AUG 2 1983

Docket No.: 50-341

APPLICANT: Detroit Edison Company

FACILITY: Fermi-2

SUBJECT: SUMMARY OF CASELOAD FORECAST SITE VISIT ON JUNE 7-9, 1983

Introduction

Members of the NRC staff comprising a Caseload Forecast Panel for Fermi-2 met with Detroit Edison Company (DECo) representatives at the Fermi-2 facility on June 7, 8 and 9, 1983, to hear DECo's basis for its revised scheduled completion date of December 30, 1983, and to observe the status of construction. Participants in the meeting are listed in Enclosure 1. Selected summary sheets showing the construction status and the projected completion date for Fermi-2 are contained in Enclosure 2.

Summary

The applicant presented information in accordance with the agenda attached to the May 27, 1983, meeting notice with a slightly different order of presentation. On June 8, 1983, DECo conducted a tour of major buildings, equipment, and systems. Based on May 1983 projections, DECo stated that its target fuel load date is December 30, 1983.

DECo indicated in its introduction (Agenda Item 1) to its presentation that it had a number of small problems which were causing its construction schedule to slip from August 1983 to December 30, 1983. An example of this was the vibration problem in the RHR pumps which had delayed the preoperational test of this system. With respect to its design and engineering effort (Agenda Item 2), DECo stated that it was now in a "punch list" mode; i.e., it was working to clean out the small unresolved details of the design and/or construction. Whereas the Fermi-2 facility had about 23,000 items on its punch list in August 1982, the list was now down to about one-fifth that number. The applicant also stated that it had completed its piping stress analysis and would be submitting its environmental qualification report to the NRC staff in early to mid-July. The significant engineering effort not completed was discussed and included satisfying the Appendix R requirements, reconciling the "as-built" piping stress analysis with the original design and completing the equipment environmental qualifications.

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With respect to procurement activities (Agenda Item 3), DECo's presentation indicated that its present mode was oriented towards expediting critical parts and materials and transferring the procurement function to the Nuclear Operations group. DECo indicated that some replacement valves were expected to be delivered late and that it planned to install replacements at the first fuel outage if the affected systems develop any problems. The craft work force availability (Agenda Item 4) was characterized by DECo as good to excellent with no significant problems in this area. As of May 31, 1983, there were about 1890 crafts people on the site, down from the March peak of about 2100; about 700 will be on-site by December 1983. A number of contractors have been demobilized after completing their portion of the facility. There are no labor contracts to be negotiated for the remainder of 1983. Daniel Construction and DECo estimated that the craft work force was working productively about 50 percent of the time.

DECo stated that it had effectively installed all but 480 of the required 14,360 large bore pipe hangers and all but 600 of the required 13,200 small bore pipe hangers (Agenda Item 5). The major work effort that remains is a possible reworking of the pipe hangers and restraints resulting from completion of the stress report reconciliations presently being completed. This reconciliation was necessitated by the addition of steel supports in the drywell which in turn caused some of the pipe hangers and pipe whip restraints to be moved. The additional steel had been added to accommodate the pool dynamic loads in the torus. This reconciliation process of the "as-built" (i.e., relocated) pipe support locations for ASME Class 1 piping will be furnished late in the year, close to the applicant's estimated fuel load date. The staff's position on this matter is that all stress levels of safety-related piping must be demonstrated to be conservatively bounded prior to licensing of the Fermi-2 facility.

The remaining work items on the critical paths and the project schedule (Agenda Items 6 and 13) were discussed by DECo. There was indication of some slips past December 30, 1983, but DECo believes that these limited number of critical paths can be brought into line. With respect to the installation of bulk quantities (Agenda Item 7), DECo stated it has reached about 95 percent completion of the facility. Some of the work not complete is plant painting (65 percent complete by May 1983) and penetration seals (83 percent complete).

The relatively slow closure of those items reported in accordance with Section 50.55(e) of 10 CFR Part 50 (Agenda Item 10) was spotlighted by Region III representatives with emphasis on the lack of readily available documentation to close out these items. DECo was requested by Region III to expedite the resolution of the outstanding 50.55(e) items so that these items would not delay issuance of the OL at the time of plant completion. DECo agreed to improve its performance in this area.

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DECo briefly discussed the radwaste systems modifications required to satisfy the pertinent portions of NUREG-0737 (Agenda Item 14). No significant problems were identified by DECo.

On June 8, 1983, the meeting was continued starting with a discussion of the status of operator training. DECo indicated that it should have 10 SRO's and 15 RO's by December 30, 1983, which would be sufficient to support five shifts by its estimated fuel load date. DECo plans to have sufficient qualified operating personnel by the end of 1984 to support six shifts (i.e., 12 SRO's and 12 RO's).

The area that appears to the NRC staff to be the present critical path prior to the fuel load is preoperational and acceptance testing (Agenda Item 8). The large number of "punch list" items plus difficulties in starting up various systems has caused the testing schedule to lag. To support its December 30, 1983, estimated fuel load date, DECo will have to complete and accept about 20 tests per month corresponding to a completion rate of about 15 percent per month. The staff expressed doubt that this rate could be achieved or sustained based on the experience of other units at a comparable stage of completion. It was also pointed out that other facilities have many more test engineers at this stage.

The security systems modifications (Agenda Item 15) were then discussed; no significant problems were identified. The installation of an additional 24 tons steel in the drywell to accommodate the pool dynamic loads (Agenda Item 16) has been accomplished. The last agenda item (No. 18) discussed was the installation of fire protection for the facility. The staff noted that some items were scheduled for the end of November 1983 which leaves a minimum amount of time for Region III to inspect and accept these items prior to DECo's estimated fuel load date of December 30, 1983.

Conclusion

Based on the information provided by Detroit Edison and on the observations made during its tour through the Fermi-2 facility, the staff agrees with DECo that construction of the facility is effectively completed. However, the staff believes that there are numerous small items yet to be corrected (i.e., the "punch list") and these, in turn, have significantly slowed the preoperational and acceptance testing. Both of these matters were identified in the previous visit of the staff in August 1982 as potential factors which could delay the fuel load date. While the "punch list" items have been greatly reduced since the previous site visit, the staff continues to believe that additional effort must be concentrated on this area to permit the testing program to be accelerated.

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The staff noted at the conclusion of its visit that there are two additional factors which could potentially delay the fuel load date. The first of these is a possible reworking of the Class 1 piping supports inside the drywell as a result of the reconciliation of the "as-built" piping stress analysis. The second is a potential delay that may result from the limited access in the drywell which could lengthen the estimated two week period presently scheduled to accomplish the induction heating stress improvement (IHSI) program. While it recognizes these factors, the staff does not assign any weight to them in arriving at its estimated fuel load date since their impact is speculative at this time.

Based on the foregoing discussion, the NRC staff concludes that the applicant's December 1983 fuel load date is very optimistic. The staff believes that if the preoperational and acceptance testing programs can be accelerated and that accelerated rate maintained, the earliest fuel load date achievable is July 1984. The staff indicated that they would remain cognizant of the pre-operational and acceptance testing program accomplishments such that a more definitive projection of the fuel load date may be made toward the end of 1983.

Mr. Harry Tauber, DECo Group Vice-President, speaking for DECo stated that he disagrees with the staff's estimate. It is his belief that DECo's estimated fuel load date of December 30, 1983, is reasonably achievable based on the present organizational structure and the resources available to accomplish this goal. The staff stated that they would continue its licensing review effort to support the applicant's estimated fuel load date.

Original Signed By:
M. D. Lynch

M. D. Lynch, Project Manager
Licensing Branch No. 1
Division of Licensing

Enclosures:
As stated

cc w/encls.: See next page

DECo does not object to issuance of letter

*SEE PREVIOUS ORC FOR CONCURRENCES.

OFFICE	DL:LB#1*	DL:LB#1*	ORM*	DL:AD/	DL:DIR		
SURNAME	MDLynch/lg	BJYoungblood	WLovelace	TMNovak	DEisenhut		
retyped3rd DATE	07/28/83	07/21/83	07/05/83	07 /83	/ /83		

The Panel noted at the conclusion of its visit that there are two additional factors which could potentially delay the fuel load date. The first of these is a possible reworking of the Class 1 piping supports inside the drywell as a result of the reconciliation of the "as-built" piping stress analysis. The second is a potential delay that may result from the limited access in the drywell which could lengthen the estimated two week period presently scheduled to accomplish the induction heating stress improvement (IHSI) program. While it recognizes these factors, the Panel does not assign any weight to them in arriving at its estimated fuel load date since their impact is speculative at this time.

Based on the foregoing discussion, the NRC Caseload Forecast Panel concludes that the fourth quarter of CY 1984 (i.e., October 1984) is the probable date at which the plant will be sufficiently complete to permit fuel loading. Moreover, if the preoperational and acceptance testing programs can be accelerated and that accelerated rate maintained, the earliest fuel load date achievable is the third quarter of CY 1984 (i.e., July 1984). The Panel indicated that they would remain cognizant of the preoperational and acceptance testing program accomplishments such that a more definitive projection of the fuel load date may be made toward the end of 1983.

Mr. Harry Tauber, DECo Group Vice-President, speaking for DECo stated that he disagrees with the Panel's estimate. It is his firm conviction that DECo's estimated fuel load date of December 30, 1983, is achievable based on the present organizational structure and the resources available to accomplish this goal. The Panel stated that the staff would continue its licensing effort to support the applicant's estimated fuel load date.

M. D. Lynch, Project Manager
Licensing Branch No. 1
Division of Licensing

Enclosures:
As stated

cc w/encls.: See next page

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SURNAME	MDLynch/lg	BJYoungblood	WHLovelace	TMNovak	DGEisenhut		
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The Panel noted at the conclusion of its visit that there are two additional factors which could potentially delay the fuel load date. The first of these is a possible reworking of the Class 1 piping supports inside the drywell as a result of the reconciliation of the "as-built" piping stress analysis. The second is a potential delay that may result from the limited access in the drywell which could lengthen the estimated two week period presently scheduled to accomplish the induction heating stress improvement (IHSI) program. While it recognizes these factors, the Panel does not assign any weight to them in arriving at its estimated fuel load date since their impact is speculative at this time.

Based on the foregoing discussion, the NRC Caseload Forecast Panel concludes that the fourth quarter of CY 1984 (i.e., October 1984) is the probable date at which the plant will be sufficiently complete to permit fuel loading. Moreover, if the preoperational and acceptance testing programs can be accelerated and that accelerated rate maintained, the earliest fuel load date achievable is the third quarter of CY 1984 (i.e., July 1984). This represents a five to eight month slip from the Panel's previous estimate of February 1983 made in its August 1982 site visit.

Mr. Harry Tauber, DECo Group Vice-President, speaking for DECo stated that he disagrees with the Panel's estimate. It is his firm conviction that DECo's estimated fuel load date of December 30, 1983, is achievable based on the present organizational structure and the resources available to accomplish this goal. The Panel indicated that the staff would continue its licensing effort to support the applicant's estimated fuel load date.

M. D. Lynch, Project Manager
Licensing Branch No. 1
Division of Licensing

Enclosures:
As stated

cc w/encls.: See next page

* Concurred by phone

OFFICE	DL:LB#1	DL:LB#1	ORM	DL:AD/L	DL:DIR		
SURNAME	MDLynch/lg	BJYoungblood	WHLovelace*	TMNovak	DGEisenhut		
DATE	07/05/83	07/ /83	07/05/83	07/ /83	07/ /83		

Mr. Harry Tauber
Vice President
Engineering & Construction
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Michigan Public Service Commission
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ATTENDANCE LIST

NRC Caseload Forecast Panel Meeting

June 07, 1983

NRC Participants

M. Lynch
J. Youngblood
J. Konklin
W. Lovelace
H. Wescott
B. Little
P. Byron

Detroit Edison Company

R. Vance
L. Schuerman
W. Fahrner
S. Noetzel
R. Blok
D. Spiers
M. Williams
R. Buckler
T. Alessi

ATTENDANCE LIST

NRC Caseload Forecast Panel Meeting

June 8, 1983

NRC Participants

M. Lynch
J. Youngblood
J. Konklin
W. Lovelace
H. Wescott
B. Little
P. Byron

Detroit Edison Company

S. Noetzel
W. Holland
R. Lenart
G. Trahey
B. Miller
T. Alessi
L. Schuerman
F. Agosti
W. Fahrner
M. Cheney
S. Leach
R. Anderson

ATTENDANCE LIST

NRC Caseload Forecast Panel Meeting

June 9, 1983

NRC Participants

W. Lovelace
B. Little
H. Wescott
P. Byron
J. Konklin
J. Youngblood
M. Lynch

Detroit Edison Company

L. Schuerman
H. Tauber
O. Earle
W. Fahrner
D. Wells
T. Alessi
W. Jens
R. Lenart
F. Agosti
W. Colbert
S. Noetzel

ENCLOSURE 2

(Numbers on top of each page refer to Agenda Items)

2

ENRICO FERMI 2 PROJECT ENGINEERING
PRESENTATION FORMAT

- INTRODUCTION
  - MAJOR ACCOMPLISHMENTS IN PAST 12 MONTHS
- 1983 FORECASTED MONTHLY PERSONNEL COMPLEMENT
- STATUS OF DESIGN DOCUMENTS
- PROJECT ENGINEERING "WORK TO GO"
  - DESIGN TO GO
  - SIGNIFICANT REMAINING ENGINEERING

FERMI 2 PROJECT ENGINEERING

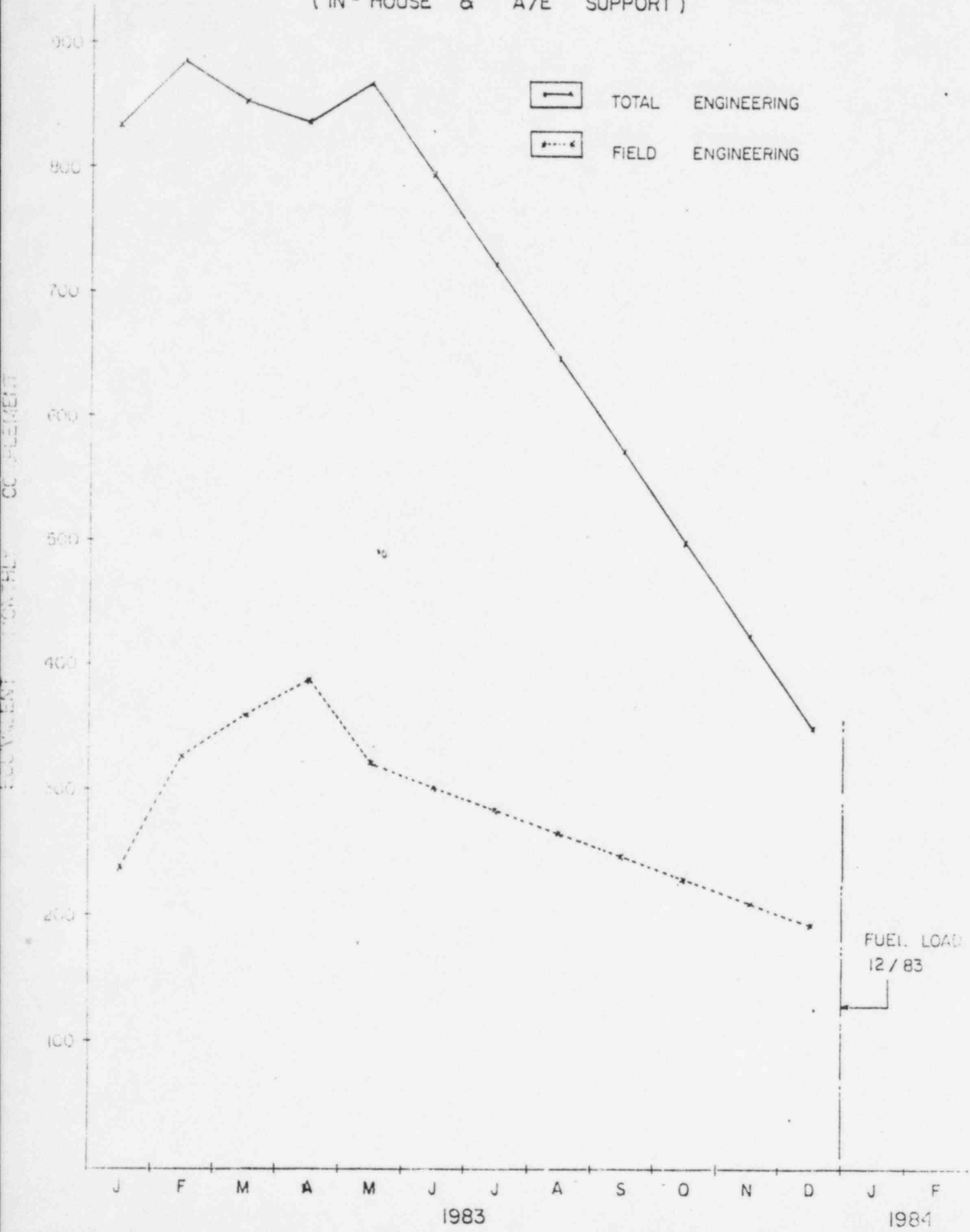
MAJOR ACCOMPLISHMENTS IN PAST 12 MONTHS

- COMPLETED TORUS ATTACHED PIPING DESIGN AND P.U.A.R.
- SIGNIFICANT TORUS MODIFICATIONS COMPLETED
- FIRE PROTECTION SYSTEMS
- DESIGN & PROCUREMENT FOR INTERGRATED LEAK RATE TEST
- POST-ACCIDENT SAMPLING DESIGN
- CABLE TRAY FIRE PROTECTION DESIGN & REMOTE SHUTDOWN PANEL
- SEISMIC INTERACTION (RATTLESPACE)
- CRD REPAIR FACILITY
- DESIGN WORK FOR ERIS
- INDEPENDENT DESIGN VERIFICATION
- J.I.O. FOR EQUIPMENT QUALIFICATION
- Q-LIST UPDATED
- SAFETY-RELATED PIPING AS-BUILT ANALYSIS
- REDESIGN OF THE MAIN CONTROL ROOM PANELS
- NEW OPERATORS CONSOLE IN CONTROL CENTER
- ESTABLISHED NEW GROUP TO CONTROL CHANGE PAPER
- DRYWELL STRUCTURAL STEEL DESIGN MODIFICATION
- ESTABLISHED SEISMIC DESIGN QUALIFICATION GROUP
- COMPLETED ALL ORIGINAL SMALL BORE HANGERS
- COMPLETED ALL SMALL BORE I/C TUBING
- ESTABLISHED THE CONDUIT/EQUIPMENT DESIGN GROUP
- RESOLUTION TO RHR VIBRATION PROBLEMS

FERMI 2 PROJECT ENGINEERING

1983 FORECASTED MONTHLY PERSONNEL COMPLEMENT

(IN - HOUSE & A/E SUPPORT)



STATUS OF DESIGN DOCUMENTS

JUNE 1982 - APRIL 1983

NEW DRAWINGS	1,427
REVISED DRAWINGS	7,407
CLOSED CHANGE PAPER	12,843

ENRICO FERMI UNIT 2 PROJECT
ENGINEERING

REMAINING DESIGN TO SUPPORT "FUEL LOAD"

ORIGINAL SCOPE

SYSTEM NUMBER	DESCRIPTION	STATUS
B-21-00	NUCLEAR BOILER SYSTEM	COMPLETED
C71-00	REACTOR PROTECTION SYSTEM	COMPLETED
C91-00	PROCESS COMPUTER	COMPLETED
E11-00	RHR & LPCI	COMPLETED
E41-00	HIGH PRESSURE COOLANT INJECTION	90%
E51-00	REACTOR CORE ISOLATION COOLING SYSTEM	98%
G33-00	REACTOR WATER CLEAN UP SYSTEM	COMPLETED
H11-03	START UP RECORDER SYSTEM	COMPLETED
H30-00	ANNUNCIATOR SYSTEM	COMPLETED
P50-02	CONTROL AIR SYSTEM	COMPLETED
P80-00	FIRE PROTECTION	COMPLETED
P80-05	FIRE DETECTION	COMPLETED
R14-00	4160 V SWITCHGEAR	COMPLETED
T21-00	REACTOR BUILDING	90%
T45-00	REACTOR & AUXILIARY BUILDING FLOOR DRAWINGS	COMPLETED

