

10-7-51

CASE LOAD
FORECAST PANEL
LICENSING

1. NUREG 0737

OPERATIONS

TRAINING

PROCEDURES

MANNING

II. B-2 SHIELDING

I.D.I. - C. R. SURVEY

Control Room

ENGINEERING

- II.K.3.13 - AUTO RCIC RESET
- II.K.3.28 - ADS ACCUMULATORS
- II.B.3 - POST ACCIDENT SAMPLING
- III.D.1.1 - LEAKAGE PATHS OUTSIDE CONTAINMENT

- III.K.3.15 - RCIC TIME DELAY
- III.K.3.18 - ADS ACTUATION LOGIC
- III.K.3.21 - HPCS AUTO RESET
- III.K.3.27 - COMMON REF. LEVEL

- III.A.1.2 &
III.I.D.2 - ERIS/SPDS/EOF/TSC

- III.E.4.2 - CONTAINMENT ISOLATION

*hardware not ordered but
have del date estimate - 12/82
from G.E.*

~~CONFIDENTIAL~~

2. LICENSING PROBLEMS

RG - 1.97 - CORE EXIT TCs

NEUTRON FLUX

MONITORING

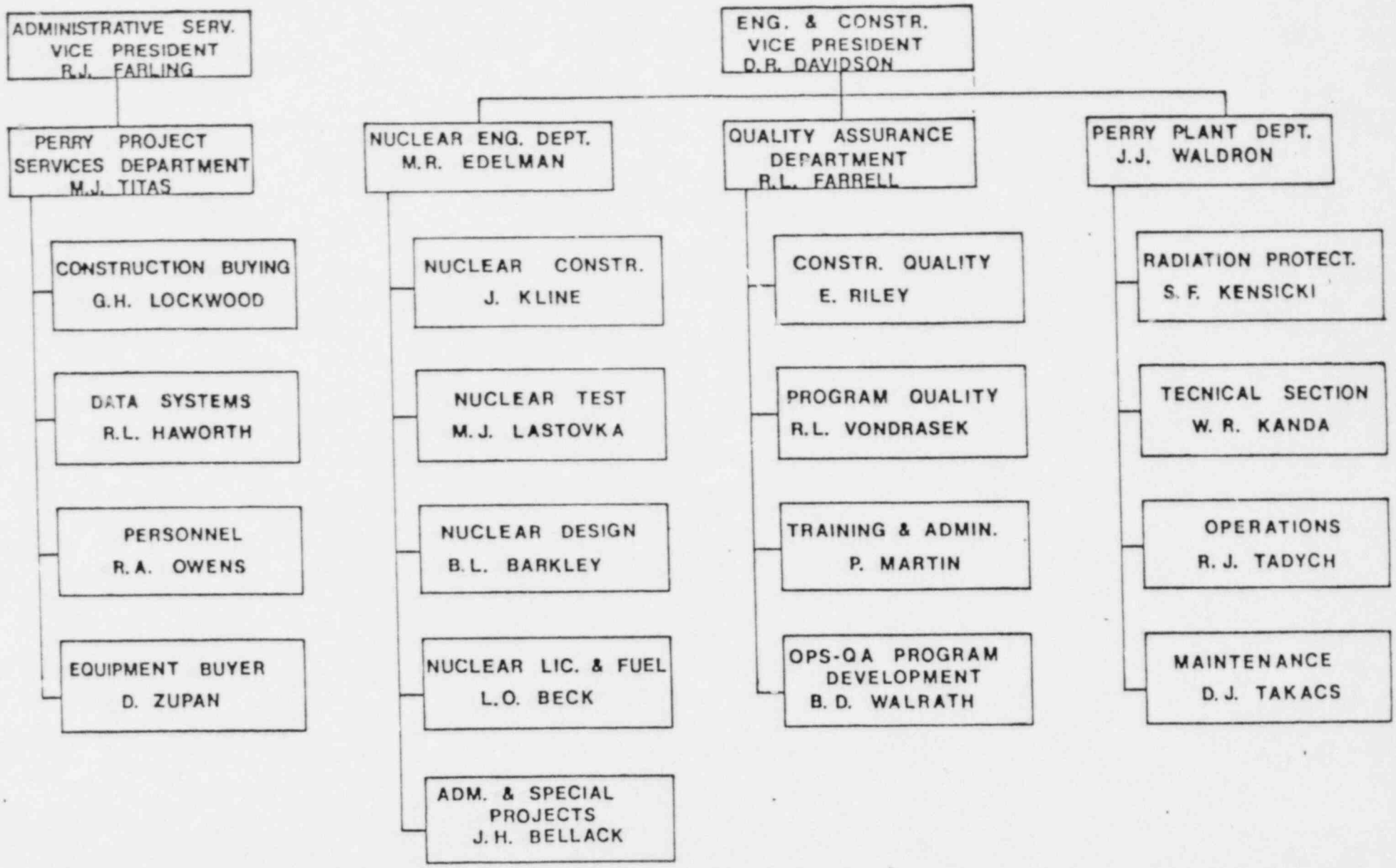
EQUIPMENT QUALIFICATION

NEW LOADS

H₂ CONTROL

ASLB

PERRY PROJECT ORGANIZATION



29

as of 9-1-81

PROJECT PROGRESS SUMMARY

77.3% UNIT #1 & COMMON

98% CIVIL STRUCTURAL

88% LB PIPE

62% SB PIPE

67% LB HANGERS

80% ELECTRICAL RACEWAY

36% CABLE

PERRY NUCLEAR POWER PLANT

AREA PROGRESS

UNIT #1 & COMMON

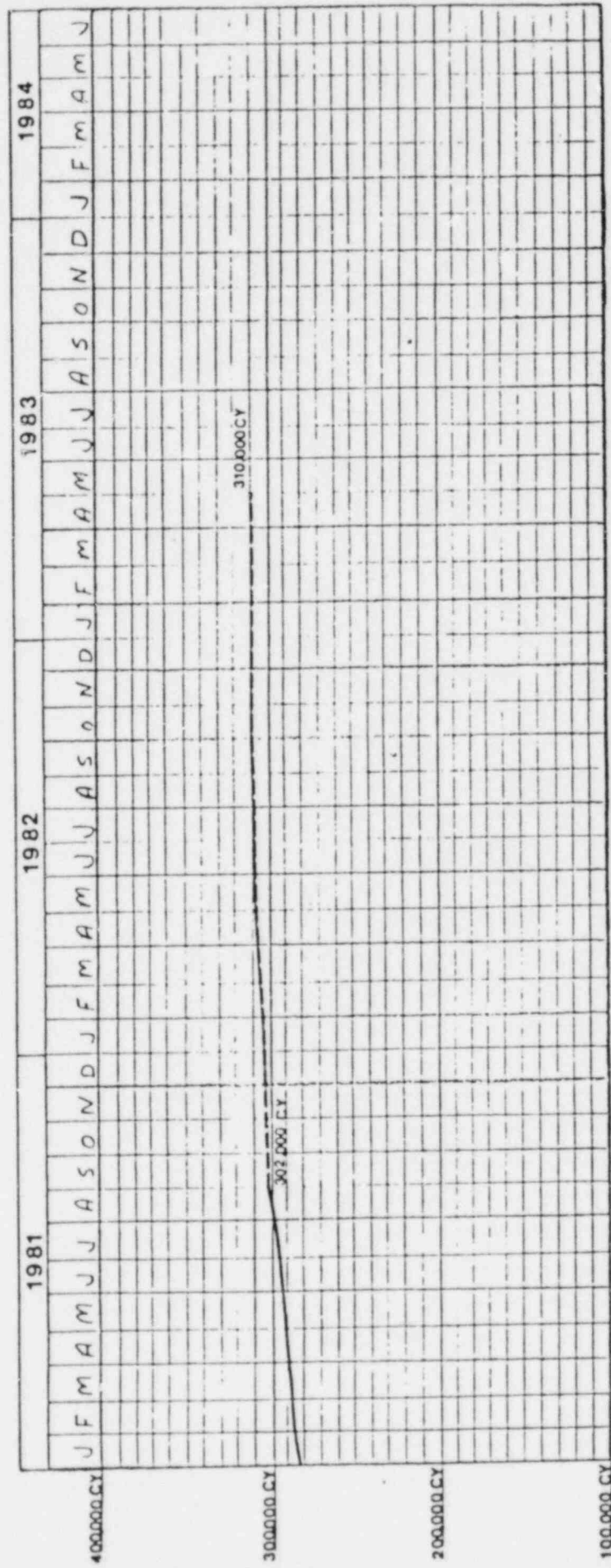
<u>AREA</u>	<u>% COMPLETE</u>
NUCLEAR ISLAND	78.4
REACTOR BUILDING <i>working 2 shifts moving to 3 shifts</i>	58.0
TURBINE BUILDING	88.0
CONTROL COMPLEX	81.6
YARD	90.4

