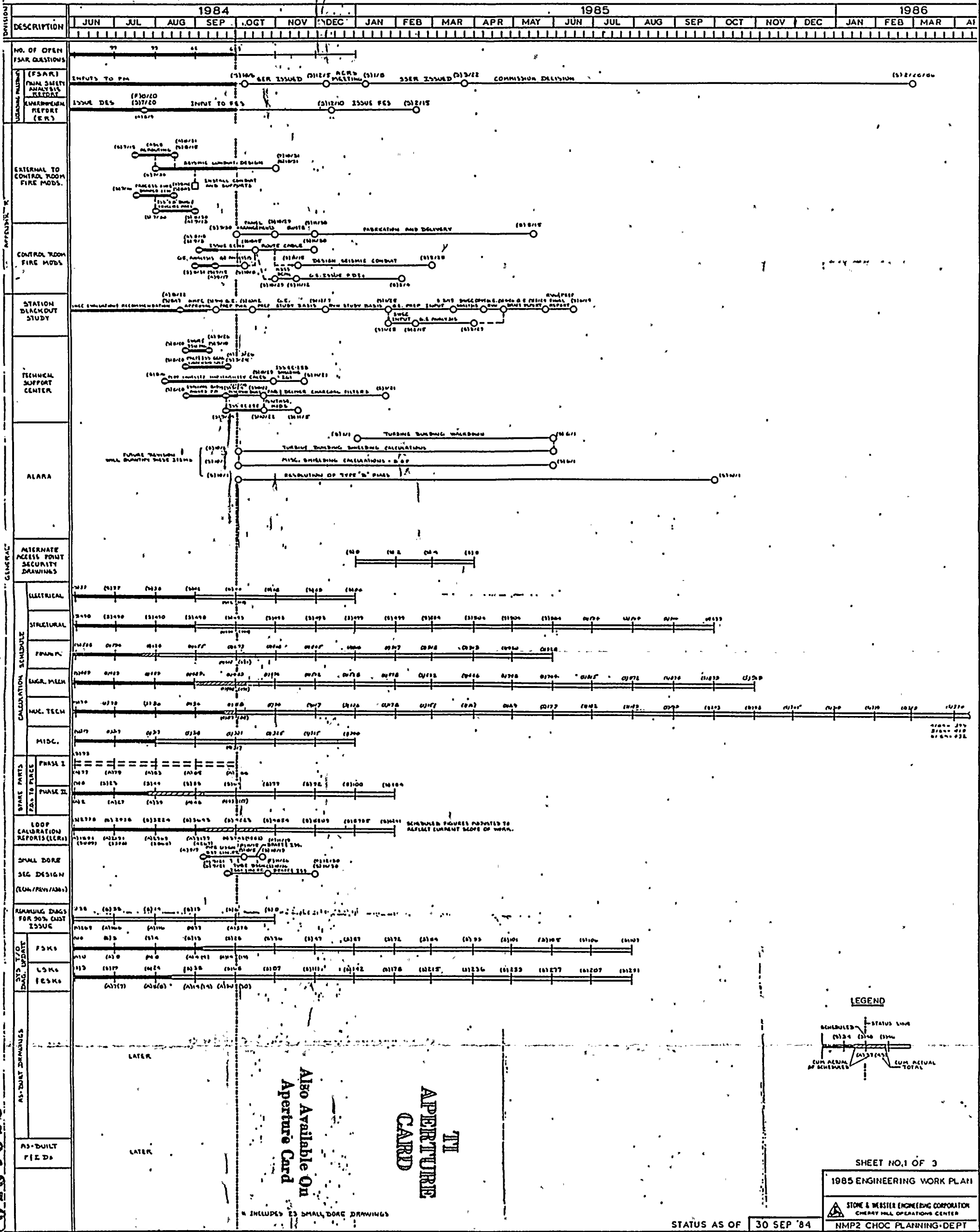
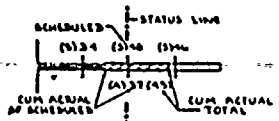


MONTHLY STATUS OF 1985 ENGINEERING WORK PLAN



LEGEND



SHEET NO.1 OF 3

1985 ENGINEERING WORK PLAN

STONE & WEBSTER ENGINEERING CORPORATION
CHERRY HILL OPERATIONS CENTER

NMP2 CHOC PLANNING DEPT

STATUS AS OF 30 SEP '84

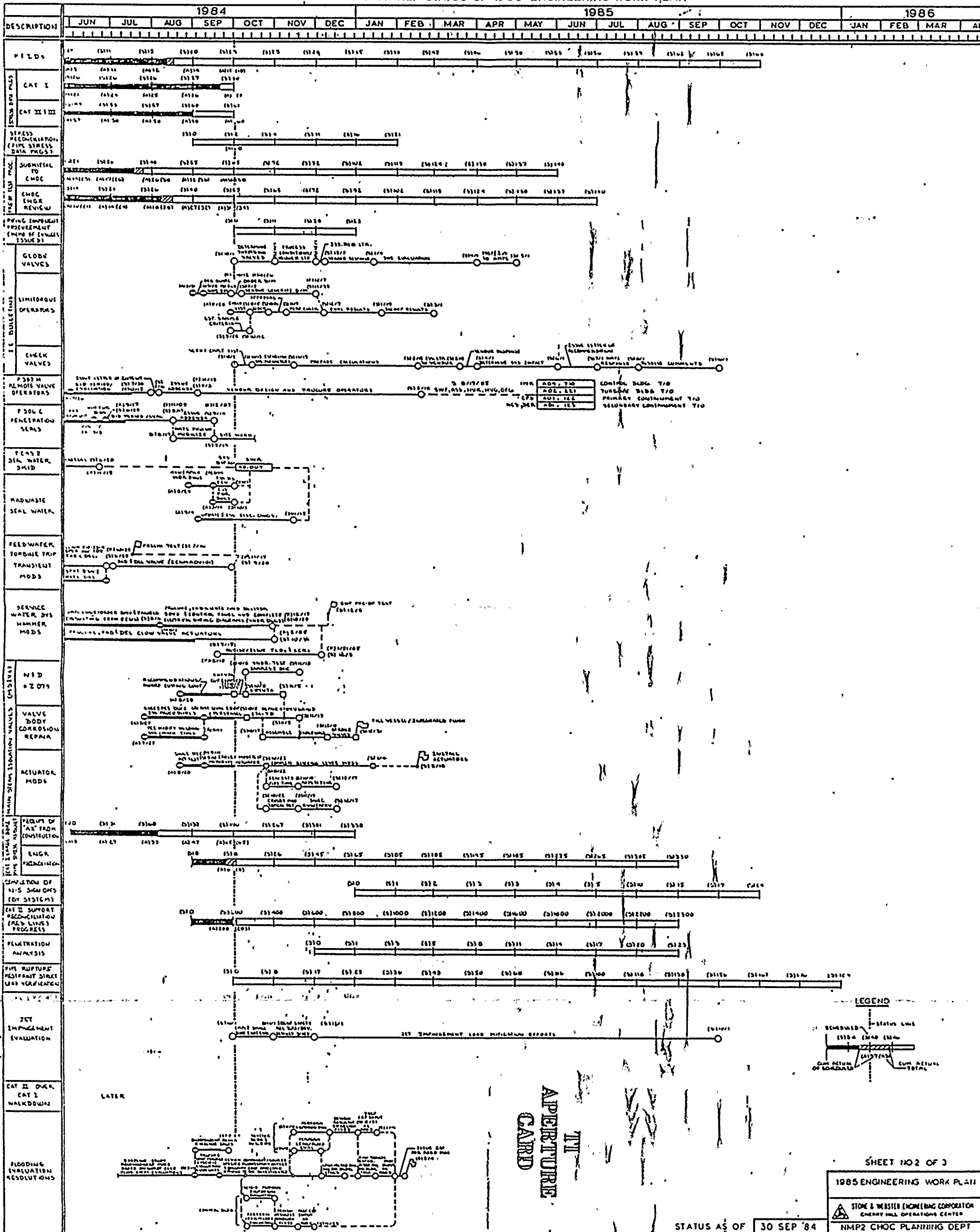
Also Available On
Aperture Card
APERTURE
CARD

INCLUDES 23 SMALL DORE DRAWINGS

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MONTHLY STATUS OF 1985 ENGINEERING WORK PLAN



SHEET NO 2 OF 3

1985 ENGINEERING WORK PLAN

STONE & WEBSTER ENGINEERING CORPORATION

CHERRY HILL OPERATIONS CENTER

NMP2 CHOC PLANNING DEPT

STATUS AS OF 30 SEP '84

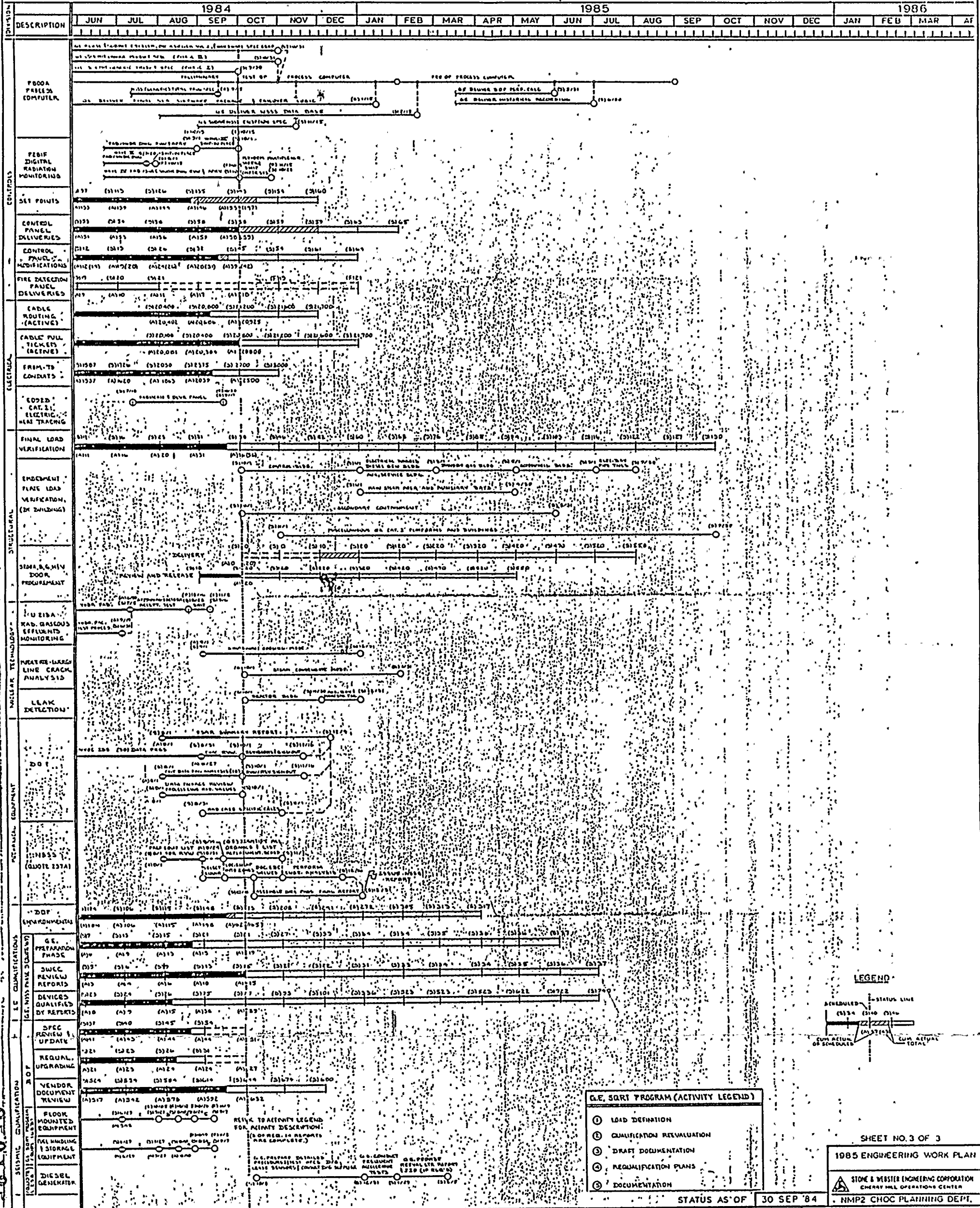
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MONTHLY STATUS OF 1985 ENGINEERING WORK PLAN



Also Available On
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IN
SOUTHERN
CALIFORNIA

2. As-Builts Stress Reconciliation

As seen an attachment III, receipt of AX as-built packages from Construction is behind schedule. Of 190 packages to be submitted, 65 had been received by the end of September, 1984. In accordance with the workaround plan, an additional 20 packages near completion are being processed to minimize impact to the Engineering reconciliation schedule.

