

[illegible]

B405250321 B40403
PDR FOIA
GANULINB4-167 PDR

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AB	AB		AA	AA	AA
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2/28/84

MASTER DEFICIENCY LIST (PROGRAM F7841011)

PAGE

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SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
OC99C SYSTEM	4 4		4 4
OR51C SYSTEM	1 1	2 2	3 3
UNIT	5	2	7
IR13 SYSTEM	121 121	8 8	129 129
IR21A IR21C IR21D SYSTEM	2 15 (7) 24	7 (7) 11	9 15 (14) 35
IR33 IR33A IR33B IR33C IR33D SYSTEM	11 3 14 7 35	1 8 2 7 25	12 11 5 21 60
IC11A IC11B IC11C SYSTEM	18 76 47 141	22 111 24 157	40 187 71 298
IC22 SYSTEM	1 1		1 1
IC34 SYSTEM	7 7	5 5	12 12
IC41 IC41A SYSTEM	35 8 43	19 19	54 27 62
IC51A IC51B IC51C IC51D SYSTEM	24 13 6 43	19 22 4 2 47	43 35 10 90
IC61 SYSTEM	9 (9)	12 (12)	21 (21)
IC71A IC71B SYSTEM	25 3 28	5 5	30 8 38
	16	19	35
			Total

70% DC 30% NR

100% CC

CC - Constr Completion
 DC - Design Changes
 NR - Non Conformance, Deficiency Reports
 SW - Software
 ME - Missing, Damaged, Broken Equipment

Systems to NTS
 Systems to PPD

ⓧ PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
IC85 SYSTEM	5 (6)	1 (1)	7 (7)	50% DC 50% CC
IC91 SYSTEM	15 (15)	80 (80)	95 (95)	50% DC 50% CC
IC94 SYSTEM	2 2		2 2	
IC95	7	1	8	
IC95A	5		5	
IC95R	1		1	
IC95C	2		2	
IC95D	1	1	2	
IC95K	1		1	
IC95L	1		1	
IC95Z	1		1	
IC95Z SYSTEM	10	2	12	
ID17				
ID17R	2	1	3	
ID17F	2		2	
ID17G	2		2	
ID17H	1		1	
ID17I	1		1	
ID17V	1		1	
ID17V SYSTEM	9	1	10	
ID23	1		1	
ID23 SYSTEM	1		1	
IE12	1		1	
IE12A	360	360	720	
IE12R	351	311	662	
IE12C	114	97	211	
IE12C SYSTEM	826	768	1,594	
IE15	4 (4)	6 (6)	10 (10)	50% DC 50% SW
IE15 SYSTEM				
IE21	197	193	390	
IE21 SYSTEM	197	193	390	
IE22A	112	260	372	
IE22R	14	1	15	
IE22R SYSTEM	126	201	327	
IE31	11	1	12	
IE31 SYSTEM	11	1	12	
	25	87	112	Total

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
IF51A	75	53	128	
IF51B	63	77	140	
IF51C	73	56	129	
SYSTEM	211	186	397	
IF61		1	1	
SYSTEM		1	1	
IF11	44	2	46	
SYSTEM	44	2	46	
IF14	1	1	2	
SYSTEM	1	1	2	
IF15	19		19	
SYSTEM	19		19	
IF16	6	7	13	
SYSTEM	6	7	13	
IF17	4	1	5	
SYSTEM	4	1	5	
IF42	7	3	10	
SYSTEM	7	3	10	
IG33	182	27	209	
SYSTEM	182	27	209	
IG36	141	28	169	
SYSTEM	141	28	169	
IG41A	152	64	216	
IG41B	36	196	232	70% CC 20% DC 10% ME
SYSTEM	188	260	448	
IG42	60	145	205	
SYSTEM	60	145	205	
IG43	44	6	50	
SYSTEM	44	6	50	
IG50A	51	324	375	80% CC 10% DC 10% NR
IG50B	26	361	387	90% CC 10% NR
IG50C	77	417	494	60% CC 20% NR 20% ME
IG50D	27	132	159	
IG50E	6	69	75	30% SW 30% NR 10% CC 30% DC
IG50F	35	11	46	
SYSTEM	212	1,344	1,556	
	196	1367	1563	Total

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCORING PACKAGE	OPEN	CLOSED	TOTAL
IG51 SYSTEM	200 200	4 4	204 204
IG52 SYSTEM	12	12	24
IG61A	(33)	(219)	(252)
IG61B	7	1	8
IG61C	13	0	13
IG61D	6	1	7
IG61E SYSTEM	59	239	298
IG13 SYSTEM	805 805	611 611	1,416 1,416
IG14 SYSTEM	13	13	26
IG15A	(7)	(6)	(13)
IG15B	(7)	(10)	(17)
IG15C SYSTEM	(5)	(10)	(15)
IG15D	38	130	168
IG15E SYSTEM	4 4	4 4	8 8
IM11 SYSTEM	33 33	25 25	58 58
IM12 SYSTEM	36 36	6 6	42 42
IM13 SYSTEM	60 60	11 11	71 71
IM14 SYSTEM	70 70	23 23	93 93
IM15 SYSTEM	8 8	1 1	9 9
IM16 SYSTEM	12 12	12 12	24 24
IM17 SYSTEM	74 74	36 36	110 110

90% CC 10% ME

80% PC 10% NR 5% ME 5% CC

50% CC 50% ME

100% ME

50% NR 50% ME

50% DC 50% ME

30% CC 30% ME 30% SW

80% CC 20% SW

868 952 1820 Total

0 52 62 PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCORING PACKAGE	OPEN	CLOSED	TOTAL
IM23 SYSTEM	22	14	36
IM24 SYSTEM	37	7	44
IM25 SYSTEM	18	25	43
IM26 SYSTEM	11	9	20
IM27 SYSTEM	14	6	20
IM28 SYSTEM	15	14	29
IM29 SYSTEM	16	16	32
IM31 SYSTEM	13	22	35
IM32 SYSTEM	16	16	32
IM33 SYSTEM	5	11	16
IM35 SYSTEM	8	50	58
IM36 SYSTEM	22	11	33
IM38 SYSTEM	19	9	28
IM39A SYSTEM	21	1	22
IM39B SYSTEM	17	2	19
IM40 SYSTEM	23	6	29
IM41 SYSTEM	3	37	40

80% DC 20% CC

100% CC

80% 10% SW 10% ME

50% 50% DC

50% CC 50% DC

Total

233

186

47

67

67

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
IM42 SYSTEM	28 (28)	28 (28)	56% DC 50% CC
IM43 SYSTEM	16 16	1 1	17 17
IM45 SYSTEM	7 (7)	7 (7)	100% SW 65% SW 35% ME 50% CC 50% SW
IM46 SYSTEM	1 13	19 19	32 32
IM48 SYSTEM	7 (7)	7 (7)	50% CC 50% SW
IM51 SYSTEM	73 12 85	1 1 1	74 12 86
IM56 SYSTEM	1 1	2 2	3 3
IN11A SYSTEM	22 122 144	2 253 255	24 375 399
IN21 SYSTEM	65 (65)	377 (377)	442 (442)
IN22 SYSTEM	3 3	3 3	3 3
IN23 SYSTEM	28 (28)	174 (174)	202 (202)
IN24 SYSTEM	89 (89)	247 (247)	336 (336)
IN25 SYSTEM	9 9	1 1	10 10

199 878 1077 Total
15 39 54 PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCORING PACKAGE	OPEN	CLOSED	TOTAL	
IN26 SYSTEM	1	1	2	
IN27 IN27A IN27B SYSTEM	(140) 140	(382) 20 403	(522) 102 625	20% DC 20% NR 20% CC 20% ME 20% SW
				75% CC 25% SW
IN32 SYSTEM	6	6	12	
IN33 SYSTEM	35	26	61	
				60% SW 40% ME 50% SW 30% CC 20% DC
IN35 IN35A IN35B SYSTEM	4	(39) 37	(35) 46	50% SW 50% DC
IN36 SYSTEM	22	3	25	
IN37 SYSTEM	(0)	(7)	(7)	
IN41 SYSTEM	(8) 8	(2)	(10) 10	60% DC 40% CC
				50% SW 50% CC
IN43 SYSTEM	35	55	90	
IN44 SYSTEM	1	1	2	
IN51 SYSTEM	(31) 31	(652) 652	(683) 683	90% CC 10% SW
IN62 SYSTEM	5	5	10	
	238	1280	1518	Total
	54	208	262	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SYSTEM PACKAGE	OPEN	CLOSED	TOTAL
IP1A IP1A IP1A SYSTEM	1 11 32 44	71 3 74	1 82 118
IP1A SYSTEM	30 (30)	512 (512)	542 (542)
IP1A IP1A IP1A IP1A SYSTEM	21 4 7 3 20	21 8 17 14 70 130	21 12 24 17 76 150
IP1A IP1A SYSTEM	3 (1 4)	9 (17 26)	12 18 30
IP1A SYSTEM	1 18	52 360	53 378
IP1A SYSTEM	31 27	116 (116)	147 143
IP1A SYSTEM	23 23	17 17	40 40
IP1A SYSTEM	8 8		8 8
IP1A IP1A SYSTEM	18 (18)	260 (260)	278 278
IP1A IP1A SYSTEM	42 39 81	134 141 275	176 180 356
IP1A IP1A	1 28	109	110 137

50% CC 30% DC 20% SW

30% CC 10% SW 20% ME 20% DC 20% DC

30% SW 40% CC 30% ME
100% SW80% CC 10% ME 10% SW
50% SW 50% DC20% CC 50% DC 30% SW
50% SW 30% ME 20% CC30% DC 20% SW
50% CC 20% SW 30% DC