MISCELLANEOUS

CLASS 1 PIPE STRESS RECONCILIATION	85%
CLASS 2 & 3 PIPE STRESS RECONCILIATION	75%
CONTROL CENTER COP INSERTS	COMPLETED
PENETRATION SEALING	COMPLETED

ENRICO FERMI UNIT 2 PROJECT
ENGINEERING

REMAINING DESIGN TO SUPPORT "FUEL LOAD"
NEW ISSUES

NUMBER	DESCRIPTION	STATUS
6	FW LEVEL 8 TRIP TESTABILITY OPTION	COMPLETED
13	SUMP PUMP CONTROLS	COMPLETED
50B	FIRE PROTECTION	COMPLETED
57	EDG SEQUENCES REVIEW	COMPLETED
64	ENVIRONMENTAL QUALIFICATION	65%
66	APPENDIX "R" REQUIREMENTS	85%
79	CONTAINMENT ELECTRICAL PENETRATIONS	COMPLETED
82	NON-SEISMIC OVER SEISMIC	95%
87	SRV TESTING	COMPLETED
90B	TORUS ATTACHED PUPING	COMPLETED
95	PIPE BREAK ENVIRONMENTAL EFFECTS	COMPLETED
104	POST ACCIDENT SAMPLING	COMPLETED
111	TECHNICAL SUPPORT CENTER	COMPLETED
128C	METEOROLOGY (PREDICT, PLUME, DOSE)	COMPLETED
128D	EMERGENCY PLAN HARDWARE (MET TOWERS)	COMPLETED
135	CONTROL ROOM DESIGN REVIEW	98%
141	REDUCTION OF SRV CHALLENGES & FAILURES	95%
174	CRITICAL INSTRUMENT POWER SUPPLY UPGRADE	COMPLETED
182	EMERGENCY RESPONSE INFORMATION SYSTEM	98%
190	ON SITE STORAGE FACILITY	COMPLETED
191B	CRD REBUILDING FACILITY	COMPLETED
194	RHR SHUTDOWN COOLING MODE	COMPLETED
198	120V SYSTEM IMPROVEMENTS STUDY	COMPLETED
236	DRYWELL FLOOR DRAIN LEVEL MEASUREMENT	COMPLETED

ENRICO FERMI UNIT 2 PROJECT
ENGINEERING

REMAINING DESIGN TO SUPPORT "FUEL LOAD"
NEW ISSUES

NUMBER	DESCRIPTION	STATUS
237	ADDITION SWITCHGEAR ROOM COOLING	COMPLETED
238	ISI PROGRAM DEVELOPMENT	COMPLETED
239B	RESOLUTION OF 239A FINDINGS	COMPLETED
240	REACTOR BUILDING CRANE/HOIST REVIEW	COMPLETED
244	SDV PIPE BREAK (MICHELSON CONCERN)	COMPLETED
245	C-C TV CONTROL ROOM	COMPLETED

SIGNIFICANT REMAINING ENGINEERING

- o PRIMARY CONTAINMENT - STRUCTURAL VERIFICATION
- o APPENDIX "R" REQUIREMENTS
- o SEISMIC INTERACTION (RATTLESPACE)
- o PIPE STRESS REPORT RECONCILIATION
- o MISCELLANEOUS PIPE HANGERS
- o CHANGE PAPER
- o ENVIRONMENTAL QUALIFICATION
- o SUPPORT OF START-UP
- o TRANSFER OF RESPONSIBILITY TO NUCLEAR OPERATIONS

ENRICO FERMI UNIT 2
EQUIPMENT QUALIFICATION

- o STATUS OF EF2 PROGRAM TO CORRECT EQUIPMENT DEFICIENCIES
  - TOTAL HARSH ENVIRONMENT EQUIPMENT TYPES 155 REFLECTING 1,320 COMPONENTS.

ITEMS QUALIFIED	70 TYPES (820 COMPONENTS OR 63%)
ITEMS TO BE REPLACED	50 TYPES (275 COMPONENTS OR 20%)
ITEMS TO BE RELOCATED	11 TYPES (76 COMPONENTS OR 6%)
ITEMS TO BE TESTED	24 TYPES (140 COMPONENTS OR 11%)

  - THE ABOVE SCHEDULED TO BE COMPLETED BY MARCH OF 1985 IN ACCORDANCE WITH NRC REGULATORY REQUIREMENT.
  - UPDATE HARSH ENVIRONMENT CENTRAL FILE PRIOR TO NRC VERIFICATION VISIT.
- o UPDATED SUBMITTAL TO NRC BY JULY 1, 1983 TO:
  - INCORPORATE ALL TMI LESSON-LEARNED EQUIPMENT AND ADDITIONAL 1E (HE) HARSH ENVIRONMENT EQUIPMENT PREVIOUSLY UNIDENTIFIED.
  - INCORPORATE JUSTIFICATION FOR INTERIM OPERATION (JIO) FOR ALL EQUIPMENT NOT YET FULLY QUALIFIED.
  - INCORPORATE COMPONENT RECLASSIFICATION TO EXCLUDE EQUIPMENT FROM HARSH ENVIRONMENT QUALIFICATION IN ACCORDANCE WITH GUIDELINES PROVIDED BY THE NRC IN THE EF2 SER APPENDIX F.
  - REFLECT LATEST QUALIFICATION STATUS OF ALL 1E HE EQUIPMENT.
- o EXPECT NRC STAFF VERIFICATION VISIT SECOND WEEK OF JULY 1983

3

NRC PRESENTATION

"PROCUREMENT ACTIVITIES"

1. ORGANIZATION - PROJECT MATERIALS

   A. Purchasing

   B. Expediting

   C. Functional Site Organization since January 1980

   D. Approximately 33 Employes

   E. Transition to Nuclear Operations

      1) Nuclear Procurement

         a) Initial Transfer 1-83

         b) Second Transfer 5-83

      2) Operations Warehousing

         a) Edison assumed control of Daniel Construction Warehouse on 12-1-82.

         b) Edison assumed management of Electrical Shop (warehouse) on 4-1-83.

         c) Edison management will assume Wismer-Becker warehouse responsibilities about 7-1-83.

2. PROJECT PURCHASING (16 Employes)

   A. Involved since project inception.

   B. Responsible for purchase of:

      - Engineered Equipment
      - Materials and Field Consumables
      - Field Labor Contracts
      - Technical Support Services
      - Engineering Services

   C. Purchase for Construction, System Completion, Engineering, Startup, and Bechtel.

3. PROJECT EXPEDITING (11 Employes)

   A. Over 90% of all purchase orders are expedited for equipment and materials.

   B. Field Expediting as required. (Wire and cable, valves, fuel load items, and Startup Pre-Op restraints.)

   C. Vendor documentation.

4. ACTIVITY HIGHLIGHTS

   A. Most purchasing activity is related to System Completion, Startup, Bechtel and Construction.

   B. Spare parts is now a function of Nuclear Procurement.

Goal By Fuel Load	
On Order	- 18,696
In Stock (90%)	- 16,817

Actual April 1, 1983	
On Order	- 13,927
In Stock	- 12,610

   C. Purchase order activity peaked at about 800/month during the 1st quarter of 1983. In August 1982, about 650 orders were committed.

   D. Organized to support Startup.

   E. Re-programming of FOCUS - Formerly a computer system for tracking purchase requisitions and purchase orders. Expanded to include punchlist items by system identifier, delivery dates, p.o. item, change order, vendor, buyer, etc.

5. SURPLUS MATERIAL - Purchased two (2) 20" Gate Valves from TVA cancelled plant. As required, other surplus material is reviewed such as cable, snubbers, motor operators, etc.

6. MAJOR MATERIAL CONCERNS

- Replacement Valve Parts
- Motor Operated Valve Parts
- Five (5) Anchor Darling Valves due 10-31-83

7. PROCUREMENT ACTIONS

A. Monitor Engineering Material Status Report as published.

B. Dedicate buyers and/or expeditors when required.

C. Meet as required with Project Controls, Engineering, Startup, System Completion and Bechtel to identify and resolve any material restraints.

D. Produce Apple Computer material reports as required for Startup Pre-Op restraints and various Task Forces.

Prepared By:
R. J. Blok
Director, Project Materials
6-6-83

4

NRC CASELOAD FORECAST PANEL
SITE VISIT

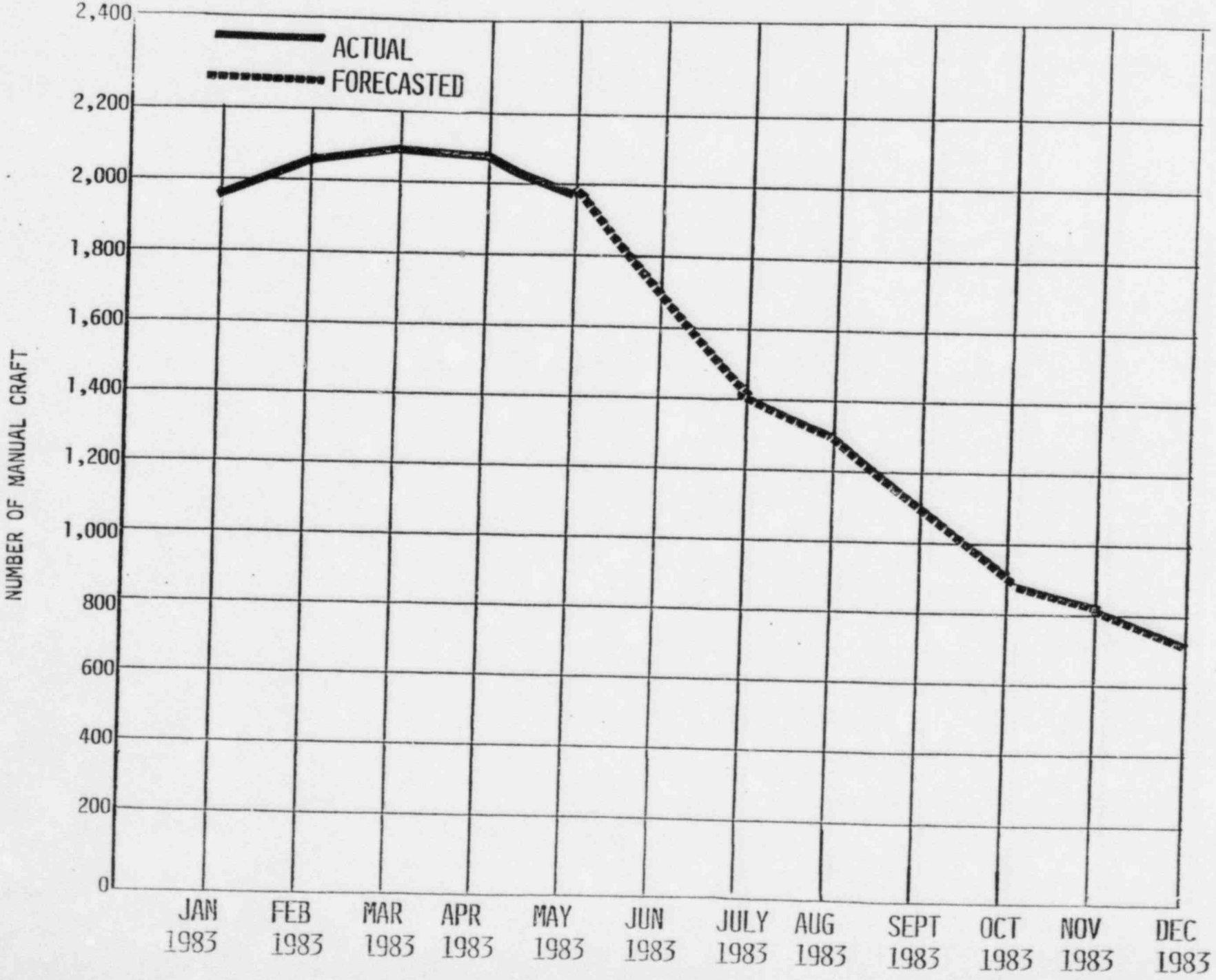
AGENDA ITEM 4:

- Actual and Proposed Craft Work Force
- Craft Availability
- Labor Negotiations and Problems
- Productivity

FERMI 2 PROJECT

CRAFT AVAILABILITY

CRAFT	PRESENT MAY 31, 1983	AVAILABILITY
Asbestos Workers	132	Good
Boilermakers	34	Good
Carpenters	134	Excellent
Cement Masons	4	Excellent
Electricians	406	Good
Ironworkers	87	Excellent
Laborers	269	Excellent
Millwrights	63	Excellent
Operating Engineers	34	Excellent
Painters	102	Excellent
Pipefitters	508	Good
Sheetmetal Workers	77	Good
Teamsters	43	Excellent


ACTUAL
FORECASTED
NUMBER OF MANUAL CRAFT
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
JAN 1983
FEB 1983
MAR 1983
APR 1983
MAY 1983
JUN 1983
JULY 1983
AUG 1983
SEPT 1983
OCT 1983
NOV 1983
DEC 1983

THE FOLLOWING CONTRACTORS HAVE DEMOBILIZED:

REACTOR CONTROLS, INC.

PHOENIX

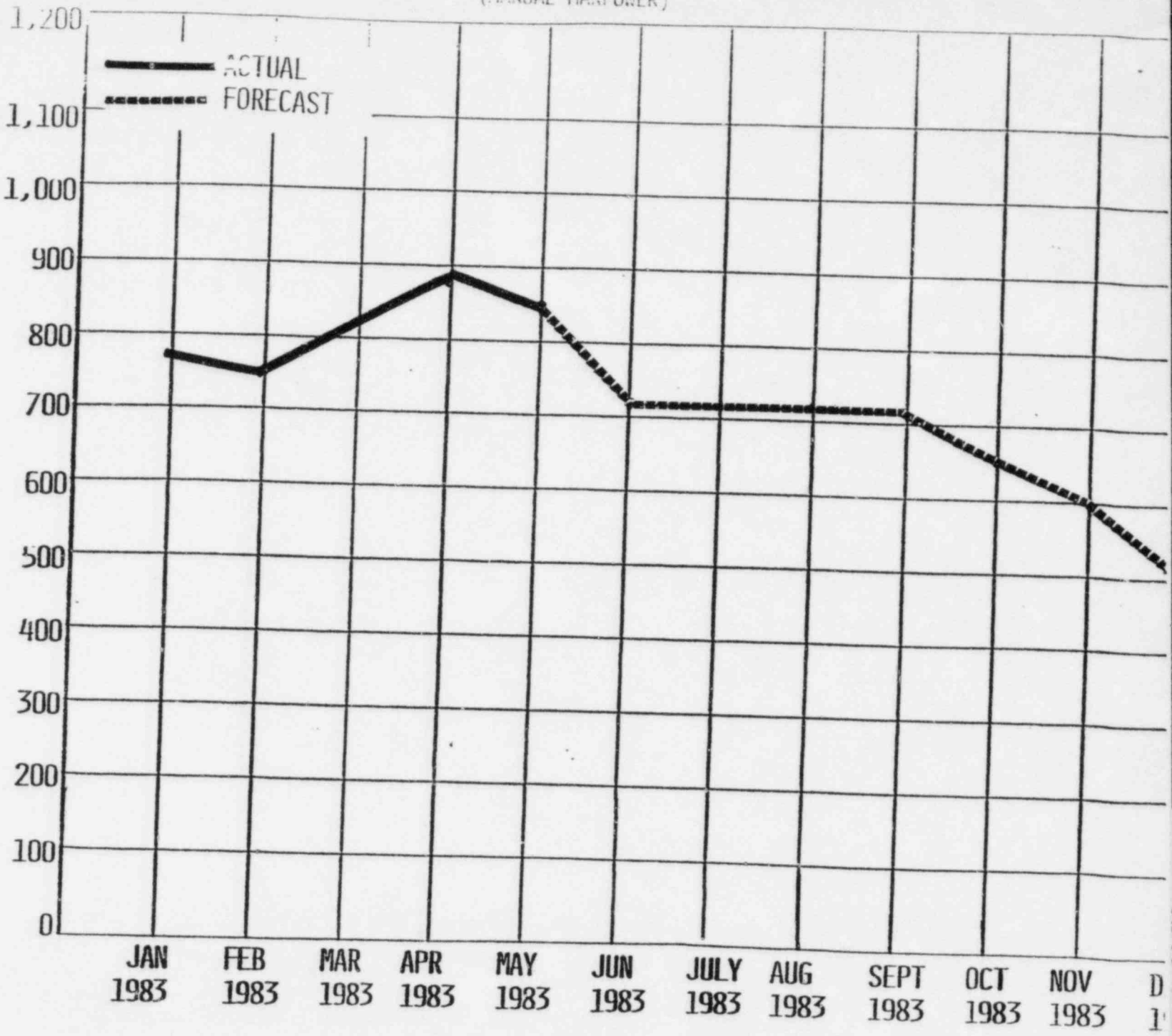
CHICAGO BRIDGE & IRON

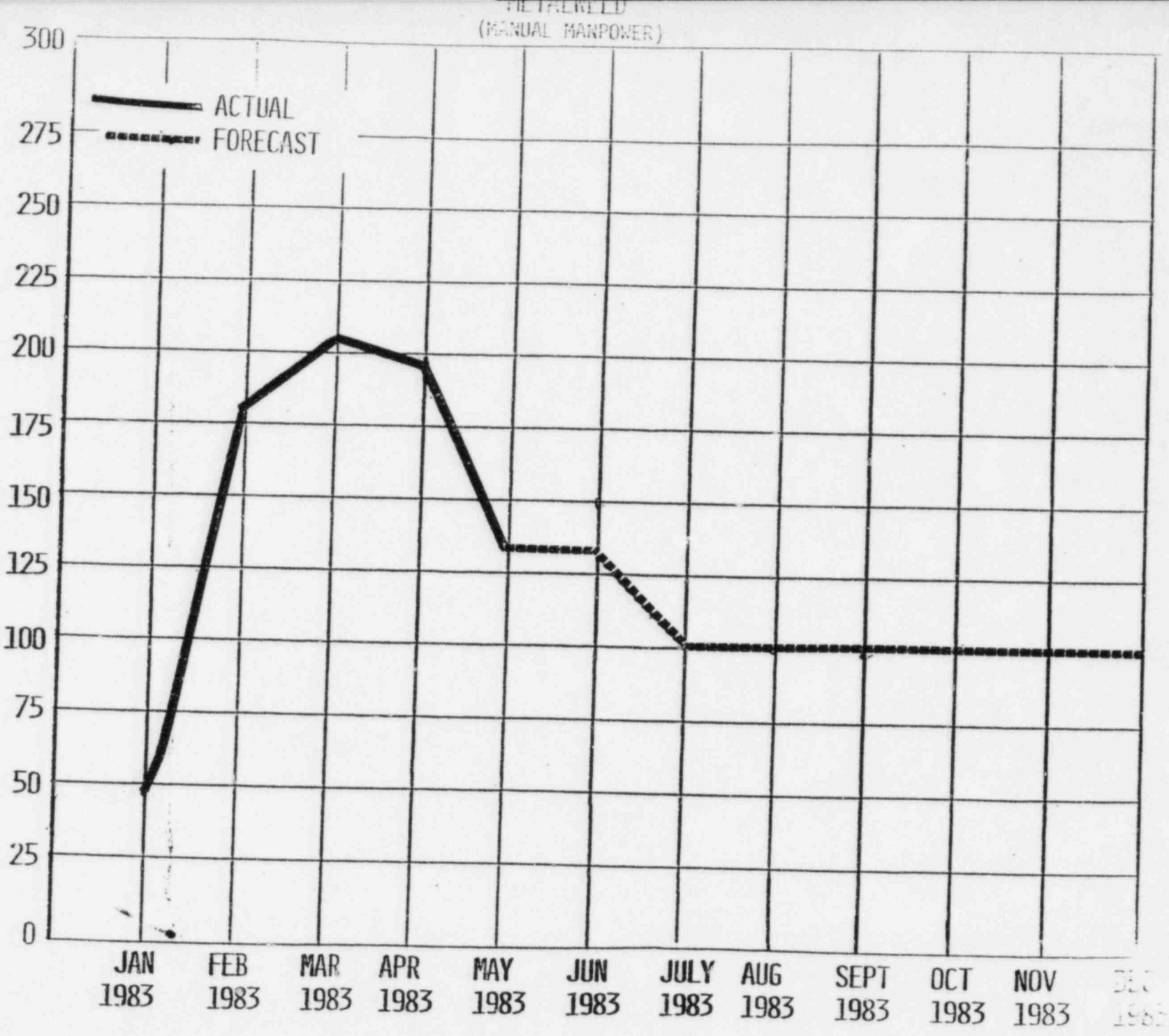
L. K. COMSTOCK

(PRESENTLY HAVE 40 MANUAL TO COMPLETE DRYWELL TO DEMOBILIZE JUNE 10, 1983)