A detailed schedule consistent with the integrated flush schedule is currently being developed by the planning organization to provide an as-built package submittal schedule. This schedule will be available by the end of October 1984, and development of Engineering's reconciliation schedule will be complete in mid-November 1984.

3. Equipment Qualification

Although 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.

4. From/To Conduit Designs

This effort is behind schedule as of September 30, 1984. The slippage was due to the priority of ACN incorporation by SEG personnel to meet the NRC commitment and a shifting of manpower to the team supporting LKC's cable pulling effort. Completion of the entire effort is presently scheduled for the end of January 1985.

5. Fire Detection Panels

The work remaining includes fabrication and delivery of two local fire panels and the fire computer. Delivery of the last panel on this order is scheduled for November 15, 1984. The Startup and Test group is presently developing a milestone schedule for testing the fire protection and detection systems.

6. Main Steam Isolation Valves

The contractor mobilized on site to begin the cutting operation for the application of the corrosion resistant overlay on October 8, 1984. Two valves have had the rough machining complete and the welding was begun on one valve. Work is expected in be complete in support of testing requirements.

7. Pre-Op Test Procedures

The issuance by NMPC of Pre-op test procedure drafts for review is behind schedule; 36 have been received at CHOC versus 65 scheduled for the end of September 1984. This has been mainly due to recent reorganizations and shifting of manpower. Thirty-four out of 36 drafts submitted to CHOC were reviewed and returned as of the end of September 1984.

The pre-op test procedure draft due dates are being revised by NMPC and a new schedule will be included in the October status of the Engineering Work Plan.

C. Drawing Schedule

As of September 30, 1984, 34 drawings were required for construction. They consist of the following:

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

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

13 - Berm drawings rescheduled for October 1984 due to delay in PMP criteria.

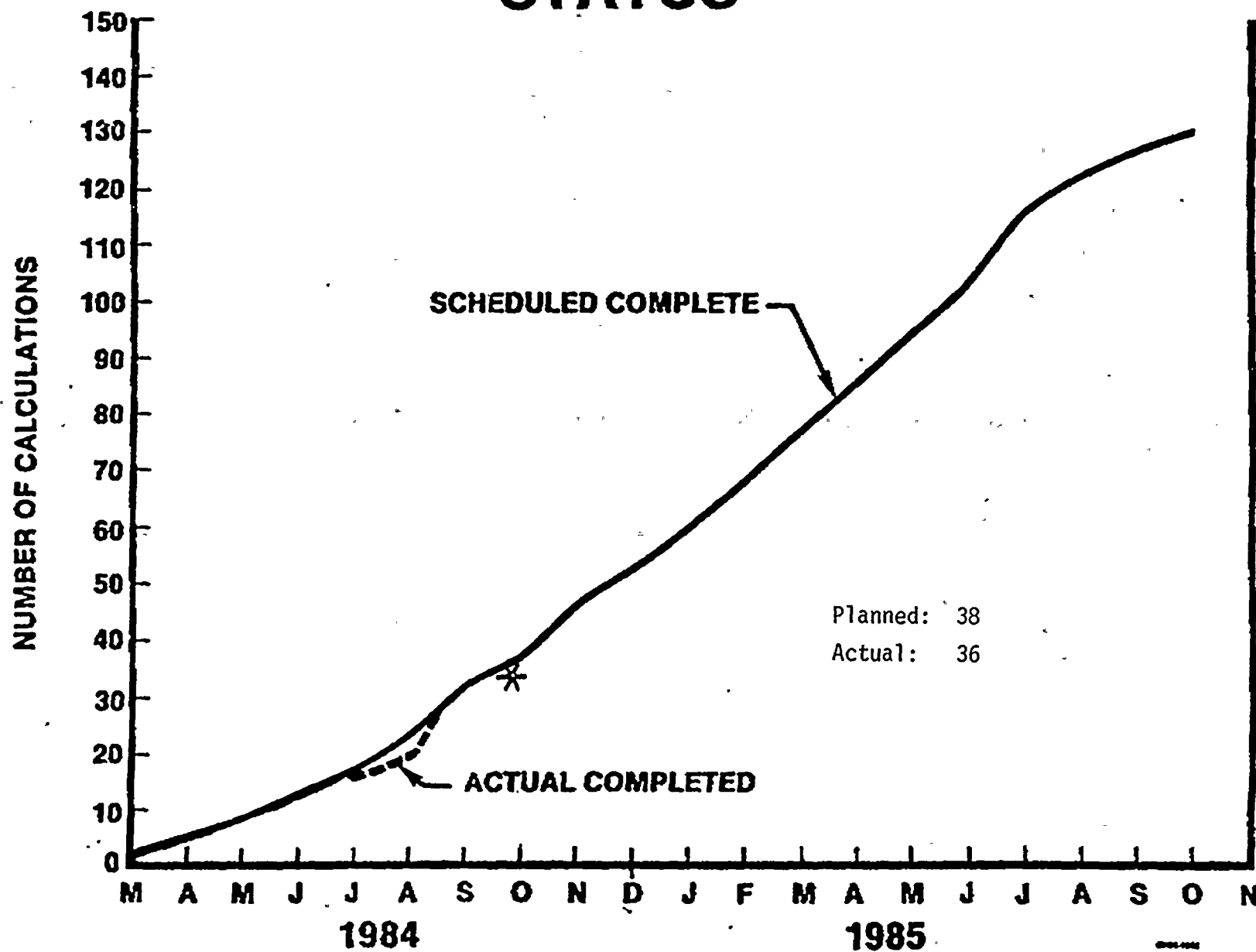
D. Staffing

The accelerated destaffing of the Engineering and Design staff has been completed. CEP's are currently being evaluated to assess future manpower requirements. See Section V for the Engineering staffing curves.

E. Other Activities

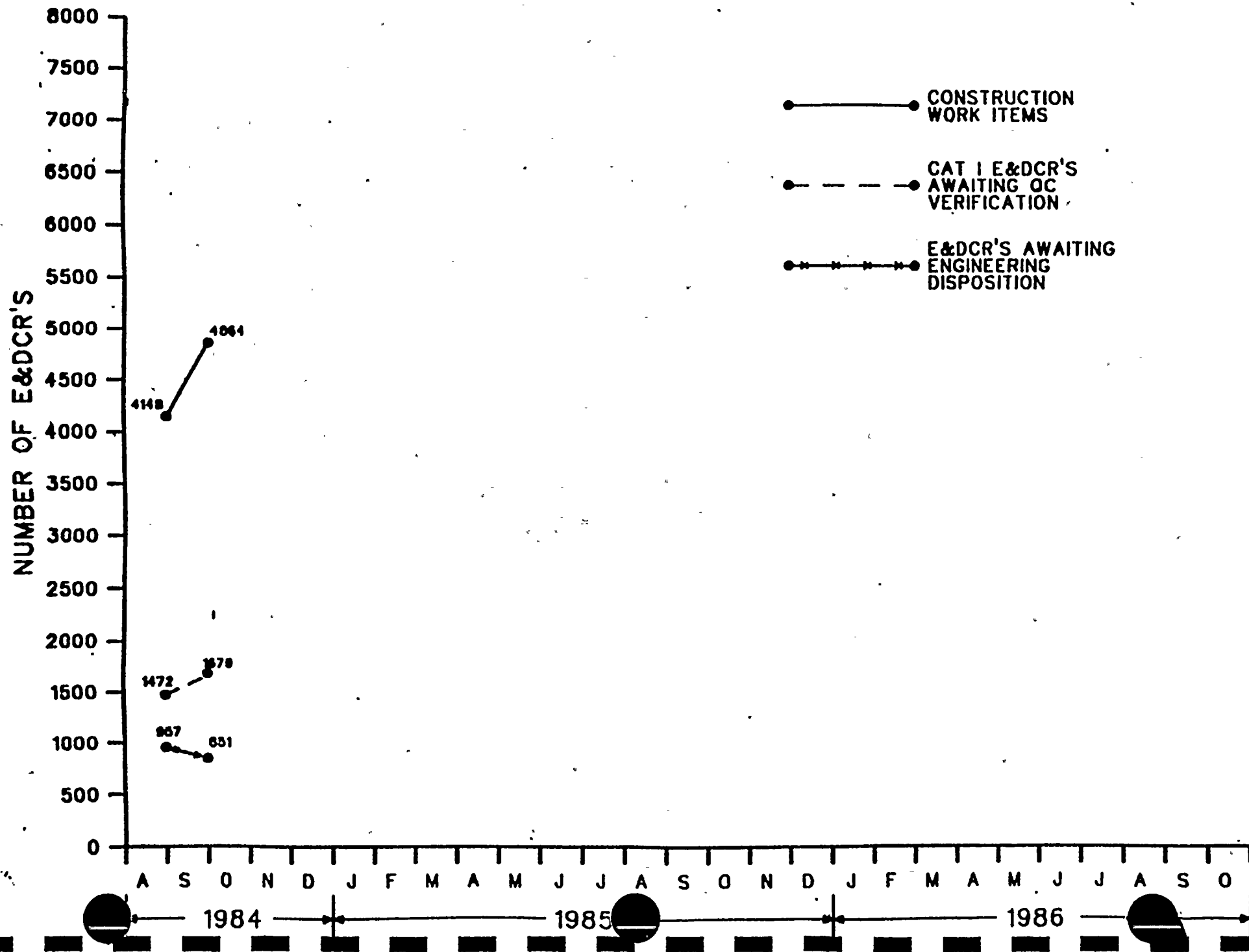
Status of E&DCR's dispositioned by Engineering is illustrated on the following graph. Although the backlog of E&DCR's has been reduced, this area will continue to be monitored closely.