75% SW 25% ME

50% CC 50% DC
100% SW

60% CC 20% DC 20% SW

161 1592 1753 Total
32 449 481 PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
IP43R	(22)	(47)	(69)	30% DC 30% CC 40% SW
IP43C	60	60	120	
SYSTEM	141	216	357	
IP44A	15	152	167	50% SW 50% DC
IP45	8	8	16	
IP45A	69	171	240	
IP45R	56	155	211	
IP45C	34	87	121	
SYSTEM	159	421	580	
IP46	15	87	102	50% CC 30% DC 20% ME
SYSTEM	(15)	(87)	(102)	
IP47	75	123	198	
SYSTEM	75	123	198	
IP48	(5)	(53)	(58)	80% CC 20% SW
SYSTEM	(5)	(53)	(58)	
IP49A	52	120	172	80% NR 20% CC
IP49B	10	734	744	60% NR 40% CC
SYSTEM	62	854	916	
IP50	73	48	121	
SYSTEM	(73)	(48)	(121)	
IP51A	1	1	2	100% CC
IP51B	2	2	4	
IP51C	2	1	3	
IP51D	4	24	28	
IP51E	12	23	35	
IP51F	18	29	47	
IP51G	1	0	1	
IP51H	4	3	7	
IP51I	29	6	35	
IP51J	1	133	134	
SYSTEM	74	133	207	
IP52A	4	48	52	90% SW 10% DC
IP52B	(8)	16	24	50% SW 50% CC
IP52C	29	3	32	
SYSTEM	41	67	108	
IP54A	(12)	(21)	(33)	100% CC
IP54B	16	30	46	
IP54C	31	166	197	
IP54D		1	1	
	211	909	1120	Total
	11	192	203	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
IP54F	102	5	107	100% CC
IP54F	(28)	(70)	(98)	
IP54H	1	35	36	
IP54I	1		1	
IP54K	6	1	7	
SYSTEM	189	916	1,105	
IP55	10	2	12	
IP55A	(32)	(194)	(226)	
IP55B	(4)	(52)	(56)	
IP55C	(13)	(57)	(70)	
IP55D	(3)	(19)	(22)	
SYSTEM	52	324	376	90% CC 10% SW
IP56A	324	183	507	
IP56C	1		1	
SYSTEM	324	184	508	
IP57	6		6	
SYSTEM	6		6	
IP61A	(21)	(225)	(246)	50% CC 30% SW 20% ME
IP61B	7	2	9	
IP61C	(4)	(21)	(25)	100% CC
SYSTEM	26	248	274	
[REDACTED]				100% SW
[REDACTED]				100% CC
[REDACTED]				
[REDACTED]				
IP67	1		1	
SYSTEM	1		1	
IP71	17	1	18	
SYSTEM	17	1	18	
IP81	7	18	25	100% SW
SYSTEM	(7)	(19)	(26)	80% ME 20% SW
[REDACTED]				
	116	807	923	Total
	11	150	161	PPD

MASTER DEFICIENCY LIST (PROGRAM F7841011)
SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCORING PACKAGE	OPEN	CLOSED	TOTAL	
IPR4A	15	77	92	100% SW
IPR4B	1	6	7	
IPR4C	23	2	25	
SYSTEM				
IPR5	6	1	7	80% CC 20% SW
SYSTEM	6	1	7	
IPR7	1		1	
SYSTEM	1		1	
IPR10	1	26	27	100% CC 100% DC 100% SW
SYSTEM	1	26	27	
IPR13A	16		16	
SYSTEM	16		16	
IPR15	3	3	6	100% SW
IPR15A	1	2	3	
IPR15R	2	1	3	
SYSTEM				
IPR22	24	22	46	30% NR 30% CC 30% DC 10% SW
SYSTEM	24	22	46	
IPR22I	18	6	24	
IPR22G	28	14	42	50% NR 30% DC 20% SW
IPR22H	18	23	41	
IPR22R	1	1	2	
SYSTEM	91	295	386	
IPR25	26	31	57	
SYSTEM				
Total	124	500	624	
PPD	23	175	198	

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE OPEN CLOSED TOTAL

022 new page

IR23K	7	24	31
IR23L	10	16	26
IR23M	14	15	29
IR23N	12	17	29
IR23P	7	13	20
IR23Q	2	8	10
IR23S	67	2	69
SYSTEM		172	239

80% SW 20% CC

IR24A	7	20	27
IR24B	7	40	47
IR24C	9	17	26
IR24D	9	33	42
IR24E	1	16	17
IR24F	6	18	24
SYSTEM	51	257	308

80% CC 20% NR

IR25	2	3	5
IR25A	4	6	10
IR25B	1	7	8
IR25C	7	12	19
IR25E	3	3	6
IR25G	3	4	7
IR25W	17	1	18
SYSTEM		36	54

100% CC

IR34	1	2	3
SYSTEM	1	2	3
IR36	7	2	9
IR36A	5	1	6
IR36B	5	8	13
IR36C	6	5	11
IR36D	5	10	15
IR36E	1	1	2
IR36F	35	16	51
SYSTEM		51	102

152 415 567 Total
14 110 124 PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
IR42			
IR42K	11	9	20
IR42L	6	1	7
IR42M	4	1	5
IR42N	7	1	8
IR42P	17	3	20
IR42Q	9	3	12
IR42R	14	1	15
IR42S	9	1	10
IR42T	11	1	12
SYSTEM	104	116	220
IR43	3		3
IR43A	7		7
IR43B	5		5
SYSTEM	15		15
IR44		3	3
IR44C	3	3	6
SYSTEM	3	3	6
IR45	2	3	5
IR45A	2		2
IR45B	1		1
IR45C	2		2
SYSTEM	14	3	17
IR46	1		1
IR46C	3		3
SYSTEM	4		4
IR47C	1		1
SYSTEM	1		1
IR51	19	70	89
IR51A	9	13	22
IR51B	7		7
IR51C	18	5	23
IR51D	2	2	4
IR51E	3		3
IR51F	13	3	16

Total

169

96

73

9

82

PPL

50% SW 30% NR 20% CC

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
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IR51G SYSTEM	2 73	93	2 166
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IR52A	29	36	36
IR52B	13	16	16
IR52C	9	12	12
IR52D	23	26	26
SYSTEM	74	90	90

90% CC 10% DR

IR61 SYSTEM	5 5	36 36	41 41
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100% SW

100% ME

IR63 SYSTEM	2 2		2 2
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IR72 SYSTEM	R R		R R
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IR72 SYSTEM	11 3 22	23 24 47	34 27 71
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50% CC 50% SW

IR72 SYSTEM	63 63	72 72	135 135
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50% CC 20% DR 30% SW

IR72 SYSTEM	7,573	14,328	21,901
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IR72 SYSTEM	1 1		1 1
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IR72 SYSTEM	11 11		11 11
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IR72 SYSTEM	1 2 2 8 2 15	3 5 2 10	4 2 2 13 4 25
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IR72 SYSTEM	6 5 3 14		6 5 3 14
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64	234	298	Total
29	77	106	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
2M42 SYSTEM	1	4	5
2M46D SYSTEM	1		1
2M49 SYSTEM	1		1
2M51	10		10
2M51A	1		1
2M51R	1		1
2M51R SYSTEM	12		12
2N11A	1		1
2N11R	2		2
2N11R SYSTEM	3		3
2N21	7	2	9
2N21 SYSTEM	7	2	9
2N23	10		10
2N23 SYSTEM	10		10
2N24	21	6	27
2N24 SYSTEM	21	6	27
2N25	1		1
2N25 SYSTEM	1		1
2N27	13	1	14
2N27A	1		1
2N27A SYSTEM	14	1	15
2N31	3		3
2N31 SYSTEM	3		3
2N32	1		1
2N32 SYSTEM	1		1
2N33	2		2
2N33 SYSTEM	2		2
2N34A	2		2
2N34A SYSTEM	2		2
2N36	4		4
2N36 SYSTEM	4		4
2N42	1		1
2N42 SYSTEM	1		1

Total

4

5

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
2N62 SYSTEM	1		1
2N64	2		2
2N64A	3		3
2N64C	7		7
SYSTEM	12		12
2N71	22	4	26
SYSTEM	22	4	26
2P11	1	1	2
SYSTEM	1	1	2
2P12B	4		4
SYSTEM	4		4
2P21	1		1
SYSTEM	1		1
2P22	2		2
SYSTEM	2		2
2P41	1	2	3
SYSTEM	1	2	3
2P42	2		2
2P42A	20	12	41
2P42B	22	36	58
SYSTEM	53	48	101
2P43C	1		1
SYSTEM	1		1
2P44	5	1	6
SYSTEM	5	1	6
2P45A	7	3	10
2P45B	2	1	3
SYSTEM	9	4	13
2P46	3		3
SYSTEM	3		3
2P47	1		1
2P47C	1		1
SYSTEM	2		2
2P50	1		1
SYSTEM	1		1

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
2P51	1	10	11
2P51E	1		1
SYSTEM	2	10	12
2P52		1	1
2P52A	1	7	8
SYSTEM	1	8	9
2P54A		1	1
2P54B		1	1
2P54C		1	1
2P54D		1	1
2P54E	5	1	6
SYSTEM	5	5	10
2P61	3		3
2P61A		1	1
2P61B		1	1
SYSTEM	3	2	5
2P64A		1	1
SYSTEM		1	1
2R11A	7	2	9
2R11B	10	2	12
2R11C	10	28	38
SYSTEM	27	30	57
2R15	3		3
2R15A	2		2
2R15B	1		1
SYSTEM	3		3
2R22			
2R22A	10	12	22
2R22B	2	8	10
2R22C	7	2	9
2R22D	6	8	14
2R22E	3	3	6
2R22F	16	19	35
2R22G	40	23	63
2R22H	19	8	27
2R22J	2	4	6
2R22K	13	8	21
2R22L	120	92	212
SYSTEM			
2R23	5	4	9
2R23A	4	8	12
2R23B	1	5	6
2R23C			
2R23D			
2R23E			
2R23F			
2R23G			
2R23H			
2R23I			
2R23J			
2R23K			
2R23L			
2R23M			
2R23N			
2R23O			
2R23P			
2R23Q			
2R23R			
2R23S			
2R23T			
2R23U			
2R23V			
2R23W			
2R23X			
2R23Y			
2R23Z			
2R23AA			
2R23AB			
2R23AC			
2R23AD			
2R23AE			
2R23AF			
2R23AG			
2R23AH			
2R23AI			
2R23AJ			
2R23AK			
2R23AL			
2R23AM			
2R23AN			
2R23AO			
2R23AP			
2R23AQ			
2R23AR			
2R23AS			
2R23AT			
2R23AU			
2R23AV			
2R23AW			
2R23AX			
2R23AY			
2R23AZ			
2R23BA			
2R23BB			
2R23BC			
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2R23BF			
2R23BG			
2R23BH			
2R23BI			
2R23BJ			
2R23BK			
2R23BL			
2R23BM			
2R23BN			
2R23BO			
2R23BP			
2R23BQ			
2R23BR			
2R23BS			
2R23BT			
2R23BU			
2R23BV			
2R23BW			
2R23BX			
2R23BY			
2R23BZ			
2R23CA			
2R23CB			
2R23CC			
2R23CD			
2R23CE			
2R23CF			
2R23CG			
2R23CH			
2R23CI			
2R23CJ			
2R23CK			
2R23CL			
2R23CM			
2R23CN			
2R23CO			
2R23CP			
2R23CQ			
2R23CR			
2R23CS			
2R23CT			
2R23CU			
2R23CV			
2R23CW			
2R23CX			
2R23CY			
2R23CZ			
2R23DA			
2R23DB			
2R23DC			
2R23DD			
2R23DE			
2R23DF			
2R23DG			
2R23DH			
2R23DI			
2R23DJ			
2R23DK			
2R23DL			
2R23DM			
2R23DN			
2R23DO			
2R23DP			
2R23DQ			
2R23DR			
2R23DS			
2R23DT			
2R23DU			
2R23DV			
2R23DW			
2R23DX			
2R23DY			
2R23DZ			
2R23EA			
2R23EB			
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2R23NU			
2R23NV			