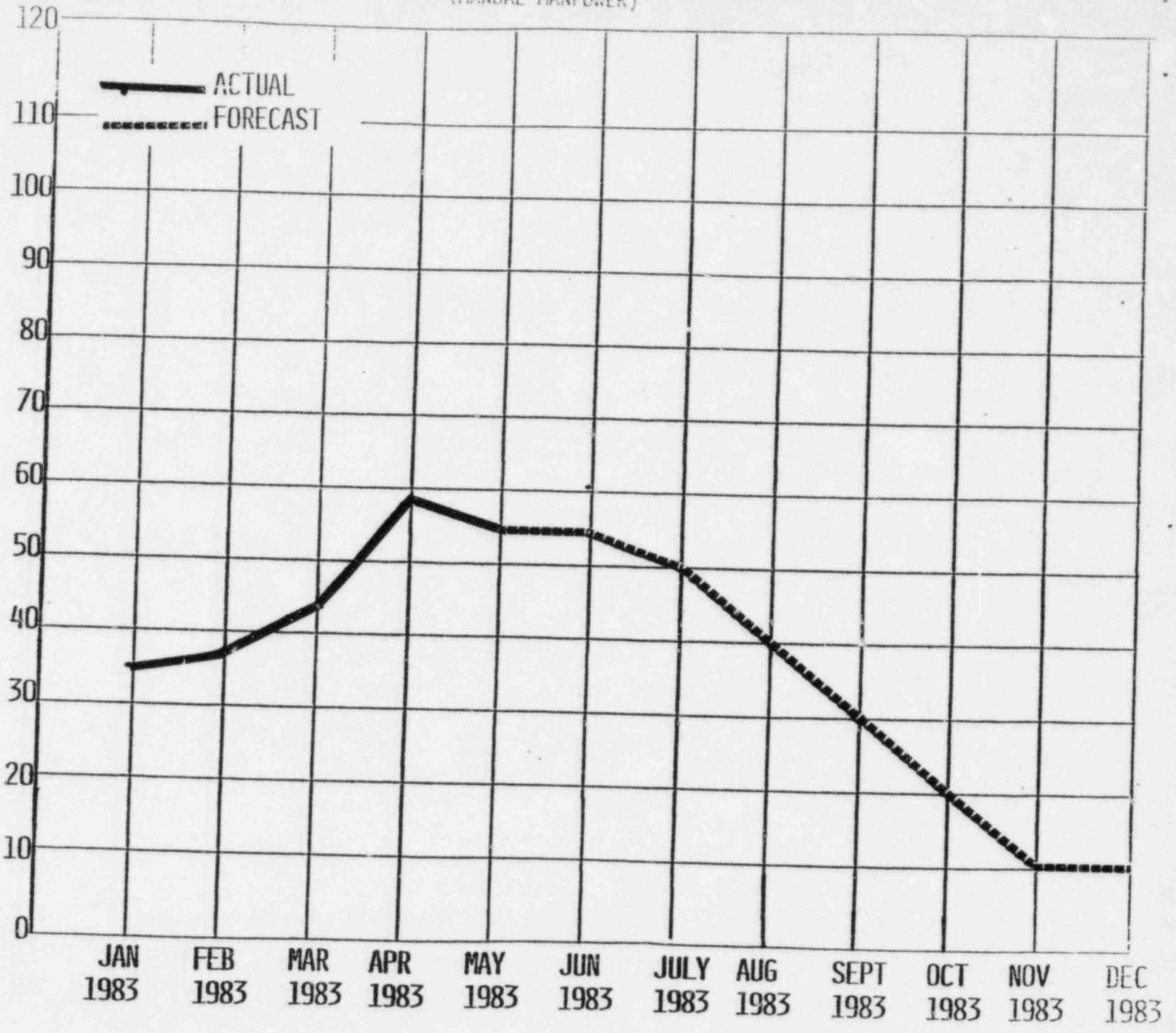
BECHTEL

(MANUAL MANPOWER)

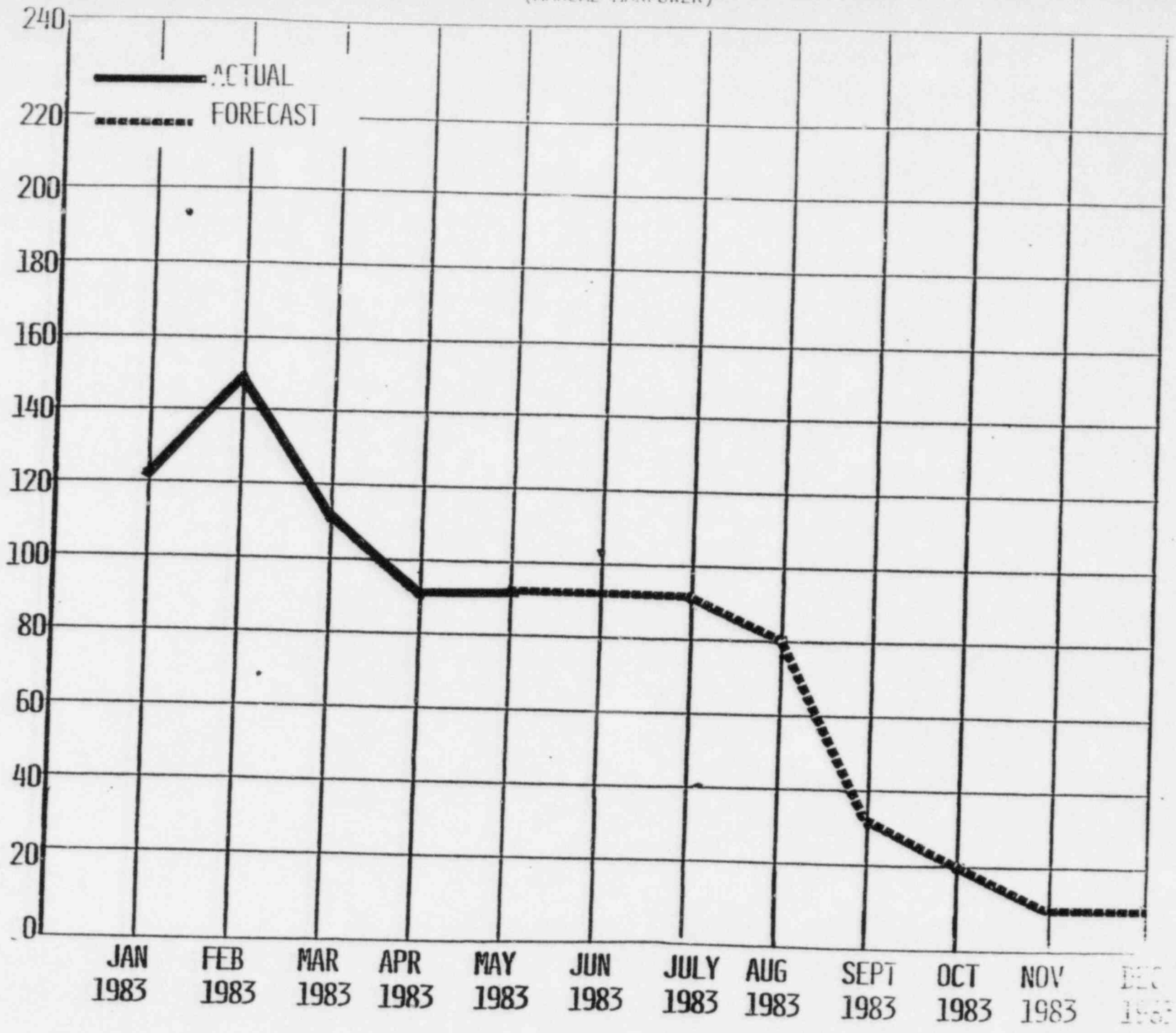



(MANUAL MANPOWER)
ACTUAL
FORECAST
300
275
250
225
200
175
150
125
100
75
50
25
0
JAN 1983
FEB 1983
MAR 1983
APR 1983
MAY 1983
JUN 1983
JULY 1983
AUG 1983
SEPT 1983
OCT 1983
NOV 1983

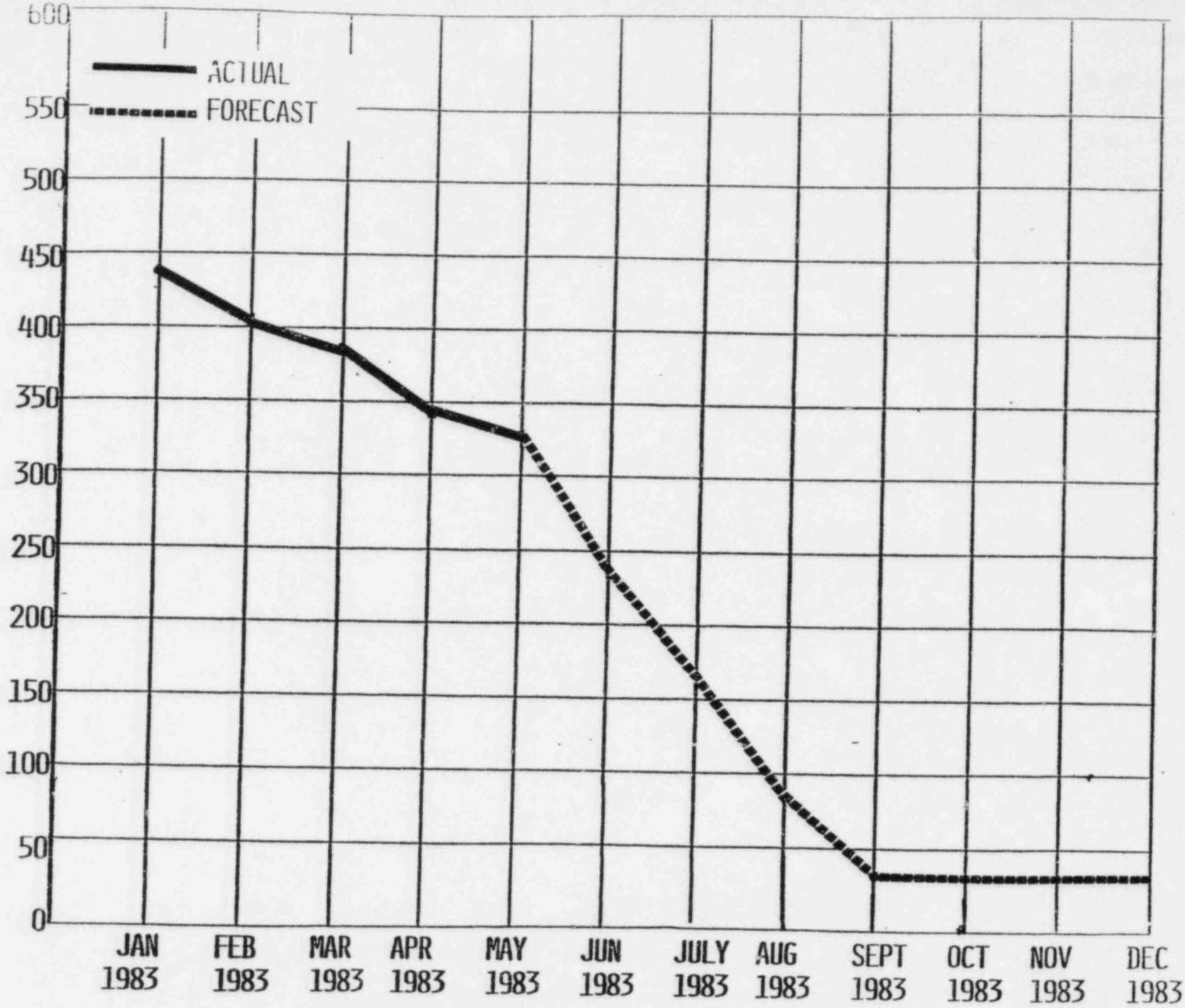
(MANUAL MANPOWER)



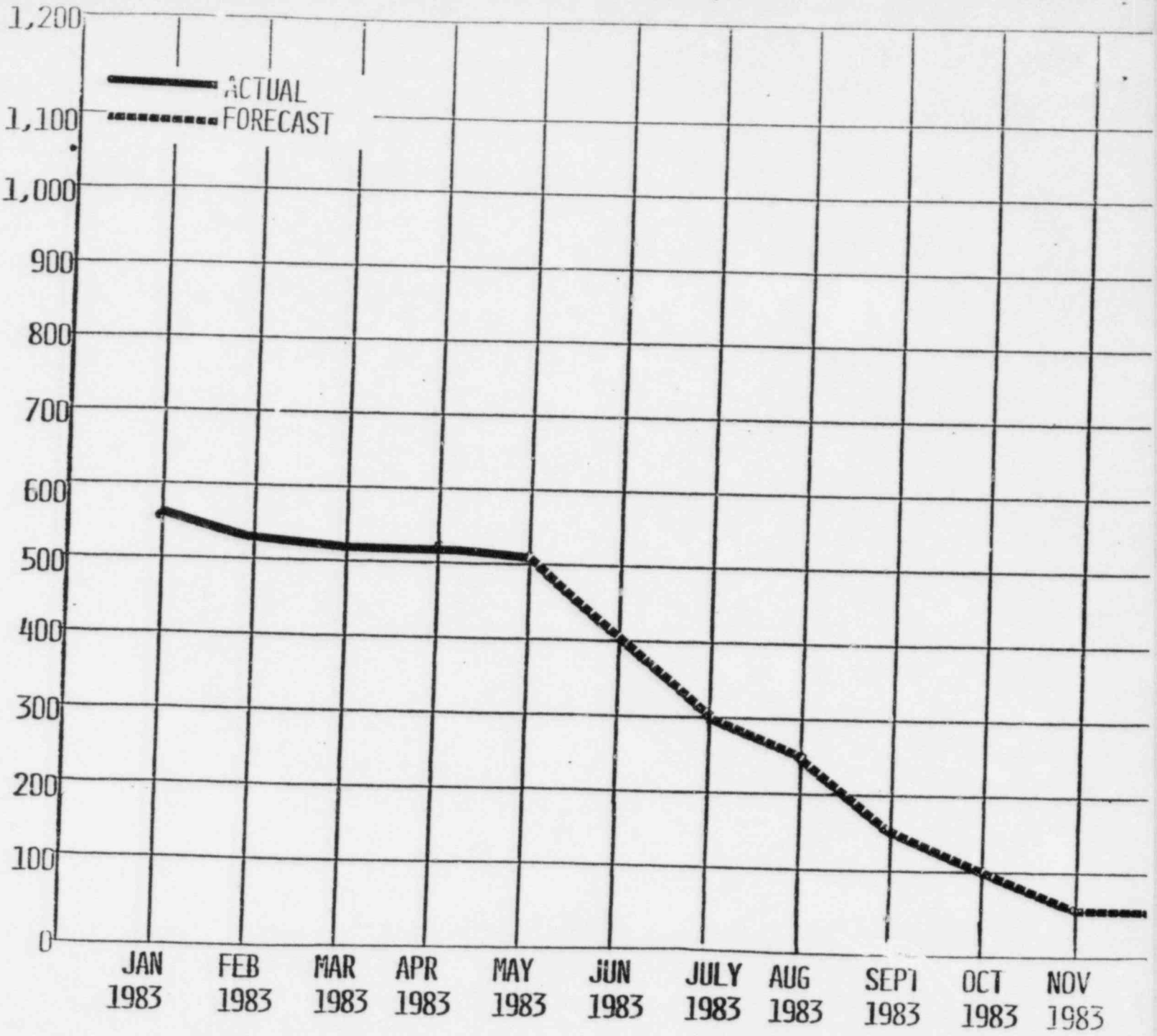
(MANUAL MANPOWER)



(MANUAL MANPOWER)



(MANUAL MANPOWER)



FERMI 2 PROJECT

LABOR NEGOTIATIONS

1983

Negotiations of Millwrights Contract

Settled May 31, 1983

No other labor contracts

to be negotiated for 1983

4a

- NOVEMBER 1978 GENERAL ORDER 274

- PHASE I : JANUARY 1979 THRU NOVEMBER 1981
  PROGRAM DEVELOPMENT
  DATA COLLECTION BY EDISON ON SITE INSPECTORS

- PHASE II NOVEMBER 1981 THRU SEPTEMBER 1982
  DANIEL CONSTRUCTION STUDY
  - FOURTEEN ELEMENT WORK SAMPLE STUDY
  - FOREMAN DELAY SURVEY
  - NON MANUAL STUDY

- PHASE III JANUARY 1983 TO PRESENT
  - SEVEN ELEMENT WORK SAMPLE STUDY
  - BOTH MANUAL AND NON MANUAL

- OTHER USES OF WORK SAMPLING DATA

EIGHT CATEGORIES OF WORK SAMPLING

WORK

WAIT

IDLE

RECEIVE INSTRUCTIONS

PERSONAL

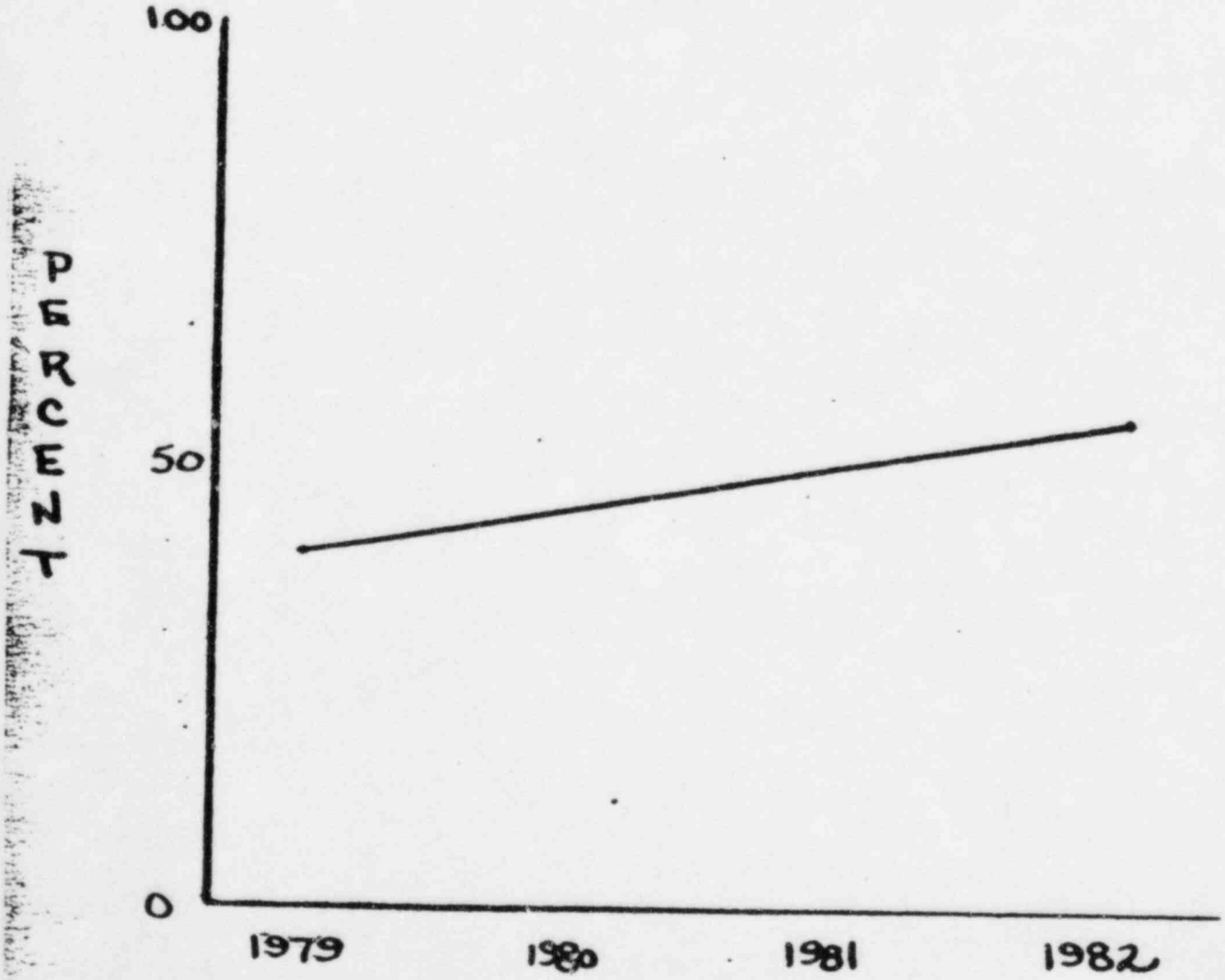
TRAVEL

NON-PRODUCTIVE WORK

UNOBSERVED

PHASE I

PERCENTAGE WORKING



CORRECTIVE ACTION AS A RESULT OF PHASE I

- FOREMEN AND SUPERINTENDENTS IN ASSIGNED WORK AREAS
- ASSIGNMENT OF SCAFFOLDING TO WORK AREAS TO REDUCE DELAYS
- REDUCTION OF LATE STARTS AND EARLY QUITS
- REDUCTION OF DELAYS DUE TO :
  - ENGINEERING RESTRAINTS
  - Q.A. - Q.C.