STRUCTURAL FINAL LOAD VERIFICATION STATUS

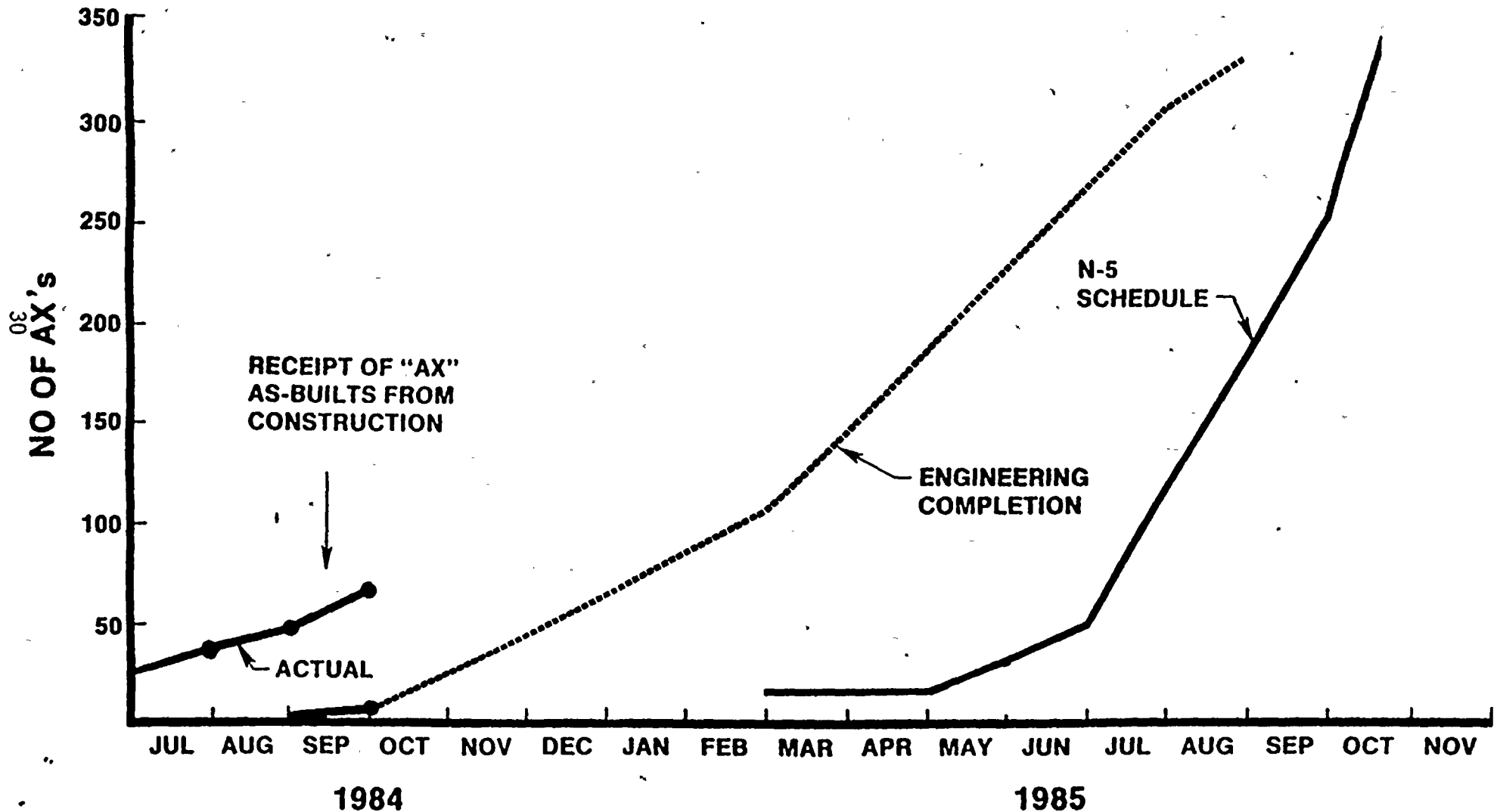


E&DCR STATUS

ATTACHMENT II



STRESS RECONCILIATION SCHEDULE



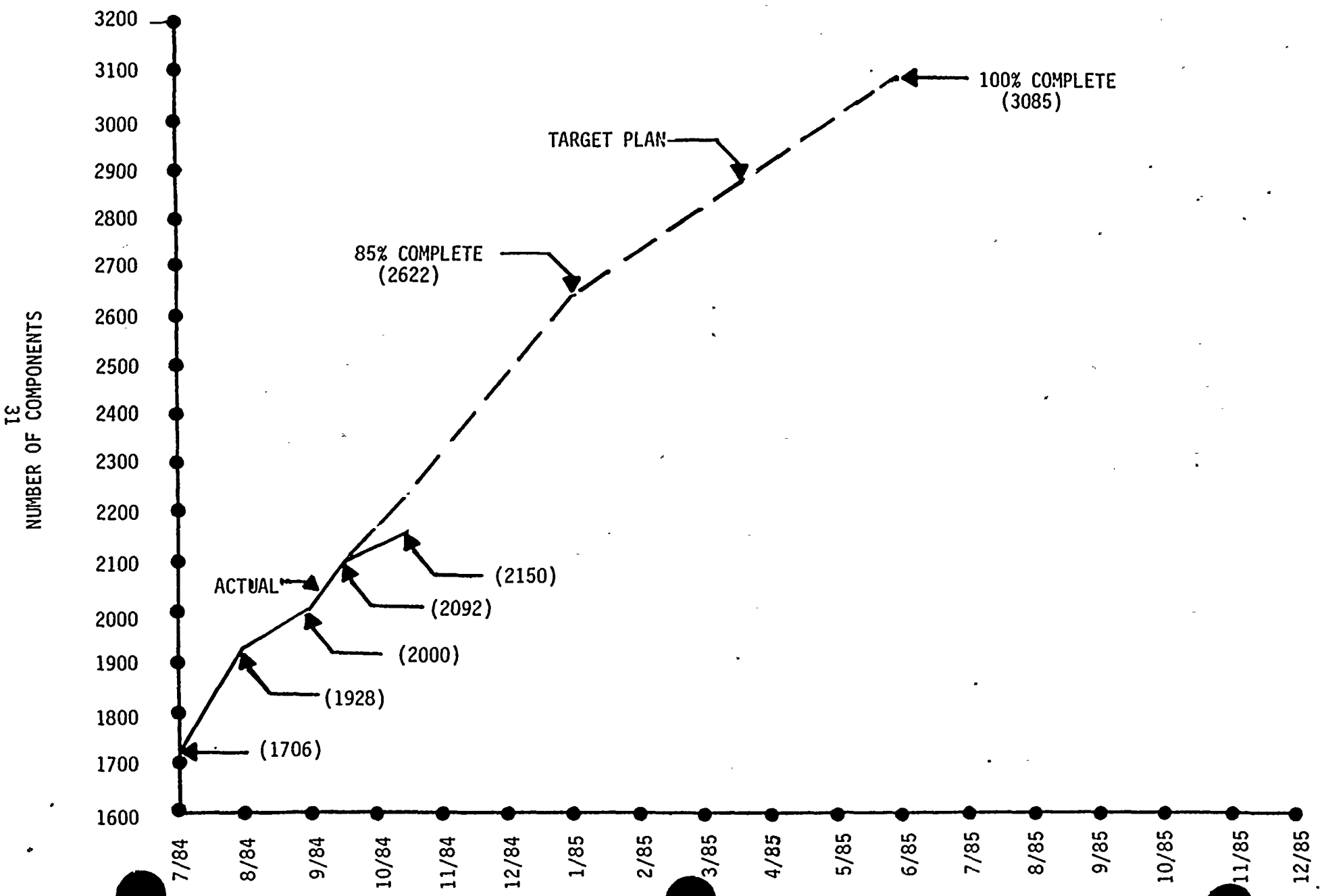
NOTE: Planned is currently being revised and will be provided in next months report.

NUMBER OF COMPONENTS

EQUIPMENT QUALIFICATION
COMPLETION PROJECTION

Attachment IV

— TARGET PLAN
— ACTUAL



V. WORKFORCE LEVELS

The Site Staffing is shown on the following table and presented on a weekly basis on the following graphs. Additionally, a table has been added which displays the SWEC Non-Manual Staffing regardless of location.

SWEC Construction expended 184,447 manhours in October as compared to 191,340 manhours scheduled. CHOC expended 228,060 manhours in August (October payment) compared to 196,021 manhours scheduled.

OCTOBER SITE 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	1333	1396	1063	1037 ⁽¹⁾	2396	2433
Walsh	547	653	37	35	584	688
LKComstock	731	736	100	100	831	836
ITT Grinnell	988	941	404	439	1392	1380
SMS	92	110	5	5	97	115
JCI	272	251	110	103	382	354
Schneider	150	147	19	20	169	167
Painting	<u>110</u>	<u>0</u>	<u>9</u>	<u>0</u>	<u>119</u>	<u>0</u>
Subtotal	4223	4234	1747	1739	5970	5973
 <u>Hard Money</u>						
A11		210		44		254
GE /NSSS				72		72
NPMP				565 ⁽²⁾		565 ⁽²⁾
 TOTAL		4444		2420		6864

Note:

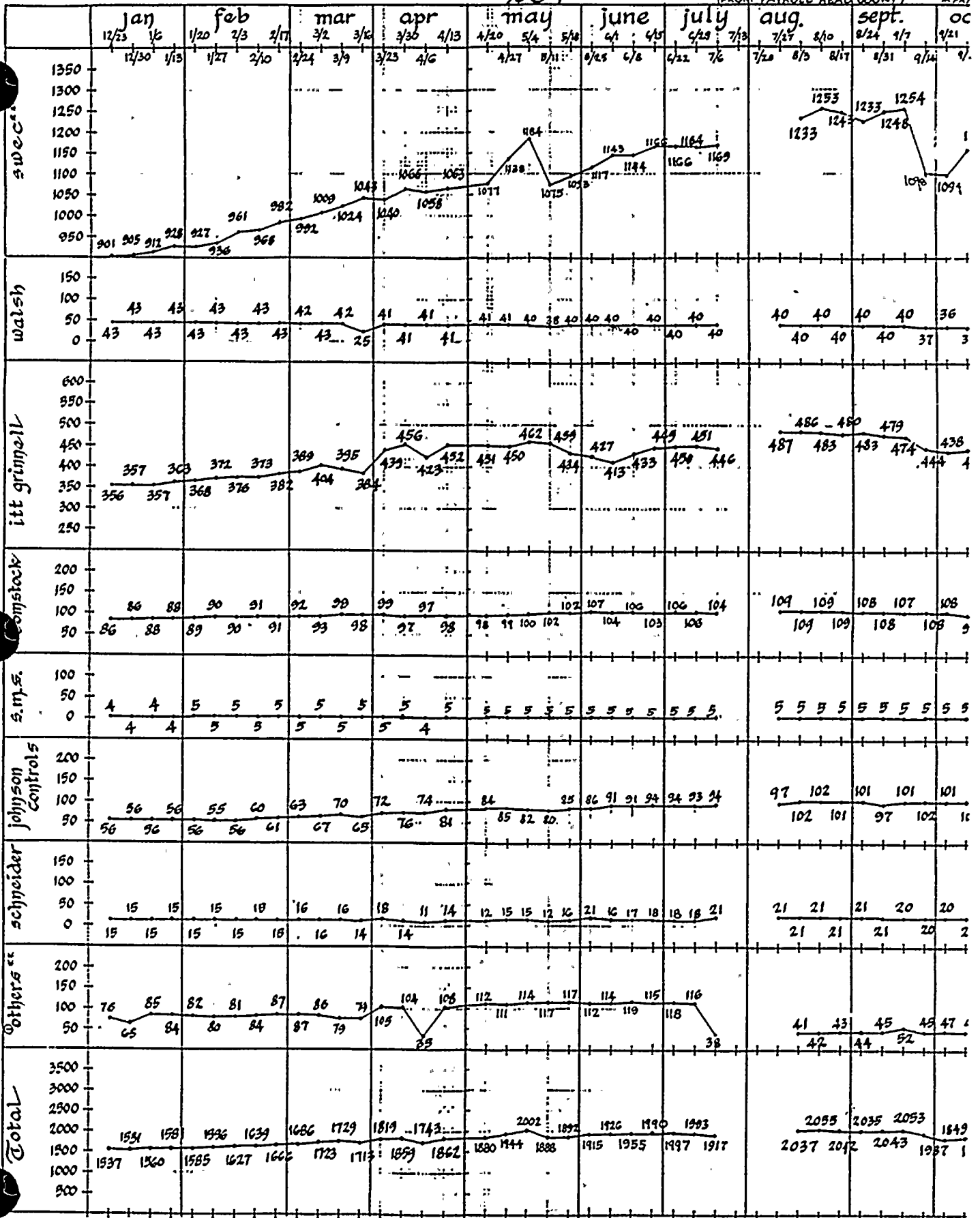
(1) Excludes CHOC paid site assigned personnel.

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

1984

Nonmanual Manpower (u)

(FROM PAYROLL HEAD COUNT)



Includes WILTSIE 12-23-83 to 3-30-84

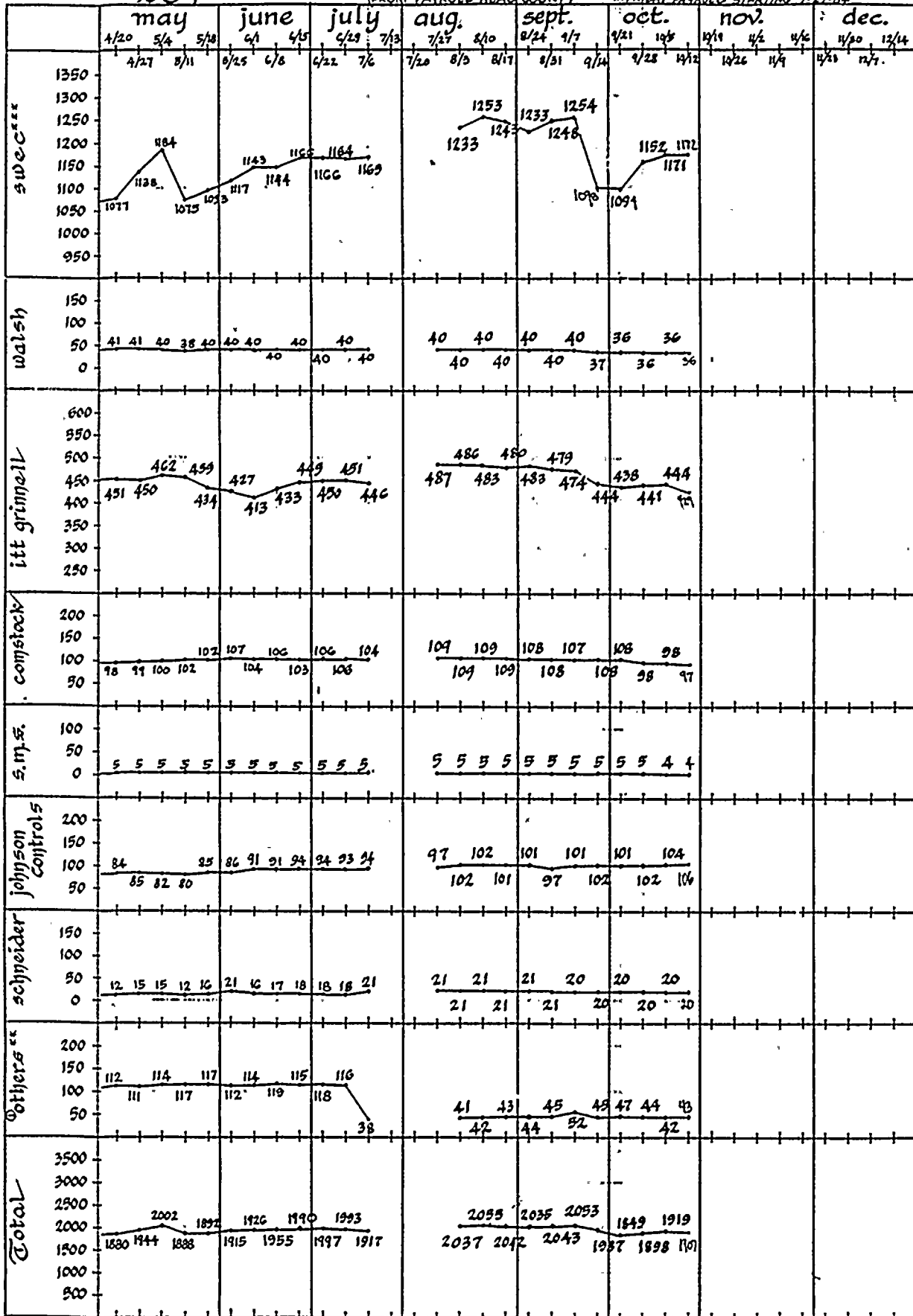
Note: 7/13 and 7/20 INFORMATION NOT AVAILABLE
 ** GE/NSGS NOT INCLUDED (STARTING 7/6/84) and NORTHERN READY M
 *** EXCLUDES SSG CHOC ONLY (START 8-8-84)

