ITEM VIII

VIII. The following information defines the current status of the preoperational test program in terms of the information requested by the NRC caseload forecast panel:

Unit 1

(a) 134 Total Procedures

(b) 1 Number of drafts not started

(c) 6 Number of drafts being written

(d) 110 Procedures approved

(e) 17 Procedures in review

(f) 134 Preop and Acceptance required for FL

(g) 40 Preops completed

(h) 37 Preops currently in progress.

(i) 182 Out of 320 transfer packages completed.

Unit 2

79 Total tests required

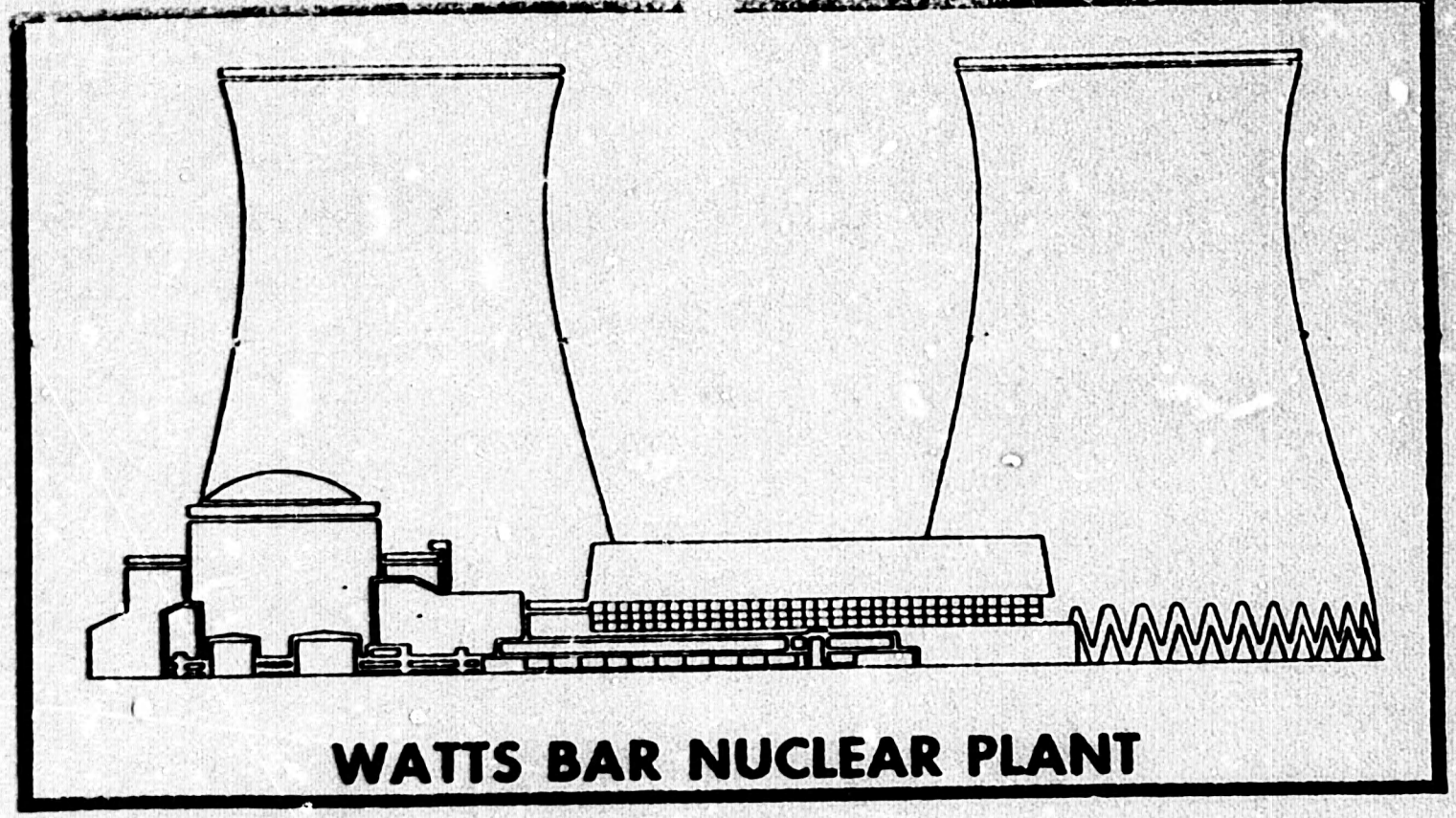
66 Drafts prepared

63 Tests approved

1 Test run or in progress

The Preoperational Test Section is currently at a full approved staffing level of 40 employees. The section consists of a supervisor, assistant supervisor, 3 unit supervisors, 32 test engineers, and 3 clerical employees.

Bo: 'remaker



WEEKLY PROGRESS REPORT AND ANALYSIS

February 18 - February 24, 1983

PREPARED BY

PROJECT CONTROLS STAFF

MAN-HOUR EXPENDITURE DATA AS REPORTED BY CRAFTS AND COST OFFICE

QUANTITY DATA AS REPORTED BY ENGINEERING SECTIONS AND CRAFTS

PROJECT PROGRESS OVERVIEW

Through February 24, 1983

Week No. 531

	TOTAL PROJECT	UNIT 1	UNIT 2	BALANCE OF PLANT	INDIRECTS	CONTINGENCY	REIM-BURSABLE
Estimated Man-Hours	56,523,483	27,868,079	8,119,901	1,864,080	15,427,975	3,223,448	1,116,005
BECA Changes	± 0	1/ +45,334	2/ +7,564	3/ -713,017	± 0	3/ +660,119	± 0
Period Actual M/Hrs	87,331	48,631	12,957	1,986	23,757		647
Men Per Day	2,183	1,215	324	50	594		16
Percent of Total	100%	56%	15%	02%	27%		
M/H Expended to Date	44,425,557	26,541,051	4,477,440	420,493	12,986,573		990,002
Percent Complete	77.80%	94.10%	54.30%	21.90%			
Weekly Percent Change	+0.10%	-0.10%	+0.10%	+6.10%			

1/ Addition of 11,100 man-hours for "Free Edge Violation" an additional scope item. Addition of 6,000 man-hours for BCN 3255. Addition of 28,234 man-hours for various packages and revisions. This 28,234 man-hours are under review for possible areas where the work is included under budgeted unit 1 BCNs.

2/ Quantification of unit 2 system 62 work packages.

3/ Decreased BOP Estimated Man-hours as a result of moving BCN 2350 Volume Reduction Facility from a 100% item to a 50% item. These hours under contingency.

Responsible person: D. C. Knight

L33059.K4
L33001.K2

Weekly Progress Unit 1

	Required	Actual
Feb 18 - Feb 24	0.1341	+0.1000
Feb 11 - Feb 17	0.1289	+0.1000
Feb 4 - Feb 10	0.1217	+0.1000
Jan 28 - Feb 03	0.1213	+0.1000
Jan 21 - Jan 27	0.1208	+0.2000
Jan 14 - Jan 20	0.1525	+0.4000
Jan 06 - Jan 13	0.1537	+0.2000
Dec 31 - Jan 06	0.1714	+0.2000

CALCULATION FOR REQUIRED WEEKLY PROGRESS

A = Assumed % complete at fuel load = 100
B = U1 actual % complete = 94.10
C = Weeks remaining to fuel load U1 = 44
Required weekly progress = $\frac{(A-B)}{C}$

[illegible] 2/24/85

SYSTEM	RULES				[illegible]	[illegible]	[illegible]	TOTAL [illegible]
	PR DES	ENGRG	MATL	[illegible]				
1	161	0	0	0	56	[illegible]	5	[illegible]
3	26	0	0	0	31	10	1[illegible]	[illegible]
12	0	38	6	1	4	0	0	[illegible]
18	0	0	0	0	0	0	0	[illegible]
25	3	0	0	0	0	0	0	4
26	1	21	0	0	59	5	0	8[illegible]
29	0	26	0	0	0	0	0	[illegible]
30	0	0	0	0	0	0	0	[illegible]
31	0	89	0	0	55	16	1	174
33	4	[illegible]	0	2	24	[illegible]	6	[illegible]
36	0	0	0	0	3	0	0	[illegible]
39	0	0	0	0	[illegible]	0	0	[illegible]
40	0	1	0	1	20	0	0	[illegible]
41	0	0	0	0	0	0	0	0
44	0	0	0	0	4	0	0	6
59	0	57	0	2	2	1	2	[illegible]
61	0	52	0	0	0	0	0	52
62	0	159	0	0	23	2	8	182
63	5	11	0	22	74	0	3	11[illegible]
65	0	0	0	0	0	0	0	0
67	45	26[illegible]	3	152	412	23	70	859
68	[illegible]	[illegible]	0	0	20	17	2	107
70	0	42	1	0	27	1	5	[illegible]
72	2	0	1	11	19	1	1	32
74	0	0	0	1	17	[illegible]	0	18
77	0	382	0	8	15	0	1	401
78	1	2	0	0	3	0	0	6
81	0	0	0	0	13	0	0	13
82	35	0	0	2	1	1	0	37
86	0	0	0	0	118	20	2	158
87	0	6	0	0	3	0	12	9
14	0	0	0	0	19	0	23	[illegible]
24	0	0	0	26	83	50	0	169
[illegible]	3	0	0	0	[illegible]	0	0	5
[illegible]								
[illegible]								
NCP	00	0	0	0	0	0	0	00
TOTAL	[illegible]	116[illegible]	[illegible]	[illegible]	1177	[illegible]	10[illegible]	38[illegible]

RA 1[illegible]: INSTALLATION [illegible] ACTION [illegible]
INCP [illegible]: INSTALLATION [illegible] ACTION BY [illegible]
MATL: INSTALLATION [illegible] TO [illegible]
SCHE: INSTALLATION [illegible]
NONRATED: [illegible]
NOTE: [illegible] APPROXIMATELY 500 [illegible] AND [illegible]

(i) Cable (LF)

- Power
- Control
- Security
- Instrumentation
- Plant Lighting

(j) Terminations (ea)

- Power
- Control
- Security
- Instrumentation
- Plant Lighting

(k) Electrical Circuits (ea)

- Power
- Control
- Security

(l) Instrumentation (ea)

NUC PR 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, preop and acceptance tests schedule, current and proposed preop and acceptance test program manpower.

(a) Total number of procedures required for fuel load.
(b) Number of draft procedures not started.
(c) Number of draft procedures being written.
(d) Number of procedures approved.
(e) Number of procedures in review.
(f) Total number of preop and acceptance test required for fuel load.
(g) Number of preop and acceptance tests completed.
(h) Number of preop and acceptance tests currently in progress.
(i) Number of systems turned over to start-up

NEB-NLS 9. Detailed discussion of potential schedular influence due to changes attributed to NUREG-0737 and other recent licensing requirements.

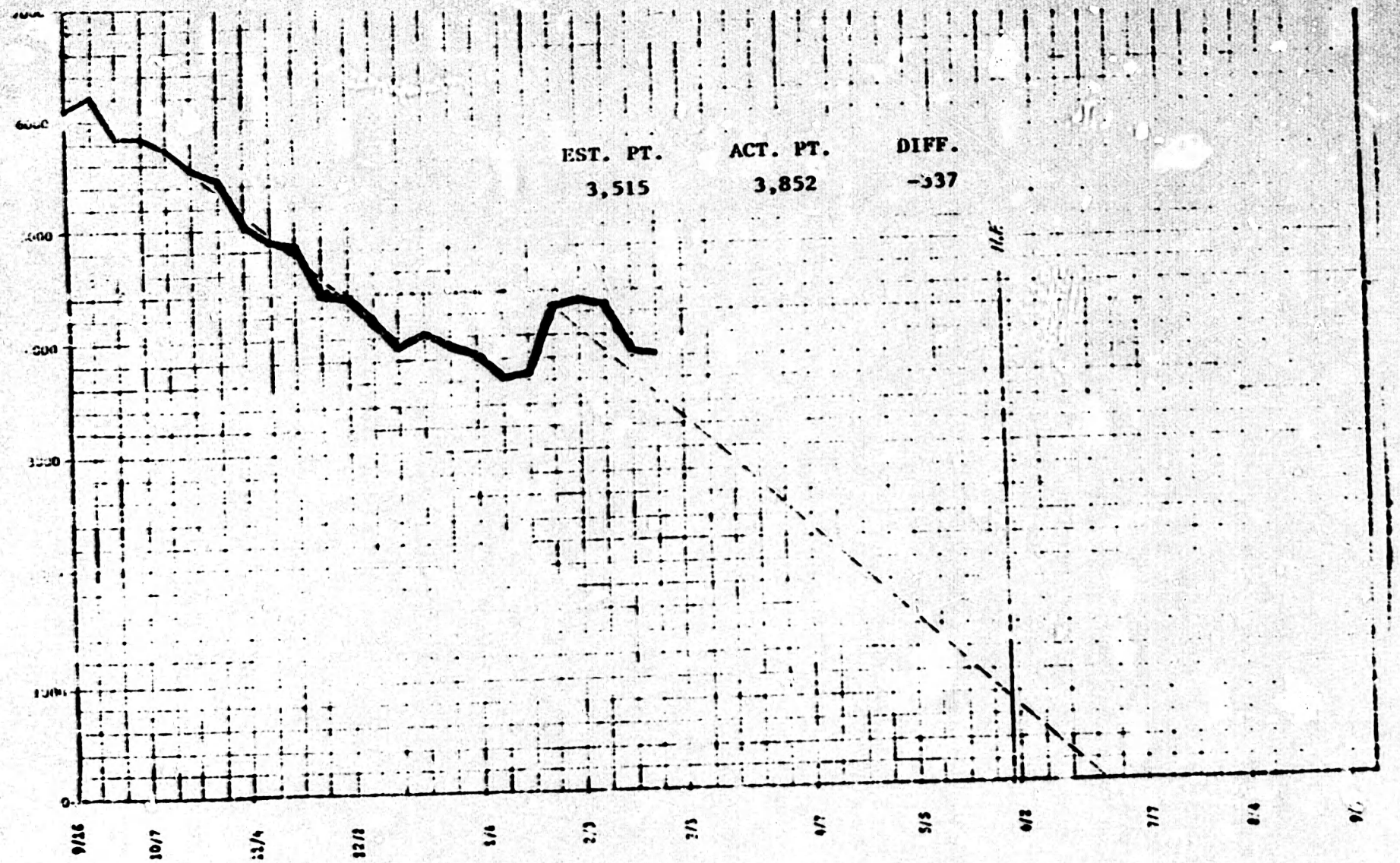
NEB-NLS 10. Discussion of schedular impact, if any, regarding potential deficiencies reported in accordance with 10CFR50.55(e).