September 29, 1981

PERY PROJECT
SIGNIFICANT QUANTITIES

	Unit 1 & Common E.A.C.	Unit 1 & Common Installed
<u>CONCRETE</u>	310,000 C.Y.	302,000 C.Y.
<u>PIPING</u>		
Large Bore	149,000 L.F.	131,689 L.F.
Small Bore	148,000 L.F.	91,222 L.F.
Total	297,000 L.F.	222,911 L.F.
LB Hangers (Includes Restraints)	12,858 EA.	8,700 EA.
SP Hangers (Includes Restraints)	20,600 EA.	3,790 EA.
Yard	35,000 L.F.	35,000 L.F.
<u>ELECTRICAL CABLE</u>		
Power	210,260 L.F.	60,352 L.F.
Control	3,416,780 L.F.	1,352,757 L.F.
Security	396,000 L.F.	---
Instrumentation	1,756,160 L.F.	681,997 L.F.
Total	5,799,200 L.F.	2,097,116 L.F.
<u>ELECTRICAL CONDUIT</u>		
Exposed Metal	455,000 L.F.	337,000 L.F.
Cable Tray	98,000 L.F.	96,000 L.F.
<u>ELECTRICAL TERMINATIONS</u>		
Power	4,000 EA.	1,728 EA.
Control	91,000 EA.	37,927 EA.
Security	5,000 EA.	---
Instrumentation	59,000 EA.	14,393 EA.
Total	162,000 EA.	53,848 EA.
<u>ELECTRICAL CIRCUITS</u>		
Power	400 EA.	147 EA.
Control	14,000 EA.	5,418 EA.
Security	6,600 EA.	2,000 EA. ?
Total	21,000 EA.	8,565 EA.
<u>INSTRUMENTATION</u>		
Tubing	328,560 L.F.	153,000 L.F.
Piping	21,200 L.F.	3,100 L.F.
Valves	3,900 EA.	1,275 EA.
Instruments	3,780 EA.	1,150 EA.
Panels-Packs	700 EA.	270 EA.
<u>PAINTING</u>		
Arch. Painting	916,700 S.F.	701,628 S.F.
Nuclear Coating	1,370,100 S.F.	434,319 S.F.
Valves	2,550 EA.	---
Piping	30,000 L.F.	3,000 L.F.
Hangers	3,900 EA.	---

7

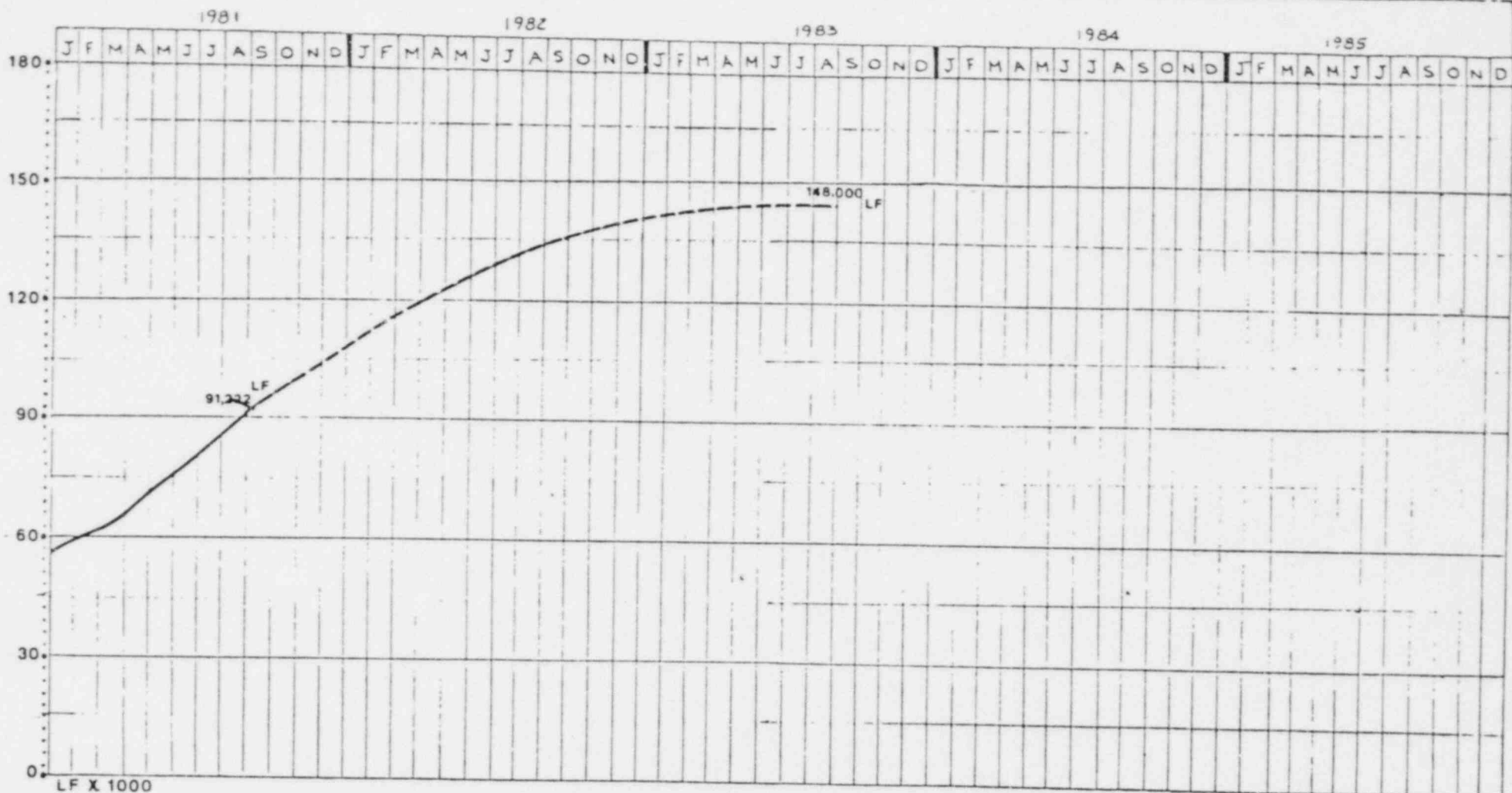


ACTUAL ———
 SCHEDULED - - - - -

NO.	REVISION	DATE	DATE	BY

THE CLEVELAND ELECTRIC ILLUMINATING CO.	
PERRY NUCLEAR POWER PLANT	
PROJECT SCHEDULING	
TITLE	
CONCRETE 1 & COMMON	
Sheet	OF
DWG. NO.	