1984

Nonmanual Manpower (weekly*)

(FROM PAYROLL HEAD COUNT)

* FRIDAY PAYROLL STARTING 7-27-84

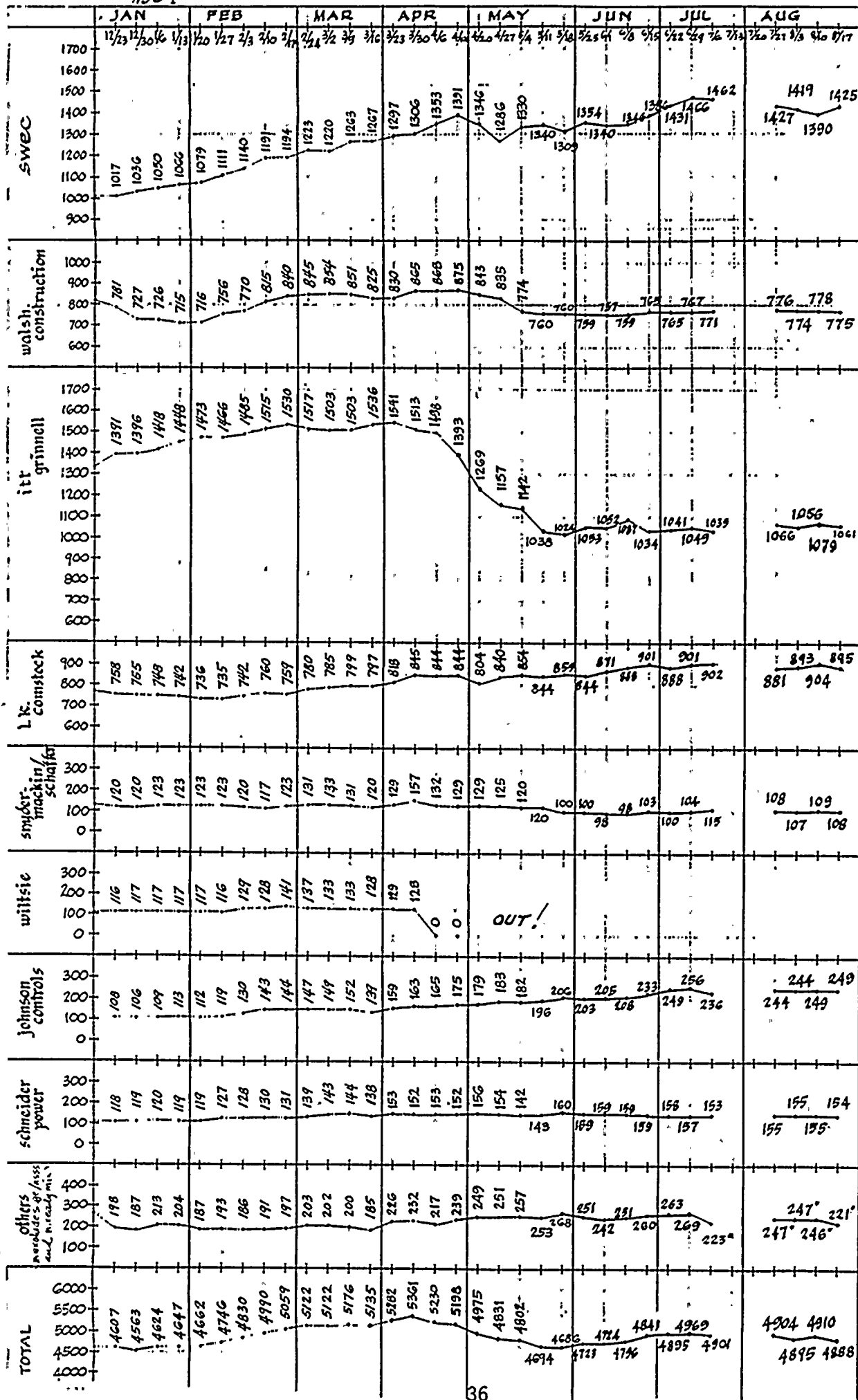


Note:

7/13 and 7/20 INFORMATION NOT AVAILABLE
 ** GE/NSSS NOT INCLUDED (STARTING 7/6/84) AND NORTHERN READY MIX as of 9-28-84
 *** EXCLUDES SEG CHOC ONLY (START 8-8-84)

Manual Manpower (weekly payroll head count)

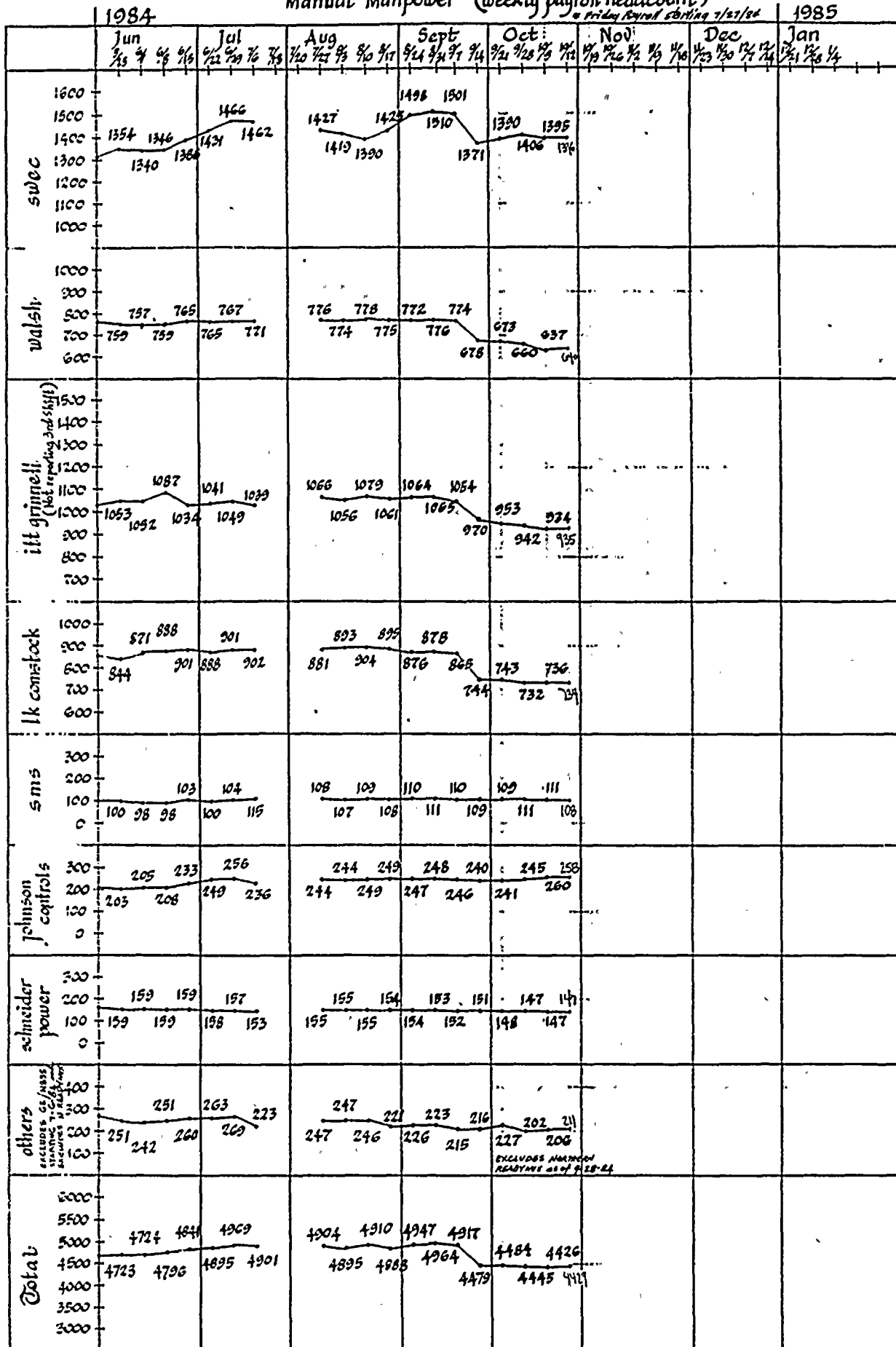
1984



NOTE: 7/13 and 7/20 INFORMATION NOT AVAILABLE

Manual Manpower (weekly payroll headcount)

Friday Payroll starting 7/27/84



NOTE:
7/15 thru 7/20 INFO NOT AVAILABLE

October 1984

Page 1 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>MANAGEMENT</u>	0	1	1	0	17	17	0	18	18
<u>PROJECT CONTROLS</u>	0	16	16	2	51	53	2	67	69
Planning	0	10	10	1	32	33	1	42	43
Management Systems				0	4	4	0	4	4
Cost	0	6	6	1	15	16	1	21	22
<u>SITE ENGINEERING</u>				7	443	450	7	443	450
<u>ADVISORY OPERATIONS</u>	0	39	39	9	133	142	9	172	181
PGCC				0	20	20	0	20	20
Startup & Test	0	39	39	9	113	122	0	152	161
<u>PROJECT ENGINEERING</u>	2	470	472				2	470	472
<u>CONSTRUCTION</u>				1	197	198	1	197	198
CCCP				0	7	7	0	7	7
Safety				0	9	9	0	9	9
System Turnover				0	32	32	0	32	32
Construction Groups				1	149	150	1	149	150