OEDC PM (RMP) 11. Overview of current construction and startup management organization showing interfaces between the two.

OEDC PM (RMP) 12. Discussion of schedular impact, if any, regarding modifications to the Model D-3 steam generators.

OEDC 13. Site tour and observation of construction activities.

DE05;E73026.54



REMAINING EST. QTY.	=	3,852
REQUIRED PERIOD QTY.	=	200
ACTUAL PERIOD QTY.	=	161
PERCENT REQUIRED QTY.	=	80.5
8 WEEK AVERAGE	=	233

COMMENTS

Curve includes transferred and untransferred hangers and approximately 900 hangers to be added per NCR's 4164R and WBN SWP 8231

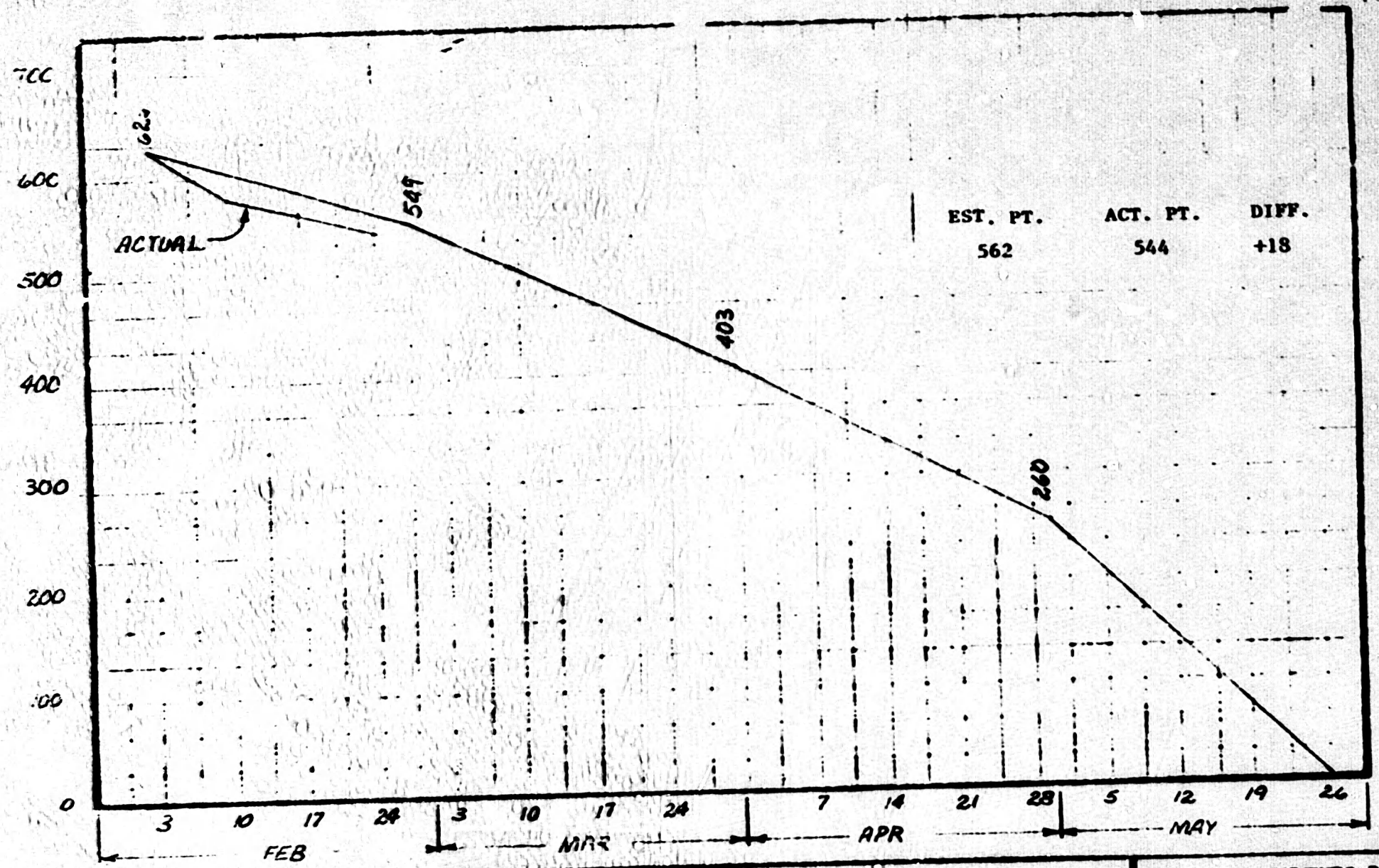
MECHANICAL HANGERS REQUIRED

FOR UNIT 1 AND

TASK: HR, 2H

RESPONSIBLE PERSON(S):

Page 6/



REMAINING EST. QTY.	=	544
REQUIRED PERIOD QTY.	=	19
ACTUAL PERIOD QTY.	=	12
PERCENT REQUIRED QTY.	=	63
8 WEEK AVERAGE	=	20

COMMENTS

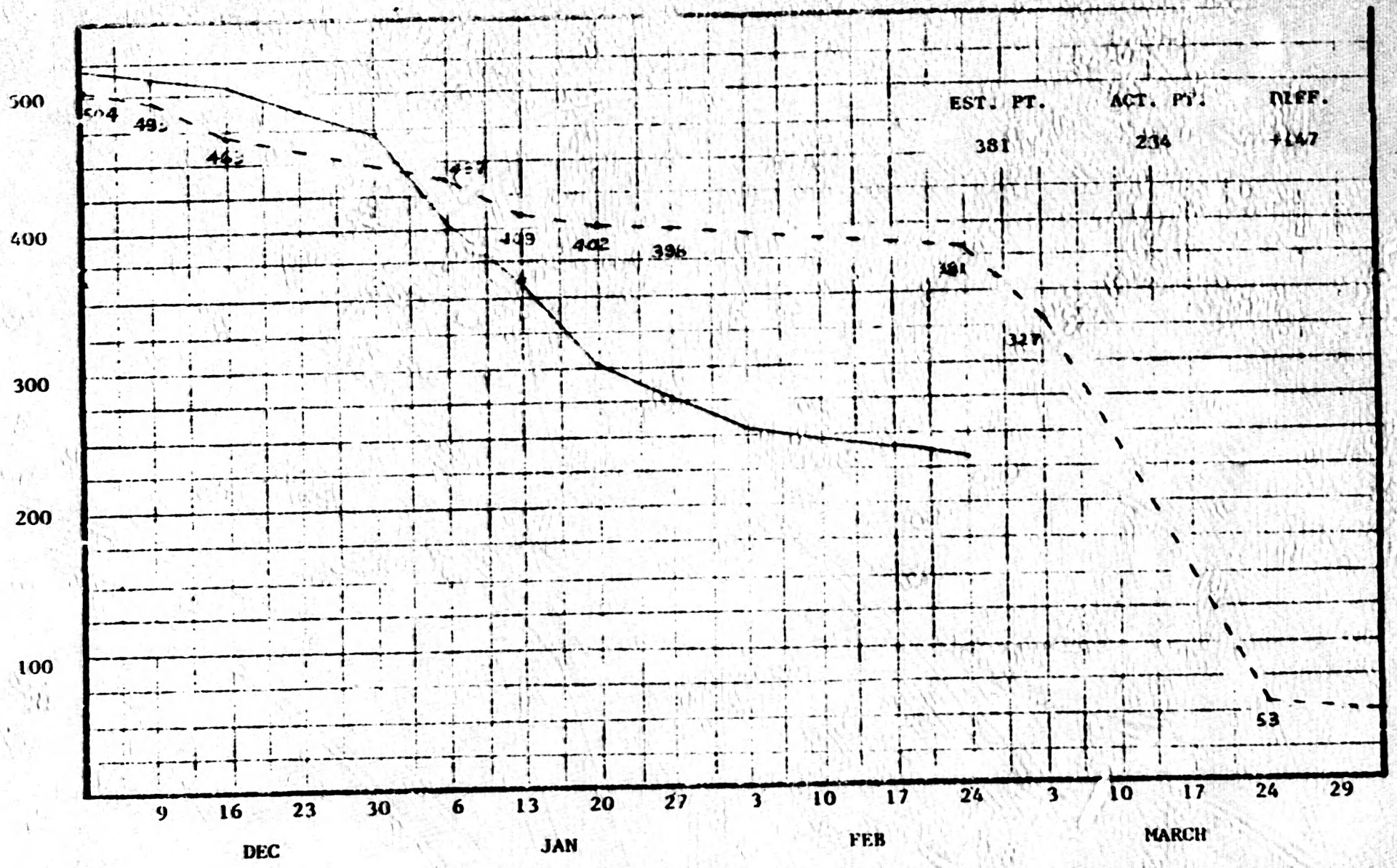
INSTRUMENTS REMAINING TO BE CALIBRATED (TEST 92)

P. 7

TASK: NA

UOM: NA

RESPONSIBLE PERSON(S): R. W. Forsten
G. L. Willia



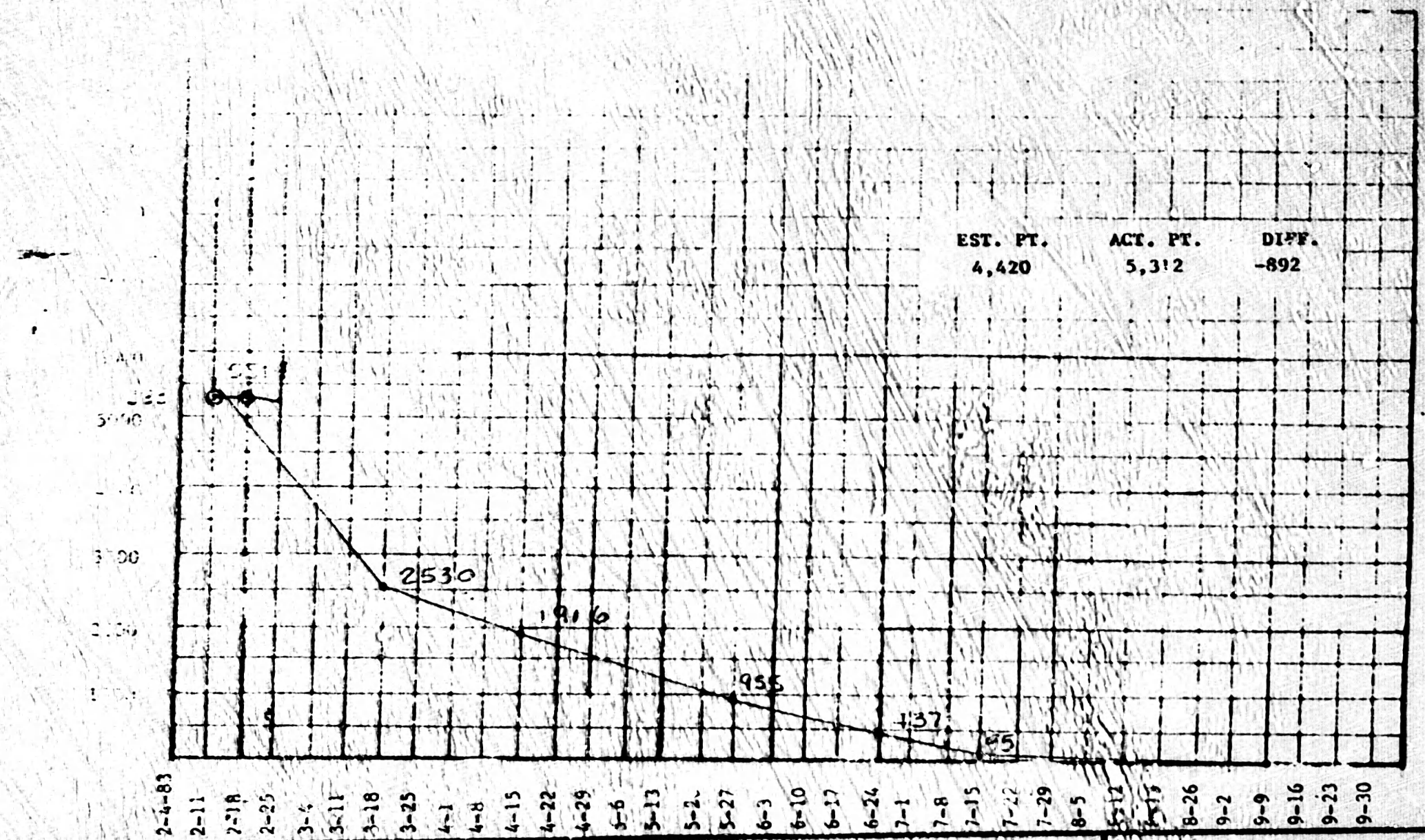
REMAINING EST. QTY.	=	234
REQUIRED PERIOD QTY.	=	5
ACTUAL PERIOD QTY.	=	8
PERCENT REQUIRED QTY.	=	160
8 WEEK AVERAGE	=	30