#7



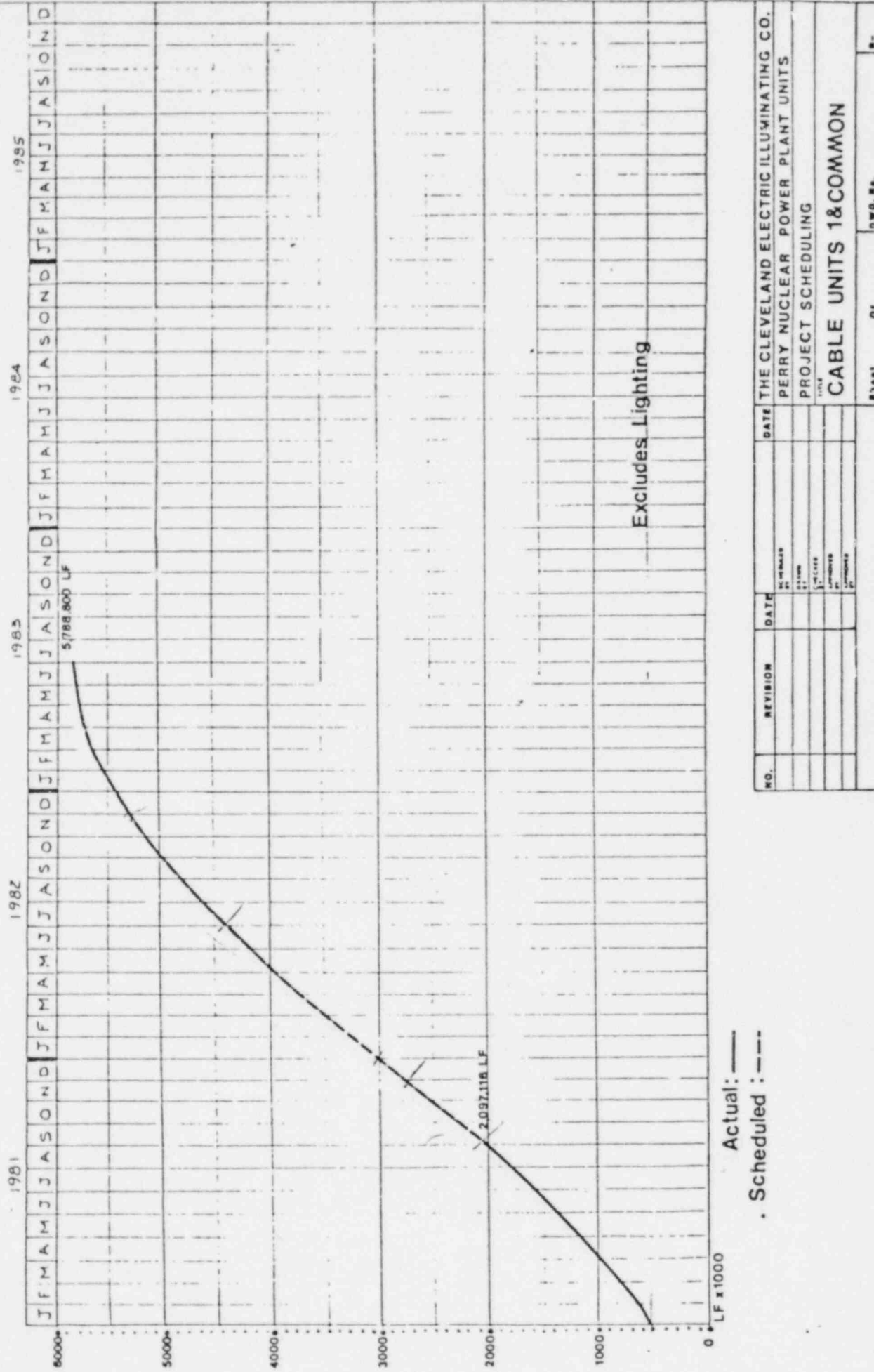
ACTUAL -----
 SCHEDULED -----

NO.	REVISION	DATE	DATE	TITLE
				THE CLEVELAND ELECTRIC ILLUMINATING CO.
				PERRY NUCLEAR POWER PLANT
				PROJECT SCHEDULING
				TITLE
				SMALL BORE PIPE 1 & COMMON
				SHEET OF DWG. No. 8-

91,222
 57,000
 34,222 LF/mo last 8 mos = 4278 LF/mo

#7

2001000 LF/mo



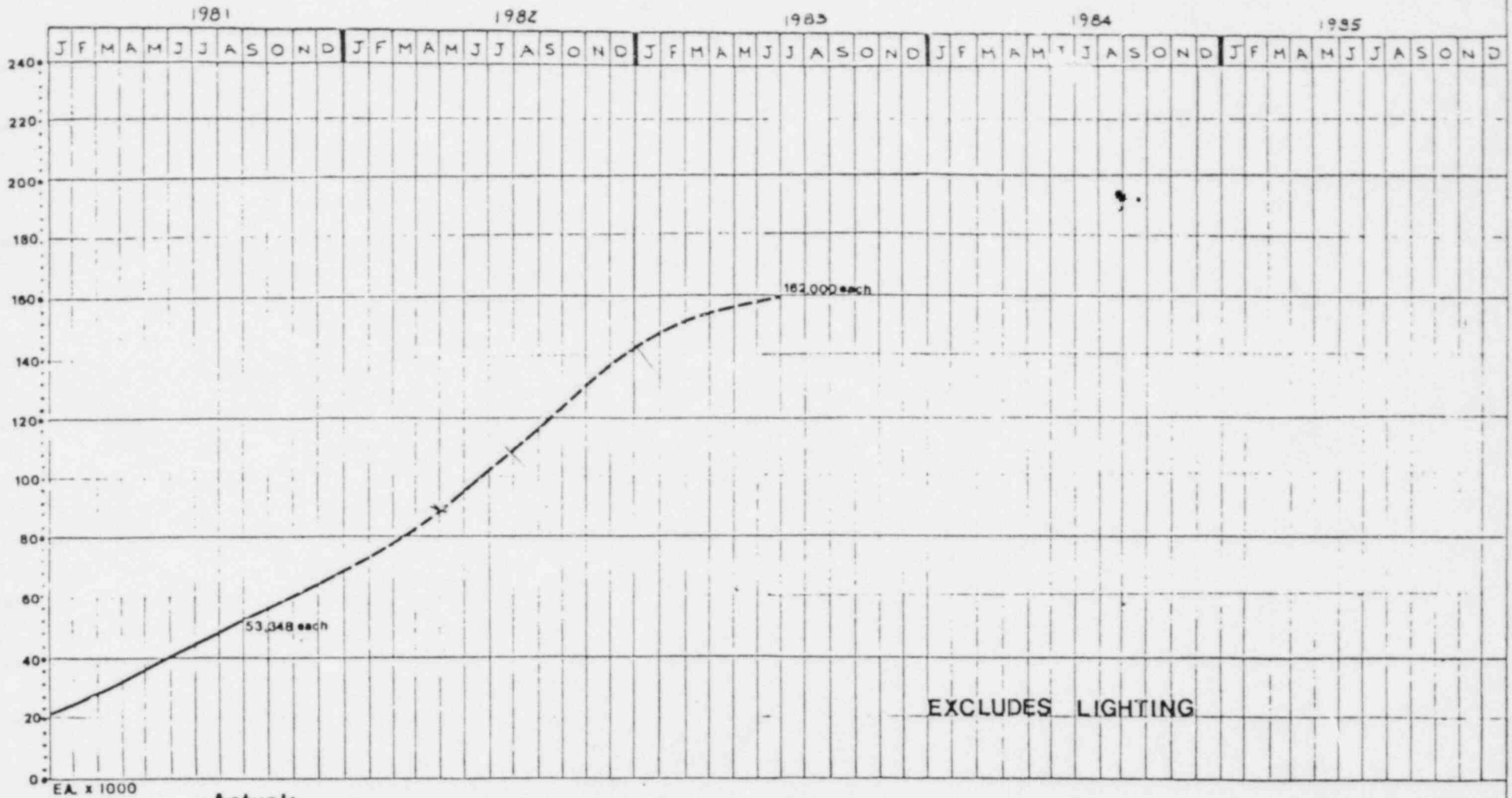
Actual: —
Scheduled: - - -

NO.	REVISION	DATE	BY	DATE	DATE

THE CLEVELAND ELECTRIC ILLUMINATING CO.
PERRY NUCLEAR POWER PLANT UNITS
PROJECT SCHEDULING
CABLE UNITS 1&COMMON

Sheet of DWG. No. 8-

2,097,118
2,500,000
1597,116 ÷ 8 = 199,640 LF/mo
1100 8 mos.