DANIEL CONSTRUCTION FOURTEEN ELEMENT WORK SAMPLING SYSTEM

1. DIRECT ACTIVITY
2. GET EQUIPMENT
3. EQUIPMENT TRAVEL
4. GET MATERIAL
5. MATERIAL TRAVEL

} WORK

6. PLANNING

REC INST.

7. TRAVEL

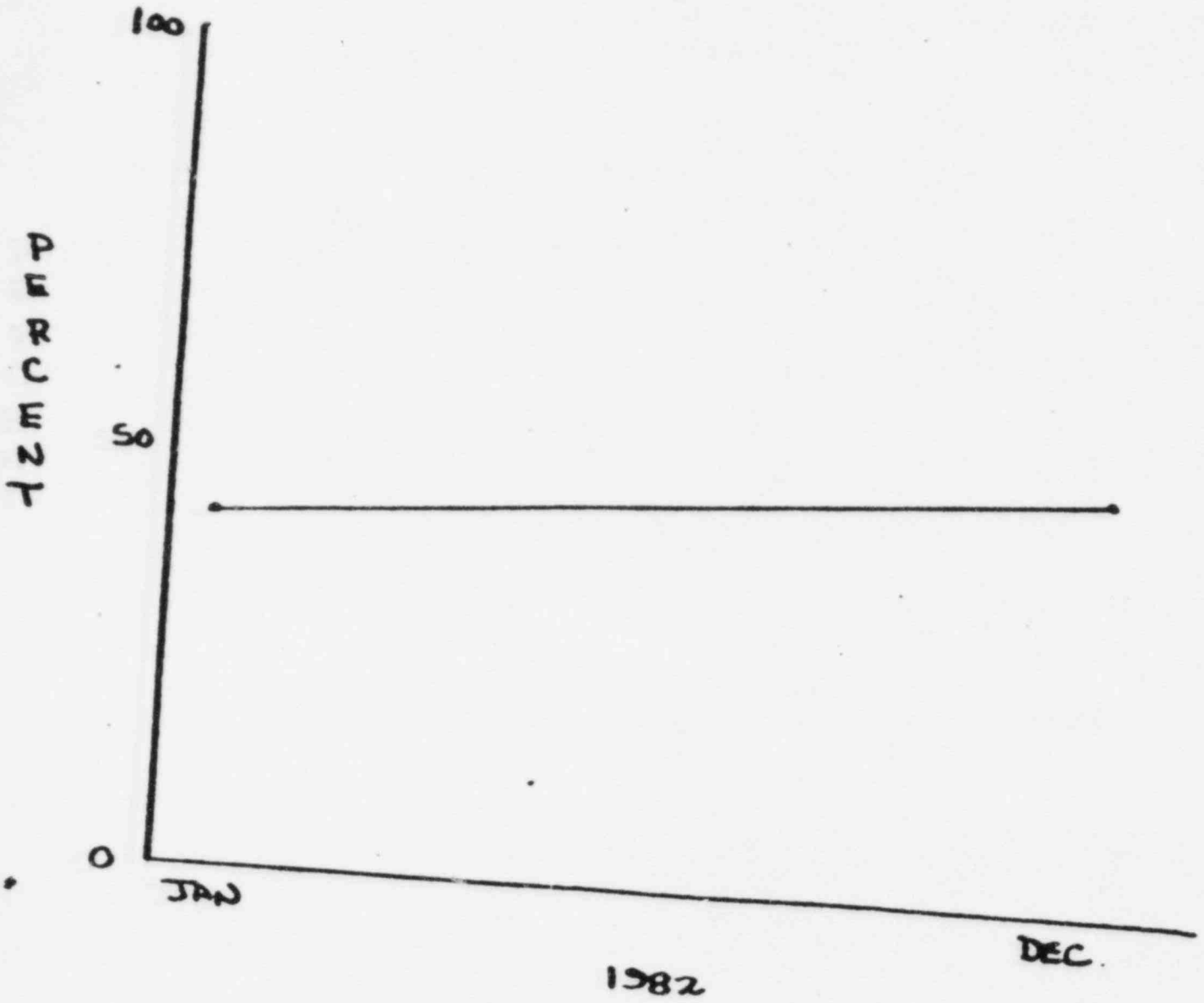
8. EQUIPMENT DELAY
9. MATERIAL DELAY
10. CREW DELAY SAME
11. CREW DELAT OTHER
12. SURERVISORY DELAY
13. MISCELLANEOUS DELAY

} WAIT

14. PERSONAL ACTIVITY

PHASE II

PERCENTAGE WORKING



PHASE II

1. FOREMEN DELAY SURVEY TO HIGHLIGHT DELAYS BY CAUSE

2. REDUCTION OF DELAY TIMES IN FIELD

3. INCREASED COMMUNICATIONS BETWEEN FIELD PERSONNEL AND PROJECT MANAGEMENT

4. NON MANUAL STUDY TO REFLECT UTILIZATION

5. TASK FORCE TO REVIEW FINDINGS WITH CONTRACTOR MANAGEMENT

SEVEN CATEGORIES OF WORK SAMPLING

WORK

WAIT

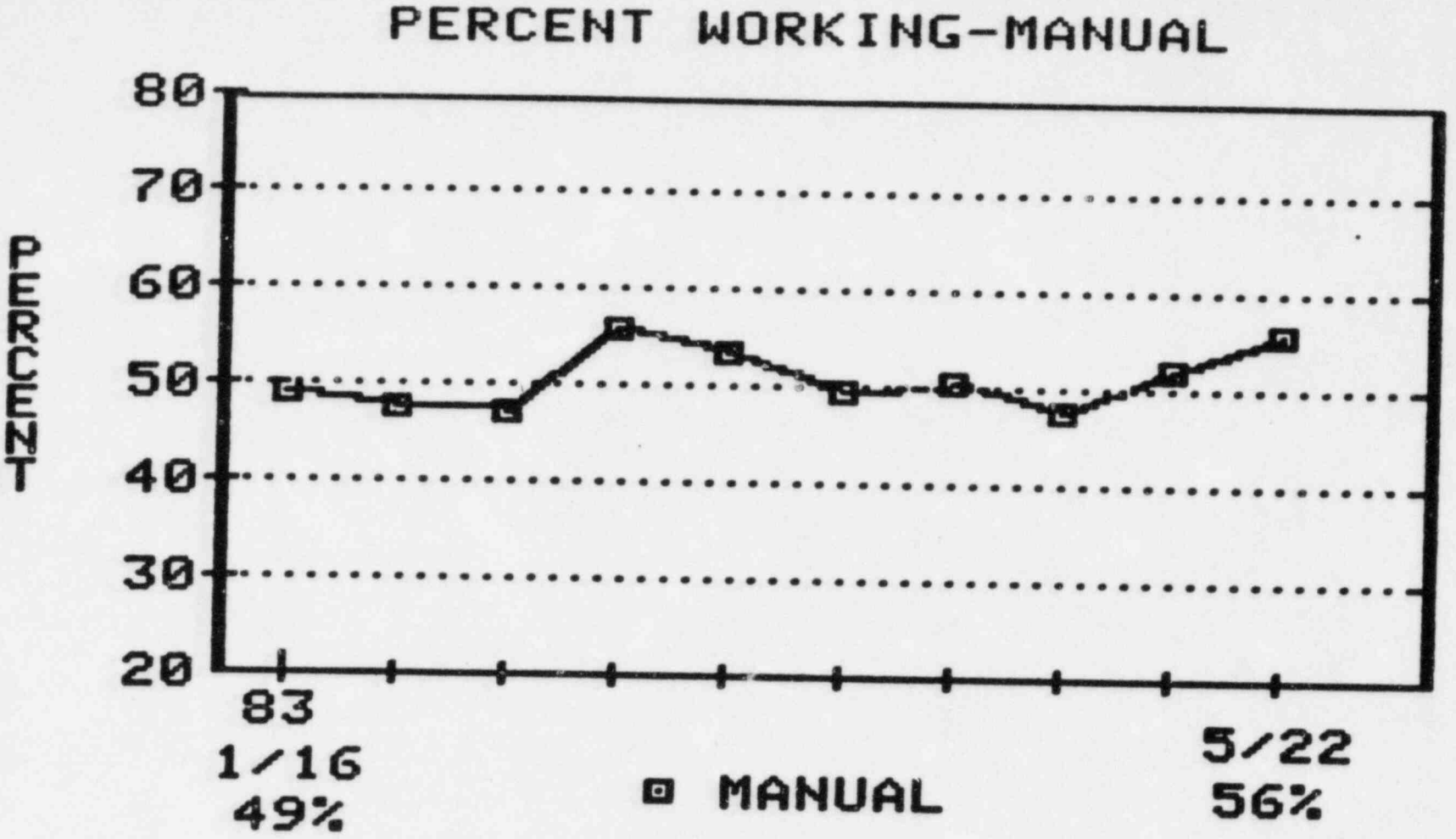
IDLE

RECEIVE INSTRUCTIONS

PERSONAL

TRAVEL

NON-PRODUCTIVE WORK


PERCENT WORKING-MANUAL
80
70
60
50
40
30
20
PERCENT
83
1/16
49%
MANUAL
5/22
56%

PHASE III

1. DETROIT EDISON SEVEN ELEMENT WORK SAMPLING SYSTEM FOR MAXIMUM DATA COLLECTION
   - MANUAL (APPROX. 6,000 OBSERVATIONS BI WEEKLY)
   - NON MANUAL (APPROX. 2,500 OBSERVATIONS)
2. CONTRACTOR REVIEWS BY PROJECT MANAGEMENT
3. CONTINUE PRESENT COVERAGE AND EXPAND TO NEW AREAS

5

LARGE BORE HANGERS

STATUS REPORT - JUNE 3, 1983

ENRICO FERMI UNIT II PROJECT

	TOTAL
TOTAL SUPPORTS REQ'D.	14,364
TOTAL SUPPORTS ACCEPTED WITH PERMANENT PARTS	13,881*
TOTAL SUPPORTS REMAINING TO BE INSTALLED OR ACCEPTED	483

REMAINING SUPPORTS CONSIST OF:

*	ACTIVE SNUBBER ELEMENT -	276
*	PIPE WHIP RESTRAINTS -	10
*	B.O.P. HANGERS -	197
		483

*REWORK AGAINST THESE HANGERS = 98 W&B
100 BECHTEL
150 T.A.P.

SMALL BORE HANGERS

STATUS REPORT - JUNE 3, 1983

ENRICO FERMI UNIT II PROJECT

	TOTAL
TOTAL SUPPORTS REQ'D.	13,255
TOTAL SUPPORTS ACCEPTED WITH PERMANENT PARTS	12,652
TOTAL SUPPORTS REMAINING TO BE INSTALLED OR ACCEPTED	603

INSTRUMENT HANGERS

STATUS REPORT - JUNE 3, 1983

ENRICO FERMI UNIT II PROJECT

	TOTAL
TOTAL SUPPORTS REQ'D.	6,136
TOTAL SUPPORTS ACCEPTED WITH PERMANENT PARTS	4,149
TOTAL SUPPORTS REMAINING TO BE INSTALLED OR ACCEPTED	1,987*

* 1,906 ARE Q.A. I STANDARDS THAT ARE INSTALLED BUT NOT ACCEPTED TO DATE.

LARGE BORE, SMALL BORE & INSTRUMENTATION SNUBBERS

STATUS REPORT - JUNE 3, 1983

ENRICO FERMI UNIT II PROJECT

LARGE BORE SNUBBERS	HYDRAULIC	MECHANICAL		
		LB	SB	I&C
TOTAL REQUIRED	215	368	101	211
REAR BRACKET AND PERMANENT CLAMP INSTALLED	215	368	101	211
ACTIVE ELEMENT RELEASED FOR CONSTRUCTION	215	368 [1]	101	211
INSTALLATION COMPLETE AND ACCEPTED	56	251	71	193
REMAINING	159	117	30	18

NOTE 1 - THIS ITEM INCLUDES THE INSTALLATION OF THE 8 SNUBBERS TO BE DELIVERED FROM T.V.A.

PIPE WHIP RESTRAINTS

STATUS REPORT - JUNE 3, 1983

ENRICO FERMI UNIT II PROJECT

TOTAL REQUIRED	177
RELEASED TO CONSTRUCTION	177
REMAINING TO BE ACCEPTED	10

STRESS REPORT RECONCILIATION
STATUS REPORT JUNE 3, 1983
ENRICO FERMI UNIT 2 PROJECT

	ASME CLASS I	ASME CLASS II/III	TORUS-ATTACHED PIPING
TOTAL REQUIRED	25	73	42
AS-BUILT DATA COMPLETE	25	58(2)	41(2)
AS-BUILT STRESS REPORT COMPLETE	14	41	42(1)
SCHEDULED COMPLETION OF REMAINING AS-BUILT REPORTS	AUG. 1983	NOV. 1983	N/A
CERTIFICATION OR COMPLETION OF FINAL STRESS REPORTS	NOV. 1983	POST F.L.	POST. F.L.

(1) AS-BUILT PACKAGES FOR TORUS-ATTACHED PIPING ARE COMPLETE, HOWEVER, HANGER MODIFICATIONS RESULTING FROM THE ANALYSIS ARE NOT COMPLETED YET.

(2) 16 NEW PACKAGES IDENTIFIED IN MAY, 1983

GENERAL NOTES

1. SNUBBER REDUCTION PROGRAM - PROJECT ENGINEERING HAS COMPLETED THE FIRST PHASE BY REVIEWING ALL THE SNUBBER APPLICATIONS TO THE ACTUAL MOVEMENTS INVOLVED FOR EACH. THIS HAS RESULTED IN THE ELIMINATION OF OVER 250 MECHANICAL AND HYDRAULIC SNUBBERS. FURTHER REDUCTIONS ARE EXPECTED AS THE REMAINING STRESS REPORTS ARE RECONCILED AS HAS BEEN SHOWN BY THE FINALIZING OF PREVIOUS STRESS REPORTS.

2. STRUTS - MODIFICATIONS TO STRUTS ARE BEING MADE ON A SCHEDULED BASIS.

3. LUG GAPS - AN INSPECTION OF ALL LARGE BORE AND SMALL BORE WAS COMPLETED IN JANUARY 1982. PROJECT ENGINEERING HAS COMPLETED REVIEW OF LARGE BORE AND MODIFICATIONS (11) HAVE BEEN RELEASED TO CONSTRUCTION. REVIEW OF THIS SUBJECT WITH ISA YIN, MAY 1983, REQUESTED EDISON TO PROPOSE A PLAN FOR REVIEWING WHAT HAS BEEN INSTALLED SINCE LAST INSPECTION AND INVESTIGATE WHETHER GAP CRITERIA CAN BE LIBERALIZED, PARTICULARLY WITH THE SMALL BORE SUPPORTS. EDISON PROJECT ENGINEERING IS PRESENTLY REVIEWING THIS MATTER.

4. PRE-OPERATIONAL TEST WALKDOWNS FOR SUPPORTABILITY HAVE ALL BEEN COMPLETED. THIS ALLOWS TESTING AND OPERATION OF SYSTEMS TO PROCEED.

OVERVIEW

OVERALL HANGER PROGRAM IS IN EXCELLENT SHAPE. NO PROBLEMS ARE FORESEEN IN MEETING OUR FUEL LOAD DATE.

7.