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SUBMITTING PACKAGE	OPEN	CLOSED	TOTAL
2R23C	13	13	26
2R23D	4	5	9
2R23E	4	1	5
2R23F	3	2	5
2R23G	13	15	28
2R23H	3	1	4
2R23J	2	2	4
2R23K	25	9	34
2R23L	16	6	22
2R23M	15	6	21
2R23N	13	6	19
2R23P	20	12	32
2R23Q	5	2	7
SYSTEM	122	86	208
2R24A	14	1	15
2R24B	10	4	14
2R24C	8	2	10
2R24D	13	5	18
SYSTEM	45	12	57
2R42A	3	7	10
2R42B	2	5	7
2R42C	(5)	14	19
SYSTEM	10	26	36
2S11A	4	24	28
SYSTEM	4	24	28
UNIT	1,300	674	1,974
FINAL TOT	8,873	15,005	23,878

23,878 RECORDS TOTALLED

173 136 309 Total

3357 9884 13241 Total All Systems
 208 1592 1800 Total PPD Systems
 3141 8212 11441 Total IT Systems

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
2R23C	13	13	13
2R23D	9	9	9
2R23E	1	1	1
2R23F	2	2	2
2R23G	15	15	15
2R23H	3	3	3
2R23J	2	2	2
2R23K	25	25	25
2R23L	16	16	16
2R23M	15	15	15
2R23N	13	13	13
2R23P	20	20	20
2R23Q	5	5	5
SYSTEM	122	122	122
2R24A	14	14	14
2R24B	10	10	10
2R24C	8	8	8
2R24D	13	13	13
SYSTEM	45	45	45
2R42A	3	3	3
2R42B	2	2	2
2R42C	5	5	5
SYSTEM	10	10	10
2S11A	4	4	4
SYSTEM	4	4	4
UNIT	1,305	1,305	1,305
FINAL TOT	8,873	15,005	23,878

see prev. page

60% CC 40% NR

80% CC 20% NR

100% CC

23,878 RECORDS TOTALLED

173 136 309 Total

3357 9884 13241 Total All Systems
 208 1592 1800 Total PPD Systems
 3141 8212 11441 Total ITD Systems

PERRY NUCLEAR POWER PLANT

MAJOR PROJECT MILESTONES (UNIT #1)

COMPLETED 1983 MILESTONES

<u>MILESTONES</u>	<u>SCHEDULED</u>	<u>ACTUAL</u>
FLUSH AND PLACE IN OPERATION CONDENSATE SYST (INCLUDING FILTER AND DEMINS)	20 JUL 83	07 JUL 83
BEGIN INITIAL FILL OF SUPPRESSION POOL	26 AUG 83	26 AUG 83
BEGIN INITIAL ECCS FLUSHES	07 SEP 83	31 AUG 83
COMPLETE CRD INSERT/WITHDRAWAL LINE HYDRO TEST	07 FEB 84	15 DEC 83
BEGIN CRD INSERT/WITHDRAWAL LINE FLUSH (COMPLETED 10 FEB 84)	14 NOV 83	01 DEC 83
BEGIN FLUSH/RUN IN CIRCULATING WATER (THRU COOLING TOWER)	02 MAR 84	12 NOV 83

MAJOR MILESTONES UNIT 1 & COMMON

<u>MILESTONES</u>	<i>MASTER PLAN</i> <u>FORECAST</u> <i>PRELIM</i>	
	<u>EARLY</u>	<u>LATE</u>
SUPPRESSION POOL TURNOVER	15 FEB 84	14 AUG 84
START INTEG FLUSH (INCLUDING OUTFLUSH)	22 JUN 84	21 DEC 84
COMPLETE RPV INTEGRATED FLUSH	10 AUG 84	07 FEB 85
COMPLETE CONTAINMENT I. L. R. T.	22 MAR 85	20 SEP 85
OPERATING LICENSE	15 JUN 85	15 DEC 85
START FUEL LOAD	15 JUN 85	15 DEC 85
INITIAL CRITICALITY	07 JUL 85	06 JAN 86
INITIAL TURBINE ROLL	13 AUG 85	12 FEB 86
SYNCHRONIZE GENERATOR	08 SEP 85	10 MAR 86
100% POWER OPERATION	16 DEC 85	17 JUN 86
COMMERCIAL OPERATION DATE	31 DEC 85	03 JUL 86

PROJECT SCHEDULE

CONSTRUCTION SECTION

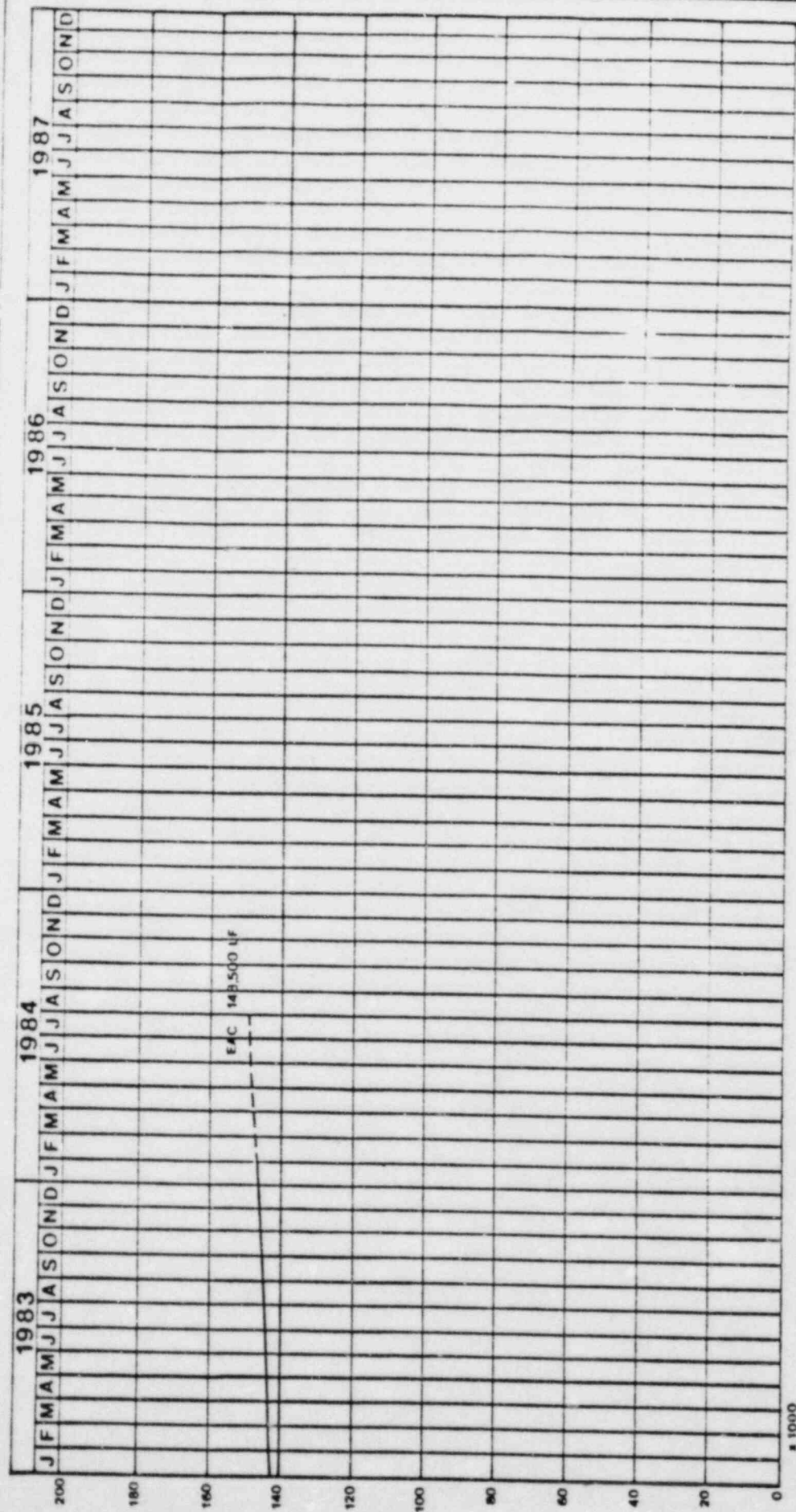
The following status of Areas 1 through 5 is based on Project Schedule calculations which include the turnover changes inherent to the Test Authorization Program. Time (critical path) calculations do not reflect the sequence and scope of the deferred construction work between the Test Authorization date and final system turnover.

AREA 1

The critical path contracts (SP-44/45 and SP-48/90) in Auxiliary Building #1 remain behind schedule through this reporting period. Period efforts are improving, but continuing hanger design revisions and late component deliveries persist as ongoing causes for delay to piping and hanger installations (SP-44/45). These problems have also subsequently hampered SP-48/90's progress due to rework and/or redesign of instrument tubing. Delayed hydrotesting, predominantly resultant of hanger installation difficulties, is beginning to jeopardize the scheduled completion of piping and equipment insulation (SP-50/51). The status of miscellaneous non-safety seismic hangers (SP-89) remains unchanged this period. SP-89 is expected to mobilize in this area following their completion of work in the Control Complex area. As a result of an insufficient number of penetrations released to construction, SP-98 (Fire Stop and Hole Seal Installation) similarly has made no progress this period. The nuclear coating of pipe and equipment (SP-64) also failed to begin this period. Until now, an engineering release has been the restraint to this portion of SP-64's scope of work. The release has now been issued, and work should start within the next period. Remaining contracts within Auxiliary Building #1 are either on schedule or have minimal noncritical work remaining.

As in Auxiliary Building #1, critical path contracts (SP-44/45 and SP-48/90) in the Intermediate Building remain behind schedule this period. The lack of to-date progress on these contracts has been the consequence of hanger design revisions, component delivery delays, and the diversion of manpower to priority work in other buildings. For similar reasons cited in Auxiliary Building #1, SP-50/51, SP-89, SP-98 and SP-64 also remain behind schedule. SP-26/27 (Architectural Installations) and SP-61 (Elevator Installation) are also behind schedule but presently pose no negative impact to schedule criticality.

The Fuel Handling Building's critical path contract, NSSS & Non-NSSS Equipment Installation (SP-38/39), remains stymied by a lack of materials, nonconforming conditions and design problems related to the inclined fuel transfer tube. However, most materials have now arrived on site for installation of the fuel transfer tube and mid-support hangers, and a second shift has been established to expedite the installation. Completion of piping and hanger installation (SP-44/45) and instrumentation (SP-48/90) are directly restrained by completion of SP-38/39 work. Other contracts shown behind schedule in this facility (SP-19, SP-26/27, SP-64 and SP-98) have minimal work remaining and presently pose no major schedule impact.