NO.	REVISION	DATE	DATE	TITLE
				THE CLEVELAND ELECTRIC ILLUMINATING CO.
				PERRY NUCLEAR POWER PLANT
				PROJECT SCHEDULING
				TITLE
				TERMINATIONS 1& COMMON
				Sheet Of DWG. No. R-

$$\frac{53,348 - 20,000}{8 \text{ mos}} = 4169 \text{ ea/mo.}$$

PERRY NUCLEAR POWER PLANT

MAJOR PROJECT MILESTONES (UNIT #1)

<u>MILESTONES</u>	<u>SCHEDULED</u>	<u>ACTUAL</u>
START CONSTRUCTION (LWA)	N.A.	OCT. 21, 1974
CONSTRUCTION PERMIT ISSUED	N.A.	MAY 3, 1977
SET REACTOR PRESSURE VESSEL	SEPT. 11, 1978 (T-4)	AUG. 13, 1978
SET GENERATOR STATOR	DEC. 1979-JUN. 1981 (T-5)	MAY 15, 1980
SET CONTAINMENT DOME	MAY 12, 1981 (T-6)	MAY 2, 1981

<u>MILESTONES</u>	<u>SCHEDULED</u>
TURBINE ON TURNING GEAR	OCTOBER 15, 1981
SUPPRESSION POOL TURNOVER	MAY 31, 1982
COMPLETE RPV INTEGRATED FLUSH	SEPTEMBER 16, 1982
COMPLETE CONTAINMENT I.L.R.T.	FEBRUARY 13, 1983
OPERATING LICENSE	MAY 1, 1983
START FUEL LOAD	MAY 1, 1983
INITIAL CRITICALITY	JUNE 5, 1983
INITIAL TURBINE ROLL	AUGUST 3, 1983
SYNCHRONIZE GENERATOR	OCTOBER 1, 1983
100% POWER OPERATION	MARCH 29, 1984
COMMERCIAL OPERATION DATE	MAY 1, 1984

SCHEDULE VERIFICATION PROGRAM

OBJECTIVE: ASSURE PLANS & SCHEDULES ARE REALISTIC TO FINISH

- REVIEWED & UPGRADED CONSTRUCTION SPECS TO REFLECT SITE CONDITIONS & PRODUCTIVITIES
- REVIEWED & UPGRADED "QUANTITY" INFORMATION
- CORRECTED "WEIGHTING FACTORS" FOR WORK ELEMENTS
- ROLLED IN KNOWN CONTINGENCY ITEMS
- MOVED TO DYNAMIC SCHEDULE MODE
- FAC "BASE CONTRACT" UP 22%

CRITICAL PATH

REACTOR BUILDING

▪ PAINT

▪ PIPING (CRD.M)

▪ I & C

▪ ELECTRICAL (CRD-202)

-202 day float

OTHER

▪ PLANT SECURITY [-123]

SCHEDULE

TARGET VS. FORECASTED

	<u>TARGET</u>	<u>FORECASTED</u>
INTEGRATED FLUSH	9/16/82	3/30/83
FUEL LOAD	5/01/83	11/01/83
COMMERCIAL OPERATIONS	5/01/84	5/01/84

CRAFT LABOR

- 1982 LAST "BULK" CONSTRUCTION YEAR
- 1982 SLOW IN SURROUNDING COUNTIES
- BASIC CRAFTS HAVE HIGH UNEMPLOYMENT
- LARGE NUMBER OF TRAVELERS
- MOST CONTRACTS "UP" SPRING 82
- PERRY MANPOWER UP \approx 10% IN 1982
- HOLDING OUT OF UNIT #2
 - FORCE FINISH #1
 - CASH

PERRY NUCLEAR POWER PLANT
MAJOR CONTRACTORS
PERFORMANCE INDICATORS

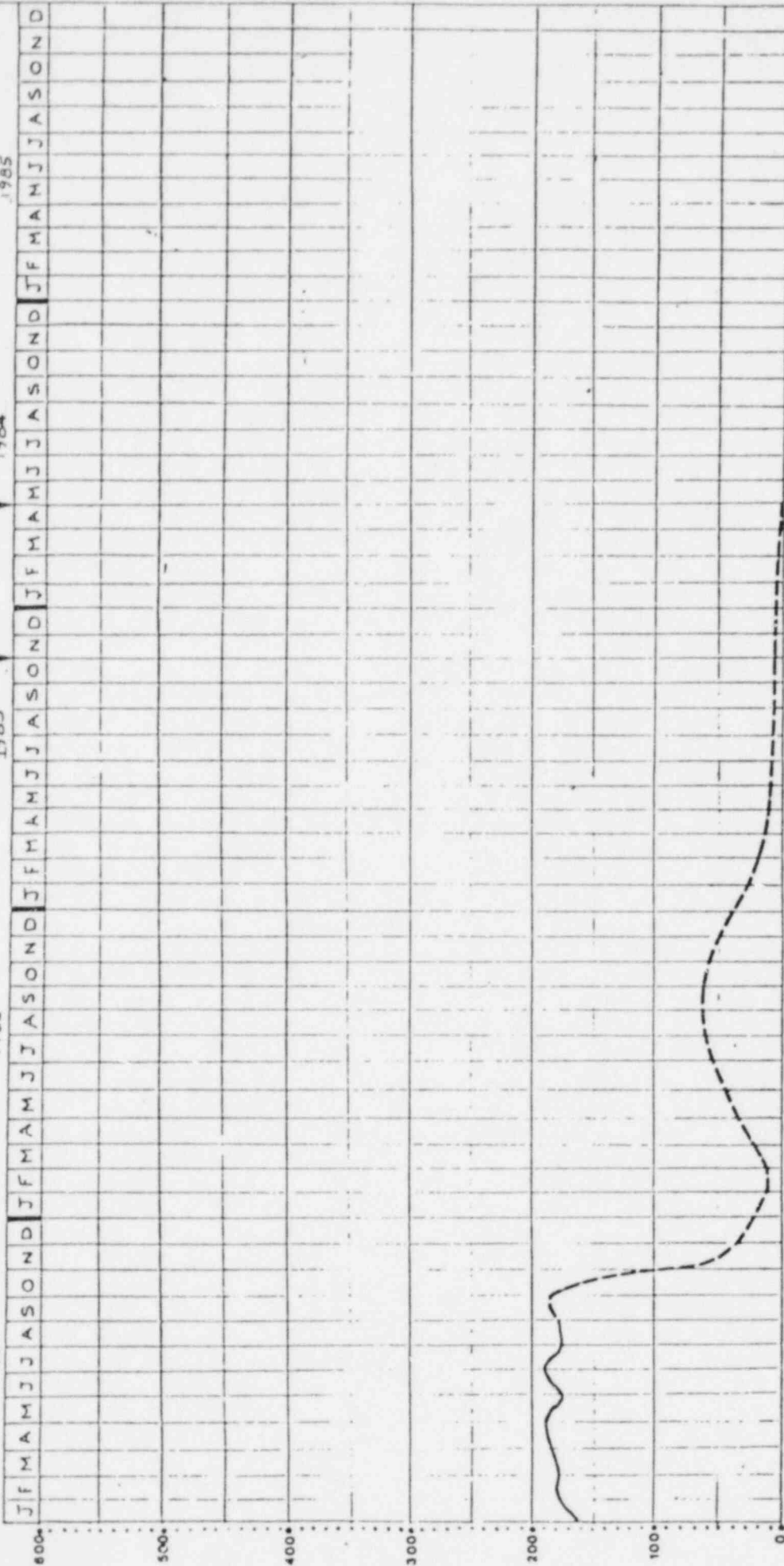
<u>SPECIFICATION</u>	<u>DISCIPLINE</u>	<u>TO DATE</u>
44/45	PIPING	0.73
33/34	ELECTRICAL	0.99
48/90	I & C	0.74
49/91	HVAC	1.15
38/39	EQUIPMENT	0.63
20	NUC. ISLAND CONCRETE	1.09
24	B.O.P. CONCRETE	2.00

NOTE: PERFORMANCE INDICATOR OF
ONE OR MORE IS ACCEPTABLE
PERFORMANCE.