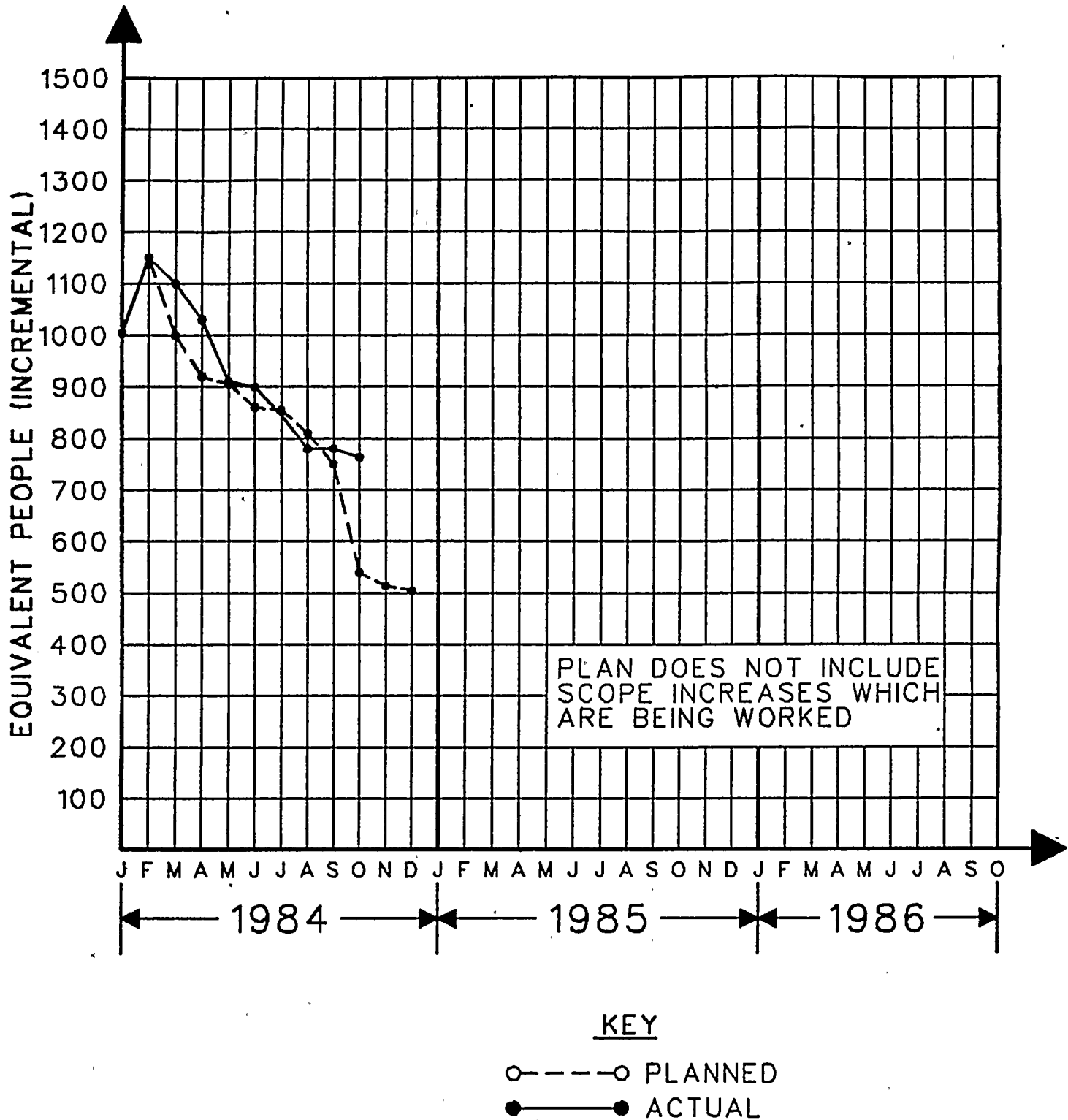
SWEC NON-NORMAL
TOTAL PROJECT

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>	1	51	52	25	237	262	26	288	314
Project Administration	0	1	1				0	1	1
Office Services				0	7	7	0	7	7
Project Records Admin.				2	18	20	2	18	20
Document Control	1	32	33	13	146	159	14	178	192
Systems Application				8	2	10	8	2	10
Data Processing				1	13	14	1	13	14
Accounting				0	24	24	0	24	24
Time Office				1	12	13	1	12	13
First Aid				0	8	8	0	8	8
CHOC System 38	0	18	18				0	18	18
Training				0	7	7	0	7	7
<u>CONTRACTS & MATERIALS</u>	0	6	6	0	62	62	0	68	68
Contracts				0	11	11	0	11	11
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	16	284	300	16	288	304
QA	0	4	4	0	25	25	0	29	29
QC				16	259	275	16	259	275
<u>LABOR RELATIONS/PERSONNEL</u>				1	7	8	1	7	8
<u>GRAND TOTAL</u>	3	587	590	61	1431	1492	64	2018	2082

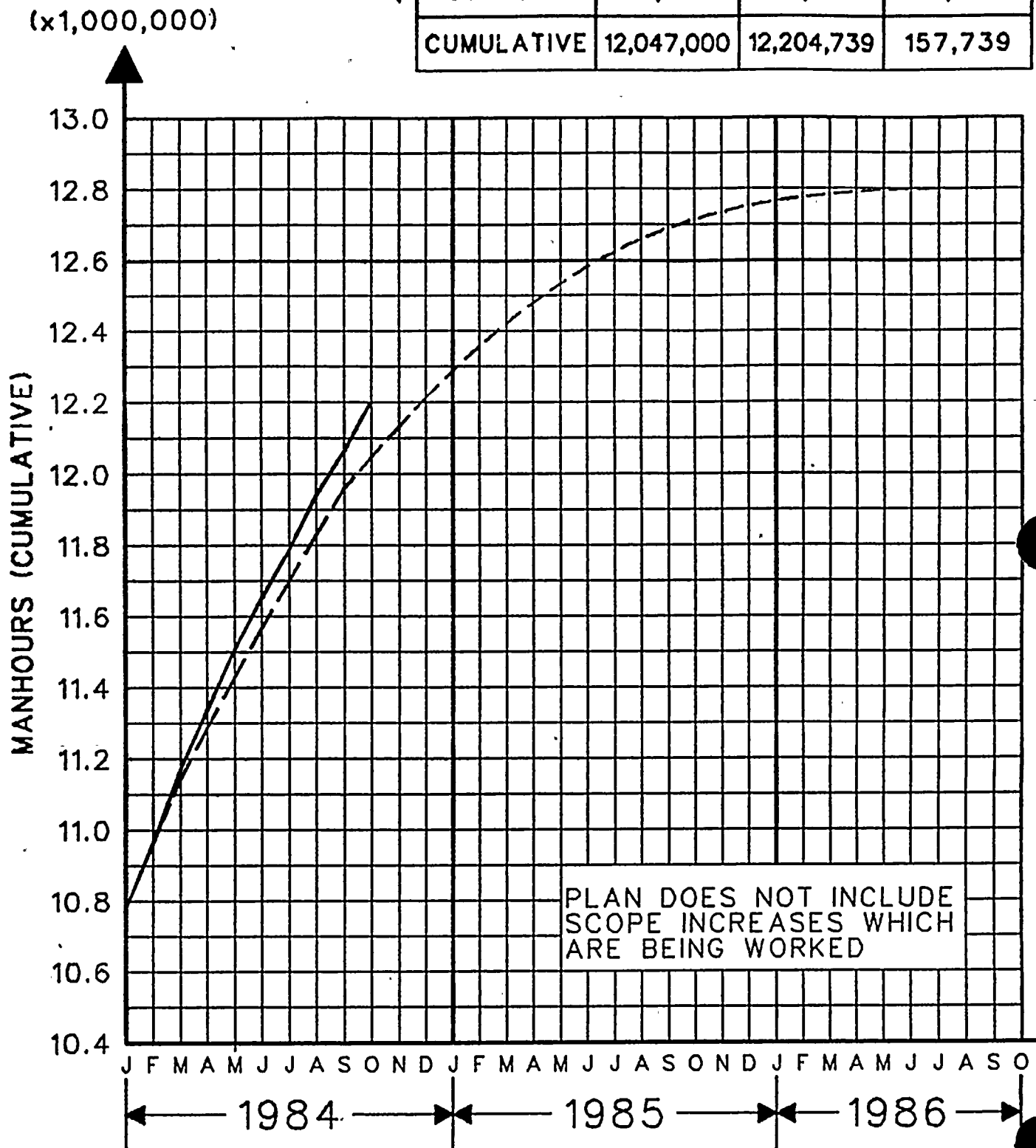
SWEC ENGINEERING AND DESIGN PERSONNEL (SEG + CHOC)

	PLANNED	ACTUAL	VARIANCE
OCTOBER	539	764	225



SWEC ENGINEERING AND DESIGN MANHOURS. (SEG + CHOC)

	PLANNED	ACTUAL	VARIANCE
★ OCTOBER	88,000	141,090	53,090
CUMULATIVE	12,047,000	12,204,739	157,739



NOTE:

★ OCTOBER ACTUALS PROJECTED.

41

KEY

○ --- ○ PLANNED
● ——— ● ACTUAL

VI. QUALITY ASSURANCE

A. QA-Projects Activities

Detail Assessments

The Assessment of Johnson Controls Inc. (JCI), Reactor Controls Inc. (RCI), ITT Grinnell, and Stone & Webster (SWEC) has been completed and the final reports issued summarizing the results. One Corrective Action Request (CAR) and four recommendations have been identified for JCI, ten CARs and fourteen recommendations for RCI, six CARs and eighteen recommendations for ITT Grinnell, and one CAR and fifteen recommendations identified for SWEC, with no CARs being initiated.

Surveillance

As of September 21, 1984, a total of 58 Surveillance Reports had been generated for reviewing completed and accepted safety related permanent plant items. The data obtained from those reports has been summarized, in regards to activity, contractor, and deficiency. To date, a problem has been identified in the area of ITT Grinnell installed pipe supports and SWEC/Comstock installed cable trays, in that items have been QC accepted that do not conform to all of the specifications/drawing requirements.

Some positive results of this activity is in regards to Field Raceway Supports and Nuclear Coating. A total of 228 supports were reviewed with one minor discrepancy being identified, which was later resolved by SWEC, and approx. 2000 ft.² of coatings was reviewed and found to be free of defects and discrepancies. As a result, NMPC QA does not plan to continue this effort for Field Raceway Supports and Nuclear Coatings, but will continue the effort in other areas.

Surveillance

Another 88 surveillances were performed during September 19, to October 19, 1984, involving approximately 1,062 attributes from approval checklists. From these surveillance activities the following number of deficiencies/discrepancies were identified:

	<u>HARDWARE</u>	<u>SOFTWARE</u>
SWEC	6	9
ITT Grinnell	2	1
JCI	0	0
RCI	2	2

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

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

CAR #84.0112 imposed a "Stop Further Processing Order" on RCI's activities involving General Electric's (GE) FDI-14-31263. Contrary to stated requirements, RCI failed to comply with their program requirements when performing work to GE FDI-14-31263 which requires the removal of insulation brackets and base pads from the reactor pressure vessels. RCI's program does not adequately describe the Quality Control activities being performed or required to assure adherence to the design instructions provided by GE FDI-14-31263 nor the corresponding SWEC E&DCR C18108.

CAR #84.0126 imposed a "Stop Further Processing Order" on ITT Grinnell's activities for threading rod. ITT Grinnell was threading rod in the Pipe Support Fabrication Shop at Nine Mile Point #2. The threaded rod was marked for pipe support BZ 72 AJ-1, ASME III, QA Cat. 1, Class 3. Currently, ITT Grinnell does not have a procedure for machining threads on bar stock or machining other items at the Nine Mile Point #2 Site, nor do they have an adequate inspection program to inspect or verify the threading of rod, to assure the requirements of ASME III Subsection NF are being met.

As of October 24, 1984, acceptable corrective actions have not been provided to allow resumption of the related activities. Therefore, both "Stop Further Processing Orders" remain in place.

Audits

An audit was performed of SWEC's procurement activities. Twelve Audit Finding Reports (AFRs) were issued resulting in the initiation of a Significant Deficiency Report.

The condition described on the Significant Deficiency Report was as follows:

"Audit RG-VR-N2-84007 identified significant problems with SWEC's Field Purchasing Functions. Among the more significant are:

1. Uncontrolled changes to procurement documents
2. Improperly attested certificates of conformance
3. Use of unapproved vendor for calibration of M&TE
4. Bypassing FQC review of requisition and purchase order
5. Grossly inadequate training

A Stop Work Order was recommended, but was not required due to the immediate corrective action taken by SWEC, as follows:

"The following SWEC action will be effected immediately to assure that subsequent procurement activities are adequately controlled:

1. Assign a QAE to review and approve all PR's/PO's prior to issuance
2. Provide immediate interm training (with special emphasis on use of Qualified Vendors, Classification of Safety Category, and Control of Changes) for procurement personnel. Develop and implement a training program. (reflective of all phases of Site Procurement Process and activities) for the personnel involved, eg; Procurement, SEG and QA/QC. Provide NMPC-QA Projects a training schedule, reflective of the developed training program with start and completion training dates and a matrix of personnel by organization and required Training Course Procedures."

Quality Trending

The Quality Trend Reports for the first 3 quarters of 1984, have been issued, reflecting the results obtained from Surveillance Reports, Corrective Action Requests, and Audit Finding Reports. When a negative trend is suspected a "Suspected Trend Investigation Report" (STIR) is issued to the Quality Engineering group, identifying the problem area. Quality Engineering then investigates the problem to determine if a negative trend does exist. To date, eighteen STIRs have been issued, twelve have been investigated resulting in the identification of two negative trends, for which Corrective Action Request have been issued. The remaining six STIRs are presently undergoing an investigation.

The NRC Resident Inspector held an informal exit meeting October 19, 1984. To date there were no violations identified but he did identify seven potentially unresolved/open items. These seven items are presently being investigated and addressed by NMPC and SWEC.

Further investigation into the "duplication of radiographs" is continuing by SWEC and ITT Grinnell. Since the initial identification of the problem, SWEC and ITT Grinnell have identified a second instance of duplication, bringing the total to two.

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	10	2	2	17
Unresolved:	18	22	7	6	53
Violations:	7	7	2	10	<u>26</u>
				TOTAL	96

The actual No. of Violations awaiting a response to be forwarded to the NRC is 8 (Blocks 3 & 4).