COMMENTS

Instrument Lines REMAINING TO B
PRESSURE TESTED
(HYDRO & PNEUMATIC TESTS)

TASK: NA DOM: NA

RESPONSIBLE PERSON(S): Vern Thomas
Aud Ray



REMAINING EST. QTY.	=	5,312
REQUIRED PERIOD QTY.	=	597
ACTUAL PERIOD QTY.	=	79
PERCENT REQUIRED QTY.	=	132
8 WEEK AVERAGE	=	51

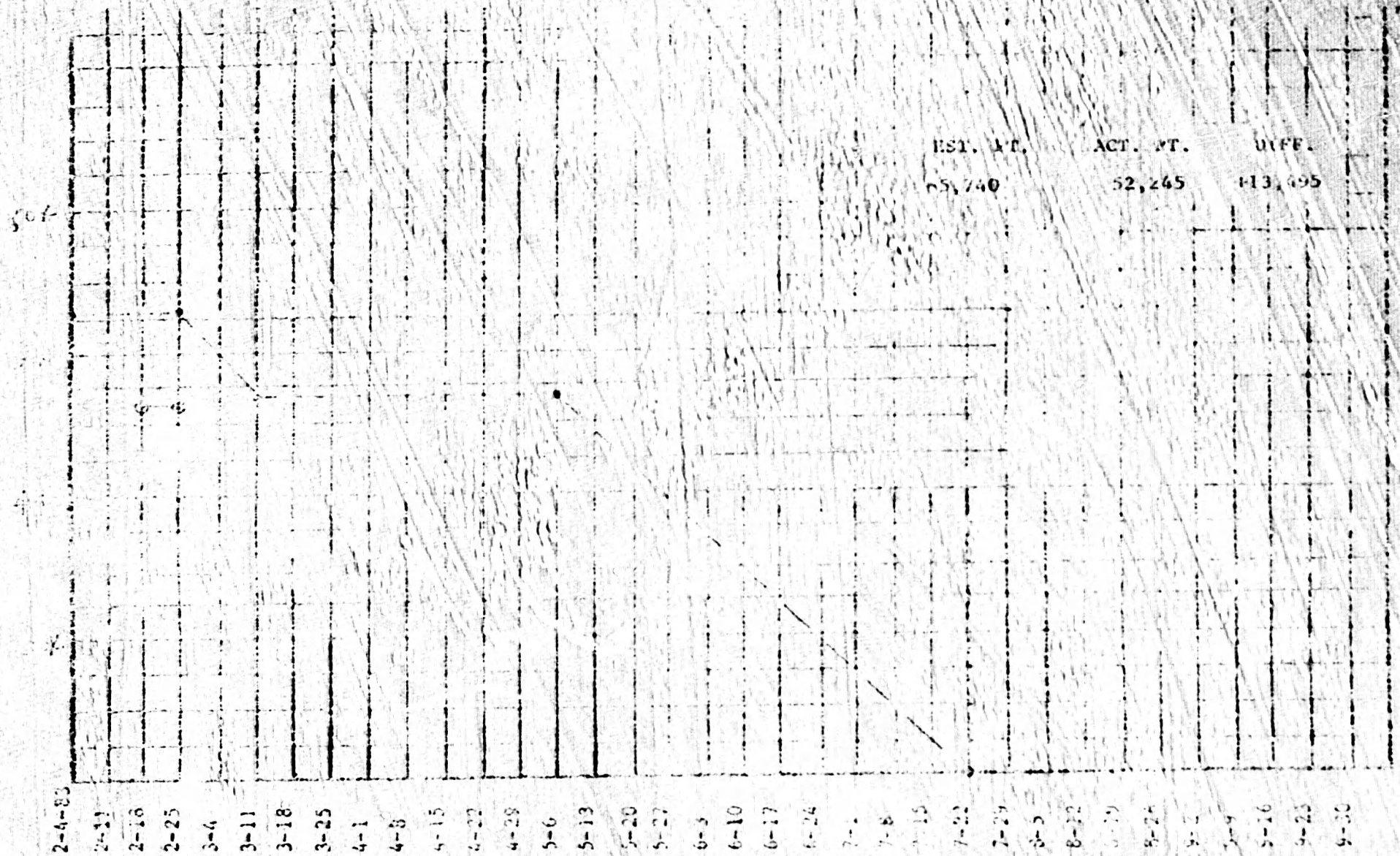
COMMENTS

PIPE 2" AND LESS
TO BE FINALIZED

MEU

TASK: 2U UOM: LF

RESPONSIBLE PERSON(S): Lenny Johnson
Richard Boggess



REMAINING EST. QTY. = 52,245

REQUIRED PERIOD QTY. = 2,504

ACTUAL PERIOD QTY. = 0

PERCENT REQUIRED QTY. = 0

8 WEEK AVERAGE = 150

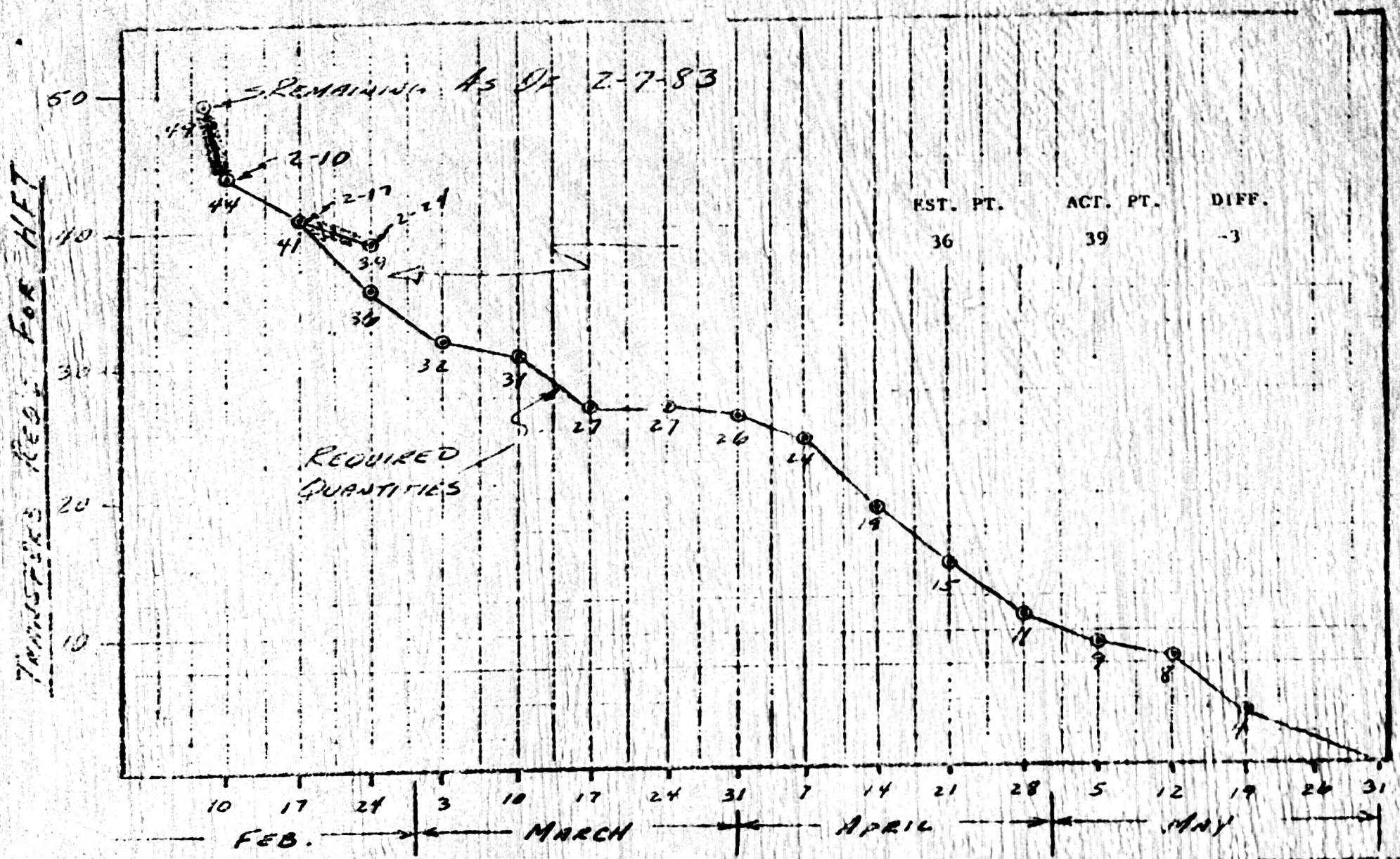
COMMENTS

HVAC DUCT (LBS)