FUEL LOAD COMMERCIAL OPERATION

1985 1984 1985 1984 1985

1985



Actual ———
Scheduled - - - - -

NO.	REVISION	DATE	DATE

THE CLEVELAND ELECTRIC ILLUMINATING CO.
PERRY NUCLEAR POWER PLANT
PROJECT SCHEDULING
10-2

IRONWORKERS 1 & COMMON

Sheet 01 DWG. No. R-

FUEL LOAD COMMERCIAL OPERATION

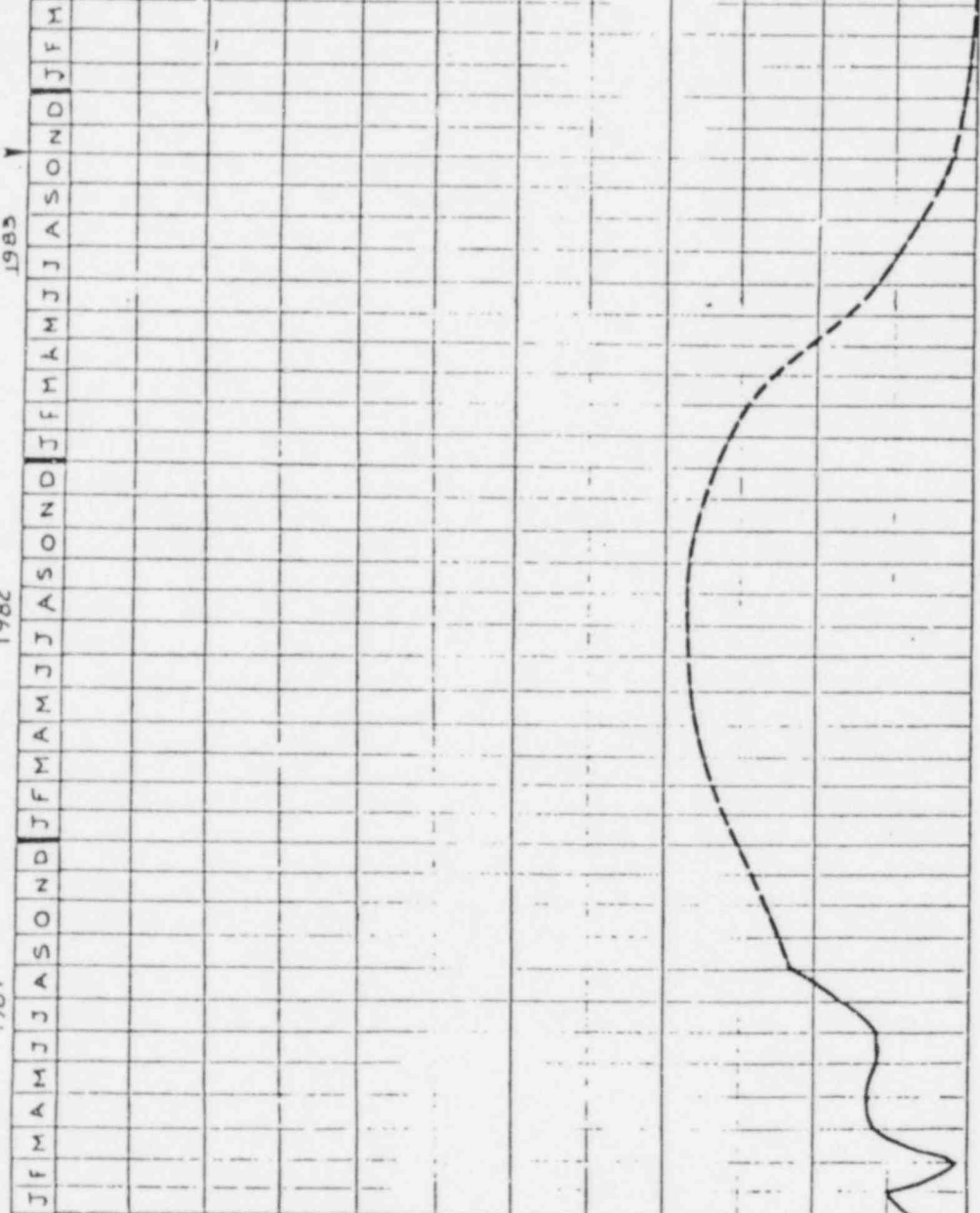
1983

1984

1985

J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D

600*
500*
400*
300*
200*
100*
0

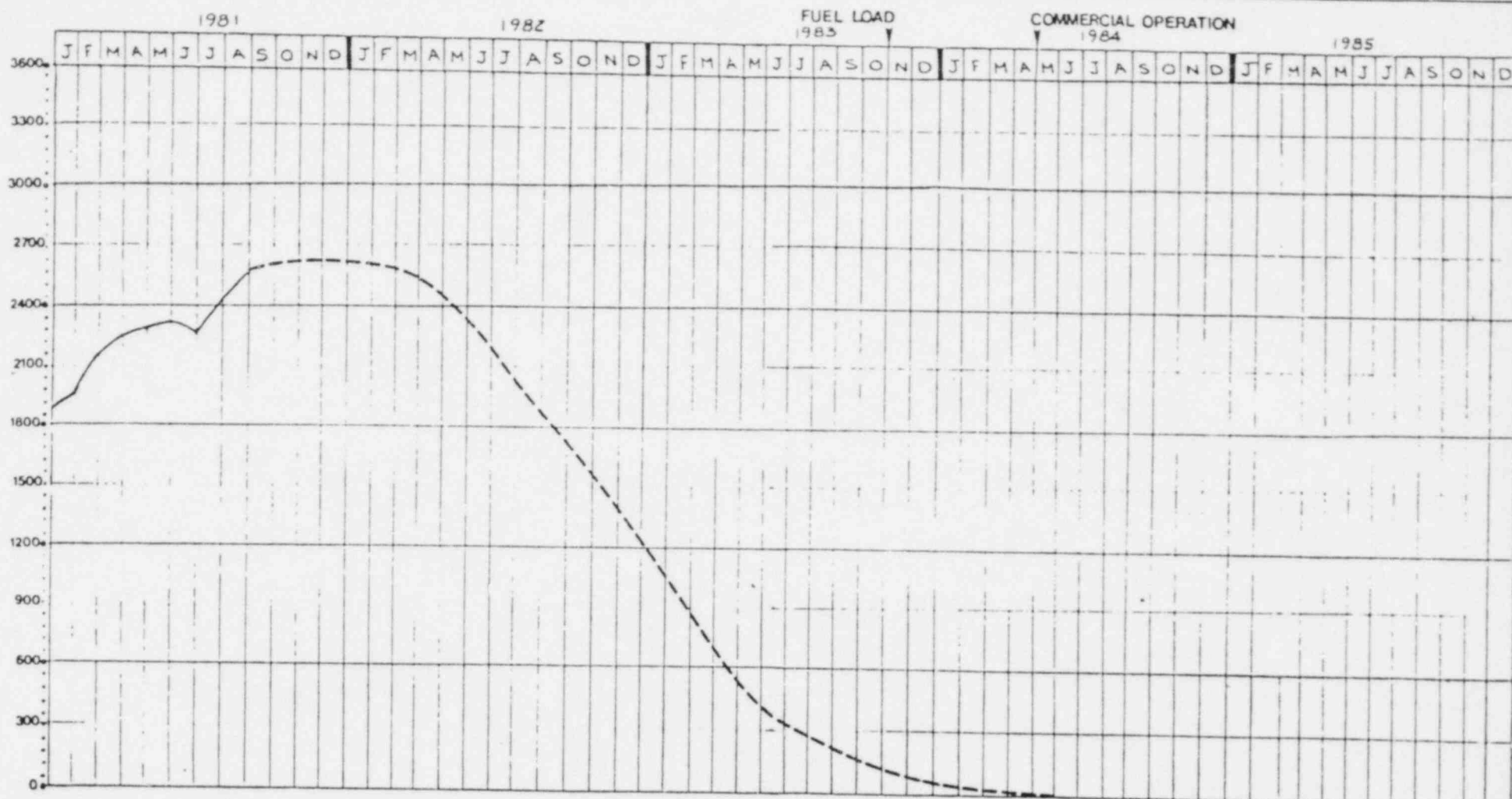


Actual —
Scheduled - - -

NO.	REVISION	DATE	DATE
	BY	DATE	DATE
	BY	DATE	DATE
	BY	DATE	DATE
	BY	DATE	DATE

THE CLEVELAND ELECTRIC ILLUMINATING CO.
PERRY NUCLEAR POWER PLANT
PROJECT SCHEDULING
PAINTERS 1 & COMMON

Sheet of DWG. No. 1-



ACTUAL: ———
 SCHEDULED: - - - -

NO.	REVISION	DATE	DATE	TITLE
				THE CLEVELAND ELECTRIC ILLUMINATING CO.
				PERRY NUCLEAR POWER PLANT
				PROJECT SCHEDULING
				TITLE
				CRAFT MANPOWER UNIT 1 & COMMON
				Sheet Of DWG. No. R-

ENGINEERING STATUS SEPTEMBER 1, 1981

	NUMBER OF SCHEDULE ACTIVITIES	PERCENT COMPLETE
DESIGN	28,615	92 %
NEW WORK	1,488	52%
REWORK	581	33%
TOTAL	30,684	90%

- SUMMARY:**
- NO ENGINEERING ACTIVITIES WILL HEAVILY IMPACT OUR SCHEDULED FUEL LOAD DATE
 - NEW WORK AND REWORK ENGINEERING IS DOMINANT
 - ENGINEERING OF PIPE SUPPORTS IN CONTAINMENT IS MOST CRITICAL

NEW WORK ENGINEERING

▪ TECHNICAL SUPPORT CENTER

▪ EMERGENCY OPERATION'S FACILITY

▪ EMERGENCY RESPONSE INFORMATION
SYSTEM (ERIS-NUREG 0696)