- 1- NRC Open Item, Unresolved Item, or Notice of Violation
- 2- Additional action required within MMPC 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

The Independent Assessment team has performed their review of completed CAT Action Plans (Phase I). The remaining 9 CAT Action Plans will be reviewed. As a result of the review performed as of September 17, nine Corrective Action Requests have been issued identifying deficiencies that had remained uncorrected. Seven of the Corrective Action Requests presently identify software deficiencies and two identify a hardware deficiency. One identified hardware deficiency will require a reinspection of all welds on the Enterprize System by RCI and may require a reinspection of all previous RCI Quality Control accept welds. The second hardware deficiency relates to the storage, protection, and control of material.

The review of NRC identified deficiencies (Phase II) is in progress. As a result of the review performed to date, four Corrective Action Requests have been issued identifying deficiencies/discrepancies. The four Corrective Actions presently identify software deficiencies.

The review of MPC identified deficiencies during January 1, 1981 through March 31, 1984 (Phase III) is in progress. The review consists of 216 items, 180 of which have been reviewed and are closed, eight are out of the scope of the review (CAT-II and Unit I), and the remaining are awaiting closure by MPC. As a result of this review to date, three Corrective Action Requests have been issued. Two of the Corrective Action Requests identify software deficiencies and one identifies a hardware deficiency.

The review of Contractor's deficiencies identified during January 1, 1981 through March 31, 1984, (Phase IV) is in progress. A sample of approximately 2,500 items has been selected for review, of which 2131 items have been reviewed and are closed, 200 items are presently being reviewed, and the remaining items have been assigned to individuals to commence the review. As a result of these actions 43 Corrective Action Requests have been issued. Of the 43 Corrective Action Requests, 17 identify software deficiencies and 26 identify hardware deficiencies. The final report for all four phases is scheduled for issue on December 18, 1984.

VII. CONTRACT ADMINISTRATION

A. Major Contract Issues

1. Large Steam Turbine Generator Spare & Renewal Parts Contract -

A revised draft contract document, incorporating comments from MPC Contract Administration and MPC System Law Department was submitted to General Electric on October 2, 1984. A response was requested from GE by October 24, 1984. A negotiation meeting, if necessary, should occur during the month of November.

2. GE Spare Parts Excess Inventory Sale - NSSS

A proposal was received from General Electric on October 11, 1984, offering an inventory of NSSS startup, test and operational spare parts at a substantial discount (35-50%). Effort is underway by all involved project groups to ensure that maximum advantage is taken of this offering by GE.

3. P800A - GE NSSS Contract Amendment No. 18

Amendment No. 18, incorporating the provisions of the negotiated settlement relating to contract extension and other matters, is currently being developed and formalized between MPC and

GE. It is anticipated that the final agreement will be signed by November 15, 1984. In the interim, both parties are operating in accordance with the basic agreements.

4. P800A - GE NSSS Contract - Cost Allocation

The cost allocation program remains a priority matter for Contract Administration resolution. Efforts continue to bring General Electric to the table in a joint team approach to mutually determine FDDR cost responsibility. MMPC continues to make invoice deductions representative of estimated "separation" costs with total deduction to date of \$5,600,838.00.

5. Startup and Test Services - RFQ

Three vendors were added to the list of bidders for this RFQ. As a result, the bid due date is being extended by two weeks beyond the original due date of October 23, 1984. This extension will not impact schedule.

6. P301N - ITT Grinnell Engineering Billing Issue

ITT Grinnell has notified SWEC/MMPC that their position on the resolution of the Engineering Billing Issue is not negotiable and they have suggested that the services of an independent arbitrator be solicited in resolving this dispute. The terms of the subject Purchase Order do not allow for arbitration. Currently MMPC Contract Administration and the law department are reviewing the issue of third party involvement.

7. Reactor Controls, Inc.

Reactor Controls has proposed conversion of their lump sum contract to cost reimbursable to accommodate impacts resulting from QA program enhancements imposed by MMPC/SWEC QA. RCI has agreed to implement the QA enhancements. MMPC/SWEC have committed to expeditiously pursue commercial resolution and to reimburse RCI for construction cost impacts in the interim.

B. Expediting

1. BALANCE OF PLANT (BOP):

The total number of CHOC purchase orders for permanent plant equipment is 339, of which 257 are completed. This represents 76% of the total purchase orders placed which are now complete as presently defined, excluding spare parts orders.

There is a total of eighty-two (82) open CHOC orders with deliveries projected through June 15, 1985. These orders are broken down into two (2) commercial categories:

On or ahead of purchase order commitment	20
Behind purchase order commitment	62

2. Schedule Impact:

Of the sixty-two (62) negative deliveries, forty-four (44) are considered to be impacting the Project schedule to various degrees. The construction completion and startup and test groups are in the process of defining the criticality of these deliveries to the project schedule. There are items on sixteen (16) purchase orders which have been identified as having deliveries which will create an impact to turnover for AOD testing.

3. Expediting Corrective Actions

Of the sixteen (16) most critical orders impacting turnover and test, expeditors have taken steps to improve all phases of vendor schedules during engineering, procurement, production and shipment. Regular shop visits are conducted by expeditors and MPMC Contract Administration to minimize the impact of these late deliveries to construction schedules.

4. Hanger Material Status:

Special expediting measures are being directed toward this effort since 259 BZ's have been identified by construction as short material required to complete the balance of plant. Expeditors have been assured that all required materials are on order at this time with either ITT Grinnell or NPS Industries.

a. P301N - ITT Grinnell: There is a total of seventy (70) shop orders open of which twenty-six (26) are designated as priority to complete hangers in the Primary Containment. The priority orders are projected for delivery through November 15, 1984. The estimated completion for the balance of non-priority orders is January 31, 1985.

b. P301R and Various FPO's - NPS Industries: A total of 958 pieces of large bore material have been ordered from this vendor through Bulk Order #2N issued October 1, 1984. As of October 17, 1984, 649 pieces have been shipped. The balance of 240 pieces on Bulk Order #1N are scheduled through October 31, 1984. The sixty-nine (69) new pieces on the second bulk order have a quoted lead time of four (4) to eight (8) weeks after release to shop for shipment, anticipated by year's end.

A total of 2,209 items of small bore materials and 252 special pipe clamps remain on order with shipping commitments now scheduled through December 15, 1984. NPS did complete and ship 1,894 small bore supports during the month of September, 1984.

One expeditor has been assigned full time to provide shop coverage on a weekly basis due to certain vendor commitments not being met.

5. Large and Small Bore Valves:

SWEC Engineering has requested quotations from various vendors totalling approximately 2,500 additional new valves. Of this total, 149 were identified as required for permanent plant and the remainder as Spare/Replacement valves. Thirty-five (35) of these 149 unique items have been TWX awarded by CHOC on seven (7) purchase orders. These additional valves bring the total on order for the Project to approximately 15,600 of which only about 5% are left to ship, the majority of which are small bore valves.

VIII. STARTUP AND TEST

A. General

Startup Administrative Procedures (SAP) have been drafted and Joint Test Group (JTG) review and approval is scheduled to begin on 10/29/84. These procedures will streamline and set policy for the Startup and Test Program.

B. Release for Testing Status

Of the 94 subBIP 'A' releases scheduled as of October 22, 1984, 80 have been accepted for Preliminary Testing. There are 2 additional subBIP 'A' releases which have been accepted as early releases. There are 14 subBIP 'A' releases overdue per the Project Schedule issued October 15, 1984. (See Attachment 1)

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, and Turbine Generator Lube Oil System. Electrical testing is 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.

VIII. STARTUP AND TEST (Cont'd)

F. Preop/Acceptance Testing Status

Startup and Test is preparing to begin an Acceptance Test for System 15 - Makeup Water Treating in mid-November, 1984.

E. 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) is being revised to streamline the efforts.
2. Release of Systems From Construction: Startup and Test is working with Turnover to determine which releases are priority for testing. The releases are not being accomplished in a timely manner due to procedural and programmatic problems. A majority of these problems are being addressed by the new SAP's.
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: Effective October 4, 1984 the Wednesday Startup meeting was cancelled and replaced with the Plan of the Day (POD) meeting. The purpose of this meeting is to direct and coordinate activities required to support the Startup & Test Schedule. Problems and restraints that hamper testing will be the focus and action items assigned. The organizations involved in the POD are Engineering, Construction, System Turnover, QA, FQC, and Nuclear, Operations, and Materials.

E. 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
94	80	2	82

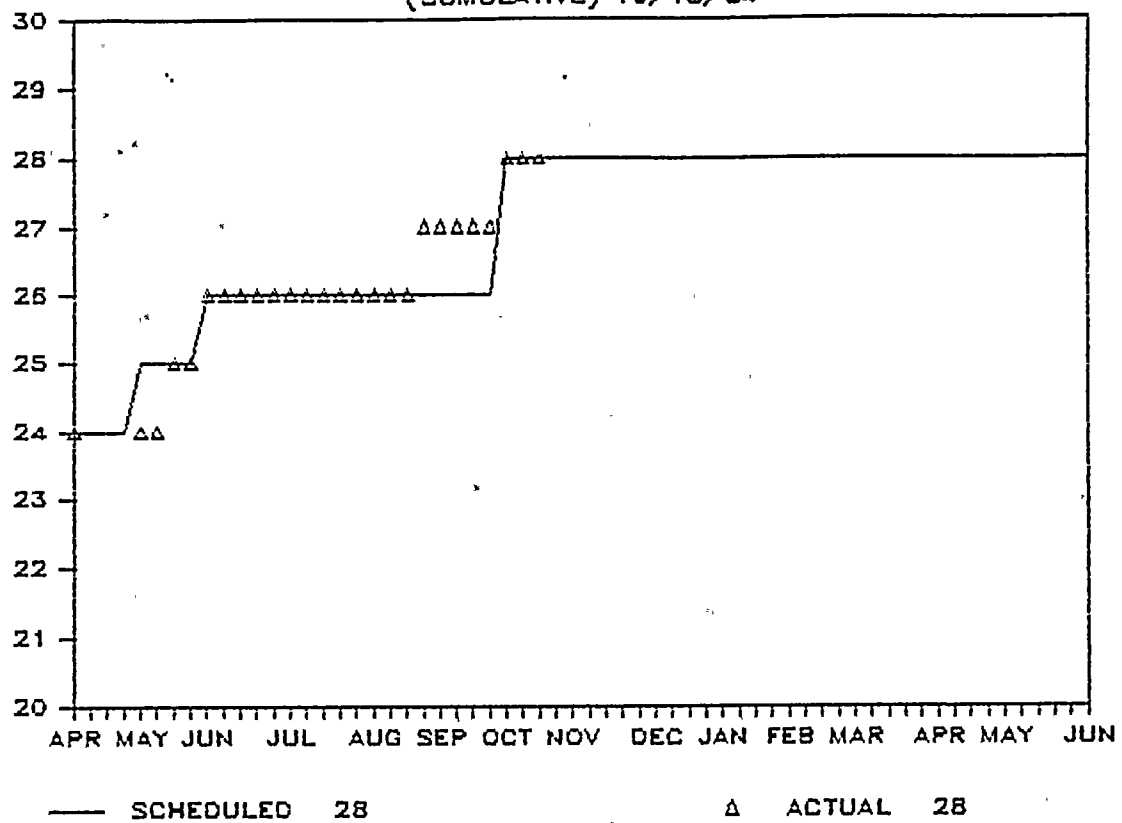
Late Per Scheduel: 14

'B' Component Releases

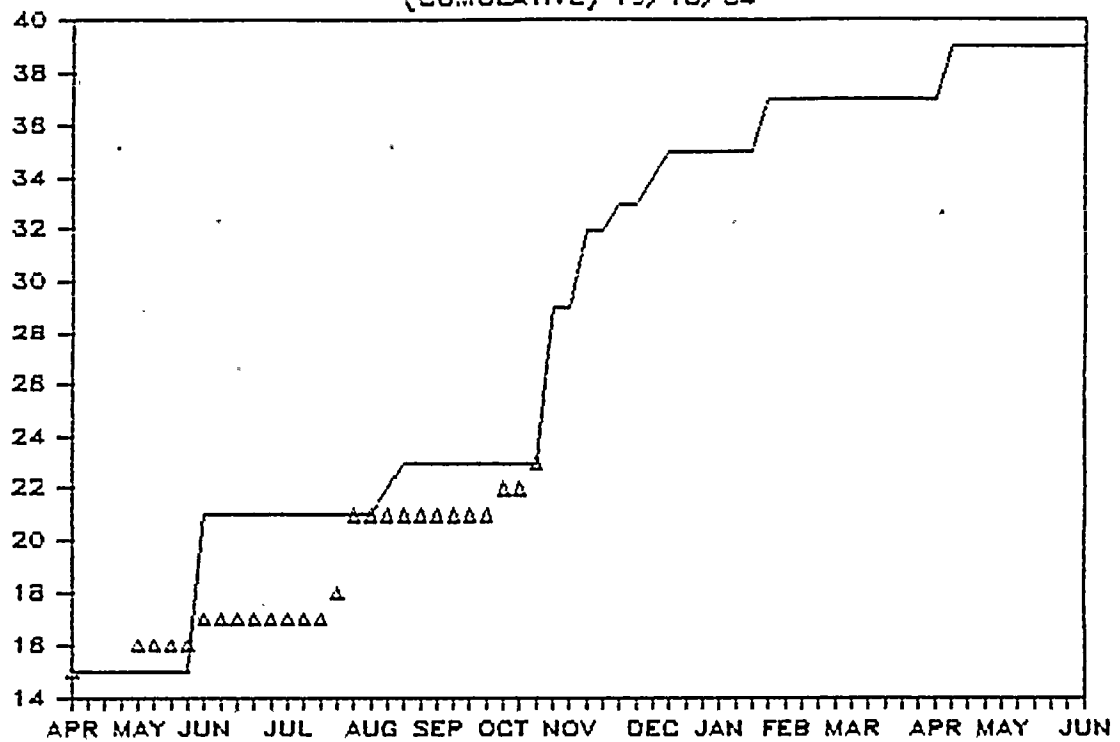
Schedule	Early Releases Accepted	% Completed Testing
N/A	150	65%