MEU

TASK: [illegible] UOM: LB

RESPONSIBLE PERSON(S): Lenny Johnson, Harold Wofford



REMAINING EST. QTY.	=	39
REQUIRED PERIOD QTY.	=	5
ACTUAL PERIOD QTY.	=	3
PERCENT REQUIRED QTY.	=	60
8 WEEK AVERAGE	=	3

COMMENTS

DATES PLOTTED ARE TRANSFER DATES

REMAINING TRANSFERS

REQUIRED FOR HFT

TASK: NA UOM: NA

ASSIGNED: Don Clark Prod

ELECTRICAL CABLE AND CONDUIT

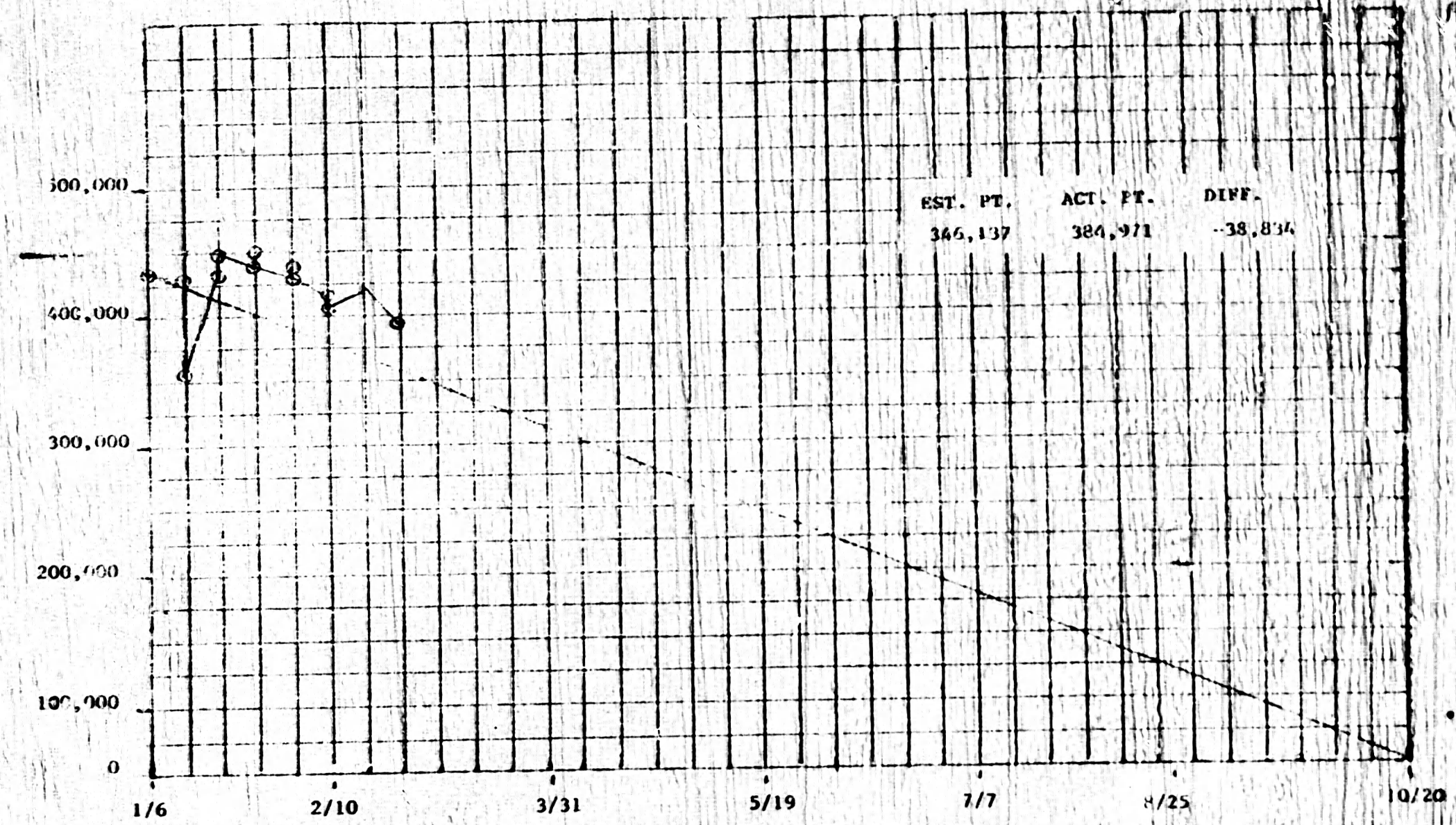
REMAINING QUANTITIES

For period 02/18/83 - 02/24/83

	BEGINNING OF PERIOD QUANTITY	TOTAL CHANGES THIS PERIOD	TOTAL COMPLETED THIS PERIOD	TOTAL REMAINING	RESPONSIBILITY ENGR	RESPONSIBILITY CRAFT
CONDUIT	29,581	0	1,831	27,750	954	26,796
CABLE	382,910	+ 4,061	2,000	384,971	231,950	153,021

Responsible person: Paul Shepherd, EEUc

L33060.K1
L33001.K4



REMAINING EST. QTY.	=	384,971
REQUIRED PERIOD QTY.	=	12,310
ACTUAL PERIOD QTY.	=	2000
PERCENT REQUIRED QTY.	=	16
8 WEEK AVERAGE	=	16,386

COMMENTS

CABLE IDENTIFIED BUT NOT DOCUMENTED AS INSTALLED

TASK: CC UOM: LF

RESPONSIBLE PERSON(S): P. Shepherd - J. Hi A. Ray

DATE Mar. 1, 1983

MOST CRITICAL PREOP DEFICIENCIES
ACTION ITEM LIST

DESCRIPTION	FLOAT	RESP	TEST NO.	REMARKS/STATUS	NEED DATE	PROMISE DATE
PT-80 - Primary makeup Pump 1B doesn't meet flow criteria	-0.6	CONST	TVA-46	PT issued 10/15/81 MR #297	01/14/83	
PT-92 - 0-FSV-43-139A and 139B have to low of max. DP Range.	3.8	CONST	MCS-20	EN DES recommends we modify or replace valves. EN DES should issue ECN 3630 issued.	01/15/83	
PT-98R1 - Curtain type fire dampers won't close against air flow.	-4.6	EN DES	TVA-24	Req 831933 to purchase closure springs. Delivery complete date 3/6/83.	01/03/83	
PT-100 - 0-FS-31-84 will not open within 10 sec. This causes an AHU trip.	0.4	EN DES	TVA-10	PT issued 10/09/82.	12/22/82	3/15/82
PT-105 - Wiring error causing continuous CRI signal.	0.4	EN DES	TVA-10	PT issued 12/01/82.	12/22/82	2/1/83
PT-106 - Wiring error. Temperature sw. TS-31-157A & B reversed.	0.4	EN DES	TVA-10	PT issued 12/01/82.	12/22/82	2/1/83
PT-112 - Diff press XMTR's don't operate correctly	0.4	EN DES	TVA-10	PT issued 1/12/83	01/19/83	
PT-113 - MCR cannot maintain positive pressure in all areas on ele 755'.	0.4	EN DES	TVA-10	PT issued 1/13/83.	01/13/83	
PT-114 - LCCSF Unit B-B, flow switches not operating.		EN DES	TVA-5	PT issued 2/2/83 .		
PT-118 - CB Batt Rm Exh Fan operates incorrectly.	0.4	EN DES	TVA-10	PT issued 2/8/83	02/08/83	
PT-119 - Dampers operate incorrectly.		EN DES	TVA-7	PT issued 2/15/83.		

P21

3/21/8[illegible]

DOCUMENTATION QUANTITY STATUS - UNIT [illegible] 1

FEATURE	TOTAL DOCUMENTS	TOTAL DOCUMENTS OPEN BACKLOG	REMAINING ESTIMATED QUANTITY	EIGHT WEEK AVERAGE	REQUIRED PERIOD QUANTITY *	ACTUAL PERIOD QUANTITY	PERCENT REDUCTION QUANTITY
CABLE	27,916	23[illegible]	3,597	600.00	187	64	34.22
CONDUIT	23,654	18[illegible]	5,074	21.00	267	23	8.61
CABLE TRAY	15,508	2[illegible]	1,691	21.00	37	21-	23.59-
EQUIPMENT	23,722	12[illegible]	6,001	30.00	315	23	8.95
INSTRUMENTATION	17,360	174	4,960	127.00	755	39	34.58
MECH CONT	1[illegible]		677	6.00	35	34	97.14
MECH CALIBRATION	5,451	4[illegible]	2,957	123.00	153	29	18.13
HANGER	147,375		20,027	5668.00	1[illegible]	[illegible]	63.87
INSTRUMENT ASSEMBLY	13,775	1,975	10,596	113.00	537	72	13.73
MECH FITTING	16,186	7	1,595	28.00	83	55	54.22
MECH VALVES	4,952		474	23.00	24	5	20.83
CIVIL STRUCT	2,934	164	1,623	28.00	82	6	7.06
CIVIL CONCRETE	24,[illegible]	1,3[illegible]	9,278		[illegible]		
CIVIL EARTH FILL	5,2[illegible]	1,20[illegible]	1,424		74		
WELD	4[illegible]	[illegible]	19,746	705.00	1[illegible]41	7[illegible]	[illegible]
FINAL TOTAL	37[illegible],494	1[illegible],637	95,678	6075.00	5[illegible]	2[illegible]	[illegible]

*BASED ON 19 WEEKS TO TESTING UNIT 1 ON AUGUST 1, 1983

	TOTAL M-Se	M-Se in BN DES	M-Se RECEIVED FROM BN DES	M-Se TRANSFERRED TO NUC PR
M-S Group	207	7	3	3

BASE DATE	DOCUMENTATION IDENTIFIED FOR REVIEW	DOCUMENT REVIEWED FOUND ACCEPTABLE	DOCUMENTATION REVIEWED FOUND UNACCEPTABLE	DOCUMENTATION ON HOLD (Not reviewed plus rejected)	REVIEWED TO DATE
February 7, 1983	5937	1908	131	11,141	10,510

03/31/83

DOCUMENTATION QUANTITY STATUS - UNIT 2

FEATURE	TOTAL DOCUMENTS	TOTAL DOCUMENTS LOCKED BACKLOG	REMAINING ESTIMATED QUANTITY	EIGHT WEEK AVERAGE	REQUIRED PERIOD QUANTITY *	ACTUAL PERIOD QUANTITY	PERCENT REQUIRED QUANTITY
CABLE	14,539	44	5,747	303.00		12	
CONDUIT	9,561	67	4,797	2.00		3	
EQUIPMENT	8,600	41	4,789	12.00		30	
INSTRUMENTATION	14,350	172	7,127	17.00		13	
MECH DUCT	349		119				
MECH EQUIPMENT	1,162		371	3.00		6	
HANGER	43,951		31,915	474.00		312	
FIRED SUBASSEMBLY	4,991	445	4,945	20.00		7	
MECH PIPING	2,454		1,774	8.00		6	
MECH VALVES	3,193		2,136	10.00		1	
MECH	25,126		19,129	37.00		73	
FINAL TOTAL	130,824	771	82,433	284.00		497	

RESPONSIBLE PERSONS: D. W. Kelley, QC&RU

J. W. Self, N-5 GROUP

SALLY-2

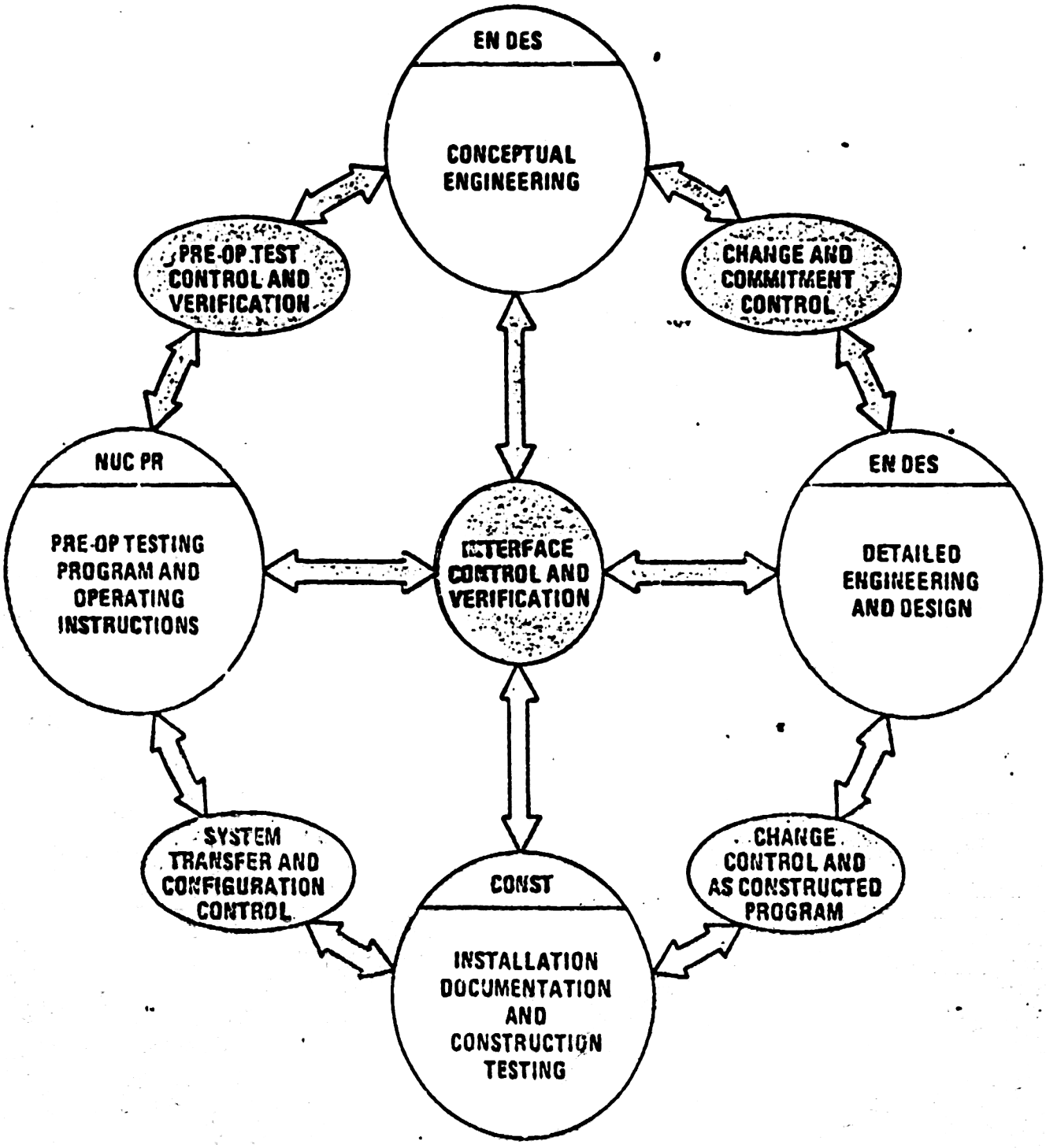
SITE AUDIT FINDINGS

SITE AUDIT FINDINGS (by site QA Unit):	Week of 01/29-02/04			Week of 02/04-02/10			Week of 02/11-02/17			Week of 02/18-02/24		
	Added	Closed	Remain	Added	Closed	Remain	Added	Closed	Remain	Added	Closed	Remain
AOM				1	0	1	0	0	1	0	0	1
QMO	1	0	1	0	0	1	0	0	1	0	0	1
Hangers QC	0	0	1	0	1	0	0	0	0	0	0	0
Instrumentation QC	1	0	4	0	0	4	0	0	4	0	0	4
Civil Inspect	0	1	3	0	1	2	4	0	6	0	0	6
Welding Inspection	0	0	0	0	0	0	0	0	0	0	0	0
Procedures & Training	0	0	7	0	1	6	2	0	8	0	2	6
Civil	0	0	0	0	0	0	0	0	0	0	0	2
Mechanical A	0	2	4	0	0	4	0	0	4	0	0	4
Mechanical B	0	1	4	0	1	3	0	0	3	0	0	3
Electrical	0	0	6	0	0	6	0	0	6	0	0	6
Instrumentation	0	0	9	0	1	8	0	0	8	0	0	8
Welding	0	0	0	0	0	0	0	0	0	0	0	0
Hanger	0	0	1	0	0	1	0	1	0	0	0	0
ST&C	0	0	0	0	0	0	0	0	0	0	0	0
CSO	0	2	24	0	1	23	0	0	23	0	0	23
QC&R	0	0	3	0	0	3	0	0	3	0	0	3
Materials & Insp.	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	6	66	1	6	62	8	1	69	0	2	67