▪ OTHER TMI REQUIREMENTS

▪ I.E. BULLETIN 79-14

▪ ANTICIPATED TRANSIENTS WITHOUT
SCRAM (ATWS)

PIPE SUPPORT REWORK

	REVISIONS	NEW DESIGNS
PIPING REANALYSIS WITH FINAL "NEW LOADS"	500	200
AS-BUILT VS. AS-DESIGNED	?	400
PRE-OPERATIONAL PIPE VIBRATION TESTING	—	100

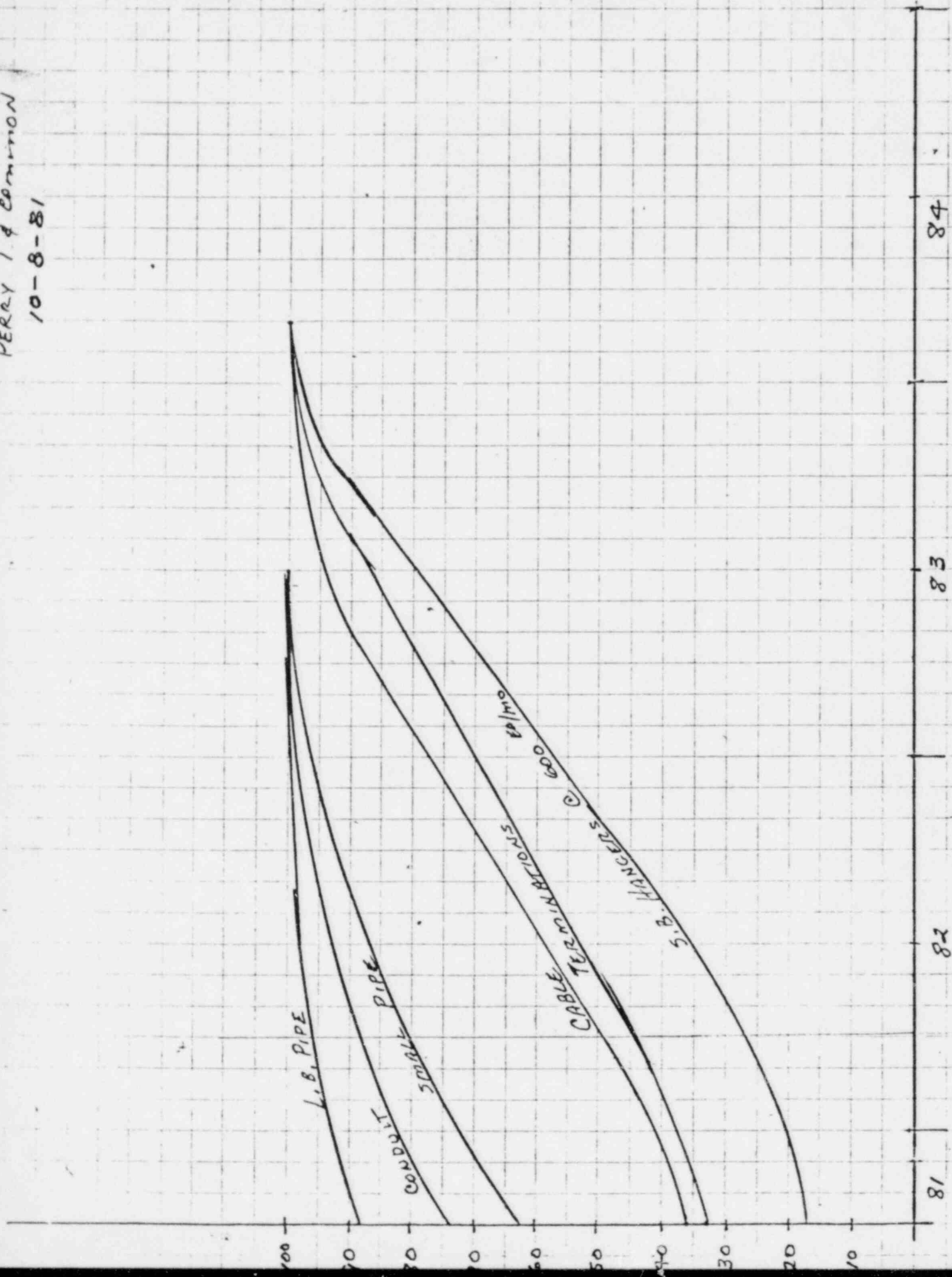
**UNIT #1 & COMMON PIPING SUPPORTS
STATUS AS OF SEPTEMBER 1, 1981**

	LARGE BORE	SMALL BORE
REQUIRED	12,858 <i>10,885</i> <hr/> <i>1,973</i>	20,600
DESIGNED	12,396 (96%)	4,700 (23%)
DELIVERED	10,885 (85%)	N/A
INSTALLED	8,700 (68%)	3,390 (16%)

UNIT #1 & COMMON SAFETY-RELATED PIPING SUPPORTS STATUS AS OF SEPTEMBER 1, 1981

	LARGE BORE SAFETY	SMALL BORE SAFETY
REQUIRED	$\begin{array}{r} 4423 \\ 2433 \\ \hline 1990 \end{array}$ <i>~ 800 Simulators</i>	2412
DESIGNED	3961 [90%] [462 REMAIN]	1126 [47%]
DELIVERED	2433 [55%]	N/A
INSTALLED	$\begin{array}{r} 4423 \\ 2000 \\ \hline 3723 \end{array}$ <i>300</i> 700 [16%]	400 [14%]

PERRY 1 & COMPANY
10-8-81



Conduit Installation Rate

Average per month for 1981 through August 17,000'/mo

Remaining footage \approx 118,000'

During the most recent months the installation rate has averaged \approx 12,000'/mo

DEVIATION ANALYSIS REPORT STATUS

DAR NO.	DATE INITIATED	DESCRIPTION	SYSTEM	CONTRACTOR/ VENDOR (SP)	COMMENT
6	10-6-77	GE Safety Relief Valve design weakness	B21	GE	Completion committed 5/1/83.
20	12-4-79	Omission of Double Class "B" Waterstops	N/A	GLC (SP-93)	Waiting for close out of NR No. GLC 526.
27	4-28-80	Rosemount Model 510 DV Trip Calibration Units Model 1152 Pressure Transmitters	Misc.	GE (SP-301)	Completion committed 1/1/81. Waiting for closeout of NR Nos. CQC 1677, RECI 055, RECI 056 and FDI Nos. WNHV Rev. 0 & I; WREC, Rev. 0 & I; WNHX, Rev. C & I.
28	4-28-80	Radiographs for Dijkers Safety Relief Valves	B21	GE (SP-301)	GE report draft received; DAR in NDS, and closeout of NR No. CQC 1622.
29 Rev. 1	5-15-80	Class 1E Motor Control Centers	R24	Cutler-Hammer (SP-557)	Completion commitment revised to 12-1-81 (extended).
30	6-4-80	Failure of Water Soluble Purge Dam to dissolve after being heated	Misc.	PPP (SP-44/45/47)	Final Report mailed 8-3-81.
37	10-6-80	Units 1 & 2 Suppression Pools' Stainless Steel Liner	G41 G42 G43	NNIC (SP-17)	Final Report due 12-15-81 (extended a second time).
38	10-7-80	Standby Diesel Generator Model DSRV 16	R43	Transam. DeLaval (SP-562)	Final Report due 12-1-81.
39	10-9-80	Hilti-Kwik Bolts	Misc.	Hilti, Inc. (SP-208)	Ready for NRC review.

DAR NO.	DATE INITIATED	DESCRIPTION	SYSTEM	CONTRACTOR/ VENDOR (SP)	COMMENT
41	11-3-80	G-41 System Fuel Pool Penetrating Piping	G41	NNIC (SP-53)	Closeout of NR No. CQA-178.
43	12-18-80	PGCC Flexible Conduit Grounding	H13	GE (SP-591)	Final Report due 10-30-81 (extended). Close-out of FCI's WNOJ and WRTI.
44	1-2-81	Standby Diesel Generators Lubricating Oil System Defect	R47	Transam. DeLaval (SP-562)	Final Report tentatively scheduled for October, 1981.
46 Rev. 1	2-3-81	Limit Switches	Misc.	NAMCO Controls	Final Report due 10-29-81.
47	4-8-81	Penetration Anchor and Barrier Plate Material	Misc.	GAI/PPP (SP-527)	Repair completion committed August, 1981.
52	5-22-81	Concrete Cracks and spalls in Unit #1 Fuel Transfer Area of Fuel Handling Building	N/A	NECC (SP-20)	Final Report mailed 10-1-81. Ready for NRC review.
56	6-1-81	Single Failure Criterion/Receiver Tank Sensing	R44	GAI/General Atomics	Waiting for revision of drawings: D302-351 and D352-351.
57	6-3-81	No Axial Gap in Control Rod Drive Piping Socket Welds	C11	PPP (SP527)	Final Report due 12-7-81 (extended).
59	6-22-81	Axial-Flow Fans, Housing thickness	M32 M43	Buffalo Forge (SP648)	Final Report due 10-31-81.
60	6-25-81	Pushbuttons for Bailey 720 Utility Stations/ Units 1 & 2, and Common - BOP Panels/PGCC	H13 H51	GE/NSSS	Final Report due 5-1-83.