ELECT PROC ISSUED

(CUMULATIVE) 10/15/84



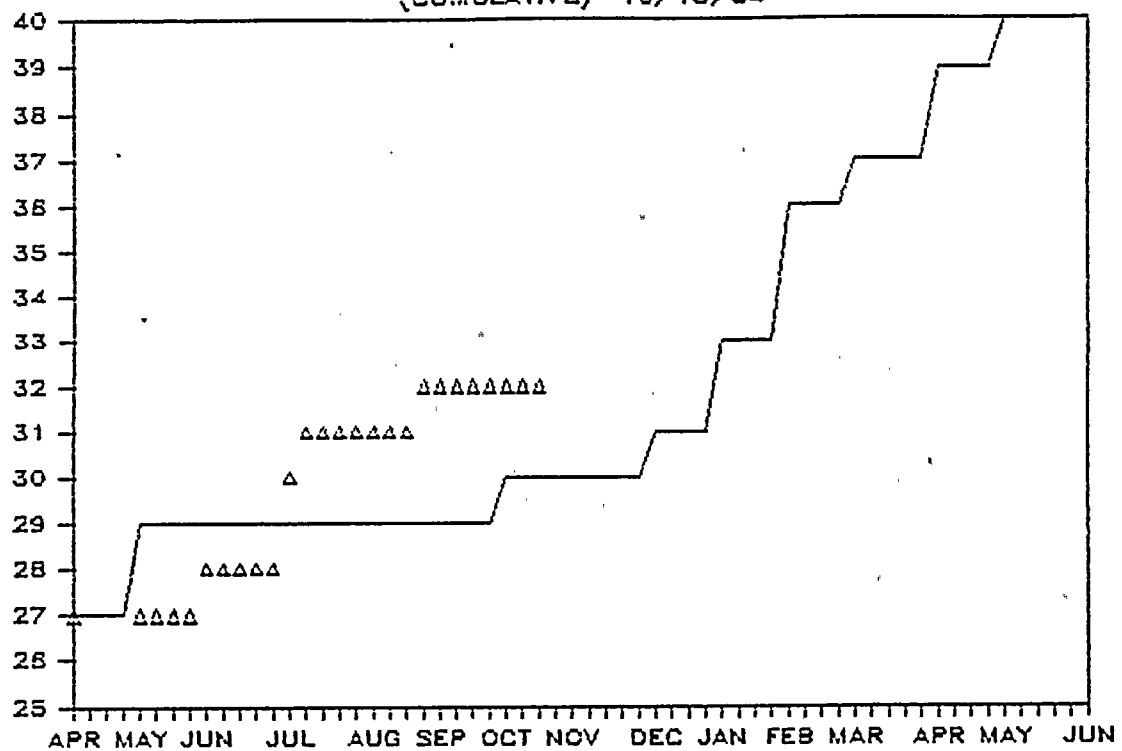
MECH PROC ISSUED (CUMULATIVE) 10/15/84



7 procedures in JTG review cycle
 — SCHEDULED 23 Δ ACTUAL 23

I&C PROC ISSUED

(CUMULATIVE) 10/15/84



8 PROCEDURES IN JTG REVIEW CYCLE
 — SCHEDULED 30 Δ ACTUAL 32

IX. COST

A. Cash Flow Summary

Approximately \$2,550 million* has been charged on the total Project to date.

As of October 14, approximately 568.4 million had been expended in 1984 versus 572.8 million forecasted or an underrun of 4.4 million.

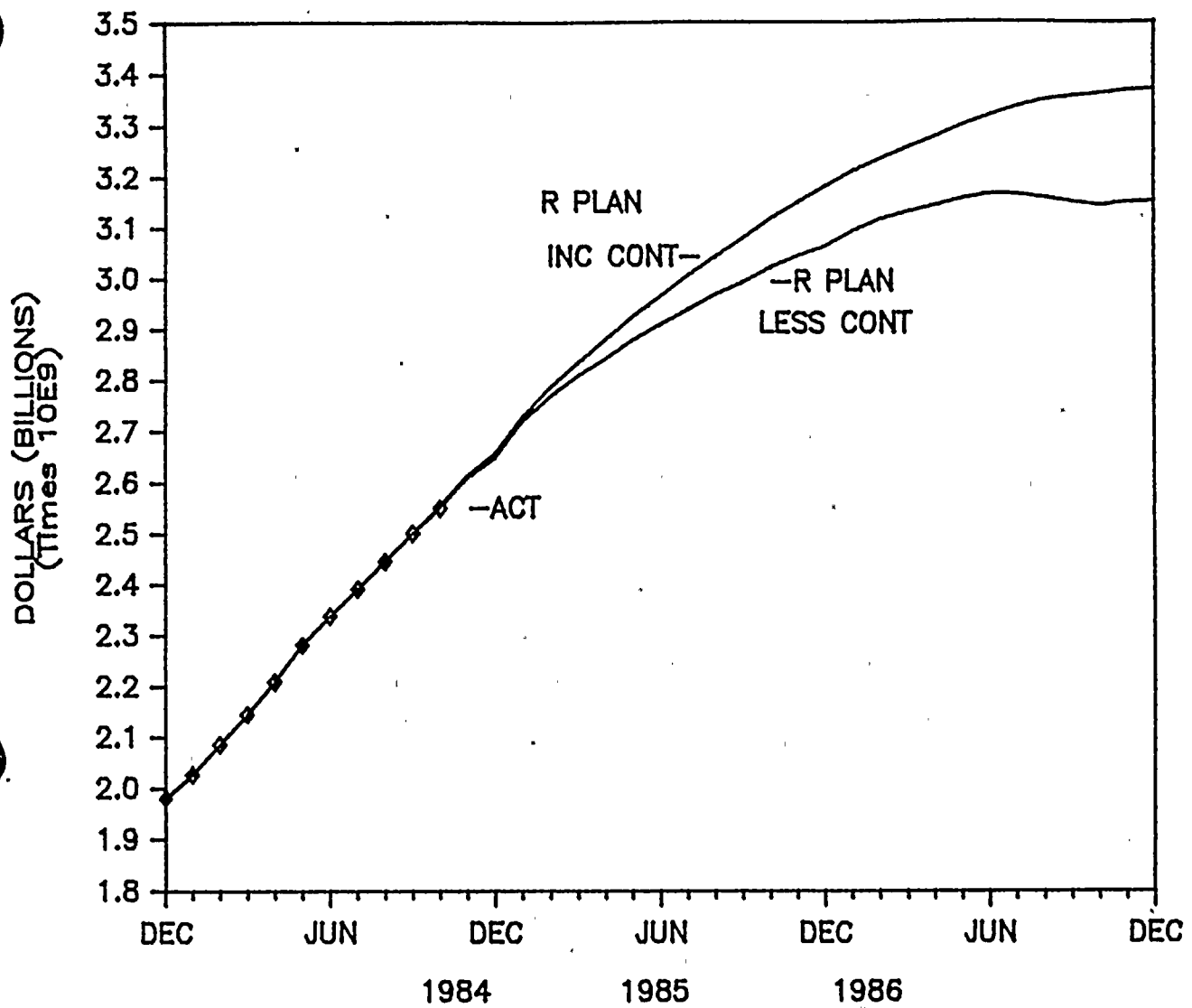
Approximately 49.0 million was expended in October versus 53.0 million planned.

B. October Cash Flow Variance Analysis

	<u>Variance</u>	<u>Remarks</u>
FPO's	\$.4 million over	
Other Misc.	\$.1 million over	
Total Construction	\$.5 million over	
Headqrtrs. Services	\$1.5 million over	October payment for August services. Manhours overran forecast.
HQ NSSS/PGCC	\$2.1 million under	No payments were made to G.E.
Hdqtrs. Material	\$1.1 million under	
Total Headqrtrs.	\$1.7 million under	
Client Cost	\$.6 million over	
Contingency	\$3.5 million under	
TOTAL PROJECT	\$ 4.0 million under	

* This figure excludes \$2.6 million in Administration Building Expenditures and 5.3 million in previously paid AFUDC payments.

PROJECT FORECAST



IX. COST (Continued)

C. Common Facilities

A proposed plan for allocating the costs of common facilities between Units 1 and 2 has been developed. It will be submitted to Niagara Mohawk Management for review by mid-November, 1984. The plan is presently being reviewed by the Accounting Department. Once this plan has been finalized, 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 \$4,357,626 for approved changes. However, as of October 23, 1984, there are pending CEP's which total approximately \$13.5 million. These pending CEP's are either approved preliminary packages or completed packages being reviewed by NMPC. Also, we have a potential contingency exposure for approximately \$13.1 million for CEP's not yet transmitted to NMPC.

The Project is currently reviewing the CHOC 1985 manpower forecast as well as other potential contingency drawdowns. The results of this review will be reported in next Month's Report.

NOTE: Three pending additions previously reported to Project Contingency are being removed due to the following reasons:

- o Rejection of NSS/PGCC Quote 256: Funds were placed in the Amendment Contingency Account within the NSSS/PGCC budget.
- o Budget value in excess of vendor quote for Specification P233N: Additional effort may be required for this scope of work.
- o NSS Amendment #20 quote under budgeted amount: The total dollar impact has not yet been confirmed; quotes are still out to various vendors.

CONTINGENCY MANAGEMENT PROGRAM
APPROVED CHANGES
April 1, 1984 to October 23, 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	
 <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		
#01171	4,243,480		
#01172	266,800		
#01178	91,900		
#01225	<u>535,151</u>		
	\$9,633,815	\$13,991,441	
NET CHANGE		\$ 4,357,626	\$209,357,626

<u>* CEP #</u>	<u>Description</u>
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
01225	Additional Personnel for SWEC QA/QC Organization
01171	QA/QC, EA PQA - Budget Revision
01172	Data Base Accuracy for System 38 Activity Control System.
01178	Ductwork Qualification.

X. RECORDS/INFORMATION MANAGEMENT

A. Progress made during the past month:

1. L.K. Comstock and Walsh Construction assessment for compliance to Records Management Plan has been completed. Supporting documentation is being completed. Procedural changes are not required since their completed records are controlled by FOC's procedures.
2. The assessment of JCI's program is complete and all procedures are in final draft form. Approval is expected within 2 weeks.
3. The initial assessment of ITT Grinnell's program has been completed. The detailed review of Grinnell's procedures has commenced and initial revisions are due for review by 10/26/84.
4. A plan to initiate the turnover of CHOC E&DCR's has been developed and the review and filming will be initiated by 10/25/84. These documents will support the Records Management Production Recovery Program.
5. Review of the Record Identification/Traceability Matrix is approximately 40% complete. The balance will be sent for review by 10/26/84. The compiling of the draft Required Records List has been initiated and completed for JCI.

B. Major Activities in Progress:

1. A review of the Start-up Administrative Procedures is currently being performed for compliance to the Records Management Plan. Areas of revision are being negotiated with start-up for incorporation into the first issue of the SAP's.
2. A Records Management individual has been placed in Reactor Control's house to develop procedural revisions with RCI personnel. This action will expedite the compliance of RCI to the Records Management Plan.
3. The balance of the draft SWEC Project Procedures have been reviewed internally and will be submitted for project review by 10/26/84.
4. Construction of the Record Acceptance Center has been expedited. The high density storage units have been ordered and construction of the vault has been initiated.