FERMI 2
SUMMARY OF SELECTED
SIGNIFICANT PROJECT QUANTITIES

MAY, 1983

	Unit	Total Installed Current Year	Total Installed To Date	Current Estimate	Remaining To-Go	Percent Complete
Civil						
Concrete	cy	2,347	323,352	323,439	87	100.0
Structural Steel	ton	140	12,586	12,836	250	98.1
Plant Painting	*nu	N/A	65	100	35	64.9
Doors, Sac. Shield	*nu	N/A	87	100	13	87.0
Penetration Seals	ea	5,115	7,130	8,846	1,716	82.7
Shield Planks & Blocks	ea	9,947	34,719	38,171	3,452	91.0
Piping						
Large Bore Pipe	lf	665	216,614	217,683	1,069	99.5
Large Bore Welds	ea	530	19,839	19,943	104	99.5
Large Bore Hangers	ea	571	14,721	15,203	482	96.8
Large Bore Valves	ea	18	2,540	2,571	31	98.8
Large Bore Trim	ea	15	2,977	3,112	135	95.6
Small Bore Pipe	lf	4,936	116,439	117,703	1,264	98.9
Small Bore Hangers	ea	1,219	12,776	13,553	777	94.3
Instrument Pipe	lf	1,636	18,997	19,728	731	96.3
Instrument Tubing	lf	5,715	295,102	298,809	2,930	98.8
Instrument Hangers	ea	509	1,827	2,009	182	90.9
Pipe Insulation	lf	37,169	76,708	110,455	33,747	69.5
Whip Restraints	ea	60	167	178	11	93.8
Other Direct Piping	*nu	N/A	94	100	6	94.0
Electrical						
Terminations	ea	33,462	268,198	291,403	23,205	92.9
Wire & Cable	lf	434,956	8,278,964	8,538,296	259,332	97.0
Conduit	lf	19,906	882,175	901,305	19,130	97.9
Tray	lf	178	70,870	70,870	0	100.0

*The unit NU is defined as the work effort normalized to 100

			(ACTUALS) APRIL			(ACTUALS) MAY		
CIVIL	TOTAL ESTIMATED MANHOURS	TOTAL ESTIMATED QUANTITY	INSTALLED QUANTITY	WEIGHTED MANHOURS	PERCENT COMPLETE	INSTALLED QUANTITY	WEIGHTED MANHOURS	PERCENT COMPLETE
CONCRETE	3275092	323439	323338	3274069	99.97	323352	3274211	99.97
STRUC STL	345108	12836	12552	337472	97.79	12586	338387	98.05
DOORS	27920	27920	22203	22203	79.52	24298	24298	87.03
PEN SEALS	247284	8846	5842	163309	66.04	7312	204402	82.66
PLK & BLK	41297	38171	34719	37562	90.96	34719	37562	90.96
TSC/OBA	90815	90815	89090	89090	98.10	89090	89090	98.10
PAINTING	520837	1014441	550400	282588	54.26	658325	337999	64.90
OSSF	84084	84084	40380	40380	48.02	47047	47047	55.95
DRYWELL S	47326	47326	30352	30352	64.13	41061	41061	86.76
HOT SHOP	24736	24736	5248	5248	21.22	5248	5248	21.22
FAB SHOP	361286	361286	347352	347352	96.14	348421	348421	96.44
MISC	1617569	1617569	1524483	1524483	94.25	1529468	1529468	94.55
TOTAL	6683354			6154109	92.08		6277194	93.92
PIPING								
LB PIPE	524400	217683	216614	521825	99.51	216614	521825	99.51
LB WELDS	1206505	19943	19772	1196160	99.14	19839	1200213	99.48
LB VALVES	115930	2571	2540	114532	98.79	2540	114532	98.79
LB TRIM	61297	3112	2977	58638	95.66	2977	58638	95.66
LB HANGER	1235088	15203	14581	1184557	95.91	14721	1195930	96.83
SB PIPE	852847	117703	116439	843688	98.93	116439	843688	98.93
SB HANGER	386245	13553	12635	360083	93.23	12776	364101	94.27
TUBING	824812	298809	294902	814027	98.69	295102	814579	98.76
IC PIPE	125484	19728	18822	119721	95.41	18997	120834	96.29
IC HANGER	86643	2009	1711	73791	85.17	1827	78794	90.94
PIPE INSU	113018	110471	67318	68261	60.94	76724	77798	69.45
EQ INSULA	29569	29758	26100	27759	93.88	26212	27814	94.07
MISC	1691855	1691855	1567915	1567915	92.67	1586795	1586795	93.79
TOTAL	7252693			6950957	95.84		7005544	96.59
MECHANICAL								
TURBINE	272326	272326	272326	272326	100.00	272326	272326	100.00
HVAC	190485	190485	190485	190485	100.00	190485	190485	100.00
CRD	311833	311833	311833	311833	100.00	311833	311833	100.00
MISC	35253	35253	35253	35253	100.00	35253	35253	100.00
TOTAL	809897			809897	100.00		809897	100.00
ELECTRICAL								
CONDUIT	1007691	901305	881553	985608	97.81	882175	986303	97.88
CABLE	644593	8538296	8228187	621182	96.37	8278964	625015	96.96
TERMINATI	221679	291403	265908	202284	91.25	268198	204026	92.04
CBL TRAY	564026	70870	70870	564026	100.00	70870	564026	100.00
INSTRUMEN	88664	88664	88077	88077	99.34	88260	88260	99.54
GROUNDING	57312	57312	56053	56053	97.80	56228	56228	98.11
LIGHTING	70711	70711	68864	68864	97.39	68871	68871	97.40
MISC	1226687	1226687	1108244	1108244	90.34	1112727	1112727	90.71
TOTAL	3881363			3694337	95.18		3705456	95.47
GRAND TOTAL	18627307			17609300	94.53		17798091	95.55

CIVIL	RECENT HISTORY (DEC-MAY) PROJECTION DATA			JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER		
	NO OF MTH TO FINISH	AVE (QTY) MTH CHNGE	TO-GO QTY (MAY)	INSTALLED QUANTITY	WEIGHTED MANHOURS	PERCENT COMPLETE	INSTALLED QUANTITY	WEIGHTED MANHOURS	PERCENT COMPLETE	INSTALLED QUANTITY	WEIGHTED MANHOURS	PERCENT COMPLETE	INSTALLED QUANTITY	WEIGHTED MANHOURS	PERCENT COMPLETE	INSTALLED QUANTITY	WEIGHTED MANHOURS	PERCENT COMPLETE	INSTALLED QUANTITY	WEIGHTED MANHOURS	PERCENT COMPLETE	INSTALLED QUANTITY	WEIGHTED MANHOURS	PERCENT COMPLETE
CONCRETE	1	95	87	323439	3275092	100.00	323439	3275092	100.00	323439	3275092	100.00	323439	3275092	100.00	323439	3275092	100.00	323439	3275092	100.00	323439	3275092	100.00
STRUC STL	7	36	250	12622	339347	98.33	12657	340307	98.61	12693	341267	98.89	12729	342227	99.17	12765	343188	99.44	12800	344148	99.72	12836	345108	100.00
DOORS	2	2196	3622	26494	26494	94.89	27920	27920	100.00	27920	27920	100.00	27920	27920	100.00	27920	27920	100.00	27920	27920	100.00	27920	27920	100.00
PEN SEALS	2	992	1534	8304	232138	93.88	8846	247284	100.00	8846	247284	100.00	8846	247284	100.00	8846	247284	100.00	8846	247284	100.00	8846	247284	100.00
PLX & BLK	2	1989	3452	36708	39715	96.17	38171	41297	100.00	38171	41297	100.00	38171	41297	100.00	38171	41297	100.00	38171	41297	100.00	38171	41297	100.00
TSC/DB/GT	2	863	1725	89953	89952	99.05	90815	90815	100.00	90815	90815	100.00	90815	90815	100.00	90815	90815	100.00	90815	90815	100.00	90815	90815	100.00
PAINTING	4	94460	356116	752785	386497	74.21	847245	434995	83.52	941706	483493	92.83	1014441	520837	100.00	1014441	520837	100.00	1014441	520837	100.00	1014441	520837	100.00
OSSF	7	5291	37037	52338	52338	62.24	57629	57629	68.54	62920	62920	74.83	68211	68211	81.12	73502	73502	87.41	78793	78793	93.71	84084	84084	100.00
DRYWELL S	4	3133	6265	42627	42627	90.07	44194	44193	93.38	42627	42627	90.07	47326	47326	100.00	47326	47326	100.00	47326	47326	100.00	47326	47326	100.00
HOT SHOP	7	2624	19488	7872	7872	31.82	10496	10496	42.43	13120	13120	53.04	15744	15744	63.65	18368	18368	74.26	20992	20992	84.86	24736	24736	100.00
FAB SHOP	7	1815	12065	350236	350236	96.94	352052	352052	97.44	353867	353867	97.95	355683	355683	98.45	357498	357498	98.95	359313	359313	99.45	361286	361286	100.00
MISC	7	12586	88101	1542054	1542054	95.33	1554640	1554640	96.11	1567226	1567226	96.89	1579811	1579811	97.67	1592397	1592397	98.44	1604983	1604983	99.22	1617569	1617569	100.00
TOTAL	4	105232	406160		6384363	95.53		6476720	96.91		6546928	97.96		6612247	98.94		6635524	99.28		6658800	99.63		6683354	100.00
PIPING																								
LB PIPE	7	153	1069	216767	522193	99.58	216919	522561	99.65	217072	522928	99.72	217225	523296	99.79	217378	523664	99.86	217530	524032	99.93	217683	524400	100.00
LB WELDS	1	106	104	19943	1206505	100.00	19943	1206505	100.00	19943	1206505	100.00	19943	1206505	100.00	19943	1206505	100.00	19943	1206505	100.00	19943	1206505	100.00
LB VALVES	7	4	31	2544	114732	98.97	2549	114932	99.14	2553	115131	99.31	2558	115331	99.48	2562	115531	99.66	2567	115730	99.83	2571	115930	100.00
LB TRIM	7	19	135	2996	59018	96.28	3016	59398	96.90	3035	59778	97.52	3054	60157	98.14	3073	60537	98.76	3093	60917	99.38	3112	61297	100.00
LB HANGER	4	114	482	14835	1205208	97.58	14949	1214486	98.33	15060	1223763	99.08	15203	1235088	100.00	15203	1235088	100.00	15203	1235088	100.00	15203	1235088	100.00
SB PIPE	1	988	1264	117703	852847	100.00	117703	852847	100.00	117703	852847	100.00	117703	852847	100.00	117703	852847	100.00	117703	852847	100.00	117703	852847	100.00
SB PIPE	3	244	777	13020	371049	96.07	13264	377997	97.86	13553	386245	100.00	13553	386245	100.00	13553	386245	100.00	13553	386245	100.00	13553	386245	100.00
TUBING	3	1143	3707	296245	817735	99.14	297388	820890	99.52	298809	824812	100.00	298809	824812	100.00	298809	824812	100.00	298809	824812	100.00	298809	824812	100.00
IC PIPE	2	327	731	19324	122916	97.95	19728	125484	100.00	19728	125484	100.00	19728	125484	100.00	19728	125484	100.00	19728	125484	100.00	19728	125484	100.00
IC HANGER	2	102	182	1929	83184	96.01	2009	86643	100.00	2009	86643	100.00	2009	86643	100.00	2009	86643	100.00	2009	86643	100.00	2009	86643	100.00
PIPE INSU	4	7840	33747	84564	85748	76.55	92404	93698	83.65	100243	101647	90.76	110471	112018	100.00	110471	112018	100.00	110471	112018	100.00	110471	112018	100.00
EQ INSULA	6	628	3546	56840	28125	95.12	57467	28435	96.17	58095	28746	97.22	58722	29057	98.27	59350	29367	99.32	59758	29569	100.00	59758	29569	100.00
MISC	4	26055	105060	1612850	1612850	95.33	1691855	1691855	100.00	1664960	1664960	98.41	1691855	1691855	100.00	1691855	1691855	100.00	1691855	1691855	100.00	1691855	1691855	100.00
TOTAL	3	74385	247149		7082109	97.65		7195729	99.21		7199490	99.27		7249338	99.95		7250596	99.97		7251746	99.99		7252693	100.00
MECHANICAL																								
TURBINE	0	0	0	272326	272326	100.00	272326	272326	100.00	272326	272326	100.00	272326	272326	100.00	272326	272326	100.00	272326	272326	100.00	272326	272326	100.00
HVAC	0	0	0	190485	190485	100.00	190485	190485	100.00	190485	190485	100.00	190485	190485	100.00	190485	190485	100.00	190485	190485	100.00	190485	190485	100.00
CRD	0	0	0	311833	311833	100.00	311833	311833	100.00	311833	311833	100.00	311833	311833	100.00	311833	311833	100.00	311833	311833	100.00	311833	311833	100.00
MISC	0	0	0	35253	35253	100.00	35253	35253	100.00	35253	35253	100.00	35253	35253	100.00	35253	35253	100.00	35253	35253	100.00	35253	35253	100.00
TOTAL	0	0	0		809897	100.00		809897	100.00		809897	100.00		809897	100.00		809897	100.00		809897	100.00		809897	100.00
ELECTRICAL																								
CONDUIT	3	6692	19130	888867	993785	98.62	895560	1001268	99.36	901305	1007691	100.00	901305	1007691	100.00	901305	1007691	100.00	901305	1007691	100.00	901305	1007691	100.00
CABLE	3	86991	259332	8365955	631582	97.98	8452946	638150	99.00	8538296	644593	100.00	8538296	644593	100.00	8538296	644593	100.00	8538296	644593	100.00	8538296	644593	100.00
TERMINATI	6	3981	23205	272179	207055	93.40	276160	210083	94.77	280142	213112	96.14	284123	216141	97.50	288104	219169	98.87	291403	221679	100.00	291403	221679	100.00
CBL TRAY	0	0	0	70870	564026	100.00	70870	564026	100.00	70870	564026	100.00	70870	564026	100.00	70870	564026	100.00	70870	564026	100.00	70870	564026	100.00
INSTRUMEN	1	404	404	88664	88664	100.00	88664	88664	100.00	88664	88664	100.00	88664	88664	100.00	88664	88664	100.00	88664	88664	100.00	88664	88664	100.00
GROUNDING	2	461	1084	56689	56689	98.91	57312	57312	100.00	57312	57312	100.00	57312	57312	100.00	57312	57312	100.00	57312	57312	100.00	57312	57312	100.00
LIGHTING	2	801	1840	69672	69672	98.53	70711	70711	100.00	70711	70711	100.00	70711	70711	100.00	70711	70711	100.00	70711	70711	100.00	70711	70711	100.00
MISC	7	15595	113960	1128322	1128322	91.98	1143918	1143918	93.25	1159513	1159513	94.52	1175109	1175109	95.80	1190704	1190704	97.07	1206299	1206299	98.34	1226687	1226687	100.00
TOTAL	5	782823	175907		3739775	96.35		3774132	97.24		3805622	98.05		3824246	98.53		3842870	99.01		3860975	99.47		3881363	100.00
GRAND TOTAL	4	330884	1217226		18016164	96.72		18256478	98.01		18361937	98.58		18495728	99.29		18538887	99.53		18581418	99.75		18627307	100.00

8.

Detroit Edison

Date: May 11, 1983
F2S83-1437
Revision 2

To: Distribution

From: R. Hoch - Supervisor
System Completion Planning

Subject: Preoperational/Acceptance Test Summary

Attached is an updated listing of the Preoperational and Acceptance Tests. Additional information has been provided to the last issue. This information includes reference to the subscopes associated with each procedure and punchlist data as well as more up-to-date information.

Also listed are the various memos required to support the test. SU/SCO Planning will update and issue this listing at least monthly.

Please direct your questions and/or comments on this listing to me at extension 5467.

RH:lss

cc: SU Staff
P. Acharya
J. Ard
G. Barthelman
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B. Bednar
T. Bennett
D. Breen
R. Buckler
C. Duckworth
D. Elliott
W. Fahrner
R. Fenton
J. Garin
C. Gelletly
A. Godoshian
E. Griffing
P. Harrigan
W. Holland
J. Hughes (2)
W. Jens
J. Labbee
S. Latone
R. Lenart
J. Malaric
J. Matley
R. May
W. Maveal
M. Michalek
B. Miller
G. Mookerjee
R. Mozeleski
M. Nelson
E. Newton
S. Noetzel
J. Nyquist
G. Overbeck
T. Poston
L. Randis
F. Reiman
D. Spiers
J. Thomas (2)
G. Trahey
L. Trapp
R. Vance
J. Walker
S. Wright
ARMS
File: 10.10

PREL/ACPT SUMMARY (BY PREL/ACPT NO.)

PREL/ACPT NUMBER / TITLE	SUB-SCOPES	TURNOVERS	SCHED ACTUAL	FINISH SCHED ACTUAL	REMARKS/NOTES ENDING HANGERS	CHG	MOD TYPE SCHED ACPT I/O	I.E. SUE	REC NRIF PKG START	COMMENTS
ACPT.A7000.001 SECURITY SYSTEM	A70-001 A70-002 A70-003 A70-004 A70-005 A70-006 X21-071 X21-072 X21-073		06/06/83 12/28/82	08/12/83	12/17/82 12/13/82		08/26/83		12/27/82 07/11/83	PROJECT ACPT RESTART 7/11/83
ACPT.B2107.001 LOOSE PARTS MONITORING	B21-07		06/29/83	07/26/83			08/02/83		06/29/83	
ACPT.C9200.001 PLANT COMPUTER SYSTEM	C92-00		07/26/83	10/31/83			11/07/83		05/20/83	
ACPT.C9400.001 EMERGENCY RESPONSE INFORMATION SYSTEM (ERIS)	C94-00		07/04/83	09/09/83			09/16/83		06/06/83 09/02/83	
ACPT.D4000.001 PLANT METEROLOGICAL MONITORING SYSTEM	D40-00		04/25/83	06/03/83			06/10/83		06/03/83	TESTING TO BE PERFORMED BY VENDOR
ACPT.H1101.001 ENGINEERING SAFETY FEATURE STATUS DISPLAY	H11-01		04/25/83	05/06/83			05/13/83		06/01/83	
ACPT.H3000.001 ANNUNCIATOR & SEQUENCE RECORDER SYSTEM	H30-001 H30-002 H30-003 H50-00		06/13/83	08/19/83			08/26/83		08/26/83	
ACPT.N2200.001 HEATER DRAIN SYSTEM	N22-00 N22-001 N22-002 N22-003		04/22/83	08/05/83	03/26/83		08/12/83		05/13/83	HANGER MEMO IS PARTIAL

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED ACTUAL	FINISH SCHED ACTUAL	MEMORANDUMS ENGRG HANGERS	MEMORANDUMS FQA	NUC PROD SCHD T/O ACTL T/O	RELEASE TRC SUE	RELEASE NRC NOTF PRJ STRT	REMARKS
ACPT.N3011.001 TURBINE STEAM SYSTEM	N30-111 N30-112 N30-17 N30-171 N30-172 N30-18 N30-181 N30-182 N30-19 N30-21 N30-39 N30-391 N30-392		08/23/82 02/10/83	07/15/83	12/20/82 02/22/83		07/29/83	02/10/83	01/31/83	
ACPT.N3012.002 TURBINE SUPERVISORY GEAR	N30-12B		05/16/83	07/15/83	07/16/82		07/29/83		05/06/83	ONE OF 3 TESTS ON THIS SYSTEM. ALL PUNCHLIST CARDS ARE ALLOCATED TO TEST .001
ACPT.N3012.003 TURBINE PROTECTION SYSTEM	N30-12C		05/16/83	07/15/83	07/16/82		07/29/83		05/06/83	ONE OF 3 TESTS ON THIS SYSTEM, ALL PUNCHLIST CARDS ARE ALLOCATED TO TEST .001
ACPT.N3013.001 TURBINE SEALING STEAM SYSTEM	N30-13 N30-131 N30-132		12/27/82 01/04/83	05/20/83	10/23/82 10/11/82		05/27/83			
ACPT.N3014.001 TURBINE LUBRICATING OIL	N30-14 N30-141 N30-142		03/15/82 07/29/82	04/15/82 09/23/82	08/02/82 04/16/82		05/15/82 02/18/83	07/26/82		SUBMITTED TO NUC PRODUCTION 120282
ACPT.N3016.001 MAIN TURBINE EXTRACTION STEAM SYSTEM	N30-16 N30-161 N30-162		08/09/82 11/20/82	05/25/83	10/15/82 10/01/82		04/01/83	10/01/82	10/18/82	
ACPT.N3020.001 LP TURBINE HOOD COOLING SYSTEM	N30-20		05/17/83	05/20/83	12/27/82 04/26/82		05/27/83			

PREOP/ACPT SUMMARY BY PREOP/ACPT NO.