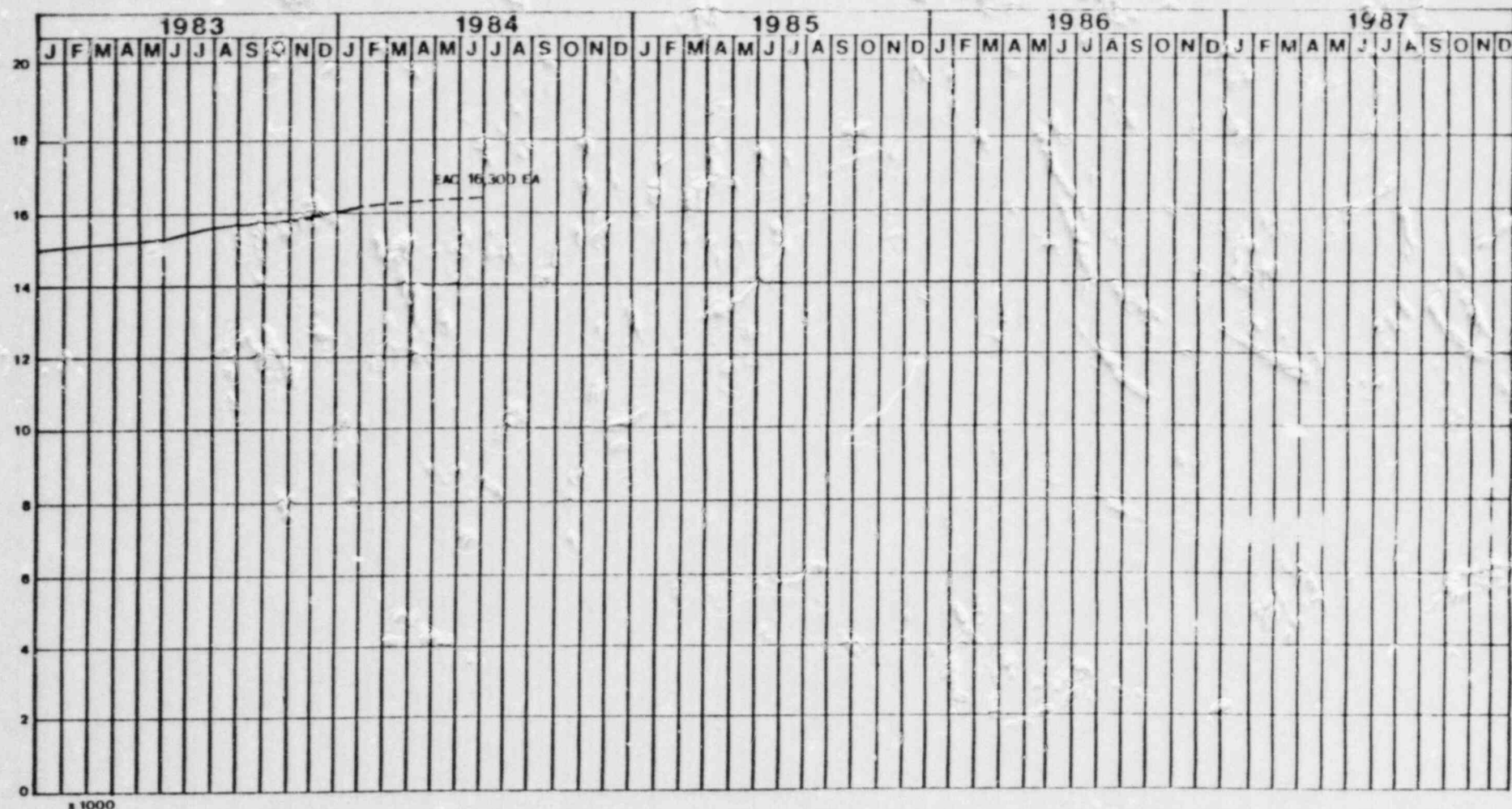
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SCHEDULED: -----

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PROJECT SCHEDULING

SP.44/45 UNIT 1 & COMMON
LARGE BORE PIPE

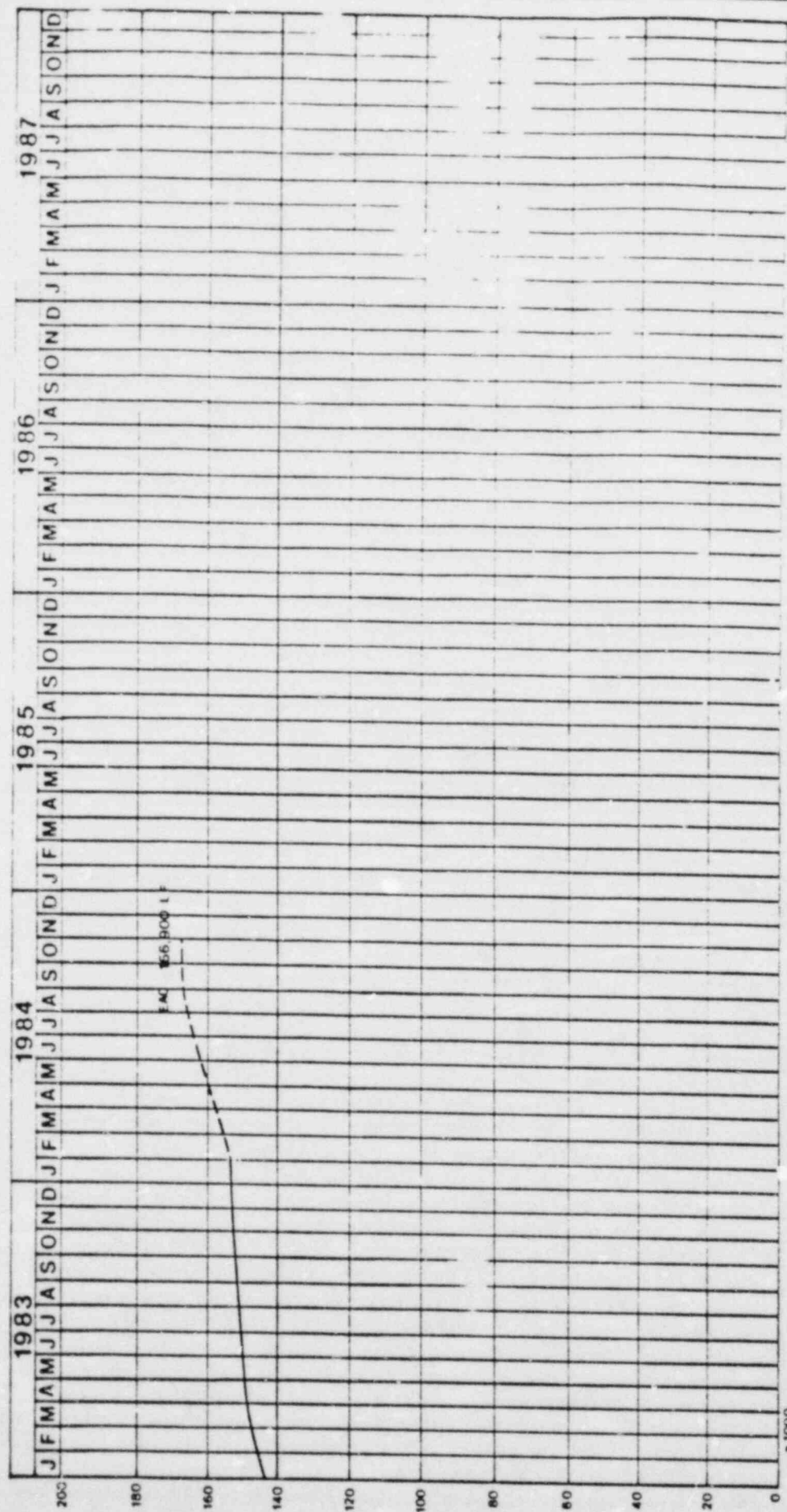


ACTUAL: _____
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NO.	REVISION	DATE	BY

PROJECT SCHEDULING

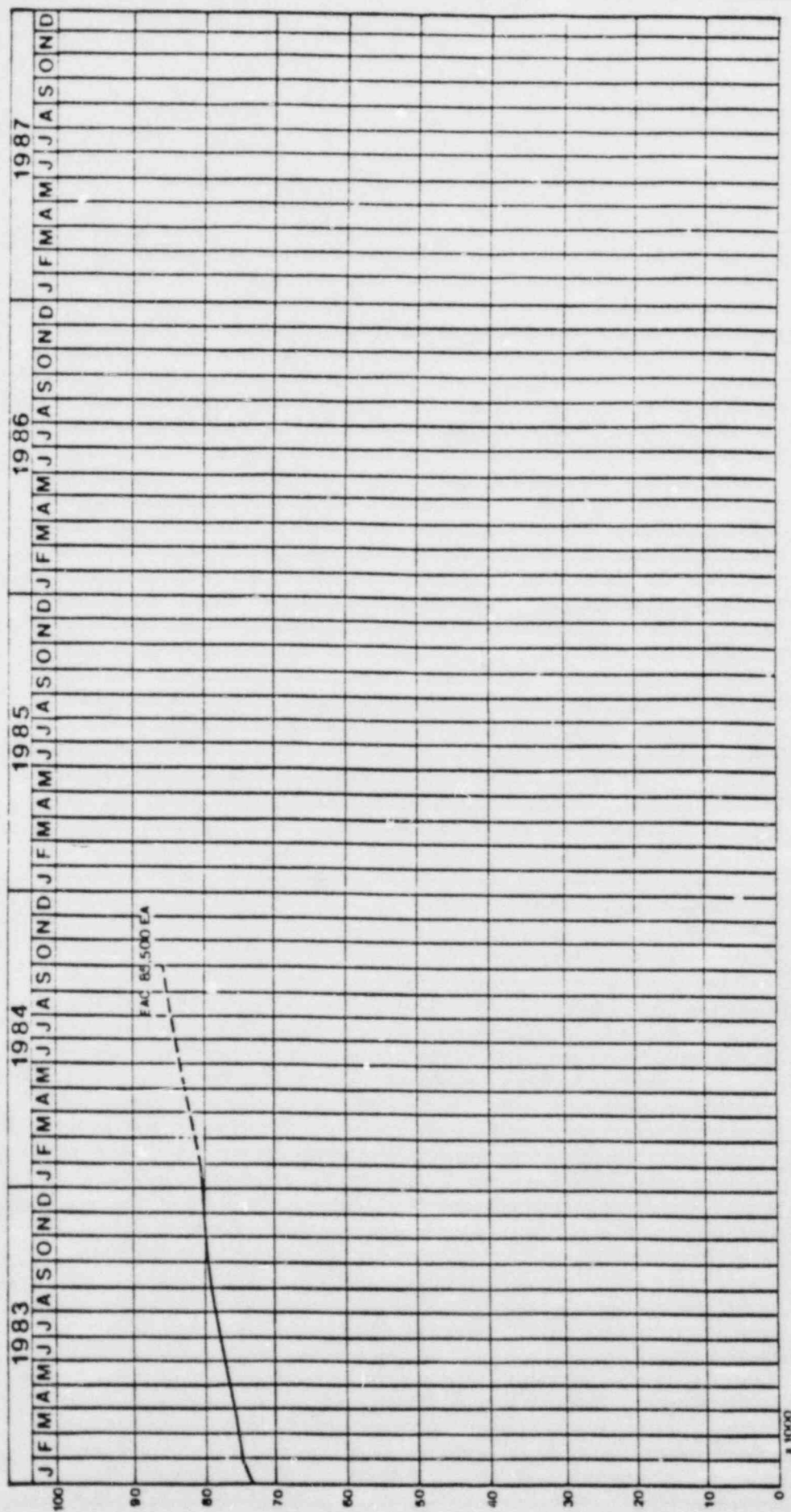
SP.44/45 UNIT 1 & COMMON
LARGE BORE WELDS