C. Record Turnover

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

Total Turnover of CHOC Documents 97% Complete

Total Turnover of SWEC Site Documents 13% Complete

Total Turnover of all SWEC Documents 25% Complete

The following are estimated percents complete of MMPC Syracuse turnover of documentation to the Permanent Plant File.

Total Turnover of MMPC Syracuse Documents 87% Complete

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

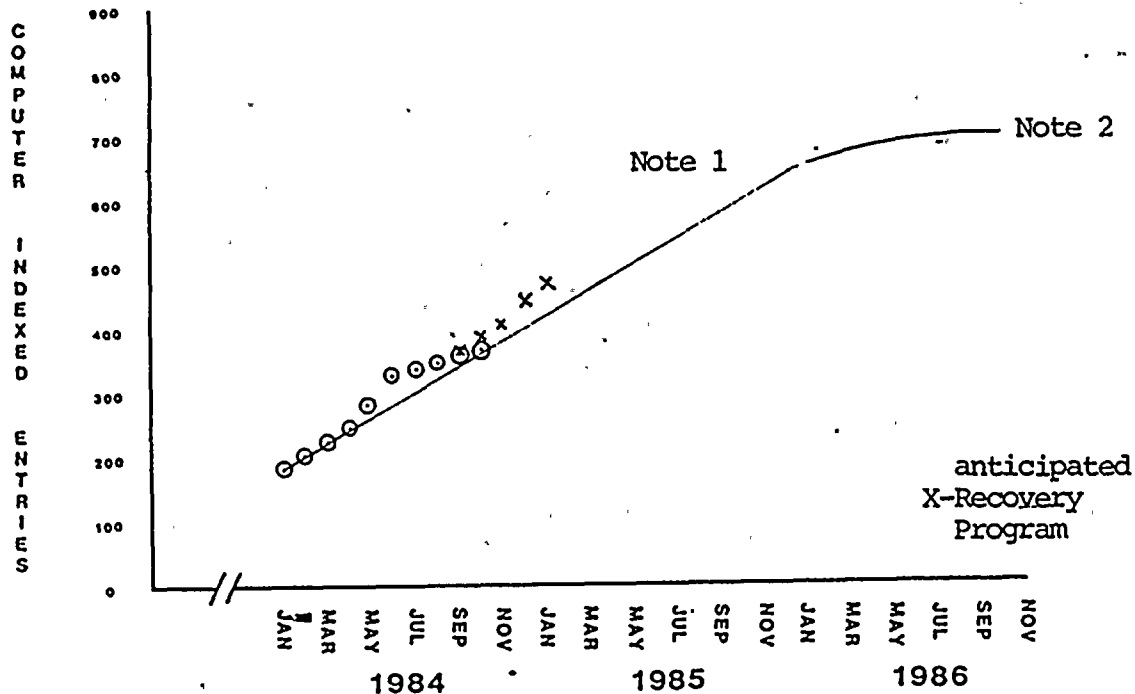
NMP2 PERMANENT PLANT FILE
COMPUTER INDEXED ENTRIES
PLANNED VS. ACTUAL
(IN THOUSANDS)

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.

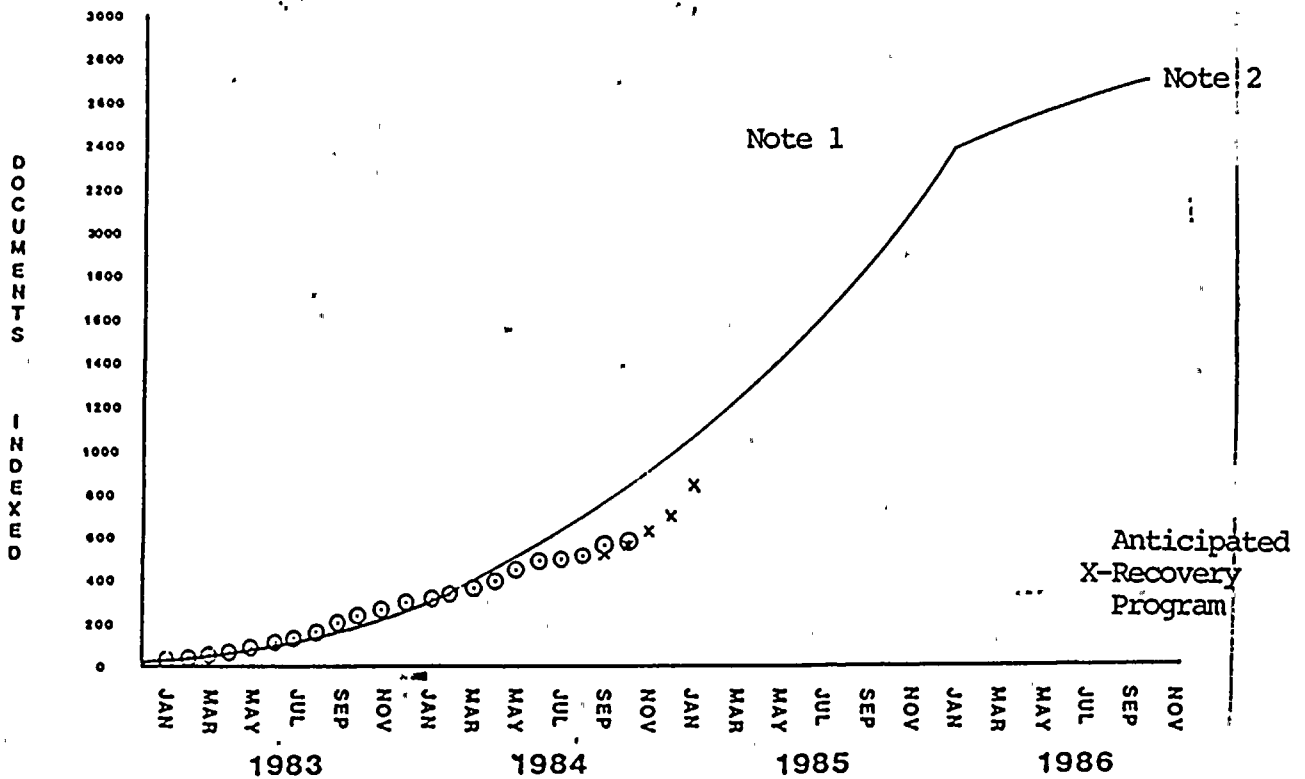
Activity	October	September	Total to Date	Percent Complete
Record Receipt and Preparation (Includes Aperture Cards)	148,208 Pages	126,300 Pages	2,444,123 Pages	30%
Records Microfilming And Verification (Includes Aperture Cards)	134,642 Pages	108,164 Pages	2,074,826 Pages	26%
Computer Indexed Entries	9,937 Entries	15,439 Entries	375,710 Entries	58%
Records Indexing And	32,696 Documents	55,753 Documents	585,286 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)

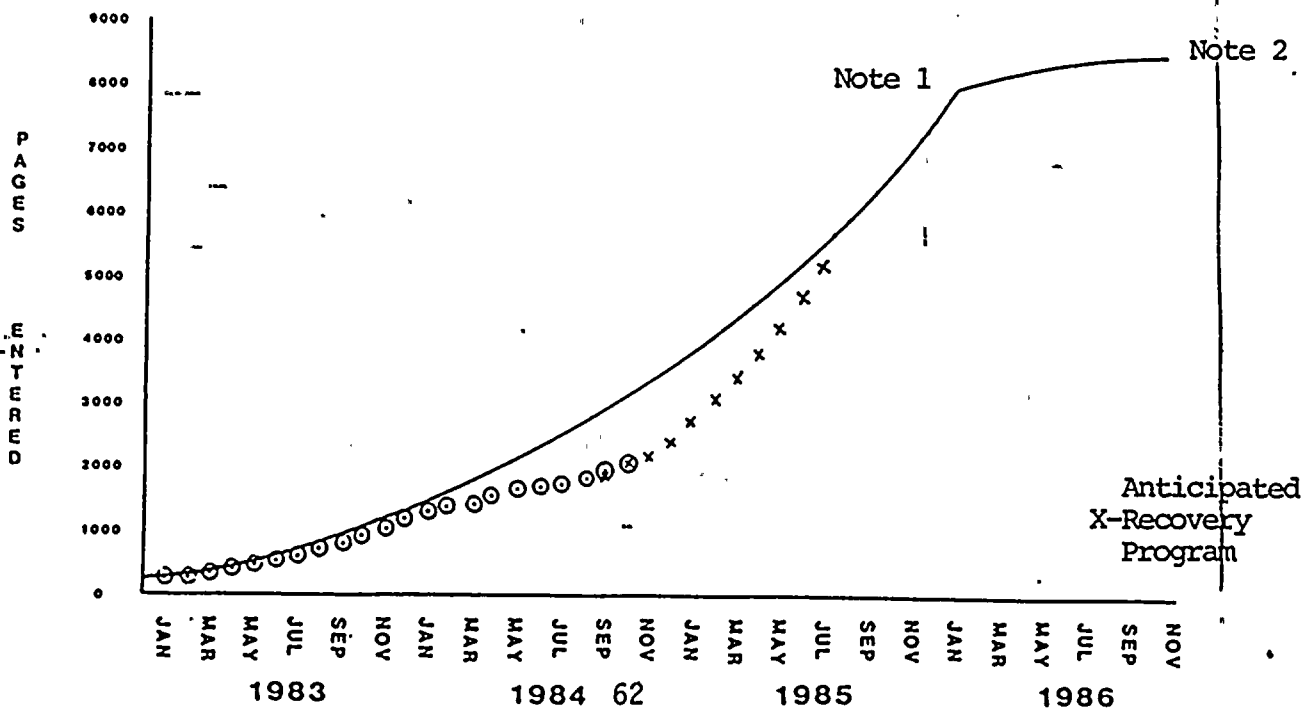
Note 1 - Fuel Load
Note 2 - Commercial Operation

PLANNED —
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, 832 responses are complete. Amendment 14 was sent to the NRC October 5, 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 294 SER items are NMPC action complete.

C. 50.55(e) Reports

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

1. Materials supplied by Tube-Line (1983), Final Report.
2. PWHT for SFC Heat Exchangers (55(e)-84-35), Interim Report.
3. PWHT for FWS Valves (55(e)-84-37), Interim Report.
4. Impact Test on Check Valves (55(e)-84-38), Interim Report.
5. Curtain Type Fire Dampers (55(e)-84-36), Interim Report.
6. PWHT Coupons for MSIV (55(e)-84-23), Final Report.
7. HEA Relays (1983), Final Report.
8. Duplicate Radiographs (55(e)-84-39), Interim Report.
9. Single Girder Crane in Diesel Gen. Rm. (55(e)-84-13), Final Report.
10. PT Exam of ITT Welds (55(e)-84-06), Final Report.
11. CPS Valve Seismic Qualification (55(e)-84-40), Interim Report.
12. Magnetrol Level Switches (55(e)-84-41), Interim Report.
13. CPS Valve LOCA Closure (55(e)-84-42), Interim Report.
14. Sockolets by Bonney Forge (55(e)-84-43), Interim Report.

D. 50.55(e)'s Identified

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

1. Sockolets by Bonney Forge (55(e)-84-43)
2. Rosemont Transmitter Leakage (55(e)-84-44)
3. Q.A. on Cable Terminations (55(e)-84-45)
4. Clow Valve Motor Operator Wiring (55(e)-84-46)
5. Seismic Qualification of HPCS Batteries (55(e)-84-47)

E. Inspection Reports

Response was submitted to violations identified in Inspection Report 84-11 (2 violations).

F. Advisory Committee on Reactor Safety (ACRS)

A first draft of the MMP2 positions for each topic has been received by MMP2 Licensing. The drafts are on review. The first preparatory meeting will be held on November 5 and 6.

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 Oct.</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	30	3	3	
POWER SYSTEM 430	118	117	1		1
CONTAINMENT REACTOR PHYSICS CORE PERFORM 480, 491, 492	67	67			
REACTOR SYSTEM 440	49	47	2	1	1

STATUS OF RESPONSES TO BRANCH TECHNICAL QUESTIONS

NUMBER OF RESPONSES

SCHEDULE FOR RESPONSE COMPLETION

Technical Question Areas	Questions Received	Completed	Outstanding	1984		1985
				Oct.	Dec	
AUXILIARY SYSTEM 410	51	51				
STARTUP & TEST 640	41	39	2	1		1
OTHER 100, 250, 251 252, 281, 311 450, 620, 630 730	61	59	2	2		
TOTALS	850	832	18	8		10

NOTE:

- (1) Excludes CHOC paid site assigned personnel.
- (2) NMPC includes MAC, NYSEG, RG&E and Central Hudson.