PREOP/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED/ACTUAL	FINISH SCHED/ACTUAL	ENGRG HANGERS	FDA	ACT FROM RELEASE SCHED/ACTUAL	TRC SUB	NRC NOTF PRJ STRT	REMARKS
ACPT.N3022.001 HIGH PRESSURE FLANGE HEATING SYSTEM	N30-22 N30-221 N30-222		12/22/82 01/05/83	06/21/83	12/08/82 12/06/82		04/08/83			
ACPT.N3031.001 MAIN UNIT GENERATOR & EXCITATION SYSTEM	N30-31 N30-34 S11-00 S12-00 S13-00		05/16/83	06/24/83			06/31/83		05/27/83	
ACPT.N3032.001 HYDROGEN SEAL OIL SYSTEM	N30-32		07/05/82 07/27/82	08/16/82 10/15/82	08/04/82 08/10/82		10/13/82 11/19/82	07/29/83		SUBMITTED TO NUC PRODUCTION 101582
ACPT.N3033.001 STATOR COOLING SYSTEM	N30-33		03/28/83	05/20/83	12/15/82		05/27/83		04/22/83	
ACPT.N3035.001 HYDROGEN COOLING SYSTEM/HYDROGEN SUPPLY SYSTEM & CO2 PURGE SYSTEM	N30-35 N30-36 N30-37		05/02/83	06/03/83	12/30/82		06/10/83		05/06/83	
ACPT.P2100.001 POTABLE WATER SYSTEM	P21-001 P21-002 P21-003 P21-004 P21-005 P21-006		04/26/82 05/12/82	05/31/82 05/14/82	05/07/82 05/10/82		06/31/82 01/20/83	05/13/82		SUBMITTED TO NUC PRODUCTION 110982
ACPT.P4103.001 CSW CHLORINATION SYSTEM	P41-03		04/15/83	04/29/83	08/31/82 09/29/82		05/06/83			
ACPT.P5003.001 BREATHING AIR SYSTEM	P50-03		08/02/82 12/30/82	04/08/83	12/28/82 10/01/82		04/15/83	12/29/82		
ACPT.P6100.001 AUXILIARY BOILER SYSTEM	P61-00		03/08/82 05/25/82	04/19/82 04/27/82	05/18/82 05/19/82		05/19/82 01/14/83	05/09/82		SUBMITTED TO NUC PRODUCTION 112982
ACPT.P7000.001 WASTE OIL SYSTEM	P70-00		02/22/83 12/20/82	[illegible]	12/16/82 12/07/82		02/11/83 04/29/83	12/20/82 12/20/82	12/15/82	SUBMITTED TO NUC PRODUCTION 040583

PRET/ACPT NUMBR	TITLE	SUB-SCOPES	TURNOVERS	START SCHED ACTUAL	FINISH SCHED ACTUAL	MILESTONES ENGRG HANGERS	FOA	HUC PROD SCHD T/O ACTL T/O	TRC SUE	NRC FRJ	NOTF STRT	REMARKS
ACPT.K1101.001								05/11/03				
BOP PLANT ELECTRICAL SYSTEM		K12-01										ACPT DELETED
		K12-011										
		K12-02										
		K12-03										
		K12-04										
		K12-06										
		K12-07										
		K14-00										
		K14-04										
		K14-07										
		K14-08										
		K14-09										
		K14-10										
		K14-11										
		K14-16										
		K14-21										
		K14-22										
		K14-23										
		K14-24										
		K14-25										
		K14-26										
		K14-27										
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		K14-29										
		K14-34										
		K14-35										
		K14-36										
		K14-37										
		K14-38										
		K16-01										
		K16-02										
		K16-03										
		K16-21										
		K16-22										
		K16-23										
		K16-24										
		K16-25										
		K16-26										
		K16-27										
		K16-28										
		K16-29										
		K16-30										
		K16-31										

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED	START ACTUAL	FINISH SCHED	FINISH ACTUAL	MEMORANDUMS ENGRG HANGERS	MEMORANDUMS PQA	NUC-PROD SCHD T/O	NUC-PROD ACTL T/O	RELEASE TRC SUE	RELEASE NRC NOTF PRJ STRT	REMARKS
ACPT.R1101,001	R16-32												
	R16-33												
	R16-34												
	R16-35												
	R16-36												
	R16-37												
	R16-50												
	R16-51												
	R16-52												
	R16-53												
	R16-54												
	R16-55												
	R16-56												
	R16-57												
	R16-59												
	R16-60												
ACPT.R1500.001 GROUNDING & LIGHTING PROTECTION	R15-00		04/18/83	05/20/83					05/27/83			04/22/83	
ACPT.T4111.001 STEAM TUNNEL COOLING SYSTEM	T41-A		03/08/82 08/19/82	04/19/82 02/07/83	05/17/82 04/26/82				05/19/82 03/31/83	05/19/82			SUBMITTED TO NUC PRODUCTION 022803
ACPT.T4112.001 RECIRCULATING MG SET COOLING	T41-B		05/31/82 09/30/82	07/12/82 02/01/83	09/11/82 08/23/82				08/12/82 03/31/83	09/29/82			SUBMITTED TO NUC PRODUCTION 022803
ACPT.U3100.001 TURBINE BUILDING CRANE	U31-00 U31-001 U31-002		03/21/83 03/07/83	04/22/83	02/07/83				04/29/83	03/07/83			
ACPT.U4500.001 TURBINE BUILDING RADIOACTIVE DRAINS SYSTEM	U45-00		05/10/83 03/07/83	06/06/83					06/13/83	03/07/83			
ACPT.U4500.001 RADWASTE BUILDING FLOOR & EQUIPMENT DRAINS SYSTEM	U45-00		04/14/83 03/08/83	05/13/83	12/28/82				04/15/83	03/08/83			
ACPT.W2300.001 CIRCULATING WATER CHLORINATION	W23-00		07/12/82 09/08/83	07/12/82 02/01/83	09/08/82 05/21/82				08/19/82 04/22/83	07/12/82			SUBMITTED TO NUC PRODUCTION 010583

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED / ACTUAL	FINISH SCHED / ACTUAL	HANGERS ENGRG / HANGERS	HANGERS FUA	NUC PROD SCHD T/O / ACTL T/O	RELEASE TRC SUE	RELEASE NRC NOTF PRJ STRT	REMARKS
ACPT.W4100.001 CIRCULATING WATER PUMPHOUSE HVAC SYSTEM	W41-00		07/26/82 08/03/82	07/17/82 09/27/82	05/25/82 04/19/83		08/19/82 10/09/82	08/03/82		SUBMITTED TO NUC PRODUCTION 093082
ACPT.X4101.001 OFFICE SERVICE BUILDING HVAC SYSTEM	X41-01		03/22/82 12/11/80	04/19/82	06/15/82 07/16/82		05/19/82	07/28/82		
ACPT.X4104.001 GSW PUMPHOUSE HVAC SYSTEM	X41-04		03/15/82 06/09/82	08/07/82 09/27/82	05/24/82 04/19/82		07/07/82 10/09/82	06/09/82		SUBMITTED TO NUC PRODUCTION 093082
ACPT.X4203.001 RHR COMPLEX EQUIPMENT & FLOOR DRAINS SYSTEM	X42-03		03/14/83	03/25/83	10/07/82 10/07/82		04/01/83		04/25/83	
ACPT.Z4100.001 TECHNICAL SUPPORT CENTER HVAC (TSC)	Z41-01		06/13/83	07/08/83	07/17/82		07/15/83		04/22/83	
PRET.A7100.001 PRIMARY CONTAINMENT ISOLATION SYSTEM	A71-00		05/17/83	06/13/83			06/20/83		04/22/83	
PRET.B1113.001 REACTOR VESSEL FLOW INDUCED VIBRATION SYSTEM	B31-00 B31-03		09/13/82 11/09/82	10/25/82 02/01/83	11/11/82 10/19/82	11/08/82	11/15/82	11/09/82		NO T/O TO NUCLEAR PROD TEST ONLY NO PLCS
PRET.B2100.001 NUCLEAR BOILER SYSTEM	B21 00		07/17/83	09/19/83			09/26/83		06/01/83	
PRET.B2106.001 MSIV LEAKAGE CONTROL SYSTEM	B21-06		08/22/83	09/09/83	02/10/83 01/24/83		09/16/83	02/01/83		ENGINEERING TO REVIEW FULL LOAD REQUIREMENTS
PRET.B3100.001 REACTOR RECIRCULATION SYSTEM	B31-00 B31 03		09/13/82 11/12/82	10/03/83	11/11/82 11/19/82	11/08/82	10/10/83	11/12/82	10/25/82	
PRET.C1100.001 CRD MANUAL CONTROL SYSTEM	C11 00		12/27/82 03/08/83	03/17/83	12/27/82 02/15/82	01/11/83	03/18/83	01/11/83	12/03/82 02/01/83	

PRET ACPT SUMMARY (BY PRET ACPT NBR)

RUN DATE: 05/06/83

PRET ACPT NUMBR / TITLE	SUB SCOPES	TURNOVERS	START SCHED / ACTUAL	FINISH SCHED / ACTUAL	REQUIREMENTS LOCKED / NUMBERS	FQA	NUC MOD SCHD T/O / ACTL T/O	RELEASE TRC SUE	NRC NOTF PRJ STRT	REMARKS
PRET.C1107.001 CONTROL ROD POSITION	C11-07		12/27/82 02/08/83	03/20/83 04/12/83	01/25/83 07/26/82	03/01/83	03/25/83	02/01/83	02/02/83	SUBMITTED TO NUC PRODUCTION 042183
PRET.C1108.001 ROD WORTH MINIMIZER SYSTEM	C11-08		09/30/83	10/20/83	07/26/82		10/27/83		07/05/83	
PRET.C1109.001 ROD SEQUENCE CONTROL SYSTEM	C11-09		09/09/83	09/29/83	07/26/82		10/27/83		06/06/83	
PRET.C1150.001 CONTROL ROD DRIVE HYDRAULIC SYSTEM	C11-50		12/27/82 02/25/83	09/08/83	01/26/83 03/26/83		09/15/83	02/01/83	01/14/83 02/01/83	
PRET.C3202.001 FEEDWATER CONTROL SYSTEM	C32-02		11/29/82 10/20/82	03/11/83	10/09/82 10/21/82	11/16/82	03/18/83	11/22/82	09/07/82	SUBMITTED TO NUC PRODUCTION 040883
PRET.C3500.001 REMOTE SHUTDOWN SYSTEM	C35-00		08/29/83	11/04/83			11/11/83		04/22/83	
PRET.C4100.001 STANDBY LIQUID CONTROL SYSTEM	C41-00		07/26/82 08/24/82	05/20/83	08/18/82 07/01/82	08/20/82	05/27/83	08/20/82	06/17/82	
PRET.C5110.001 SOURCE RANGE MONITORING SYSTEM	C51 10		03/21/83 04/19/83	07/03/83	03/24/83		07/15/83	02/22/83	05/31/83	
PRET.C5111.001 INTERMEDIATE RANGE MONITORING SYSTEM	C51 11		05/31/83	07/25/83			08/01/83		05/31/83	
PRET.C5112.001 LOCAL POWER RANGE MONITORING SYSTEM	C51 12		03/22/83	06/02/83			08/09/83		04/22/83	
PRET.C5113.001 AVERAGE POWER RANGE MONITORING SYSTEM	C51 13		06/10/83	05/06/83			09/13/83		05/31/83	
PRET.C5114.001 ROD BLOCK MONITORING SYSTEM	C51 14		07/06/83	06/16/83			08/15/83			

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED ACTUAL	FINISH SCHED ACTUAL	ENGRG CHANGES	PGA	SCHD T/O ACTL T/O	TRC SUE	REL DATE PRJ STRT	REMARKS
PRET.C5115.001 RECIRCULATION FLOW BIAS SYSTEM	C51-15		01/17/83 02/08/83	04/15/83	12/22/82	04/15/83	04/22/83	02/15/83	12/03/82 02/01/83	
PRET.C5116.001 TRAVERSING INCORE PROBE	C51-16		10/31/83	11/20/83			11/25/83		07/12/83	
PRET.C7100.001 REACTOR PROTECTION SYSTEM & RPS MG SETS	C71-00 C71-02		07/02/83	09/04/83	02/09/83		09/09/83		02/18/83 05/27/83	
PRET.C9100.001 PROCESS COMPUTER & INTERFACE SYSTEM	C91-00		07/05/82 07/30/82	08/19/83	07/27/82	06/29/82	08/26/83	07/20/82	05/19/82 06/24/83	PROJECT PRET RESTART 062483
PRET.D1100.001 PROCESS RADIATION MONITORING (GE) SYSTEM	D11-00		07/04/83	08/26/83	11/06/82		09/02/83		07/04/83	
PRET.D1110.001 PROCESS RADIATION MONITORING (GULF ATOMIC & EBERLINE)	D11-10		06/27/83	09/16/83			09/23/83		05/05/83	
PRET.D1110.002 PROCESS RADIATION MONITORING (GULF ATOMIC & EBERLINE)	D11-10		07/25/83	09/23/83			09/30/83		07/03/83	
PRET.D2100.001 AREA RADIATION MONITORING SYSTEM	D21-00		10/11/82 12/15/82	07/01/83	12/13/82	12/10/82	07/08/83	12/14/82	10/13/82	
PRET.D3000.001 PLANT SEISMIC MONITORING SYSTEM	D30-00		07/27/82 10/20/82	03/25/83	04/13/82		04/01/83	10/19/82	09/16/82	
PRET.D5000.001 HEALTH PHYSICS MONITORING INSTRUMENTS	D50-00		[illegible]/83	07/29/83			08/05/83			
PRET.E1000.001 ECCS PIPE LEAK DETECTION SYSTEM	E10-00		03/28/83	05/06/83			07/01/83		09/01/83	

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED ACTUAL	FINISH SCHED ACTUAL	REQUIREMENTS ENGRG HANGERS	REQUIREMENTS FQA	NUC PROD SCHD T/O ACTL T/O	RELEASE TRC SUE	RELEASE NRC NOTF PRJ STRT	REMARKS
PRET.E1010.001 PRIMARY COOLANT LEAK DETECTION SYSTEM	E10-10		08/23/82 12/22/82	06/24/83	11/30/82		07/01/83	12/14/82	11/15/82	
PRET.E1100.001 LOW PRESSURE COOLANT INJECTION SYSTEM/ RESIDUAL HEAT REMOVAL SYSTEM	E11-00		05/24/82 08/24/82	06/03/83	11/30/82 06/30/82	08/16/82	10/07/83	08/20/82 12/07/82	05/13/82 06/17/83	PROJECT PRET RESTART 061783 PRET RESTART 053083
PRET.E1151.001 RHR SERVICE SYSTEM (INCLUDING RESERVOIR COOLING TOWER & FANS)	E11-31		04/18/83 03/28/83	07/08/83	02/18/83		07/15/83			
PRET.E2100.001 CORE SPRAY SYSTEM	E21-00 E21-001 E21-002		05/24/82 08/24/82	06/24/83	11/29/82 06/30/82	08/19/82	07/01/83	08/17/82 12/04/82	05/18/82 05/24/83	
PRET.E4100.001 HIGH PRESSURE COOLANT INJECTION SYSTEM	E41-00		06/21/83	10/03/83	12/15/82 02/21/83 02/21/83		10/10/83		06/20/83 06/20/83	
PRET.E5100.001 REACTOR CORE ISOLATION COOLING SYSTEM	E51-00 E51-001 E51-002		06/21/83	10/03/83	02/26/83		10/10/83		06/20/83	
PRET.F1300.001 REFUELING SERVICE & INSPECTION EQUIPMENT	F11-00 F12-00 F13-00 F14-00 F15-00 F16-00 F17-00		06/29/83	08/09/83			08/16/83		03/07/83 04/15/83	
PRET.G1120.001 WASTE COLLECTION SYSTEM (EQUIPMENT DRAINS SYSTEM)	G11-20		08/05/83	11/04/83			11/11/83		08/12/83	
PRET.G1125.001 FLOOR DRAIN COLLECTION	G11-25		08/22/83	11/11/83			11/18/83		09/16/83	

PRET/ACPT NUMBR / TITLE	SUB SCOPES	TURNOVERS	START SCHED ACTUAL	FINISH SCHED ACTUAL	HEADHANGERS ENGRD HANGERS	HEADHANGERS FUA	NUC-PROD SCHD T/O ACTL T/O	RELEASE TRC SUE	RELEASE NRC NOTF PRJ STRT	REMARKS
PRET.G1125.001 SYSTEM			03/22/83	11/11/83			11/18/83		09/16/83	
PRET.G1135.001 SOLID RADWASTE SYSTEM	G11-351 G11-352		10/31/83	01/20/84			01/27/84		11/25/83 11/25/83	
PRET.G3300.001 REACTOR WATER CLEANUP SYSTEM	G33-00 G33-001 G33-002		05/24/82 12/16/82	10/24/83	09/08/82 08/19/82	12/03/82	10/31/83	12/04/82	07/16/82	
PRET.G4100.001 FUEL POOL COOLING & CLEANUP SYSTEM	G41-00		05/24/82 07/16/82	05/27/83	06/30/82 06/30/82	06/22/82	11/18/83	07/14/82	04/09/82	
PRET.G5100.001 TORUS WATER MANAGEMENT SYSTEM	G51-00		05/24/82 01/04/83	08/12/83	11/16/82 06/30/82		08/19/83	12/04/82		
PRET.H4000.001 COMMUNICATION SYSTEM (INCLUDING EVACUATION ALARM SYSTEM)	H40-001 H40-002 H40-003 H40-004 H40-005 H40-006 H40-007 H40-008		05/16/83	06/17/83			06/24/83		07/01/83	
PRET.N1100.001 MAIN STEAM SUPPLY	N11-00		08/02/82 09/28/82	09/13/82 12/14/82	09/20/82 09/28/82	08/16/82	10/13/82	09/27/82	08/16/82	SUBMITTED TO NUC. PRODUCTION 122183
PRET.N2000.001 CONDENSATE SYSTEM	N20-01 N20-03		08/02/82 08/31/82	04/21/83	08/31/82 11/11/82	08/31/82	05/05/83	08/31/82	08/09/82	REV 2 OF PROCEDURE RELEASED 083182
PRET.N2002.001 CONDENSATE POLISHING DEMINERALIZER SYSTEM	N20-02		11/28/82 03/19/82	05/20/83	03/17/82		05/27/83	03/19/82		PRET BEGAN BEFORE MEMOS WERE REQUIRED
PRET.N2100.001 REACTOR FEEDWATER SYSTEM	N21-00 N21-001 N21-002		01/17/83 02/23/83	08/01/83	01/10/83 02/15/83	02/15/83	08/15/83	02/15/83	12/20/82 05/09/83	PROJECT PRET RESTART 050983

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED ACTUAL	FINISH SCHED ACTUAL	ENGRG HANGERS	ENGINEERING Fdn	NUC-PKGS SCHD'T/O ACTL T/O	RELEASE TRC SUE	REV ROTT TRC START	REMARKS
PRET.N3012.001 TURBINE CONTROL SYSTEM & GOVERNOR CONTROL SYSTEM	N30-12A		05/02/83	07/01/83 07/16/82			07/08/83			
PRET.N6100.001 CONDENSER & AUXILIARIES	N61-00 N61-001 N61-002		01/17/83 12/15/82	06/10/83	11/26/82 12/10/82	12/14/82	06/17/83	12/14/82	10/20/82	
PRET.N6200.001 OFF-GAS SYSTEM	N62-00		05/23/83	06/15/83	03/26/83		06/22/83		03/09/83 05/23/83	
PRET.N7100.001 CIRCULATING WATER SYSTEM	N71-00 N71-001 N71-002		04/26/82 09/23/82	07/19/82 10/19/82	09/21/82 05/21/82	09/21/82	08/19/82 11/12/82	09/21/82	07/20/82	SUBMITTED TO NUC PRODUCTION 102182
PRET.P1100.001 CONDENSATE STORAGE & TRANSFER SYSTEM	P11-001 P11-002 P11-003		08/02/82 10/20/82	07/08/83	10/19/82 10/19/82		07/15/83	10/19/82	07/08/82	
PRET.P1200.001 CONDENSATE MAKEUP DEMINERALIZER	P12-001		07/05/82 08/13/82	09/20/82 09/28/82	08/10/82 07/28/82	08/12/82	10/20/82 12/02/82	08/13/82	06/26/82	SUBMITTED TO NUC PRODUCTION 100582
PRET.P3320.001 PLANT PROCESS SAMPLING SYSTEM (REACTOR BUILDING)	P33-20		06/13/83	07/29/83	03/01/83		08/05/83		06/13/83	
PRET.P3321.001 PLANT PROCESS SAMPLING SYSTEM (TURBINE BUILDING)	P33-21		07/04/83	08/19/83	04/30/83		08/26/83		07/04/83	
PRET.P3322.001 PLANT PROCESS SAMPLING SYSTEM (RADWASTE BUILDING)	P33-22		07/05/83	07/25/83			09/30/83		04/13/83	