ACTUAL: _____
 SCHEDULED: - - - - -

PROJECT SCHEDULING
 SP.44/45 UNIT 1 & COMMON
 SMALL BORE PIPE

NO	REVISION	DATE



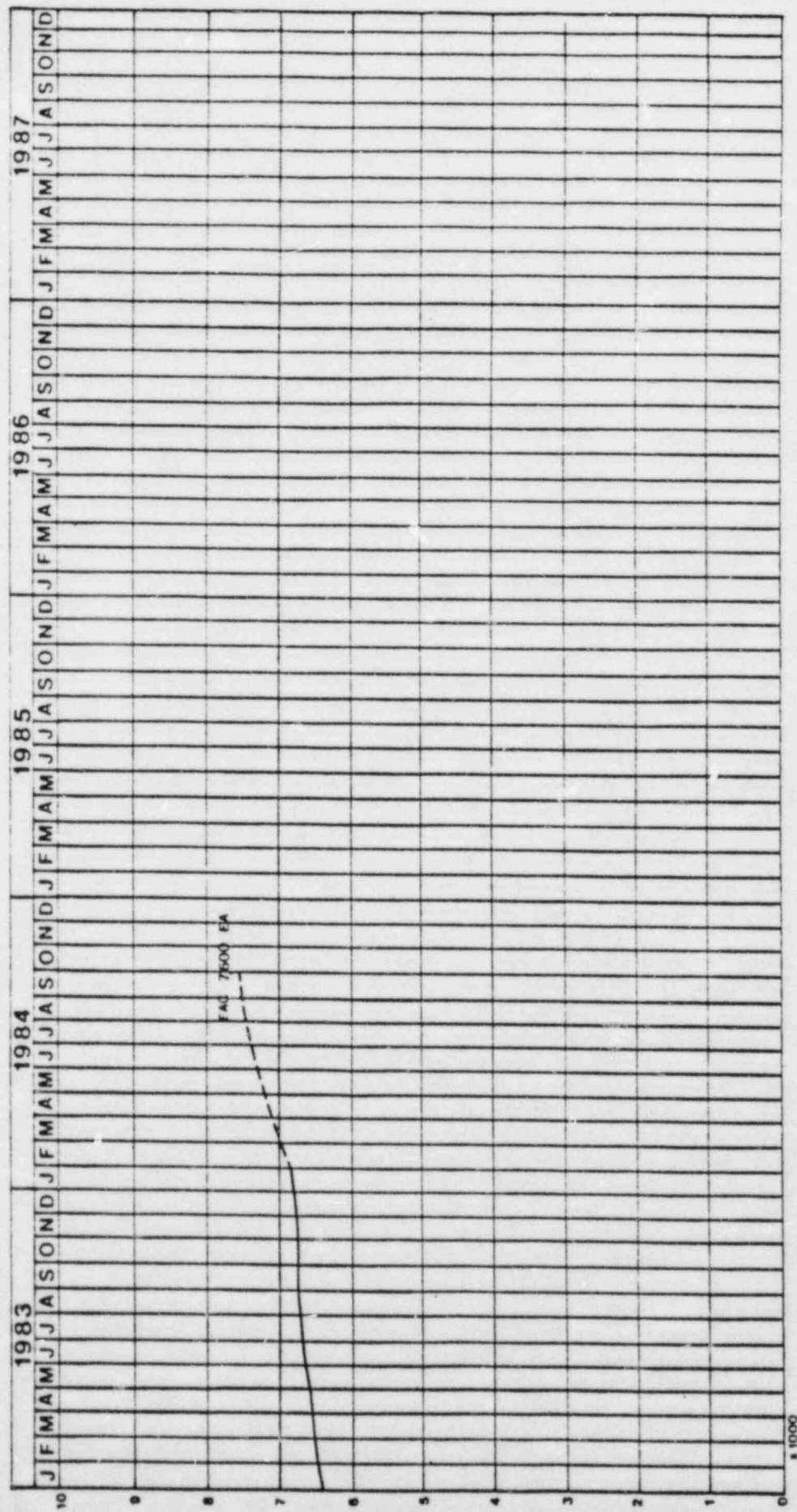
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SCHEDULED: -----

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PROJECT SCHEDULING

SP.44/45 UNIT 1 & COMMON
SMALL BORE WELDS



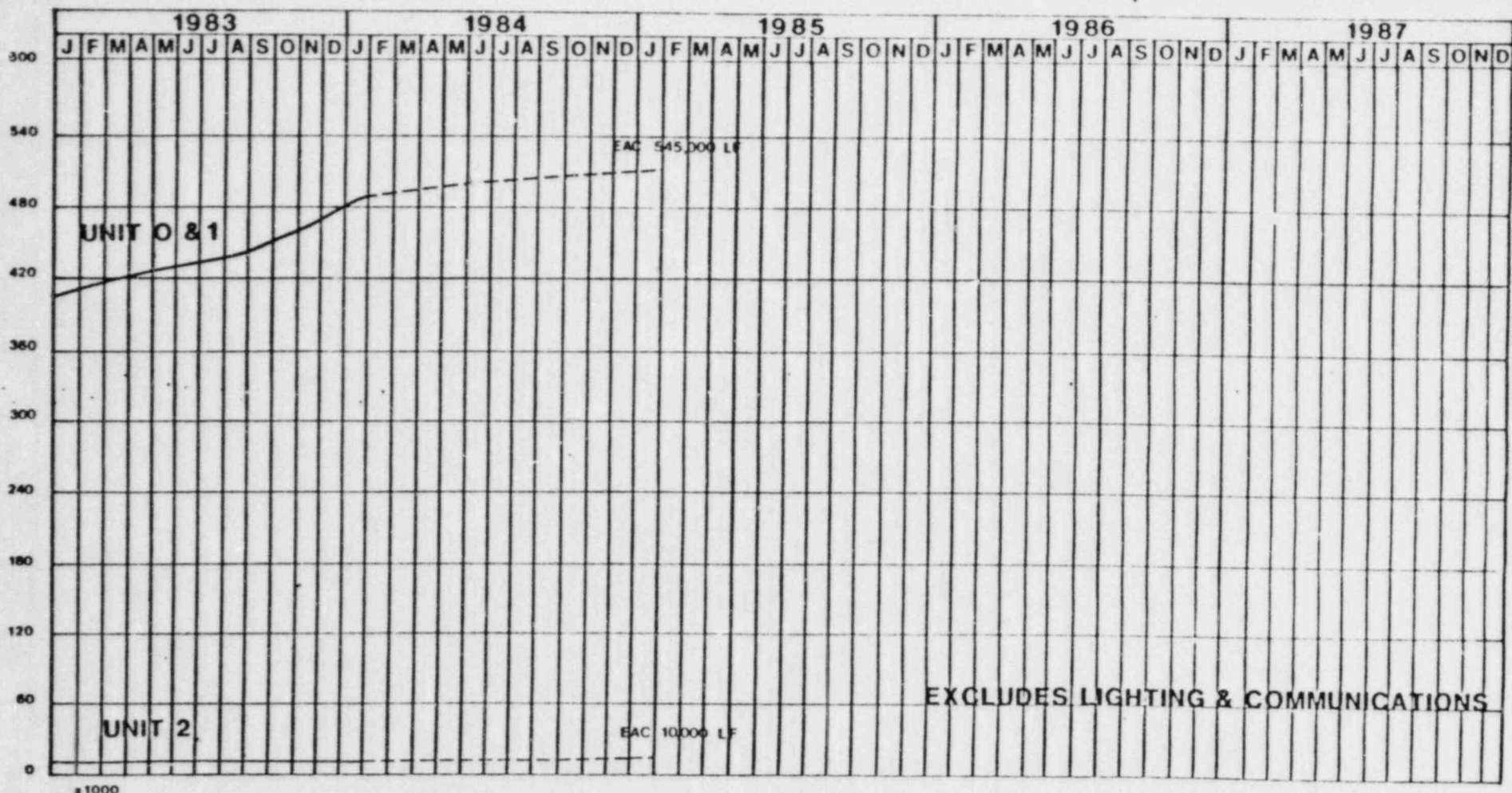
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SCHEDULED: -----