Responsible person: Shelton Johnson, QMO

ITEM XI

OEDC
DESIGN AND CONSTRUCTION PROGRAM



EN DES

CONCEPTUAL ENGINEERING

- DESIGN QA PROGRAM
- PLANT LAYOUTS
- DESIGN CRITERIA
- PROCESS DESCRIPTION
- CONTROL AND LOGIC DIAGRAMS
- CONSTRUCTION SPECIFICATIONS
- PROCUREMENT SPECIFICATIONS AND REQUISITIONING
- CONTRACT ADMINISTRATION
- REVIEW OF VENDOR DESIGNS (NSSS)
- SAFETY ANALYSIS AND REVIEW
- PREOPERATIONAL TEST PROGRAM (SCOPE AND APPROVAL)
- REVIEW OF OPERATING INSTRUCTIONS
- PSAR AND EVENTUALLY THE FSAR

EN DES

DETAILED ENGINEERING AND DESIGN

- DESIGN QA PROGRAM
- ENGINEERING PROCEDURES
- DESIGN STANDARDS AND GUIDES
- DETAILED LAYOUT DRAWINGS (STRUCTURES AND SITE)
- DETAILED STRUCTURAL, CONCRETE, MECHANICAL, ELECTRICAL, AND INSTRUMENT DRAWINGS
- BILLS OF MATERIAL AND PURCHASE REQUESTS
- DESIGN CALCULATIONS
- ENGINEERING CHANGE NOTICES (ECN'S)
- STARTUP COORDINATION TEAM (EN DES/CONST/NUC PR)
- PRINCIPAL INTERFACE WITH CONSTRUCTION

CONSTRUCTION

- CONSTRUCTION QA PROGRAM
- CONSTRUCTION PROCEDURES (QCI'S, QCP'S, AND QCT'S)
- CONSTRUCTION REQUIREMENTS MANUAL
- CONSTRUCTION TRAINING PROGRAM (QUALITY AND TECHNICAL)
- COMPONENT AND MATERIAL CONTROL (ACCOUNTABILITY PROGRAM)
- DOCUMENTATION AND RECORDS CONTROL (ACCOUNTABILITY PROGRAM)
- BUILDS STRUCTURES AND YARD FACILITIES
- INSTALLS SYSTEMS AND COMPONENTS
- QC INSPECTIONS
- PERFORMS CONSTRUCTION TESTS
- "AS CONSTRUCTED" PROGRAM (DRAWING INFORMATION SYSTEM - DIS)
- TRANSFERS SYSTEM AND STRUCTURES TO NUC PR
- PRINCIPAL INTERFACE WITH DESIGN PROJECT

NUC PR

- NUC PR QA PROGRAM
- AIDS IN PERFORMING CONSTRUCTION TESTS
- SCHEDULES PREOP TESTS WITH CONST
- PREPARES DETAILED PREOP TEST INSTRUCTIONS
- CONDUCTS PREOP TESTS
- IDENTIFIES PREOP TEST RESTRAINTS OR DEFICIENCIES
- TRANSMITS TEST RESULTS TO EN DES FOR APPROVAL
- PERFORMS RETESTS AS REQUIRED
- INITIATES DESIGN CHANGE REQUESTS (DCR'S)
- WORKPLAN CONTROL ON TRANSFERRED SYSTEMS

INTERFACE CONTROL AND VERIFICATION

- CONDITIONS ADVERSE TO QUALITY
- 50.55(E) ITEMS IDENTIFIED BY TVA
  IN ANY ONE OF THE THREE ORGANIZATIONS
- NRC-OIE FINDINGS
- COMMITMENT TRACKING REPORT
- STANDARD INSPECTION SYSTEM (ASME SECTION III)
- NUCLEAR SAFETY REVIEW STAFF FINDINGS
- TVA AUDIT FINDINGS

ITEM XII

STEAM GENERATOR MODIFICATIONS

ACTIVITY	UNIT 1	UNIT 2
DRAIN OF STEAM GENERATOR (START).	8/09/83 -	6/14/83
REMOVE PIPE RUPTURE RESTRAINTS.	8/09/83 -	6/14/83
CUT PIPE AND REMOVE DUCT (COMPLETE).	9/06/83 -	7/12/83
START WESTINGHOUSE MODIFICATION.	9/06/83 -	7/12/83
COMPLETE WESTINGHOUSE MODIFICATION.	10/04/83 -	8/09/83
START RESTORATION OF FEEDWATER PIPE.	9/22/83 -	7/28/83
COMPLETE X-RAY HEAT TREATMENT, ETC.	11/17/83 -	9/21/83
START RESTORATION OF PIPE RUPTURE RESTRAINTS, AND DUCT	10/28/83 -	9/07/83
COMPLETE RESTORATION (ALL ACTIVITIES)	1/04/84	11/04/83

. NRC ITEMS (UNIT 1 AND OTHER)

Item	Total Items Open	Awaiting Final Reports	Final Reports Issued	Awaiting Action By: EN PRS	CONST	NRC PR	NRC
Violations	34	0	34	10	12	3	9
Unresolved	36	N/A	N/A	14	10	3	9
Followup*	36	N/A	N/A	11	8	13	4
50.55(e) Items	181	108	73	22	29	6	16

*Includes Open Items.

II. SITE AUDIT FINDINGS

	Number Open	Awaiting C/A	C/A In Progress	Responses Outstanding	Number Opened This Period	Number Closed This Period
ACE-CC	18	6	7	5	3	1
ACE-SC	8	1	3	4	4	
ACE-EA	8	5	2	1		
ACE-TD	3		1	2	2	
ACE-EE	16	4	8	4		1
ACE-HF						
ACE-LI	12	2	8	2	1	
ACE-PC						
QAC						
CHO						
TOTAL	65	18	29	18	10	2

Principally responsible: T. W. Hayes, NLU, ext. 485

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UNIT 1 PREOPERATIONAL AND NCS TESTS STATUS SUMMARY
DATA DATE: February 25, 1983

		Total	This Period	To Date	In Progress	Not Started
Tests Required for Hot Functional						
NCS Tests		50	0	36	7	7
TVA Tests		63	3	25	21	17
Westinghouse Tests		28	0	9	9	10
Total (Required Prior to HFT)		141	3	70	37	34
Additional Tests Required Prior to Fuel Load						
NCS Tests		12	0	1	0	11
TVA Tests		23	1	8	2	13
Westinghouse Tests		21	0	2	4	15
Subtotal	*	56	1	11	6	39
Total (Required Prior to FL)	*	197	4	81	43	73
Additional Tests Required After Fuel Load						
NCS Tests	*	1	0	0	1	0
TVA Tests	*	3	0	0	0	3
Westinghouse Tests	*	16	0	0	0	16
Total Preop Tests		217	4	81	44	92

NOTES: Tests started : NONE
Tests complete : TVA 7(1)

* These totals do not reflect certain tests that are required to start prior to milestone and will be completed prior to later milestone.

Responsible person: Ken Jones, Preop

L33001.K1

CRITICAL PATHS

Negative Preop tests unrestrained by system transfers or other incomplete Preop tests.

TEST DESCRIPTION	STATUS	FLOAT TO HOT FUNCTIONAL
TVA 24(2)	Not started	-10.0
W 2.1(1)	Not started	-5.4
W 10.7B(2)	Not started	-5.4
TVA 24(1)	In progress	-4.6
W 10.2(1)	Not started	-3.6
TVA 46	In progress	-0.6
W 10.3	In progress	-0.6
W 9.10(2)	In progress	-0.6

B. System transfer boundaries expected to be signed by Preop within the next two months, listed by preferred transfer start date.

Transfer Description	Preferred Transfer Date
X090(02)	21FEB83
* X043(03)	28FEB83
X078(01)	28FEB83
X090(03)	07MAR83
X031(01)	14MAR83
X055(01)	14MAR83
X067(03)	14MAR83
X068(04)	14MAR83
X084(01)	14MAR83
X032(05)	15MAR83
X234(01)	29MAR83
X030(13)	01APR83
XPAL(01)	04APR83
X014(01)	08APR83
X063(11)	08APR83
X200(01)	11APR83
X030/31(01)	12APR83
X032(09)	15APR83
X041(03)	15APR83
X092(01)	15APR83
XPD0(01)	15APR83

* Denotes that transfer has been sent to Preop.

Responsible person: D. C. Knight, PCU

L33001.R5

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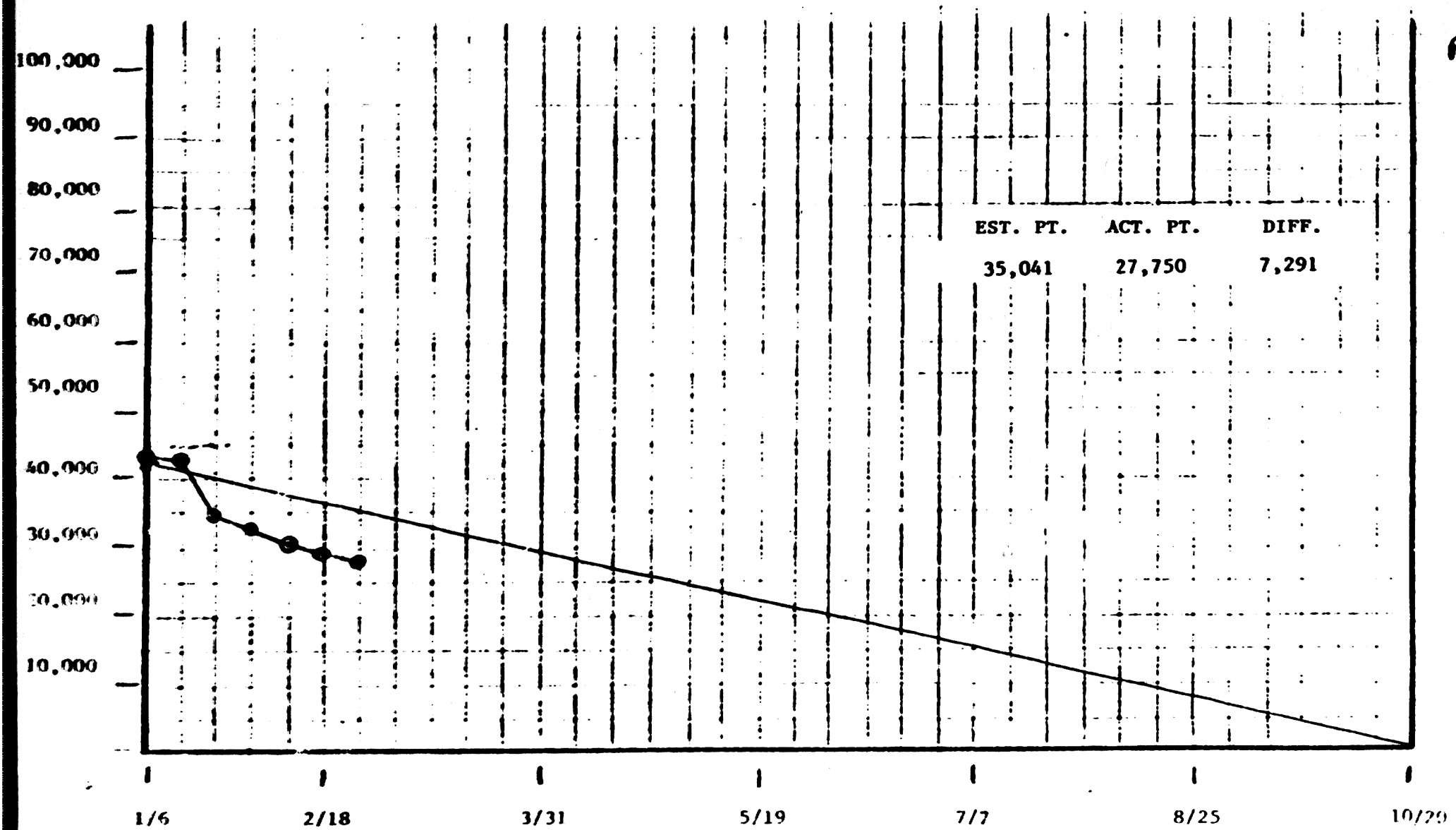