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START	FINISH	MEMORANDUMS		NUC-PROD	RELEASE		REMARKS
			SCHED ACTUAL	SCHED ACTUAL	ENGRG HANGERS	PQA	SCHD T/O ACTL T/O	FRC SUE	NRC NOTF PRJ STRT	
PRET.P3323.001 POST ACCIDENT SAMPLING SYSTEM	P33-23		08/23/83	09/26/83			10/05/83		08/23/83	
PRET.P4100.001 GENERAL SERVICE WATER SYSTEM	P41-001 P41-002 P41-003		03/15/82 08/12/82	06/07/82 02/09/83	04/19/82 08/10/82	08/12/82	07/07/82	08/13/82	05/14/82	SUBMITTED TO NUC PRODUCTION 040583 RETURNED TO SCD 041583
PRET.P4200.001 REACTOR BUILDING CLOSED COOLING WATER SYSTEM	P42-00 P42-001 P42-002 P42-003 P42-004		07/05/82 02/15/83	09/27/82 02/15/83	07/24/82 07/24/82	07/20/82	10/27/82	07/20/82	06/09/82	
PRET.P4300.001 TURBINE BUILDING CLOSED COOLING WATER SYSTEM	P43-001 P43-002		03/08/82 12/31/81	05/31/82 06/22/82	05/14/82		06/31/82 09/20/82	12/23/81		PRET BEGAN BEFORE MEMOS WERE REQ'D SUBMITTED TO NUC PRODUCTION 052082
PRET.P4400.001 EMERGENCY EQUIPMENT COOLING WATER SYSTEM	P44-00		08/01/83	09/07/83	01/27/83 11/05/82		09/16/83	02/01/83	01/03/82 06/03/83	
PRET.P5001.001 STATION AIR SYSTEM	P50-01 P50-011 P50-012 P50-013		05/31/82 01/18/82	08/23/82 09/20/82	11/02/82		09/23/82	01/15/82		PRODUCTION 100583 MEMOS WERE REQ'D REQUIRED
PRET.P5002.001 CONTROL AIR SYSTEM	P50-02 P50-021 P50-022 P50-023		06/08/83 04/14/83	07/19/83	03/[illegible]/83 03/28/83		07/26/83	04/12/83	12/28/82 03/31/83	ONLY PRET SECTS 6.7 & 6.8 RELEASED
PRET.P8000.001 FIRE PROTECTION SYSTEM	P80-001 P80-002 P80-003 P80-004 P80-005		09/[illegible]/82 12/31/82	09/16/83	12/[illegible]/82 11/02/82	12/28/82	09/23/83	12/28/82	12/21/82	

PRET/ACPT NUMBER / TITLE	SUB-SCOPES	TURNOVERS	START SCHED ACTUAL	FINISH SCHED ACTUAL	MEMORANDUMS ENGRG HANGERS	PWA	NUC PROD RELEASE SCHD T/O ACTL T/O	IRC SUE	NRC NOTF PRJ STRT	REMARKS
PRET.P8000.001			09/27/82	09/16/83	12/21/82	12/28/82	09/23/83	12/28/82	12/21/82	
	P80-006		12/31/82		11/02/82					
	P80-007									
	P80-008									
	P80-009									
	P80-010									
	P80-011									
	P80-012									
PRET.P8005.001			08/02/82	04/01/83	12/27/82	08/25/82	04/08/83	08/31/82	05/19/82	
FIRE DETECTION SYSTEM	P80-051		08/31/82							
	P80-052									
	P80-053									
	P80-054									
	P80-055									
	P80-056									
	P80-057									
	P80-058									
	P80-059									
	P80-060									
PRET.P9000.001			04/26/82	05/09/83	12/03/82	12/03/82	05/16/83	12/03/82	11/23/82	
CHEMICAL INJECTION SYSTEM	P90-00		12/03/82		11/03/82					
PRET.R1102.001			05/24/83	09/26/83			10/10/83			
ESF PLANT ELECTRICAL SYSTEM	R14-02								04/25/83	
	R14-03									
	R14-05									
	R14-06									
	R14-12									
	R14-13									
	R14-14									
	R14-15									
	R14-17									
	R14-18									
	R14-19									
	R14-20									
	R14-30									
	R14-31									
	R14-32									
	R14-33									
	R16-04									
	R16-05									
	R16-06									
	R16-07									
	R16-08									

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED ACTUAL	FINISH SCHED ACTUAL	MEMORANDUMS ENGRG HANDLERS	PQA	NUC-PROD SCHD T/O ACTL T/O	RELEASE TRC SUE	NRC NOTF PRJ STRT	REMARKS
PRET.K1102.001			05/24/83	09/26/83			10/10/83			
	R16-09									
	R16-10									
	R16-11									
	R16-12									
	R16-13									
	R16-14									
	R16-15									
	R16-16									
	R16-17									
	R16-18									
	R16-19									
	R16-20									
	R16-38									
	R16-39									
	R16-40									
	R16-41									
	R16-42									
	R16-43									
	R16-44									
	R16-45									
	R16-46									
	R16-47									
	R16-48									
	R16-49									
PRET.K3000.001 EMERGENCY DIESEL GENERATOR (DIV I)	R30-00		10/04/82 12/20/82	09/02/83	11/30/82 09/30/82	12/14/82	09/09/83	12/14/82	10/08/82	
PRET.K3000.001A EMERGENCY DIESEL GENERATOR (DIV II)	R30-00		09/02/83	10/28/83	09/30/82		11/05/83			ONE OF 4 TESTS ON THIS SYSTEM. ALL PUNCHLIST CARDS ARE ALLOCATED TO TEST .001 DIV I
PRET.K3000.003 EMERGENCY DIESEL GENERATOR	R30-00		10/12/83	11/18/83	09/30/82		11/25/83		10/01/83	ONE OF 4 TESTS ON THIS SYSTEM ALL PUNCHLIST CARDS ARE ALLOCATED TO TEST .001 THIS SYSTEM. ALL PUNCHLIST CARDS ARE ALLOCATED TO TEST .001

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED	START ACTUAL	FINISH SCHED	FINISH ACTUAL	MEMORANDUMS ENGRG HANGERS	MEMORANDUMS PQA	NUC-PROD SCHD T/O	NUC-PROD ACTL T/O	RELEASE TRC SUE	RELEASE NRC NOTF PRJ STRT	REMARKS
PRET.R3100.001			05/31/82	07/12/82	05/11/82				08/12/82		05/11/82	03/31/82	
120V AC I&C POWER SUPPLY SYSTEM	R31-001		05/17/82	09/27/82									
	R31-002												
	R31-003												SUBMITTED TO NUC
	R31-004												PRODUCTION 101882
	R31-005												
	R31-006												
	R31-007												
PRET.R3201.001			04/26/82	06/07/82	03/16/82	03/16/82			07/07/82		03/16/82	02/25/82	
130V/260 DIRECT CURRENT SYSTEM	R32-011		04/14/82	07/30/82					01/14/83				SUBMITTED TO NUC
	R32-012												PRODUCTION 093082
	R32-013												
PRET.R3202.001			06/14/82	07/12/82	07/06/82	06/22/82			08/12/82		07/06/82	10/12/82	
24V/48 DIRECT CURRENT SYSTEM	R32-02		07/16/82	07/30/82					01/14/83				SUBMITTED TO NUC PRODUCTION 093082
PRET.R3600.001			05/02/83	06/24/83					07/08/83				
PLANT NORMAL & EMERGENCY LIGHTING	R16-001											05/20/83	
	R16-002												
	R16-003												
	R16-004												
	R16-005												
	R16-006												
	R16-007												
	R16-008												
	R36-001												
	R36-002												
	R36-003												
	R36-004												
	R36-005												
	R36-006												
	R36-007												
	R36-008												
	R36-009												
PRET.T2303.001			04/25/83	04/29/83	11/24/82		12/14/82		05/06/83		12/14/82		
PRIMARY CONTAINMENT VACUUM BREAKERS	T23-03				11/26/82							05/02/83	
PRET.T2304.001			07/04/83	09/29/83					10/06/83				
TYPE A LEAK RATE TEST (PCILRT)	T23-04				12/30/82							07/05/83	TEST ONLY-NO FILES

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED ACTUAL	FINISH SCHED ACTUAL	MEMORANDUMS ENGRG HANGERS	MEMORANDUMS FQA	NUC-PROD SCHD T/O ACTL T/O	RELEASE TRC SUE	NRC NOTF PRJ STRT	REMARKS
PRET.T2305.001 TYPE B LEAK RATE TEST (CCRT-SEALS)	T23-05		01/25/82 06/09/82	09/04/83	05/25/82 12/17/82	09/14/82	09/11/83	09/14/82		TEST ONLY-NO FLCS REV 2 RELEASED 091482
PRET.T2306.001 TYPE C LEAK RATE TEST	T23-06		01/25/82 09/20/82	09/04/83	04/06/82 11/29/82	07/15/82	09/11/83	07/20/82	07/07/82	TEST ONLY-NO FLCS
PRET.T3100.001 REACTOR BUILDING OVERHEAD CRANE	T31-00 T31-001 T31-002		05/14/83	07/01/83			07/08/83		03/07/83 05/31/83	
PRET.T4100.001 REACTOR BUILDING HVAC	T41-00 T41-001 T41-002		11/22/82 12/09/82	05/16/83	12/03/82 10/25/82	12/03/82	05/23/83	12/04/82	09/28/82	
PRET.T4102.001 CONTROL CENTER HVAC SYSTEM	T41-02 T41-021 T41-022		06/17/83	07/22/83	12/07/82 11/06/82	12/03/82	07/29/83		08/06/82 06/13/83	SYSTEM WITHDRAWN FROM PRET TESTING 021883
PRET.T4500.001 PRIMARY CONTAINMENT SECONDARY CONTAINMENT & AUXILIARY BUILDING FLOOR & EQUIPMENT DRAIN SYSTEM	T45-00		06/20/83	08/05/83	02/26/83		08/12/83		07/15/83	
PRET.T4600.001 STANDBY GAS TREATMENT SYSTEM	T46-00		07/25/83	10/14/83	10/01/82		10/21/83		09/28/82 06/03/83	
PRET.T4700.001 DRYWELL COOLING SYSTEM	T47-00		07/05/82 08/21/82	08/02/82 12/14/82	08/17/82 07/26/82	08/19/82	09/02/82	08/20/82	07/20/82	RETURNED TO SCD 022483 SUBMITTED TO NUC PRODUCTION 020183
PRET.T4800.001 PRIMARY CONTAINMENT PRESSURE CONTROL SYSTEM	T48-01 T48-02 T48-03 T49-01		07/25/83	10/14/83	10/17/82		10/20/83		05/27/83	

PRET/ACPT NUMBR / TITLE	SUB-SCOPES	TURNOVERS	START SCHED / ACTUAL	FINISH SCHED / ACTUAL	MEMORANDUMS ENGRG HANGERS	MEMORANDUMS FWA	NUC PROD SCHD T/O / ACTL T/O	RELEASE TRC SUE	RELEASE NRC NOTF PRJ STRT	REMARKS
			07/25/83	10/14/83			10/20/83			
					10/19/82				05/27/83	
PRET.T4804.001 THERMAL RECOMBINER SYSTEM	T48-04		09/05/83	11/11/83			11/18/83			
					10/18/82				07/08/83	
					10/18/82				07/08/83	
					10/18/82				07/08/83	
					10/18/82				07/08/83	
PRET.T5000.001 PRIMARY CONTAINMENT MONITORING SYSTEM	T50-00		09/05/83	11/11/83			11/18/83			
									06/17/83	
									06/17/83	
PRET.T9200.001 SECONDARY CONTAINMENT LEAK RATE TEST	T92-00		08/20/83	09/18/83			09/25/83			
									06/03/83	TEST ONLY-NO PLCS
									06/03/83	
PRET.U4100.001 TURBINE BUILDING HVAC SYSTEM	U41-00		07/19/83	08/29/83	12/10/82	12/15/82	09/05/83	12/14/82	09/28/82	
			01/06/83		11/03/82					
			01/06/83		11/03/82					
PRET.U4100.001 RADWASTE BUILDING HVAC SYSTEM	U41-00		06/27/83	08/26/83			09/02/83			
									06/17/83	
									06/17/83	
PRET.W2500.001 CIRCULATING WATER RESERVOIR & DECANT SYSTEM	W25-001 W25-003		04/26/82	07/19/82	09/20/82	09/21/82	08/19/82	09/21/82	08/06/82	
			09/23/82	10/19/82	07/16/82		11/12/82			SUBMITTED TO NUC PRODUCTION 102182
			09/23/82	10/19/82	07/16/82		11/12/82			
			09/23/82	10/19/82	07/16/82		11/12/82			
PRET.W2500.002 COOLING TOWERS SYSTEM	W25-002		04/26/82	03/25/83	10/01/82	09/21/82	04/01/83	10/05/82	08/06/82	
			10/09/82		07/16/82					
PRET.X4103.001 RHR COMPLEX PUMPROOM HVAC SYSTEM	X41-031		09/27/82	11/22/82	01/11/83	11/15/82	12/22/82	12/04/82	10/08/82	
			12/20/82	02/15/83	09/23/82					PRET TEST RESULTS DISAPPROVED BY TRC 041283
			12/20/82	02/15/83	09/23/82					
			12/20/82	02/15/83	09/23/82					
PRET.X4103.002 EMERGENCY DIESEL GEN SWGR & OIL STORAGE HVAC SYSTEM	X41-032		09/27/82	07/15/83	12/03/82	11/15/82	07/22/83	12/04/82	10/08/82	
			12/20/82		09/23/82					ONE OF 3 TESTS ON THIS SYSTEM. ALL PUNCHLIST CARDS ARE ALLOCATED TO TEST .001
			12/20/82		09/23/82					
			12/20/82		09/23/82					
			12/20/82		09/23/82					
			12/20/82		09/23/82					
PRET.X4103.003 EMERGENCY DIESEL GENERATOR ROOM HVAC SYSTEM	X41-033		09/27/82	07/15/83	12/03/82	11/15/82	07/22/83	01/18/83	10/08/82	
			12/08/82		09/23/82				01/31/83	ONE OF 3 TESTS ON THIS SYSTEM. ALL PUNCHLIST CARDS ARE ALLOCATED TO TEST .001

8.

STARTUP GROUP INFORMATION

for

N R C Visit

Item 8. Detailed review and current status of preparation of preop and acceptance test procedures, integration of preop and acceptance test activities with construction schedule, system turnover schedule identifying each system and status, preop and acceptance tests schedule identifying each test and status, current and proposed preop and acceptance test program manpower.

(a) Total number of procedures required for fuel load.

CAIO - Generic Checkout and Initial Operations	82
CAIO - Specific Checkout and Initial Operations	62
CCMF - Specific Flushing Procedures	77
ACPT - Acceptance Test Procedures	39
PRET - Preoperational Test Procedures	106
Total	366

(b) Number of draft procedures not started.

CAIO	1	
ACPT	4	
PRET	1	(1.6%)
Total	6	

(c) Number of draft procedures being written.

CAIO	0	
ACPT	2	(.5%)
PRET	0	
Total	2	

(d) Number of procedures approved.

CAIO	142	
CCMF	75	(94.5%)
ACPT	32	
PRET	97	
Total	346	

(e) Number of procedures in review

CAIO	1	
CCMF	2	(3.3%)
ACPT	1	
PRET	8	
Total	12	

(f) Total number of preop and acceptance tests required for fuel load.

ACPT/PRET 132

(g) Number of preop and acceptance tests completed -34 (as of 5/24/83).

(h) Number of preop and acceptance tests currently in progress - 37 (as of 5/24/83).

(i) Number of systems/subsystems turned over to Startup.

As of May 31, 1983, 585 of 614 subsystems have been turned over from Construction to System Completion Organization (SCO). (95.2%)

NOTE: Systems are now turned over from Construction to SCO.

(j) Number of preop and acceptance tests scheduled for starting as of June 1 , 1983.

- 90

Item 11 - Overview of current construction and startup management organization showing interfaces between the two.

See Attachment A

STARTUP TEST PROGRAM MANPOWER REVIEW

TEST ENGINEER	TEST TECHNICIAN	ELECTRICAL TEST TECH.	STAFF	OTHERS	DATE	TOTALS
61	28	44	20	50	01-31-82	203
80	45	40	22	47	06-30-82	234
87	46	47	19	43	01-31-83	242
86	50	40	20	40	05-31-83	236