DAR NO.	DATE INITIATED	DESCRIPTION	SYSTEM	CONTRACTOR/ VENDOR (SP)	COMMENT
61	6-25-81	CR2940 Tandem Block Switches/Units 1 & 2 PGCC		GE (SP301)	Final Report due 8-1-83.
62	7-10-81	Heavy Weight Concrete/ Units 1 and 2 Bioshield Walls	N/A	NECC (SP20)	Final Report due 12-18-81.
63	8-17-81	✓ Rockbestos Coaxial Cable		Rockbestos (SP793-01)	Interim Report mailed 9-18-81. Final Report due 1-22-82.
64	8-31-81	Pipe Spool Sandblasting	Various	Pullman Power (SP44/47)	Interim Report mailed 9-30-81. Final Report due 1-11-82.
65	9-4-81	Diesel Generator Engines/Intake and Exhaust Valve Springs	R43	Transan. Delaval (SP562)	Determined not to be reportable.
66	9-10-81	Spool Pieces	1G41	PPP (SP527)	NRC notified 9-24-81. Report due 10-23-81.
67	9-11-81	Limiter Operator SMB-3, SMB-4, or SMB-5 Motor Pinion Key			NRC notified 9-22-81. Report due 10-22-81.
68	9-14-81	Cable Tray Splice Bolts	Various	L.K. Comstock (SP33)	NRC notified 9-18-81. Report due 10-16-81.
69	9-17-81	RWCU Heat Exchangers Weld Documentation	1G33	GE	NRC notified 10-1-81. Report due 10-30-81.

PERRY UNIT 1 & NEEDED Common FACILITY

10-8-81

	<u>EAC</u>	<u>INSTALLED</u>	<u>REMAINING</u>	
CONCRETE	310,000	302,000	8,000	97.4
L. PIPE	149,000	131,689	17,311	88.4
S. PIPE	148,000	91,222	56,778	62.0
LB HANGERS	12,858	8,700	4,158	67.7
SE HANGERS	20,600	3,390	17,210	16.5
YARD PIPE	38,000	35,000	3,000	30.0
CABLE	5,788,800	2,097,118	3,691,682	36.2
CONDUIT (EXP INTL)	455,000	337,000	118,000	74.1
CABLE TRAY	98,000	96,000	2,000	98.0
TERMINATIONS	162,000	53,348	108,652	32.9
CIRCUITS	21,000	8,565	12,435	40.8
INSTRUMENTS	3,780	1,150	2,630	30.4

600 21/10

Category	Value	Date	Category	Value	Date
CONCRETE	237,000	3/79	CONCRETE	310,000	9/81
LARGE PIPE	276,200		LARGE PIPE	149,000	
SMALL PIPE	175,300		SMALL PIPE	148,000	
CABLE	6,264,000		CABLE	5,788,800	
CABLE TERNY	87,200		CABLE TERNY	98,000	
CONDUIT	692,000		CONDUIT	455,000	
TERMINATIONS	221,000		TERMINATIONS	162,000	

16-79 ENGINEERING 85%
 " " " 90%
 9-81

1984

1983



NO.

REVISION	DATE	DATE	DATE

THE CLEVELAND ELECTRIC ILLINOIS
 PERRY NUCLEAR POWER PLANT
 PROJECT SCHEDULING
 SHEET OF DWG. No. 10-11

SUBSCOPED SYSTEM TURNOVER TO NTS
 TO SUPPORT UNIT 1 FUEL LOAD

11 2 21
Tom Matheny

Jeff Porterfield

M. J. TITAS

Larry Beck

J. M. LASTOVKA

Murray Edelman

G. H. LOCKWOOD

Scheduling Supervisor

Project Controls mgr.

MANAGER - PERRY PROJECT SERVICES

CEI Licensing

GEN. SUPV. ENG. - NTS

Mgr - NEO

GEN. SUPV. CONST BUYING

PERRY UNIT 1 & Common

10-9-81

- ✓ WORK REMAINING IN REACTOR BUILDING
 - PIPING, HANGERS, ELECTRICAL, COATING, BIO SHIELD (NEW LONG 1102)
- ✓ CABLE POOLING & TERMINATIONS
- ✓ SMALL BORE PIPE & HANGERS
- PRE OP TESTING PROGRAM
- ✓ OBSERVATIONS DURING SITE TOUR (
- OTHER PROJECTS
- IEEE QUAL OF EQUIPMENT (AS ON EQUIP)

2-84 ESTIMATED F.L.D.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

NOV 17 1981

Docket Nos. 50-440
and 50-441

PERMITTEE: Cleveland Electric Illuminating Company
FACILITY: Perry Nuclear Power Plant, Units 1 & 2
SUBJECT: SUMMARY OF CASELOAD FORECAST PANEL SITE VISIT ON OCTOBER 7 - 9, 1981

Introduction

Representatives of the NRC (Mr. W. Lovelace, Office of Management & Program Analysis, Mr. E. Schweinbinz, Project Inspector from Region III Headquarters, and Dr. R. Gilbert, Perry Licensing Project Manager [Environmental]) met with representatives of Cleveland Electric Illuminating Company on October 7, 1981, to evaluate the status of construction of the Perry Nuclear Power Plant and hear the permittee's basis for its scheduled completion date for Unit 1. Principal participants for the permittee were: Mr. M. Edelman, Manager, Nuclear Energy Department (NED), Mr. M. Titas, Manager, Perry Project Services Department, and Mr. R. Farrell, Manager, Nuclear Quality Assurance Department. All participants in the initial meeting and the summary meeting on October 9, 1981, are listed in Enclosure 1.

Summary

The permittee made a presentation on October 7, 1981, to respond to the information requests provided by the Caseload Forecast Panel and attached, as an agenda, to the meeting notice. On October 8, 1981, representatives of the permittee conducted a tour of all major buildings, equipment and systems. It was emphasized that all effort is being expended on Unit 1 and common. The permittee stated in the initial meeting that Unit 1 and common facilities were 77.3% complete as of September 1, 1981. At that same point, the following individual construction activities had the indicated percentage completion:

Civil Structural	98
Large Bore Pipe	88
Small Bore Pipe	62
Large Bore Hangers	67
Electrical Raceway	80
Cable Pulling	36

8112030700
POR/LPDR

Area percentage completion was as follows:

Nuclear Island	78.4
Reactor Building	58.0
Turbine Building	88.0
Control Complex	81.6
Yard	90.4

Charts presenting detailed breakdowns of the structural concrete (in cubic yards), large and small bore piping and electrical cable (in linear feet) the numbers of large and small bore hangers installed, and electrical terminations completed were furnished and noted. Scheduling charts for major items were also shown as well as a table showing major construction milestones, past and future (see Enclosure 2).

A chart showing the targeted and presently in-house forecasted dates for critical milestones (Enclosure 3) indicated that, although commercial operation of Unit 1 was still scheduled for May 1, 1984, the integrated flush schedule had slipped from 09/16/82 to 03/30/83 and the Fuel Load Date (FLD) from 05/01/83 to 11/01/83. The permittee insisted, however, that they were holding their contractors to the 05/01/83 FLD and that, since they were operating on a single shift basis at present, they had the option of increasing the number of shifts to pick up the slippage.

Equipment received, with the exception of instrumentation at 88 percent and hangers at 85 percent, was above 90 percent. Rebar and embedments were 100 percent.

Of the total number of test procedures required for fuel load (564) approximately 60 percent have been approved. Very few of the preoperational and acceptance tests required for fuel load have been completed at this time.

