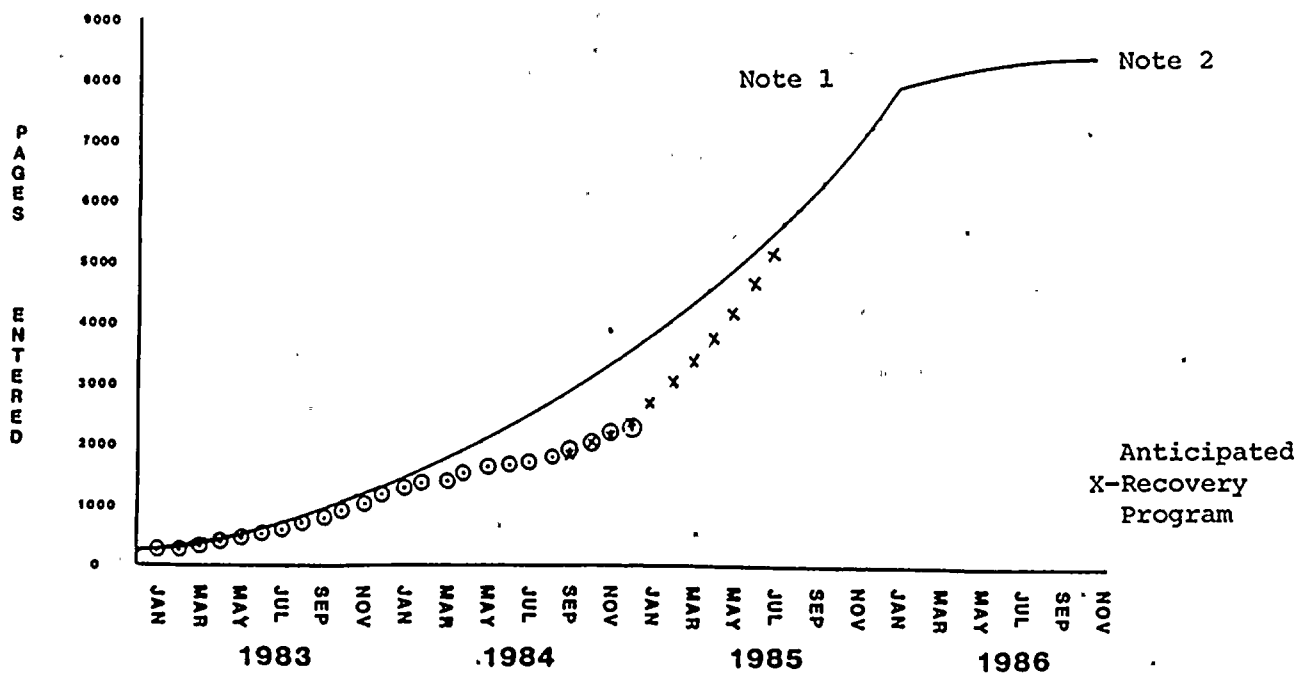
Note 1 - Fuel Load
Note 2 - Commercial Operation

PLANNED x —
ACTUAL ○



**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, 840 responses are complete, and the remaining ten open questions are confirmatory. Amendment 15 was 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 305 SER items are NMPC action complete.

C. 50.55(e) Reports

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

1. Velan Valves - PWHT (55(e)-84-22), Final Report.
2. Cable Separation in Free Air (55(e)-84-48), Interim Report.
3. Defective Wiring (55(e)-84-31), Final Report.
4. RCIC Turbine Steam Admission Line (55(e)-84-33), Final Report.
5. Min. Wall Violation-ITT Grinnell (55(e)-84-49), Interim Report.
6. Min. Wall Violation-JCI-Tubing (55(e)-84-50), Interim Report.
7. Rosemont Master Trip Units (55(e)-84-34), Final Report.
8. Non-blunt Stencils (55(e)-84-51), Interim Report.
9. Topaz inverters-(55(e)-84-52), Interim Report
10. Traceability of Spare Parts, (55(e)-84-53), Interim Report.
11. QA Witness Cable Terminations, (55(e)-84-45), Final Report.
12. Voltage Profile on Diesel Generator (55(e)-84-54), Interim Report.

D. 50.55(e)'s Identified

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

1. Diesel Generator Voltage Profile (55(e)-84-54)
2. Undersized Welds on Multifunction Support System (55(e)-84-55)

E. Inspection Reports

No Responses were required since no violations have been identified.

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..

G.

STATUS OF RESPONSES TO BRANCH TECHNICAL QUESTIONSNUMBER OF RESPONSESSCHEDULE FOR RESPONSE COMPLETIONTechnical
Question
AreasQuestions
Received

Completed

Outstanding

1985

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

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

NUMBER OF RESPONSES

SCHEDULE FOR RESPONSE COMPLETION

Technical
Question
Areas

Questions
Received

Completed

Outstanding

1985

STARTUP &
TEST 640

41

40

1

1

OTHER
100, 250, 251
252, 281, 311
450, 620, 630
730

61

60

TOTALS

850

840

10

10

2000000000