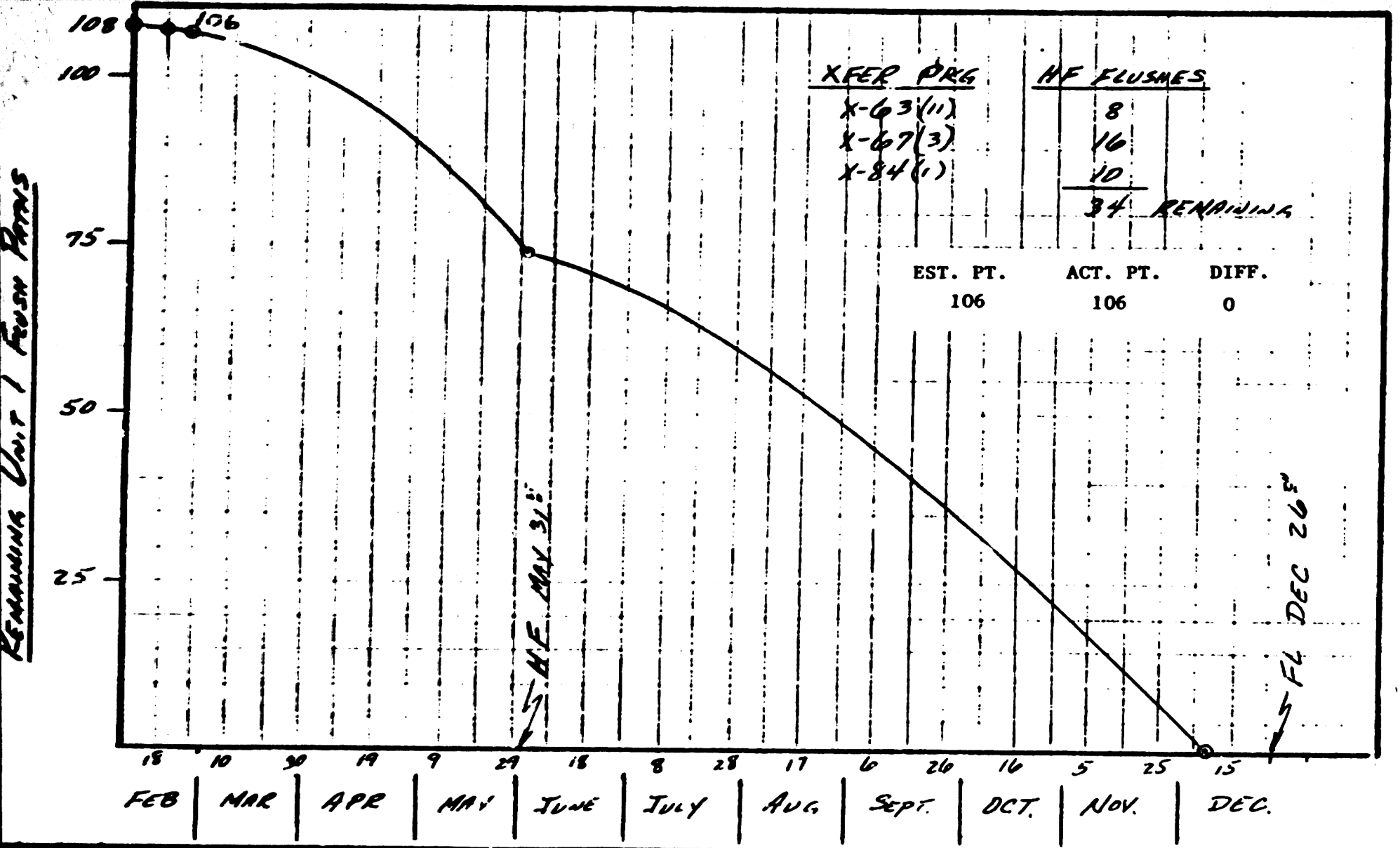
REMAINING EST. QTY.	=	27,750
REQUIRED PERIOD QTY.	=	42,064
ACTUAL PERIOD QTY.	=	1831
PERCENT REQUIRED QTY.	=	4
8 WEEK AVERAGE	=	2225

COMMENTS

CONDUIT IDENTIFIED TO BE INSTALLED FOR UNIT 1 FUEL LOAD

TASK: EC1, EC2, UC UOM: LF, LF, LF

RESPONSIBLE PERSON(S): P. Shepher - J. Hill A. Ray



REMAINING EST. QTY.	=	106
REQUIRED PERIOD QTY.	=	3
ACTUAL PERIOD QTY.	=	2
PERCENT REQUIRED QTY.	=	66
8 WEEK AVERAGE	=	1

COMMENTS

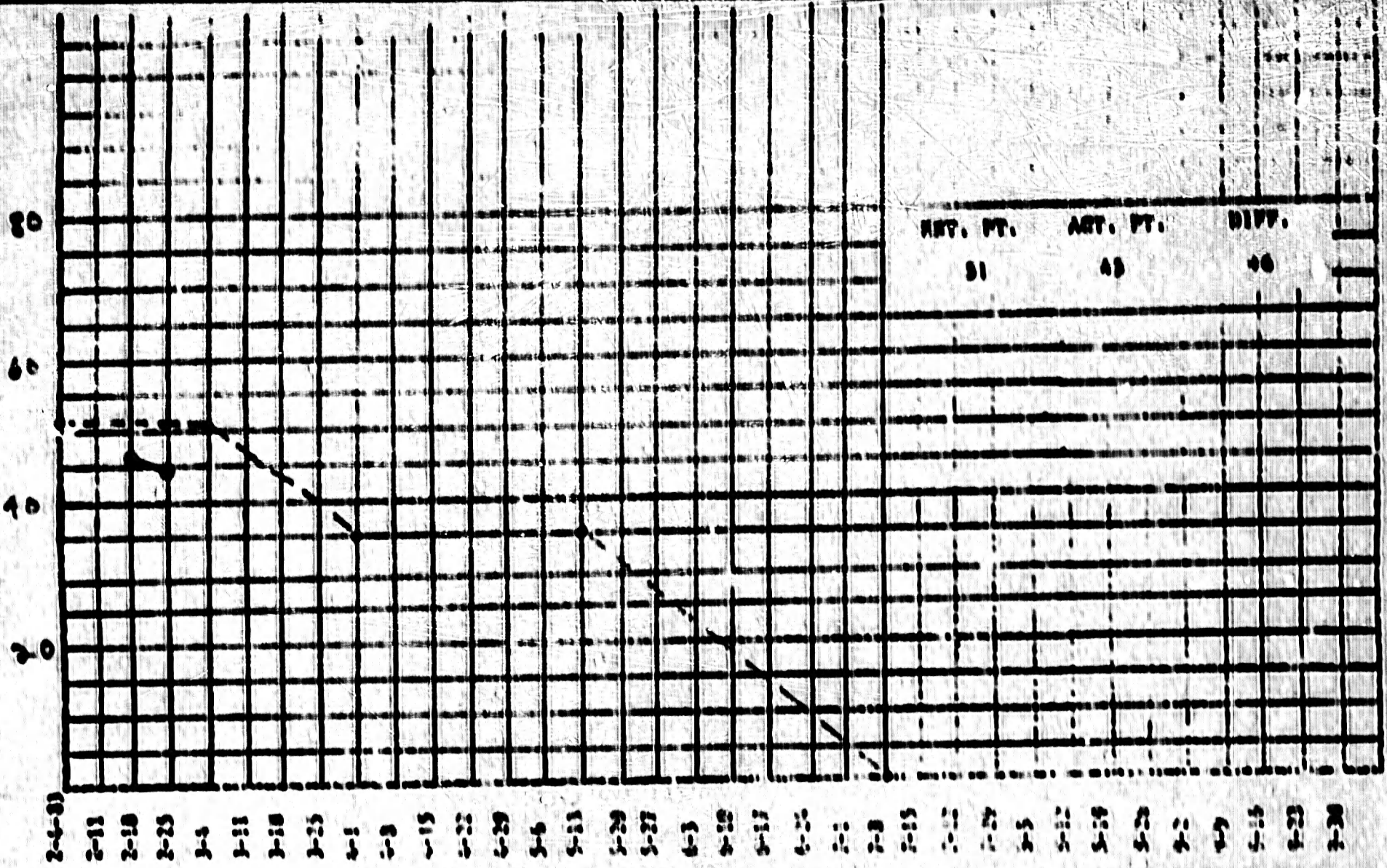
QA FLUSHES

REMAINING FLUSH PATHS

UNIT ONE

TASK: NA UOM: NA

RESPONSIBLE PERSON(S): SAM BEAVERS Richard Boggs



EST. FT.	ACT. FT.	DIFF.
51	45	46

REMAINING EST. QTY. = 45

REQUIRED PUMPING QTY. = 2

ACTUAL PUMPING QTY. = 1

PUMPING REQUIRED QTY. = 50

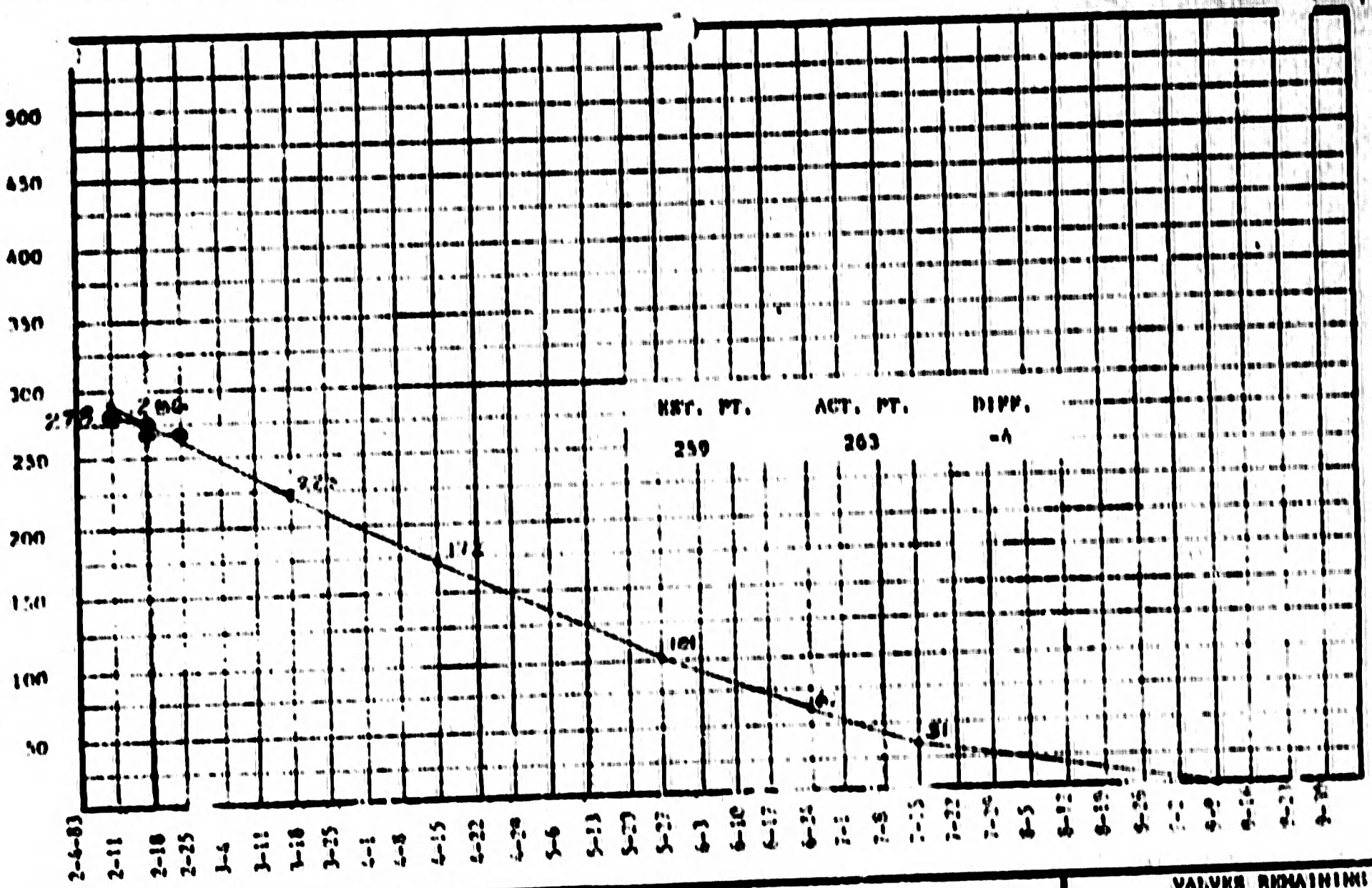
TRUCK AVAIL. = 4

COMMENTS

HVAC MANAGER
YES

TANK: NA INHI: NA

RESPONSIBLE: Lenny Johnson
DRIVER(S): Harold Wofford



REMAINING EST. QTY.	=	263
REQUIRED PERIOD QTY.	=	10
ACTUAL PERIOD QTY.	=	5
PERCENT REQUIRED QTY.	=	50
8 WEEK AVERAGE	=	5

COMMENTS

VALVES REMAINING TO BE FINALIZED
NKU

TANK: VA UNIT: 1.P

ENGINEER: Lenny Johnson
PERSON(S): Richard [illegible]