The permittee noted that there may be potential delays due to known requirements (i.e., TMI related items) and unknowns relating to vendor performance. They are monitoring these areas closely. 10 CFR 50.55(e) items appear to be under management control at this time and should not impact the schedule significantly.

Conclusion

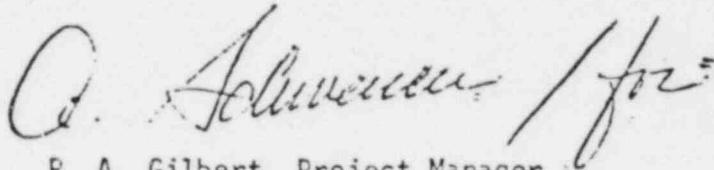
Following the presentation of the permittee and subsequent discussions with permittee personnel complemented by an extensive tour of the facility, a staff analysis of the fuel load data was made which was based on the following:

- (a) the construction work remaining in the reactor building including piping, hangers, electrical, coating, bio shield, and new loads modifications.
- (b) the construction work remaining on small bore piping and, in particular, small bore hangers.

- (c) the remaining cable installation and terminations.
- (d) the status of the pre-operational testing program.
- (e) observations during the site tour of construction work remaining.
- (f) the construction status of this project compared with other projects in similar stages of construction.

It was concluded that a realistic construction completion date would be the first quarter of 1984, with a nominal date of February 1984.

The permittee, at the October 9, 1981 exit meeting, did not challenge the staff's forecast. The staff indicated that it would monitor the permittee's construction progress and, if major milestones are achieved sooner than we now estimate, the NRC Caseload Forecast Panel will reassess its estimated fuel load date so that routine administrative aspects of licensing activities will not impact fuel load.



R. A. Gilbert, Project Manager
Licensing Branch #2
Division of Licensing

Enclosures:
As stated

cc: See next page

Mr. Dalwyn R. Davidson
Vice President, Engineering
The Cleveland Electric Illuminating Company
P. O. Box 5000
Cleveland, Ohio 44101

NOV 17 1981

cc: Gerald Charnoff, Esq.
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ATTENDEES AT MEETINGS DURING NRC-CLEVELAND ELECTRIC
ILLUMINATING CASELOAD FORECAST PANEL VISIT
OCTOBER 7-9, 1981

OCTOBER 7, 1981

NRC

R. Gilbert
W. Lovelace
E. Schweinbinz

CEI

B. Barkley
L. Beck
W. Coleman
M. Edelman
R. Farrell
J. Kline
J. Lastovka
G. Lockwood
M. Titas
R. Vonderasek

OCTOBER 9, 1981

NRC

R. Gilbert
W. Lovelace
E. Schweinbinz

CEI

L. Beck
M. Edelman
J. Lastovka
G. Lockwood
K. Matheny
J. Porterfield
M. Titas

PERRY NUCLEAR POWER PLANT

MAJOR PROJECT MILESTONES [UNIT #1]

<u>MILESTONES</u>	<u>SCHEDULED</u>	<u>ACTUAL</u>
START CONSTRUCTION [LWA]	N.A.	OCT. 21, 1974
CONSTRUCTION PERMIT ISSUED	N.A.	MAY 3, 1977
SET REACTOR PRESSURE VESSEL	SEPT. 11, 1978 [T-4]	AUG. 13, 1978
SET GENERATOR STATOR	DEC. 1979-JUN. 1981 [T-5]	MAY 15, 1980
SET CONTAINMENT DOME	MAY 12, 1981 [T-6]	MAY 2, 1981

<u>MILESTONES</u>	<u>SCHEDULED</u>
TURBINE ON TURNING GEAR	OCTOBER 15, 1981
SUPPRESSION POOL TURNOVER	MAY 31, 1982
COMPLETE RPV INTEGRATED FLUSH	SEPTEMBER 16, 1982
COMPLETE CONTAINMENT I.L.R.T.	FEBRUARY 13, 1983
OPERATING LICENSE	MAY 1, 1983
START FUEL LOAD	MAY 1, 1983
INITIAL CRITICALITY	JUNE 5, 1983
INITIAL TURBINE ROLL	AUGUST 3, 1983
SYNCHRONIZE GENERATOR	OCTOBER 1, 1983
100% POWER OPERATION	MARCH 29, 1984
COMMERCIAL OPERATION DATE	MAY 1, 1984

SCHEDULE

TARGET VS. FORECASTED

	<u>TARGET</u>	<u>FORECASTED</u>
INTEGRATED FLUSH	9/16/82	3/30/83
FUEL LOAD	5/01/83	11/01/83
COMMERCIAL OPERATIONS	5/01/84	5/01/84



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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Dalwyn R. Davidson

VICE PRESIDENT
SYSTEMS ENGINEERING AND CONSTRUCTION

50-440

February 8, 1982

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555



Dear Mr. Denton:

The NRC is currently using schedule dates for the Perry Nuclear Power Plant of May 1983 for fuel load and May 1984 for commercial operations. Based on recent evaluation of our schedule and a NRC caseload forecast visit, a date of November 1983 appears to be a more realistic fuel load date; however, the May 1984 commercial operation date is still attainable.

The Cleveland Electric Illuminating Company believes it is important to keep you aware of our best estimate for milestone dates. We also believe our current licensing schedule must be maintained due to the probability of lengthy ASLB hearings.

We are constantly refining our schedule in hope of returning to our original May 1983 target for fuel load. We will keep you apprised of this effort.

Sincerely,

Dalwyn R. Davidson,
Vice President-System Engineering
and Construction

DRD:ap

cc: Jay Silberg, Esq.
John Stefano

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5/10

por/LPOR

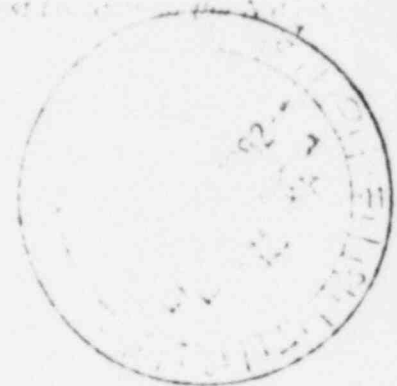


THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

110 E. WILSON ST. CLEVELAND, OHIO 44115

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Raymond R. Davidson



April 13, 1982

Mr. A. Schwencer
Chief, Licensing Branch No. 2
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Perry Nuclear Power Plant
Docket Nos. 50-440; 50-441
Construction Completion
to Support Unit 1 Operation

Dear Mr. Schwencer:

The present schedule for completion of Perry Nuclear Power Plants Units 1 and 2 is November 1983 and May 1987. This time interval between the completion of Units 1 and 2 will involve ongoing construction activities for Unit 2 while Unit 1 is in operation. This letter is provided to address the requirement of 10 CFR 50.34(b)(6)(vii), for "an evaluation of the potential hazards to the structures, systems and components important to safety of operating units resulting from construction activities, as well as a description of the managerial and administrative controls to be used to provide assurance that the limiting conditions for operation are not exceeded as a result of construction activities at the multi-unit sites."

Major aspects of the PNPP review included physical isolation of Unit 1 from Unit 2 from both a system and security barrier standpoint. Further, the exposures of Unit 2 construction and testing personnel in varying locations were evaluated and estimated doses are provided in PSAR Section 12.4. Specific security provisions during Unit 2 construction are discussed in Section 13 of the PNPP Security Plan. In addition, a comprehensive evaluation of the systems required to support Unit 1 operation was done to provide system isolation for common and cross-plant systems. Temporary modifications are being implemented for the Emergency Closed Cooling System, Fire Protection seismic water supplies to common area hose stations, and various common components originally designed with a Unit 2 power supply.

BOO!
1/c

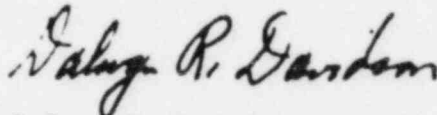
820426 [Signature]

Mr. A. Schwencer
April 13, 1982
Page 2

All common facilities and systems, as well as necessary portions of Unit 2 systems, that are required to support operation will be complete and operational by Unit 1 fuel load. Those portions not necessary for operation will be appropriately isolated such that they will not affect the safe operation of Unit 1.

It is our intention to incorporate a summary of this evaluation and a description of the administrative controls in a subsequent amendment to the Final Safety Analysis Report.

Very Truly Yours,



Dalwyn R. Davidson
System Engineering and Construction

DRD: mlb

cc: John Stefano, Project Manager
Max Gildner, NRC Resident Inspector
Jay Silberg, Esq.