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PROJECT SCHEDULING

**SP.44/45 UNIT 1 & COMMON
SMALL BORE VALVES**



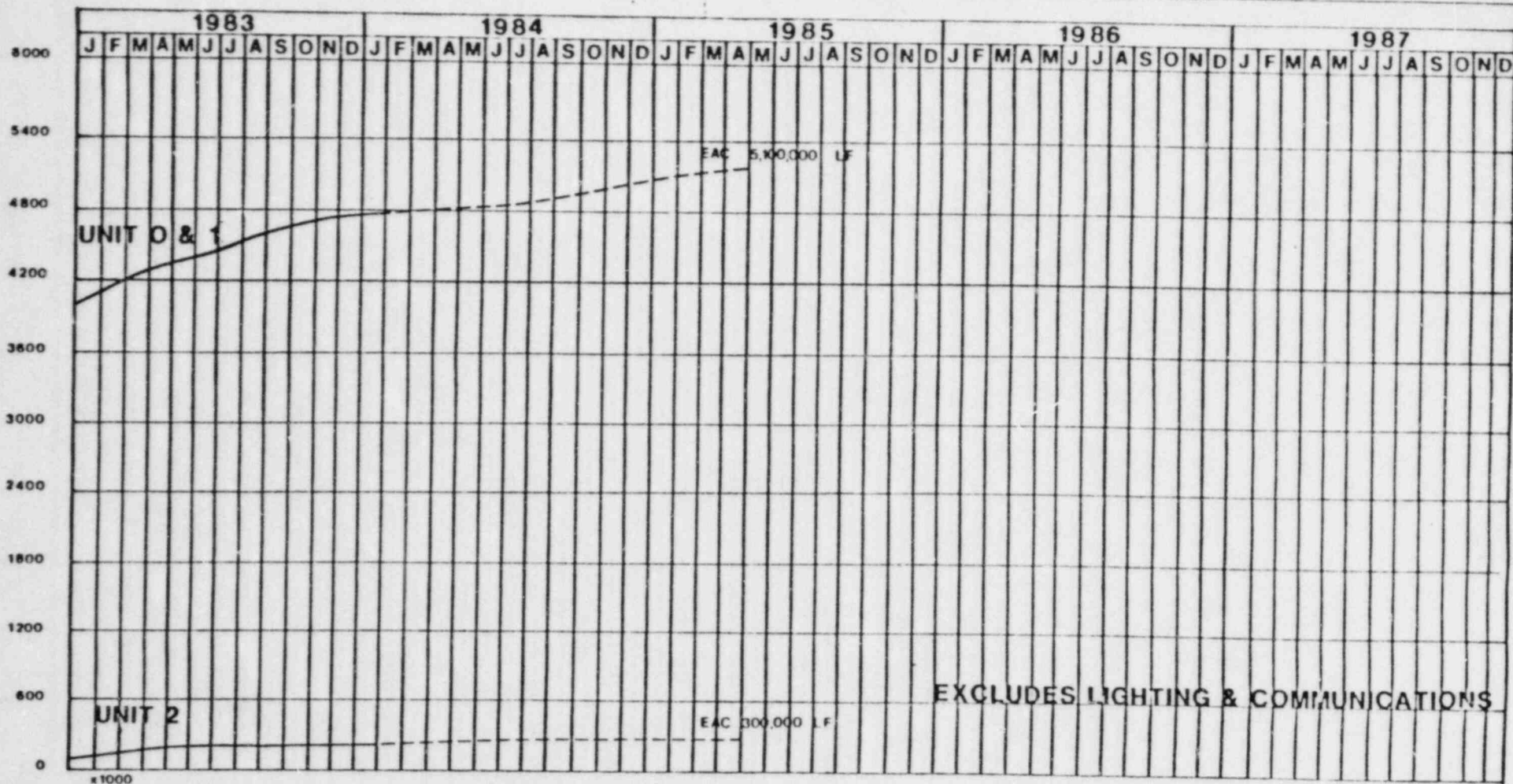
ACTUAL: ———

SCHEDULED: - - - - -

NO.	REVISION	DATE	BY	DATE

PROJECT SCHEDULING

SP.33/34 CONDUIT
FOR UNIT 1 OPERATION



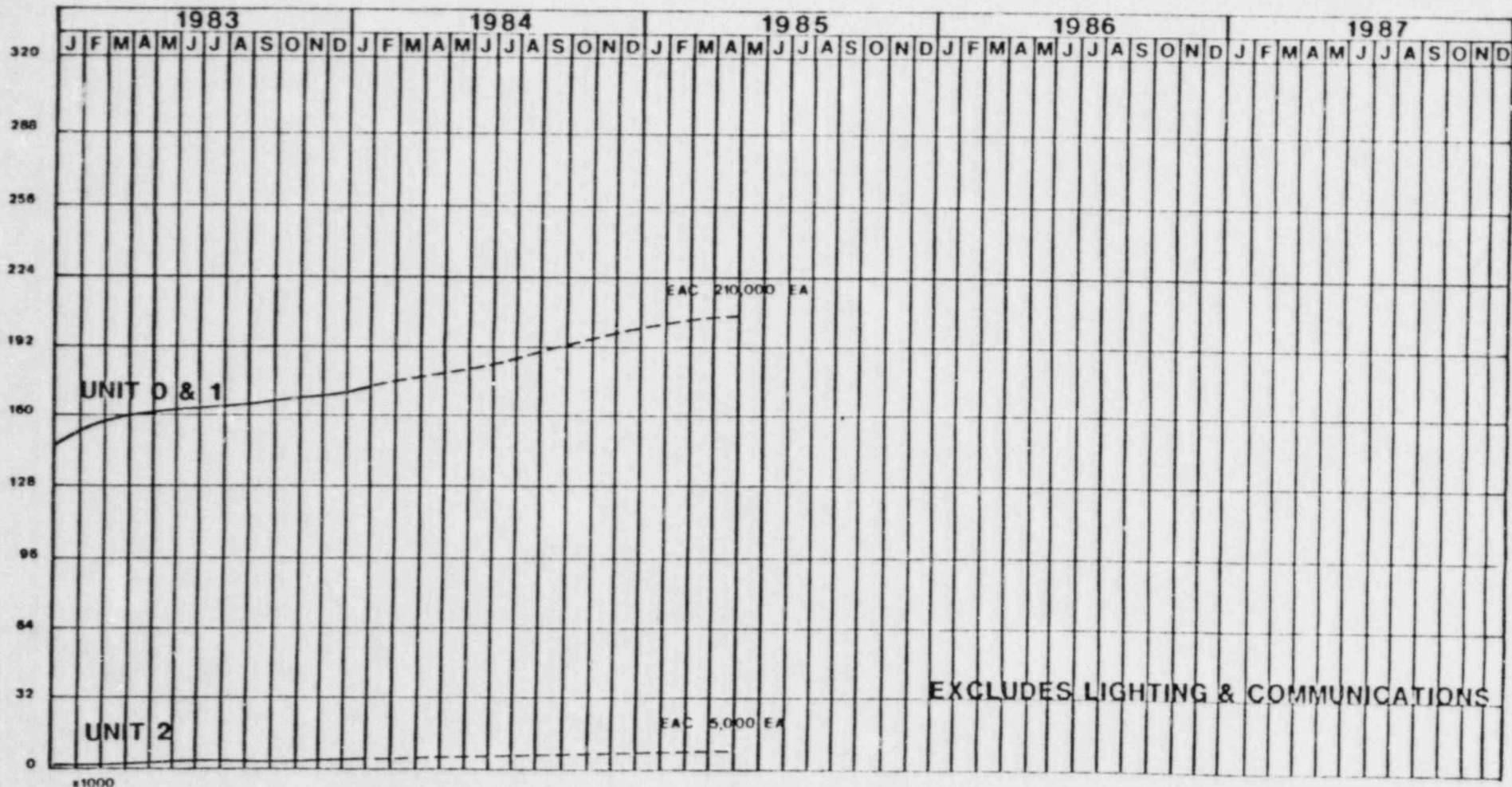
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SCHEDULED: - - - - -

NO.	REVISION	DATE	BY	DATE
			REVIEWED	
			BY	
			DATE	
			APPROVED	
			BY	
			DATE	

PROJECT SCHEDULING

SP.33/34 CABLE
FOR UNIT 1 OPERATION



ACTUAL: ———

SCHEDULED: - - - - -

NO.	REVISION	DATE	DATE

PROJECT SCHEDULING

SP.33/34 TERMINATIONS
FOR UNIT 1 OPERATION

MEMORANDUM

☐ I no longer wish to receive this material.

TO See Attached List ROOM

Construction Planning
FROM E. Moran/T. Gaydos DATE January 24, 1984
PHONE 5543/6295 ROOM W135/TP6
SUBJECT Project Master Plan Completion Dates
to Support Unit #1 Fuel Load

Attached is the Project Master Plan completion dates by system and subsystem. These dates reference the Project Master Plan diagrams for Unit #1 Fuel Load Rev. 0 issued on January 23, 1984 and supersede the memorandum on Preliminary Master Diagram Completion Dates issued on January 11, 1984.

All elements should work to support the scheduled completion dates for the following categories:

1. Piping Construction
2. Electrical Construction
3. Instrumentation and Control Construction
4. HVAC Construction
5. 79-14 Review and Documentation
6. Turnover to NTS
7. Turnover to PPD

Piping Construction completion dates require that Construction activities, Contractor documentation review, piping hydros, and as-built drawings be complete. The remaining discipline Construction completion dates require construction activities, Contractor documentation review, and as-built drawings be complete.

CEI review of the Contractor's documentation for each system and subsystem is required within eight weeks after the Construction completion dates.

The 79-14 Review and Documentation require that documentation and the Gilbert/Commonwealth system re-analysis and construction rework resulting from the re-analysis be complete.

All elements should also work to support the NTS testing efforts and PPD systems which may require modification without delaying the construction system and subsystem completion dates.

Your review and comments are needed to ensure that the planned completion dates are met.