ACTIVITY WEEKS

OF

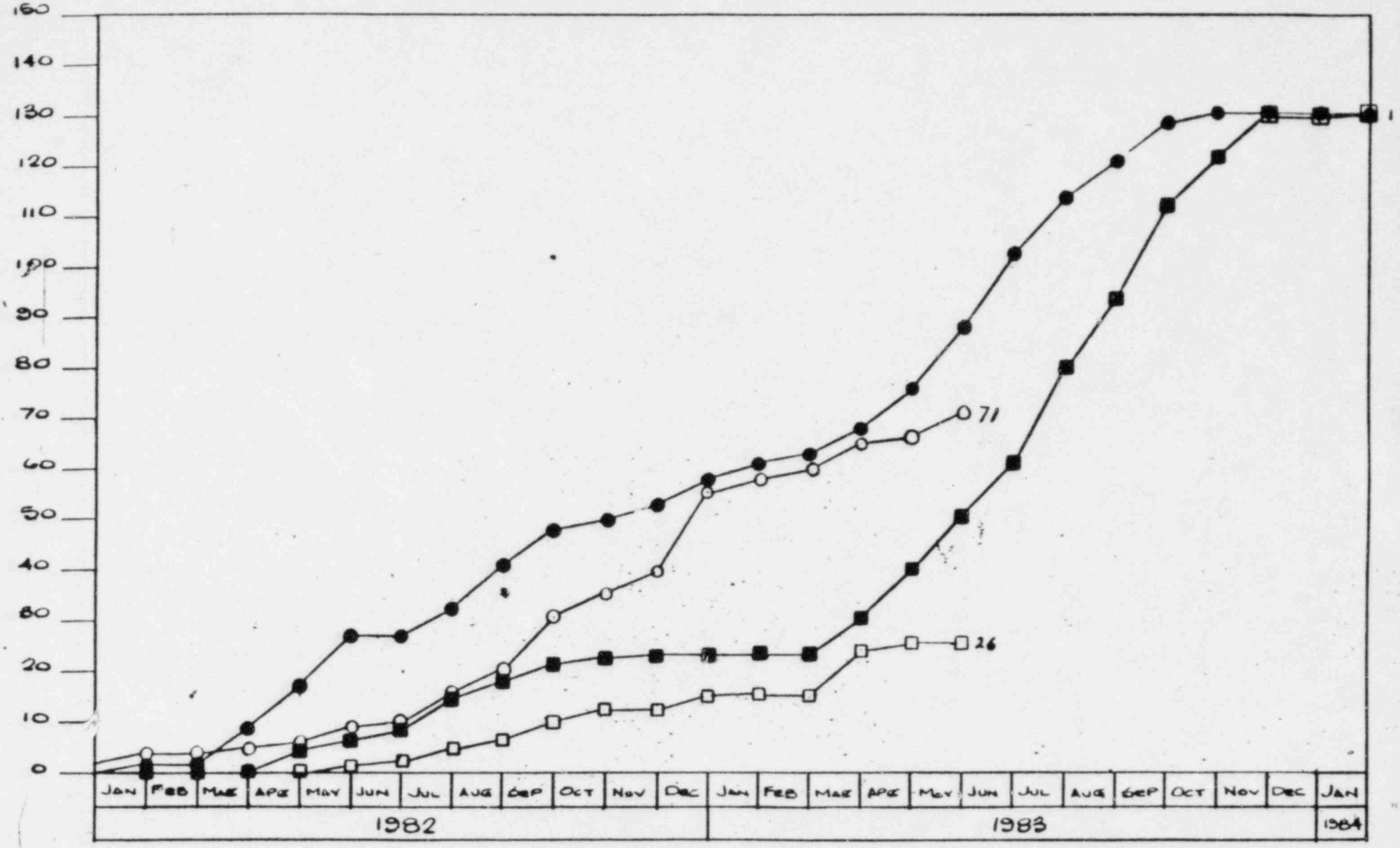
TESTING COMPLETED

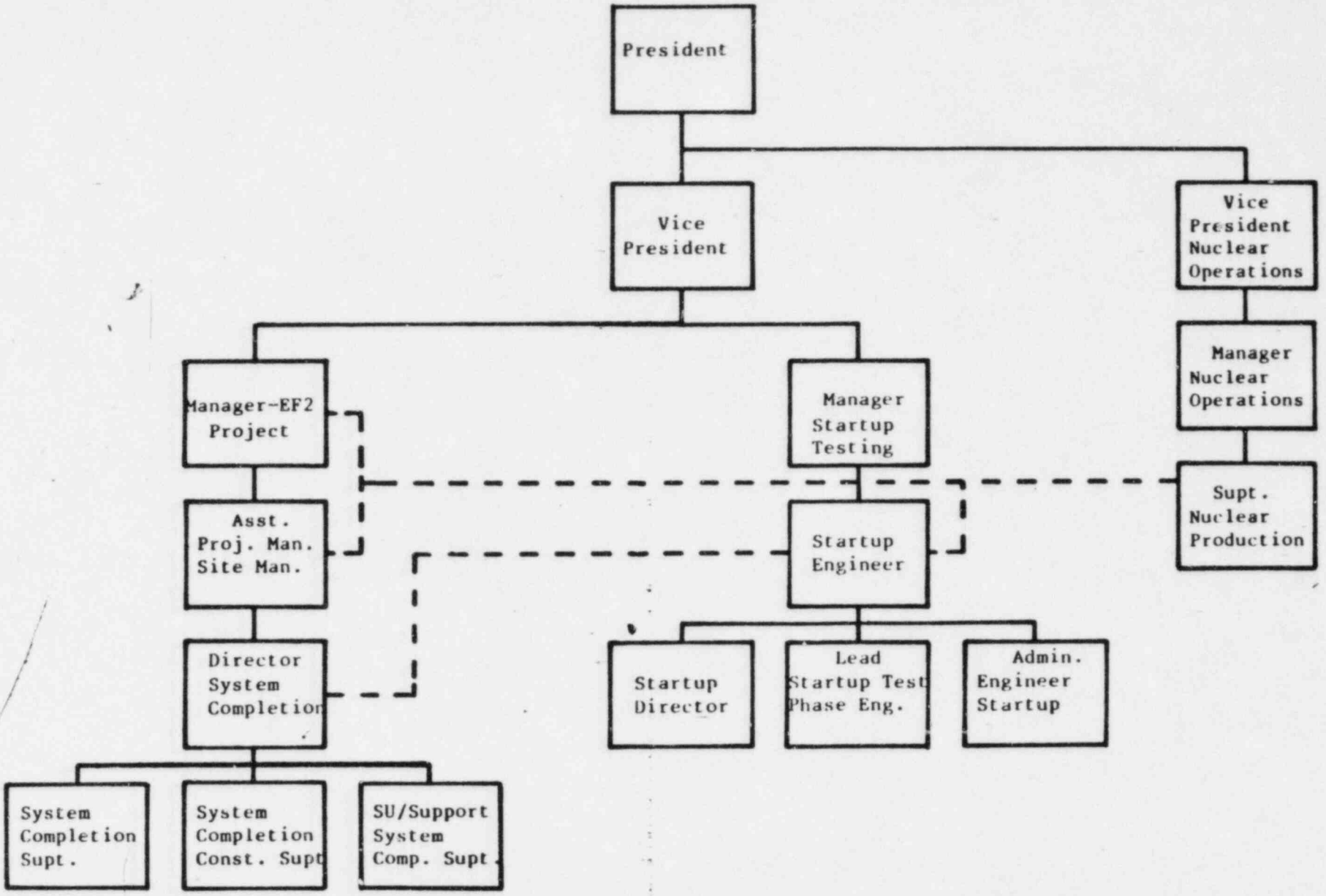
(1983)

SECTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Electrical (include RHR Complex)	20	15	20	30	9							
I & C	13	15	18	16	15							
BOP-1	20	21	8	19	17							
BOP-2	42	28	22	26	15							
NSSS	20	19	9	22	15							
Total Activity Weeks	115	98	77	113	71							
Total Percent Increase	3.0%	2.7%	2.4%	2.8%	1.9%*							
Cumulative	57.5%	60.2%	62.6%	65.4%	66.7%*							

*Corrected and adjusted for additional scope and reporting errors.

PLET / ACPT STARTS & FINISHES




President
Vice President
Vice President Nuclear Operations
Manager-EF2 Project
Manager Startup Testing
Manager Nuclear Operations
Asst. Proj. Man. Site Man.
Startup Engineer
Supt. Nuclear Production
Director System Completion
Startup Director
Lead Startup Test Phase Eng.
Admin. Engineer Startup
System Completion Supt.
System Completion Const. Supt
SU/Support System Comp. Supt

STATUS OF PRET/ACPT

(As of 05/31/83)

Accepted by uc. Production
RET.P4300.001
CPT.X4104.001
CPT.W4100.001
CPT.N3032.001
RET.N7100.001
RET.W2500.001
RET.P1200.001
RET.R3202.001
RET.R3201.001
CPT.P6100.001
CPT.P2100.001
CPT.N3014.001
CPT.T4111.001
CPT.T4112.001
CPT.W2300.001
CPT.P7000.001
otal 16

Being Reviewed by Nuc. Prod. for Turnover
[redacted]
PRET.P5001.001
[redacted]
PRET.[redacted]
Total 4

Completed but not Turned Over
ACPT.X4101.001
PRET.N2000.001
PRET.N2002.001
[redacted]
PRET.P1100.001
PRET.G5100.001
PRET.N1100.001
PRET.X4103.001
PRET.P4200.001
PRET.T4700.001
ACPT.U3100.001
PRET.P4100.001
ACPT.V4500.001
ACPT.N3011.001
ACPT.N3013.001
PRET.N6100.001
Total 16

Testing in Progress (1)
PRET.T2305.001
[redacted]
PRET.C9100.001
[redacted]
PRET.C4100.001
PRET.E2100.001
PRET.P8005.001
PRET.T2306.001
PRET.X4103.003
PRET.W2500.002
ACPT.X4203.001
PRET.D3000.001
ACPT.N3016.001
[redacted]
PRET.T4100.001
PRET.P9000.001
ACPT.N3033.001
ACPT.A7000.001
PRET.P8000.001
PRET.U4100.001
PRET.F1300.001
ACPT.N3022.001
PRET.G3300.001
PRET.X4103.002
ACPT.P5003.001
PRET.[redacted]1010.001
PRET.D2100.001
PRET.C5115.001
PRET.N2100.001
[redacted]
PRET.E1151.001
ACPT.U4500.001
PRET.P5002.001
PRET.C5110.001
ACPT.N3020.001
Total 35

Scheduled Testing (1)
PRET.C5111.001
PRET.B2106.001
PRET.D5000.001
PRET.T2303.001
ACPT.D4000.001
PRET.P4400.001
ACPT.P4103.001
PRET.T3100.001
PRET.N3012.001
PRET.R3000.001
PRET.R1102.001
PRET.C7100.001
PRET.H4000.001
PRET.E1100.001
ACPT.H1101.001
ACPT.N2200.001
ACPT.R1500.001
PRET.R3600.001
ACPT.N3035.001
ACPT.N3031.001
ACPT.N3012.002
ACPT.N3012.003
PRET.N6200.001
ACPT.H3000.001
ACPT.Z4100.001
PRET.P3320.001
PRET.T4102.001
PRET.C5112.001
PRET.E4100.001
PRET.E5100.001
PRET.T4500.001
[redacted]
PRET.D1110.001
PRET.V4100.001
Total 3[redacted]

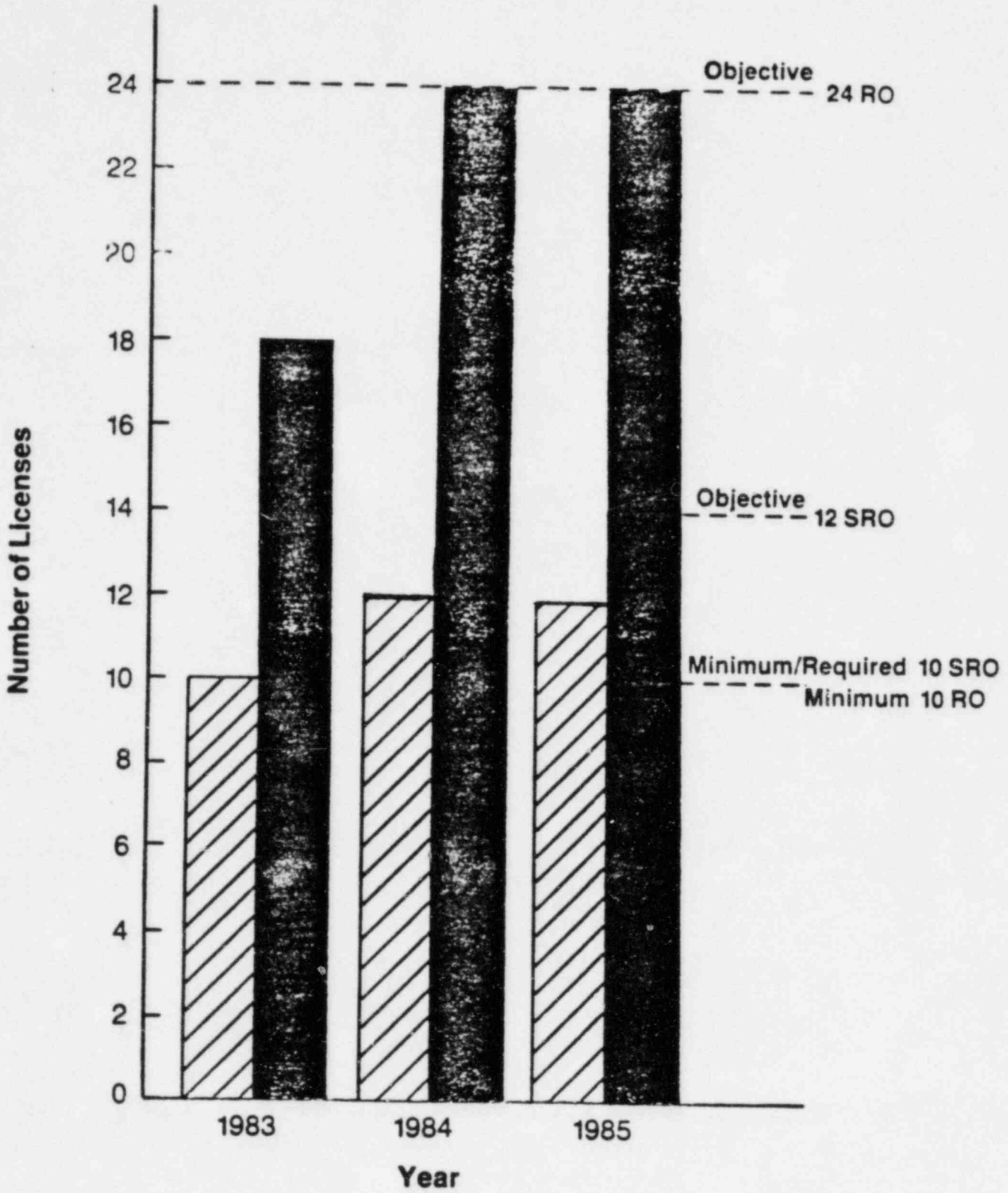
[redacted]

C 1109.02'

PRET/ACPT started this week	0
Required Cumulative PRET/ACPT's starts by 7/01/83	103
Cumulative PRET/ACPT's released for performance	78
Actual Cumulative PRET/ACPT starts	71
Actual Cumulative PRET/ACPT completions (those 90% or more complete)	36
Cumulative Systems Turned Over to Nuclear Production	20

Nuclear Production

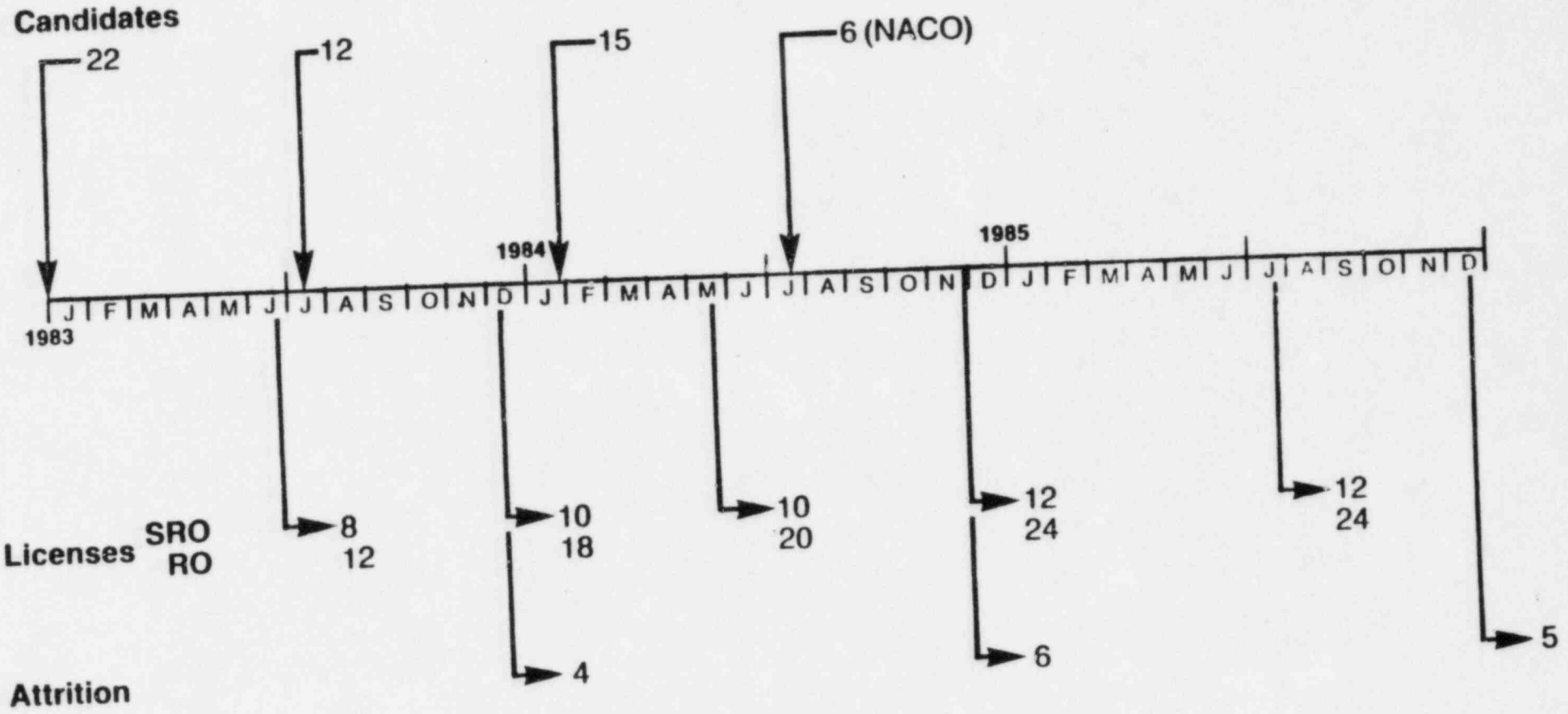
NRC Licences Requirements



	SRO	RO
5 Shift Complement -	10	15
6 Shift Complement -	12	24

Nuclear Production

NRC Licensing Plan



RADWASTE MODIFICATIONS

Systems Turned Over		Date
V45-00	Floor and Equipment Drains	September 1982
G11-25	Floor Drain Collector	November 1982
G11-20	Waste Collection	November 1982
V41	HVAC	December 1982
G11-352	Solid Radwaste	January 1983
V-31	Cranes and Hoists	January 1983

Work Left To Do

Turnover System V-21 Building

150 Items that are workable are to be completed by June 30, 1983

Turned Over Systems

Punchlist Card Status

380 items outstanding

(Goal is to complete all 380 punchlist cards which are workable by June 30, 1983)

ON SITE STORAGE FACILITY

Work Left To Do	To Go Quantity	Percentage Complete
Concrete	1,110 CY	89%
Structural Steel	33 Tons	85%
Siding	2,400 SF	75%
Block Work	2,300 SF	75%
Piping	0 LF	100%
Conduit	5,600 LF	20%
Wire & Cable	27,000 LF	10%
Crane		50%
Contract Completion	July 15, 1983	

Systems To Be Turned Over

X-21-11	On Site Storage Building
G-11-40	Miscellaneous Systems
X-41-06	HVAC
P-80-010	Fire Protection

STATUS OF ENRICO FERMI 2 FIRE PROTECTION

	FIRE PROTECTION AREA	ENGINEERING STATUS	CONSTRUCTION STATUS
1.	Cable Tray Fire Barriers (3M) Conduit Fire Barriers, and Hangers.	Complete	Novmeber 30 Completion
2.	3 Hour Cable Tray Fire Barriers	Complete	November 30 Completion
3.	Other Barriers		
	Wall at Control Room Computer Room	Complete	Complete
	Barrier BTWN DC-MCC's	Complete	September 30 Completion
	Cable Tunnel Wall	Complete	September 30 Completion
	Special Penetration Barriers	Complete	September 30 Completion
	Relay Room Stairwell	Complete	November 1983
	Penetration Seals	Complete	November 1983
4.	Control Room COP's		
	Maranite Boards on Front	Complete	80% Complete
	Glass Annunciator Windows	Not Applicable	To Do
5.	Second Water Feed to RHR Complex	Complete	July Completion
6.	Water Suppression Systems	Complete	Complete
7.	Gaseous Suppression Systems	Complete	90%
8.	Fire Damper Installation Fix	Complete	August Completion
9.	Early Warning Fire Detection	Complete	Complete
10.	Actuation Fire Detection (Johnson)	Complete	95% Complete
11.	Division II Remote Shutdown Panel	Complete	Complete
12.	Reroute HPCI/RCIC Trip Circuits	Complete	November Completion
13.	Administrative Controls		
	Administrative Procedures		70%
	Fire Detection Pre-Plans		Draft=Complete
	Locks on Major Valves		November Completion
	Tech Spec Surveillances		90%

AUG 2 1983

MEETING SUMMARY

Document Control (50-341)
NRC PDR
L PDR
PRC System
NSIC

LB#1 Rdg.
M. Rushbrook
Project Manager M. D. Lynch
Attorney, OELD
T. Novak
W. Lovelace*
OPA*

OTHERS:

NRC PARTICIPANTS:

M. D. Lynch
J. Youngblood
J. Konklin
W. Lovelace
H. Wescott
B. Little, RI
P. Byron, RI

*CASELOAD FORECAST PANEL VISITS