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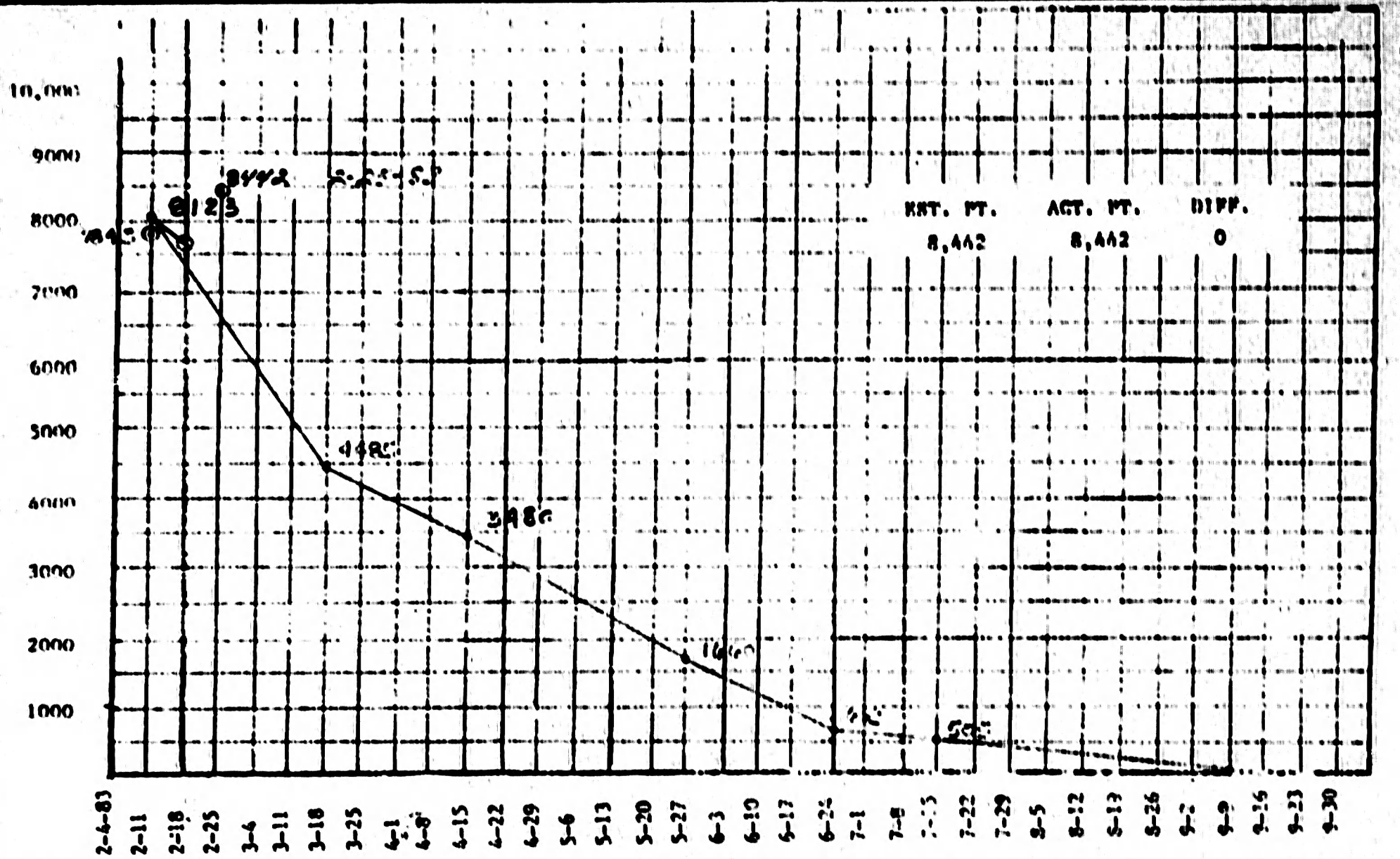

REMAINING EST. QTY.	=	8,442
REQUIRED PERIOD QTY.	=	939
ACTUAL PERIOD QTY.	=	295
PERCENT REQUIRED QTY.	=	298
8 WEEK AVERAGE	=	108

COMMENTS

PIPE 2" AND ABOVE TO BE FINALIZED

MKU

TANK: FP UNIT: LP

RESPONSIBLE PERSON(S): Lonny Johnson, Richard [illegible]

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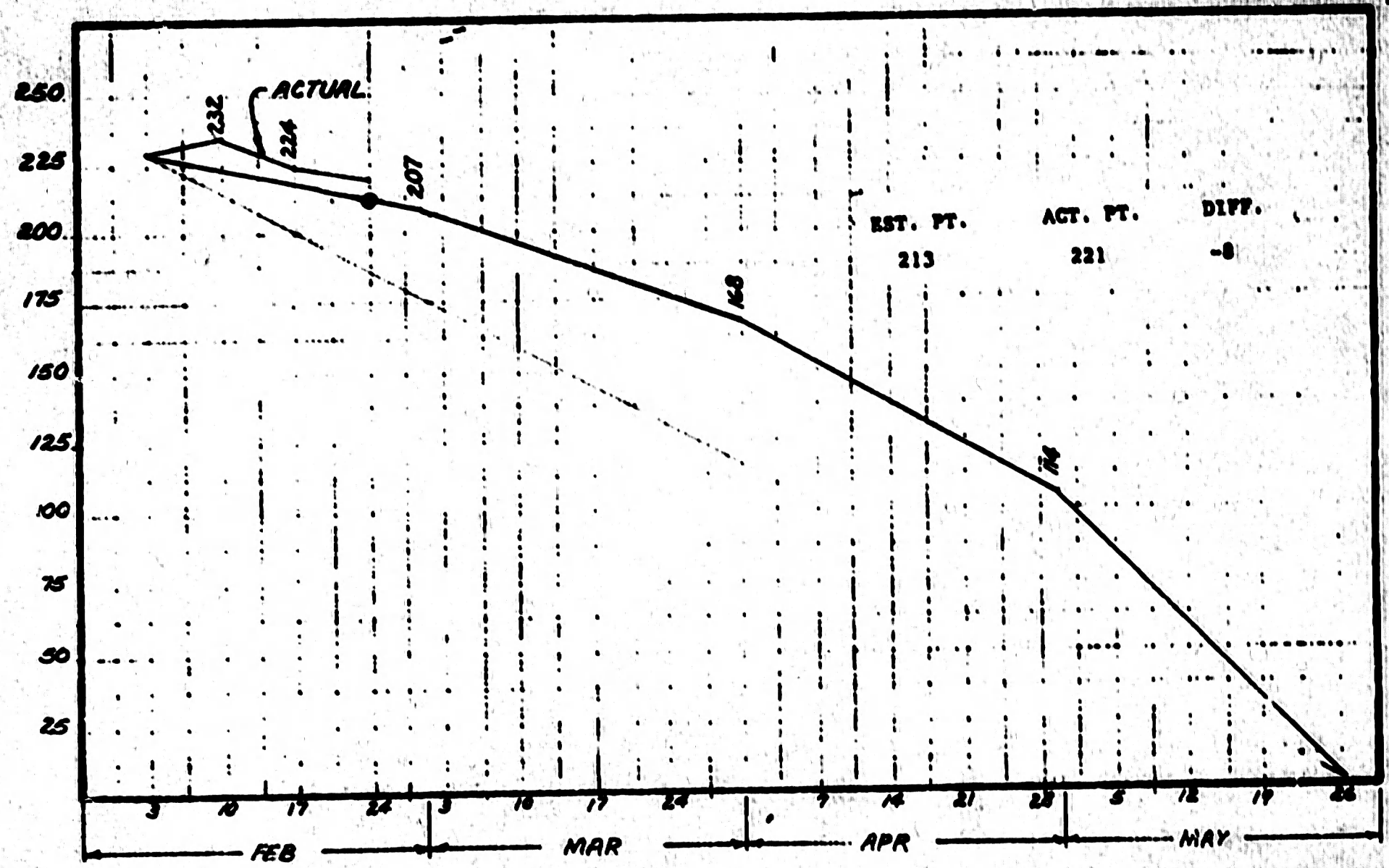


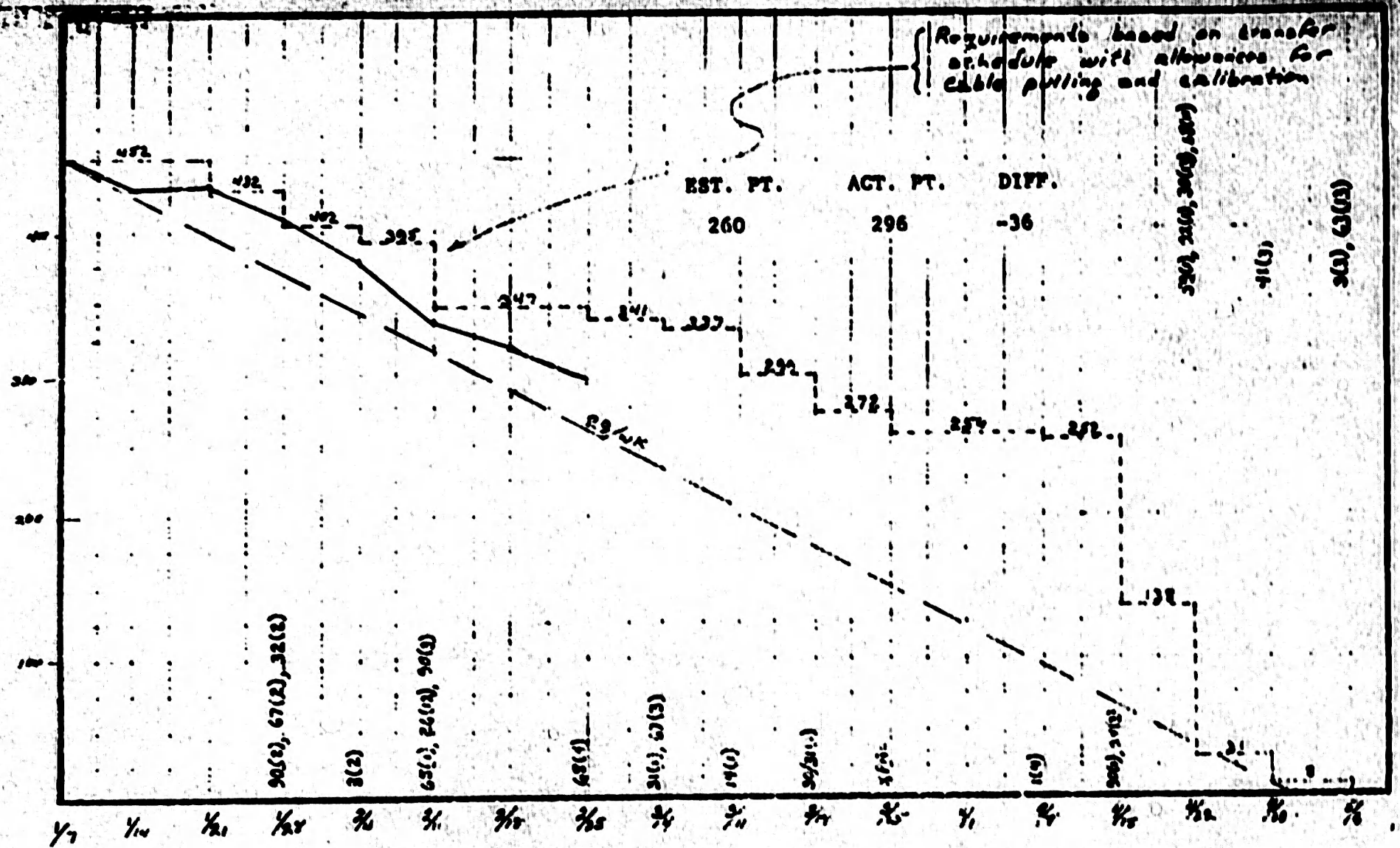
REMAINING EST. QTY.	=	221
REQUIRED PERIOD QTY.	=	4
ACTUAL PERIOD QTY.	=	3
PERCENT REQUIRED QTY.	=	75
[illegible]	=	10

COMMENTS

INSTRUMENT LOOPS REMAINING TO BE CALIBRATED (TEST 93)

TASK: NA UOM: NA P.8

RESPONSIBLE PERSON(S): R. W. Forest, G. L. Williams



REMAINING EST. QTY.	=	296
REQUIRED PERIOD QTY.	=	29
ACTUAL PERIOD QTY.	=	20
PERCENT REQUIRED QTY.	=	69
4 WEEK AVERAGE	=	20

COMMENTS

Not included acc. 5th Diesel - 139, Post Accident Sampling - 88, Stream Generator Blowdown (ECN 3371)

INSTRUMENTS REMAINING TO BE DOCUMENTED AS INSTALLED (TEST 25)

DATE: 5/28/84

REPORT BY: John Thomas

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DATE	HANGERS IN COMPUTER	PROBLEM HANGERS					
		BACK LOG		IDENTIFIED THIS WEEK (2)		RESOLVED THIS WEEK (3)	
		HEU (1)	EN DES	CONST	EN DES	CONST	EN DES
12/20/82		79	264	282	58	274	101
12/27/82		74	302	200	103	205	65
1/03/83		66	361	179	104	187	45
1/10/83		78	350	312	63	300	74
1/17/83		68	368	253	94	263	76
1/24/83		75	420	256	116	249	64
1/31/83		69	476	169	108	163	72
* 2/07/83		60	629	185	220	194	103
2/14/83		56	864	156	334	160	99
2/21/83		50	813	175	72	181	123
2/28/83		44	817	167	100	173	66

(1) Problems in this column include problems to be resolved by CONST and problems which will be forwarded to EN DES after evaluation.