gaa

1/24/84

PROJECT PLAN COMPLETION DATES

LEGEND: YEAR/MONTH/DATE

W/A=WILL ADVISE; (A)=ACTUAL

SYSTEM SUBSYSTEM	PIPING COMPLETE	ELECT COMPLETE	INSTR&CNTRL COMPLETE	HVAC COMPLETE	79-14 REVIEW & DOCUMENTS	T/O TO NTS	T/O TO PPD
B13	84/04/20		84/05/11		84/07/20	85/03/05	85/04/26
B21A	84/04/27	84/05/25	84/05/25		84/07/27	84/07/27	85/03/01
B21B EXC SRV	84/05/11	84/05/25	84/05/25		84/08/10	84/09/28	85/04/26
B21B AFT SRV	84/09/21	84/09/28	84/09/28			84/09/28	85/04/26
B21C	84/07/20	84/08/17	84/08/17		84/10/14	84/10/14	85/02/13
B21D	84/01/06	84/02/03	84/02/03		84/04/06	84/04/06	85/02/13
B33A	84/07/06	84/09/28	84/09/28		84/10/05	84/11/09	85/04/19
B33B	84/07/06	84/09/26	84/09/26		84/10/05	84/11/09	85/04/19
B33C	84/07/20	84/09/28	84/09/28		84/10/19	84/11/09	85/04/19
B33D	84/07/20	84/09/28	84/09/28		84/10/19	84/11/09	85/04/19
C11A	84/02/17	84/04/27	84/04/27		84/05/18	84/06/22	85/02/22
C11B	84/02/03	84/02/03	84/02/03		84/04/20	84/04/20	85/02/22
C11C	84/01/06		84/01/06		84/04/06	84/04/06	85/02/22
C22		84/02/17				84/04/23	84/05/07
C34		84/03/09	84/03/09			84/03/23	84/03/23
C41A	84/02/17	84/03/09	84/03/09		84/05/18	84/05/18	84/10/05
C41B	84/03/30	84/04/20	84/04/20		84/06/29	84/06/29	84/11/16
C51A		84/09/28				85/03/15	85/06/07
C51B		84/11/23				85/03/15	85/06/07
C51C		84/09/14				85/03/15	85/05/24
C51D		84/11/23				85/03/15	85/06/07
C61		84/03/02				84/04/27	84/09/07
C71A		84/07/20				84/09/14	85/02/01
C71B		84/04/27				84/06/22	85/02/01
C85 EXC SP43	84/02/24	84/03/09	84/03/09			84/03/23	85/05/17
C85 SP43						85/02/22	85/05/17
C91 COMP SYS						81/08/17(A)	85/03/01
C95A SPEC 73						84/01/06	85/01/08
C95B SPEC 73						83/11/11	85/02/08
C95C SPEC 73						83/12/16	85/02/08
C95D SPEC 73						83/12/09	85/02/08
C95E SPEC 73						84/01/06	85/02/08
C95F SPEC 73						83/12/02	85/02/08
C95G SPEC 73						84/06/03	85/02/08
C95H SPEC 73						84/08/03	85/02/08
C95I SPEC 73						83/12/02	85/02/08
C95J SPEC 73						84/04/20	85/02/08
C95K SPEC 73						84/01/27	85/02/08
C95L SPEC 73						83/12/16	85/02/08
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D17B		84/06/29	84/06/29			84/08/24	84/11/16
D17D		84/06/08	84/06/08			84/08/03	84/10/26
D17E		84/07/06	84/07/06			84/08/31	84/11/23
D17F		84/07/06	84/07/06			84/08/31	84/11/23
D17G		84/07/06	84/07/06			84/08/31	84/11/23
D17H		84/07/20	84/07/20			84/09/14	84/12/07
D17I		84/08/10	84/08/10			84/10/05	84/12/28
D17J		84/08/31	84/08/31			84/10/26	85/01/16
D17K		84/08/31	84/08/31			84/10/26	85/01/16
D17L		84/09/14	84/09/14			84/11/09	85/02/01
D17M		84/09/28	84/09/28			84/11/23	85/02/15
D17N		84/10/05	84/10/05			84/11/30	85/02/01
D17O		84/09/28	84/09/28			84/11/23	85/03/15
D17P		84/10/12	84/10/12			84/12/07	85/02/23
D17Q		84/10/12	84/10/12			84/12/07	85/04/12
D17R		84/11/16	84/11/16			85/01/11	85/04/26

SYSTEM SUBSYSTEM	PIPING COMPLETE	ELECT COMPLETE	INSTR/NTL COMPLETE	HVAC COMPLETE	79-14 REVIEW & DOCUMENTS	T/O TO NTS	T/O TO PPD
D17S		84/11/16	84/11/16			85/01/11	85/05/10
D17T		84/11/23	84/11/23			85/01/18	85/05/24
D17U		84/05/25	84/05/25			84/07/20	84/10/12
D17V		84/11/30	84/11/30			85/01/25	85/05/24
D17W		84/12/14	84/12/14			85/02/08	85/05/24
D17X		84/12/28	84/12/28			85/02/22	85/05/24
D17Y		85/01/11	85/01/11			85/03/08	85/05/24
D19		85/01/04	85/01/04			85/03/01	85/05/24
D21A		84/05/25	84/05/25			84/07/20	84/12/07
D21B		84/05/11	84/05/11			84/07/06	84/12/07
D21C		84/06/22	84/06/22			84/08/17	84/12/07
D21D		84/07/06	84/07/06			84/08/31	84/12/07
D21E		84/07/13	84/07/13			84/09/07	84/12/07
2D21 (CR)		84/05/11	84/05/11			84/07/06	84/12/07
D23		84/08/31	84/08/31			84/10/26	85/03/22
D51		84/10/19	84/10/19			84/12/14	85/03/15
E12A	84/04/13	84/04/27	84/04/27		84/07/05	84/07/06	85/04/19
E12B	84/04/13	84/04/27	84/04/27		84/07/06	84/07/06	85/04/19
E12C	84/04/13	84/04/27	84/04/27		84/07/06	84/07/06	85/04/19
E15A&B	84/04/13					84/07/06	85/04/19
E21	84/02/17	84/03/09	84/03/09		84/05/18	84/05/18	85/03/15
E22A	84/03/02	84/03/23	84/03/23		84/06/01	84/06/01	85/02/15
E22B		84/02/17	84/02/17			84/04/13	85/05/31
E31	84/03/02	84/06/01	84/06/01			84/07/13	85/03/01
E32	84/04/27	84/05/18	84/05/18		84/07/27	84/07/27	85/01/25
E51A	84/04/13	84/05/04	84/05/04		84/07/06	84/07/06	85/04/12
E51B	84/04/13	84/05/04	84/05/04		84/07/06	84/07/06	85/04/12
E51C	84/04/13	84/05/04	84/05/04		84/07/06	84/07/06	85/04/12
E61	84/06/08	84/11/30	84/11/30			85/01/25	85/05/17
F11	84/03/30	84/03/30	84/03/30			84/05/25	84/12/05
F12						84/06/08	84/09/14
F13	84/06/08					84/10/05	85/03/29
F14						84/07/06	84/10/12
F15	84/03/30	84/03/30	84/03/30			84/05/25	84/11/02
F16	84/05/18					84/05/18	84/11/02
F17	84/04/20	84/04/20	84/04/20			84/05/04	84/09/21
F42	84/02/03	84/02/24	84/02/24		84/05/04	84/05/04	84/11/23
G33	84/02/03	84/03/02	84/03/02		84/05/04	84/05/04	85/03/22
G36	83/12/23	84/01/06	84/01/06			84/02/03	85/03/22
G41A	84/02/03	84/03/02	84/03/02		84/05/04	84/05/04	84/08/17
G41B	83/12/23	83/12/30	83/12/30			84/01/13	84/08/17
G42	84/03/16	84/04/06	84/04/06		84/06/15	84/06/15	84/09/21
G43	84/03/16	84/04/06	84/04/06		84/06/15	84/06/15	84/10/26
G50A						83/09/29(A)	85/03/15
G50B						82/12/03(A)	85/03/15
G50C						82/12/03(A)	85/03/15
G50D	84/03/15	84/04/06	84/04/06			84/05/11	85/03/15
G50E						82/06/25(A)	85/03/15
G50F	83/12/30	84/02/10	84/02/10		84/03/30	84/03/30	85/03/15
G51	84/02/17	84/02/03	84/02/03			84/03/16	85/02/01
G60							83/09/08(A)
G61A						82/11/23(A)	85/06/07
G61B	84/01/06	84/01/27	84/01/27			84/02/10	84/06/08
G61C	84/02/17	84/03/16	84/03/16		84/05/18	84/05/18	84/09/14
G61D	84/02/03	84/05/25	84/05/25		84/05/04	84/06/08	84/10/25
M11		84/04/27		84/04/27		84/06/22	84/12/26
M13		84/06/22		84/06/22		84/08/17	85/04/05
M14	84/05/11	84/05/11		84/05/11		84/07/06	85/03/06

SYSTEM SUBSYSTEM	PIPING COMPLETE	ELECT COMPLETE	INSTR&CNTRL COMPLETE	MVRC COMPLETE	79-14 REVIEW & DOCUMENTS	T/O TO NTS	T/O TO PPD
M15		84/05/04	84/05/04	84/05/04		84/06/29	85/02/01
M16		84/04/13		84/04/13		84/06/08	84/05/21
M17		84/08/31	84/08/31	84/08/31		84/10/26	85/02/15
M21		84/01/20		84/01/20		84/03/02	84/11/09
M23		84/02/17		84/02/17		84/03/16	84/11/09
M25		84/03/09		84/03/09		84/04/06	84/12/14
M26		84/03/02		84/03/02		84/03/30	84/12/14
M27		84/03/16		84/03/16		84/04/13	84/09/14
M28		84/04/27		84/04/27		84/05/25	84/09/21
M29		84/08/03		84/08/03		84/08/17	84/11/09
M31						82/05/28(A)	84/05/25
M32		84/05/11		84/05/11		84/06/06	84/10/12
M33						83/03/14(A)	85/05/25
M35						81/09/25(A)	84/07/22
M36		84/02/24		84/02/24		84/03/23	84/12/28
M37						80/07/23(A)	80/12/12(A)
M38						83/04/13(A)	84/04/13
M39A		84/04/27		84/04/27		84/05/25	84/10/12
M39B		84/04/27		84/04/27		84/05/25	84/10/12
M40		84/04/06		84/04/06		84/05/04	84/12/07
M41						83/03/07(A)	84/03/23
M42						80/12/18(A)	84/01/27
M43		84/03/30		84/03/30		84/04/20	84/09/07
M45						83/03/01(A)	84/01/27
M46A							83/03/10(A)
M46B							83/04/08(A)
M46C							83/11/04(A)
M46D							83/08/25(A)
M46E		84/05/04		84/05/04		84/05/18	84/08/31
M46F		84/05/04		84/05/04		84/05/18	84/08/31
M47						83/04/13(A)	84/02/03
M48						81/12/18(A)	84/04/06
M49							83/12/06(A)
M51	84/05/25	84/06/01	84/06/01	84/06/01	84/08/24	84/08/24	85/05/10
M56		84/06/29				84/08/24	85/01/11
M99 PAR TEST							
N11A	84/02/17	84/03/16	84/03/16			84/03/30	84/07/06
N11B	84/03/16	84/04/13	84/04/13			84/05/04	85/01/04
N21						82/11/02(A)	84/03/09
N23						82/10/28(A)	84/04/27
N24						83/05/19(A)	84/05/11
N25	84/01/20	84/02/24	84/02/24			84/03/09	84/08/03
N26	84/01/20	84/02/24	84/02/24			84/03/09	84/08/10
N27A						83/04/27(A)	85/05/14
N27B		84/05/16	84/05/11			84/05/25	85/05/14
N31						82/09/15(A)	83/06/03(A)
N32 EXC SP43		84/03/30				84/04/13	85/05/17
N32 SP43						85/02/22	85/05/17
N33 EXC SP43		84/03/23				84/04/06	85/04/19
N33 SP43						84/11/23	85/04/19
N34A						82/12/13(A)	83/06/03(A)
N34E						82/06/28(A)	83/06/03(A)
N35A	84/03/02	84/03/02	84/03/02			84/03/16	84/06/29
N35B						83/01/13(A)	84/06/29
N36	84/01/06	84/04/13	84/04/13			84/04/27	84/11/09
N39						82/09/15(A)	83/06/03(A)
N41						82/06/30(A)	W/A
N42						82/11/11(A)	83/06/03(A)