(2) Problems found in the field and/or reported to HEU.

(3) Previous problem hangers which can now be installed or finalized.

* System 26 data added

P.4

BASE ESTIMATE CHANGE AUTHORIZATION

BECA NO.	TOTAL MAN-HOURS	ECN	GENERAL RESERVE	DESIGNATED MAN-HOURS NOT IN PACKAGE	DESCRIPTION
2760	+9,323		-9,323		APR update: Hanger sys 68, 63 - Mechanical sys 26, 30, 01 - OWIL sys 26, 31, 74 - Instrumentation sys 43 - Electrical sys 26
2761	+7,622		-7,622		Sys update: Mechanical sys 14, 40, 74 - Electrical sys 14, 40, 59, 61, 257
2762	±0		±0		Unit 2 update: Hanger sys 68
2763	+16,841		-16,841		Sys update: Hanger sys 63 - Start-up sys 84 - Civil sys 392, 77 - Mechanical sys 68, 87, 62 - Electrical sys 62 - Instrumentation sys 43 - OWIL sys 62, 4[illegible]
2764	+350	+6,688	-461	-6,577	Addition of M&N activities for new ECNs 3538, 3635, 3599, 3726, 3458, 3601, 3595, 3598, 3593 - ECN 3573, 3699, 3334, 3234, 3149, 3068, 3597
2765	+6,016	-2,570	-3,446		Sys update: Mechanical sys 03, 31, 65 - Electrical sys 31, 229, 252 - Instrumentation sys 31 - ECNs 3583, 239[illegible]
2766	-2,282	-4,860	+7,142		Sys update: Mechanical sys 67, 02, 06, 35, 36, 29 - Electrical sys 299, 67, 211, 290, 292, 288, 200 - Hanger sys 67
2767	+13,080	-13,780	+700		Sys update: Civil sys 192, 193, 199, 393 - ECNs 2343, 2982 - Punchlist sys 14 - Hanger sys 59
TOTAL	+50,950	-14,522	-29,851	-6,577	

Rework/Component = +17,965
Standard sk = +32,985
Total = +50,950

[illegible] 2/24/83

[illegible]	HELD				UNUSABLE	TOTAL ADDED THIS PERIOD	[illegible]	TOTAL REMAINING
	ON DES	ENGR'G	MATL	SCH				
1	161	0	0	0	56	(-) 1	5	217
3	26	0	0	0	31	10	14	57
12	0	38	6	1	4	0	0	51
18	0	0	0	0	0	0	0	0
25	3	0	0	0	0	0	0	3
26	1	21	0	0	50	5	0	81
29	0	20	0	0	0	0	0	20
30	0	0	0	0	0	0	0	0
31	0	83	0	0	45	14	1	128
33	1	16	0	2	24	(-) 1	6	48
36	0	0	0	0	3	0	0	3
38	0	0	0	0	2	0	0	2
[illegible]	0	1	0	1	20	0	0	22
41	0	0	0	0	0	0	0	0
44	0	0	0	0	4	0	0	4
59	0	57	0	0	2	1	2	61
61	0	52	0	0	0	0	0	52
62	0	159	0	0	23	2	0	182
63	5	11	0	22	72	0	3	112
65	0	0	0	0	0	0	0	0
67	45	267	3	132	422	22	70	850
68	44	22	0	0	20	17	2	107
70	0	42	1	0	27	1	5	70
72	2	0	1	11	19	1	5	22
74	0	0	0	1	17	0	0	18
77	0	382	0	4	15	0	1	401
78	1	2	0	0	3	0	0	6
81	0	0	0	0	13	0	0	13
82	34	0	0	2	1	1	0	37
84	0	0	0	0	128	20	2	158
87	0	6	0	0	3	0	12	9
14	0	0	0	0	19	0	23	19
24	0	0	0	76	43	55	0	119
43	3	0	0	0	3	0	0	6
NCR	00	0	0	0	0	0	0	00
TOTAL	1253	1187	12	221	1177	1160	161	[illegible]

ON DES: INSTALLATION HELD PENDING ACTION BY DESIGN.
ENGR'G: INSTALLATION HELD PENDING ACTION BY CDD.
MATL: INSTALLATION HELD DUE TO LACK OF MATERIAL.
SCH: INSTALLATION HELD FOR COMPLETION OF OTHER ITEMS.
UNUSABLE: RANGER AVAILABLE FOR FUTURE WORK.
NCR: APPROXIMATELY 900 [illegible] TO BE / HELD PER [illegible] AND NOT SKP [illegible].

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TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT
SYSTEM NUMBERS

EN DES ASSIGNED NUMBER	SYSTEM
1	Main Steam
2	Condensate
3	Feedwater
4	Not Used
5	Extraction Steam
6	Heater Drains and Vents
7	Turbine Extraction Traps and Drains
8	Miscellaneous Turbine Connections
9	Miscellaneous Turbine Vents
10	Blowdown system
11	Not Used
12	Auxiliary Boiler
13	Fire Detection
14	Condensate Demineralizer
15	Steam Blowdown
16	Not Used
17	Not Used
18	Fuel Oil
19	Not Used
20	Central Lubricating Oil
21	Not Used
22	Not Used

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT
SYSTEM NUMBERS

EN DES ASSIGNED NUMBER	SYSTEM
23	Not Used
24	Raw Cooling Water
25	Raw Service Water
26	High-Pressure Fire Protection
27	Condenser Circulating Water
28	Water Treatment
29	Potable Water Distribution
30	Ventilating
31	Air Conditioning
32	Control Air
33	Service Air
34	Vacuum Priming
35	Generator Cooling
36	FW Secondary Treatment
37	Gland Seal Water
38	Insulating Oil
39	CO2 Storage, Fire Protection and Purging
40	Station Drainage
41	Layup Water Treatment
42	Chemical Cleaning
43	Sampling and Water Quality
44	Building Heating

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT
SYSTEM NUMBERS

EN DES ASSIGNED NUMBER	SYSTEM
67	Essential Raw Cooling Water
68	Reactor Coolant
69	Not Used
70	Component Cooling
71	Not Used
72	Containment Spray
73	Not Used
74	Residual Heat Removal
75	Not Used
76	Not Used
77	Waste Disposal
78	Spent Fuel Pit Cooling
79	Not Used
80	Primary Containment Cooling
81	Primary Makeup Water
82	Standby Diesel Generator
83	Hydrogen Recombination
84	Flood Mode Boration Makeup
85	Control Rod Drive
86	Diesel Starting Air
87	Upper Head Injection
88	Containment Isolation

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT
SYSTEM NUMBERS

EN DES ASSIGNED NUMBER	SYSTEM
226	Intake Pump Sta Pwr
227	Turb Bldg Ltg
228	Aux, Cont, Reactor Bldg. Ltg.
229	Serv Bldg Ltg
230	Off Bldg Ltg
231	480V Transformer Yard Pwr
232	Reactor Vent Pwr
233	Yard & Street Lighting
234	Heat Trace Equipment
235	120VAC Vital Pwr
236	125VDC Vital Pwr
237	120VAC Instrument Power
238	120VAC Preferred Pwr
239	250VDC Pwr Sys
240	48VDC Pwr
241	120VAC Computer Pwr
242	Radiation Monitor & Sampling Pwr, Process & Area Radiation Monitor Pwr
243	Not Used
244	24kV Pwr (Includes Main Transformer)
245	500kV Switchyard
246	Main Relay

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT
SYSTEM NUMBERS

EN DES ASSIGNED NUMBER	SYSTEM
247	24VDC Communications Pwr
248	Electrical Control & Recording Instrument
249	CDME System
250	Automatic, Manual, & Public Telephones
251	Sound-Powered Telephones
252	Code Call, Paging, Intercom, & Evacuation Alarm
253	VHF Radio & Microwave
254	Carrier Equipment
255	Supervisory Control
256	Shutdown Communications
257	Closed-Circuit Television & Security
258	Miscellaneous Audio
259	Communications Room Equipment
260	Data Logger, Data Acquisition
261	Process Computer
62	Not Used
263	Status Monitoring Computer
264	Not Used
265	Not Used
266	Not Used
267	Not Used
268	Technical Support Center

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT
SYSTEM NUMBERS

EN DES ASSIGNED NUMBER	SYSTEM
291	Turbine Building Conduit & Cable Tray
292	Auxiliary Building Conduit & Cable Tray
293	Reactor Building Conduit & Cable Tray
294	Office Building Conduit & Cable Tray
295	Service Building Conduit & Cable Tray
296	Diesel Generator Building Conduit & Cable Tray
297	Intake Pumping Station Conduit & Cable Tray
298	CCW Pumping Station Conduit & Cable Tray
299	Yard Conduit & Cable Tray

[illegible]

[illegible]

PERIOD ENDING 2/24/83

SYSTEM	HOLDS				WORKABLE	TOTAL ACTUAL THIS PERIOD	TOTAL COMP. THIS PERIOD	TOTAL BACKLOG
	EN DES	ENGR'G	MATL	SCH				
1	161	0	0	0	56	(-) 7	5	217
3	26	0	0	0	31	10	16	57
12	0	38	8	1	4	0	0	51
18	0	0	0	0	0	0	0	0
25	3	0	0	0	0	0	0	3
26	1	21	0	0	59	5	0	81
29	0	20	0	0	0	0	0	20
30	0	0	0	0	0	0	0	0
31	0	89	0	0	85	16	1	174
33	5	15	0	2	34	(-) 1	6	40
36	0	0	0	0	3	0	0	3
39	0	0	0	0	2	0	0	2
40	0	1	0	1	20	0	0	22
41	0	0	0	0	0	0	0	0
44	0	0	0	0	4	0	0	4
59	0	57	0	2	2	1	2	61
61	0	52	0	0	0	0	0	52
62	0	159	0	0	23	2	8	182
63	5	11	0	22	74	0	3	112
65	0	0	0	0	0	0	0	0
67	45	267	3	132	412	23	30	859
68	84	21	0	0	20	17	2	107
70	0	42	1	0	27	1	5	70
72	2	0	0	11	19	1	5	32
76	0	0	0	1	17	0	0	18
77	0	382	0	4	15	0	1	401
78	1	2	0	0	3	0	0	6
81	0	0	0	0	13	9	0	13
82	34	0	0	2	1	1	0	37
84	0	0	0	0	158	20	2	158
87	0	6	0	0	3	0	12	9
14	0	0	0	0	19	0	23	19
24	0	0	0	36	83	55	0	119
[illegible]	5	0	0	0	0	0	0	5
BCP	00	0	0	0	0	0	0	00
TOTAL	1353	1187	12	[illegible]	1177	160	161	3852

EN DES: INSTALLATION HELD PENDING ACTION BY DESIGN.
ENGR'G: INSTALLATION HELD PENDING ACTION BY ENG.
MATL: INSTALLATION HELD DUE TO LACK OF MATERIAL.
SCH: INSTALLATION HELD FOR COMPLETION OF OTHER ITEMS.
WORKABLE: HAS BEEN AVAILABLE [illegible] WEEKS.
BCP: APPROXIMATELY 900 [illegible] TO BE [illegible] WEEKS. [illegible] SUP [illegible].

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P.3