SYSTEM SUBSYSTEM	PIPING COMPLETE	ELECT COMPLETE	INSTR&CNTRL COMPLETE	HVAC COMPLETE	79-14 REVIEW DOCUMENTS	T/O TO NTS	T/O TO PPD
N43						84/10/26	85/01/04
N51						W/A	W/A
N61						82/09/15(A)	85/05/24
N62	84/01/27	84/02/03	84/02/03			84/02/17	85/06/14
N64A	84/03/16	84/03/16	84/03/16			84/04/13	85/02/15
N64C	84/02/10	84/04/20	84/04/20			84/05/18	85/04/26
N71						83/06/07(A)	84/07/27
P11A						83/01/24(A)	84/06/29
P11B						83/09/15(A)	84/06/29
P11C						83/10/06(A)	84/06/29
P11D						83/12/09(A)	84/06/29
P11E						81/11/24(A)	84/06/25
P12A						83/01/26(A)	84/04/20
P12B						83/01/28(A)	84/04/20
P21B	84/03/02					83/10/07(A)	84/04/27
P22B	83/12/16	83/12/16	83/12/16			83/12/30	84/03/30
P33		84/02/24	84/02/24			84/03/09	84/09/07
P34		84/03/02				84/03/02	84/06/08
P35		84/03/16	84/03/16			84/03/16	84/08/24
P41A						81/08/10(A)	84/03/09
P41B						83/08/16(A)	84/03/09
P42A	84/01/06	84/01/27	84/01/27		84/04/06	84/04/06	84/08/31
P42B	84/01/06	84/01/27	84/01/27		84/04/06	84/04/06	84/08/31
2P42A(CR)	83/12/23	84/01/13	84/01/13		84/03/23	84/03/23	84/06/15
2P42B(CR)	83/12/23	84/01/13	84/01/13		84/03/23	84/03/23	84/06/15
P43A						81/07/17(A)	84/08/03
P43B						81/07/17(A)	84/08/03
P43C	84/01/20	84/02/10	84/02/10		84/04/20	84/04/20	84/08/03
P45A		84/02/17	84/02/17		84/05/18	84/05/18	85/04/05
P45B		84/02/17	84/02/17		84/05/18	84/05/18	85/04/05
P45C		84/02/03	84/02/03		84/04/06	84/04/06	85/04/05
P47	84/05/25	84/06/01	84/06/01		84/08/24	84/08/24	85/03/29
P48						83/05/18(A)	84/09/21
P49A						83/07/27(A)	84/04/06
P49B						83/07/27(A)	84/04/06
P50	84/03/23	84/03/30	84/03/30		84/06/22	84/06/22	85/01/25
P51A						82/06/30(A)	84/07/06
P51B						82/06/30(A)	84/07/06
P51C						82/06/30(A)	84/07/06
P51D						81/09/03(A)	84/07/06
P51E						82/06/30(A)	84/07/06
P51F						82/06/30(A)	84/07/06
P51G						84/01/06(A)	84/07/06
P51H	84/01/13	84/01/13				84/01/13	84/07/06
P51I	84/01/13	84/01/13			84/04/13	84/04/13	84/07/06
P51J						82/06/30(A)	84/06/06
2P51(CR)						83/08/10(A)	84/05/18

1/24/84

PROJECT PLAN COMPLETION DATES

LEGEND: YEAR/MONTH/DATE

SYSTEM SUBSYSTEM	PIPING COMPLETE	ELECT COMPLETE	INSTR&CNTRL COMPLETE	HVAC COMPLETE	79-14 REVIEW & DOCUMENTS	T/O TO NTS	T/O TO PPD
P52A						81/09/84(A)	85/06/14
P52B						82/07/30(A)	85/06/14
P52C	84/01/06	84/01/06			84/04/06	84/04/06	85/06/14
2P52A						83/08/10(A)	84/05/18
2P52B						83/08/03(A)	84/05/18
P53	84/05/11	84/06/08	84/06/08			84/06/22	84/09/28
P54A						80/10/31(A)	84/09/14
P54B						80/11/06(A)	84/09/14
P54C	84/01/06	84/01/13	84/01/13			84/01/27	84/09/14
P54D	84/03/23	84/03/23				84/04/20	84/09/14
P54E	84/01/13	84/01/13				84/06/01	84/08/24
P54F						82/10/08(A)	84/09/14
P54G	84/06/29	84/06/29				84/08/24	84/11/16
P54H	84/02/03	84/02/03				84/03/02	84/09/14
P54I	84/02/17	84/02/17				84/03/16	84/09/14
P54J	84/03/02	84/03/02				84/03/30	84/09/14
P54K	84/01/20	84/01/20				84/02/17	84/09/14
P54L	84/03/16	84/03/16				84/04/13	84/09/14
P55A						81/11/19(A)	84/04/27
P55B						81/11/19(A)	84/04/27
P55C						83/02/09(A)	84/04/27
P55D						83/01/10(A)	84/04/27
P56		84/10/26				84/10/26	85/05/24
P57	84/03/16	84/04/13	84/04/13		84/06/15	84/06/15	84/11/02
P61A						80/12/22(A)	85/06/14
P61B	84/01/20	84/02/24	84/02/24			84/03/09	85/06/14
P61C						83/02/09(A)	85/06/14
P71A	84/02/17	84/02/17	84/02/17			84/03/02	84/05/18
P72	84/03/16	84/03/16				84/04/06	84/08/17
P81						82/09/14(A)	84/02/03
P83						83/05/21(A)	84/02/03
P84A						83/08/05(A)	85/01/18
P84B		84/09/14				84/09/28	85/01/18
P84C						83/12/19(A)	05/01/18
P86	84/01/13	84/01/27	84/01/27		84/04/13	84/04/13	84/06/10
P87	84/06/22	84/07/20	84/07/20		84/09/21	84/09/21	85/01/18
R11B						82/12/17(A)	W/A
R13		84/05/11				84/05/25	84/09/14
R15A						84/01/18(A)	W/A
R15B						W/A	W/A
R15C						84/01/18(A)	W/A
R15D						W/A	W/A
R15E						84/01/18(A)	W/A
R15F						84/01/18(A)	W/A
R22F						81/07/02(A)	W/A
R22G						83/10/18(A)	W/A
R22H						83/10/24(A)	W/A
R22K						83/02/14(A)	W/A
R23G						81/09/22(A)	W/A
R23K						83/10/04(A)	W/A
R23L						83/10/11(A)	W/A
R23M						83/08/11(A)	W/A
R23N						83/08/22(A)	W/A
R23P						83/02/07(A)	W/A
R23Q						82/12/21(A)	W/A
R24A						82/12/17(A)	W/A

SYSTEM	PIPING	ELECT	INSTR/NTL	HVAC	79-14 REVIEW	T/O TO NTS	T/O TO DDD
SUBSYSTEM	COMPLETE	COMPLETE	COMPLETE	COMPLETE	& DOCUMENTS		
R24B						83/01/20(A)	W/A
R24C						82/11/30(A)	W/A
R24D						83/01/12(A)	W/A
R24E						83/01/12(A)	W/A
R24F						83/01/12(A)	W/A
R24P						82/09/28(A)	W/A
R24Q						82/09/24(A)	W/A
R24R						82/09/24(A)	W/A
R24S						83/10/18(A)	W/A
R24U						82/09/28(A)	W/A
R24X						83/06/16(A)	W/A
R24Y						82/09/28(A)	W/A
R24Z						83/09/02(A)	W/A
R25A						83/09/08(A)	W/A
R25B						83/08/19(A)	W/A
R25C						83/10/04(A)	W/A
R25D						83/06/24(A)	W/A
R25E						83/11/18(A)	84/04/20
R25F		84/07/06				84/07/20	84/11/02
R25G		84/08/10				84/08/24	84/12/07
R34						W/A	W/A
R35						W/A	W/A
R36A		84/01/13				84/01/27	84/06/22
R36B						82/12/13(A)	84/06/22
R36C						83/10/14(A)	84/06/22
R36D						83/05/06(A)	84/06/22
R36E						83/07/26(A)	84/06/22
R36F						83/10/14(A)	84/06/22
R36G		84/03/09				84/03/23	84/06/22
R36H		84/03/09				84/03/23	84/06/22
R36J						84/02/17	84/06/22
R37						W/A	W/A
R42J		84/01/06				84/03/02	84/08/31
R42K		84/01/13				84/03/09	84/08/31
R42L		84/01/06				84/03/02	84/08/31
R42M						83/09/26(A)	84/08/31
R42N						83/10/27(A)	84/08/31
R42P						83/11/22(A)	84/08/31
R42Q						83/11/29(A)	84/08/31
R42R						83/10/27(A)	84/08/31
R42S		84/01/13				84/03/09	84/08/31
R42T		84/01/13				84/03/09	84/08/31
R42U		84/01/27				84/03/23	84/08/31
R42V		84/02/10				84/04/06	84/08/31
R43A	84/02/03	84/02/03	84/02/03			84/03/30	85/05/31
R43B	84/02/03	84/02/03	84/02/03			84/03/30	85/05/31
R44A	84/02/03	84/02/17	84/02/17		84/05/04	84/05/04	85/05/31
R44B	84/01/20	84/02/17	84/02/17		84/04/20	84/04/20	85/05/31
R44C		84/02/03	84/02/03			84/03/30	85/05/31
R45A	84/02/03	84/02/17	84/02/17		84/05/04	84/05/04	85/05/31
R45B	84/02/03	84/02/17	84/02/17		84/05/04	84/05/04	85/05/31
R45C	83/12/30	84/01/20	84/01/20		84/03/30	84/03/30	85/05/31
R46A	83/12/30	84/01/20	84/01/20		84/03/30	84/03/30	85/05/31
R46B	83/12/30	84/01/20	84/01/20		84/03/30	84/03/30	85/05/31
R46C		84/01/20	84/01/20			84/03/16	85/05/31
R47A	83/12/23	84/01/13	84/01/13		84/03/23	84/03/23	85/05/31
R47B	83/12/30	84/01/20	84/01/20		84/03/30	84/03/30	85/05/31
R47C	83/12/30	84/01/06	84/01/06		84/03/30	84/03/30	85/05/31

SYSTEM	PIPING	ELECT	INSTR&CNTRL	HVAC	79-14 REVIEW	T/O TO NTS	T/O TO PPD
SUBSYSTEM	COMPLETE	COMPLETE	COMPLETE	COMPLETE	& DOCUMENTS		
R4BA	84/02/03				84/05/04	84/05/04	85/05/31
R4BB	84/02/03				84/05/04	84/05/04	85/05/31
R4BC	84/02/03				84/05/04	84/05/04	85/05/31
R50						W/A	W/A
R51A						W/A	W/A
R51B						W/A	W/A
R51C						W/A	W/A
R51D						W/A	W/A
R51E						W/A	W/A
R51F						W/A	W/A
R51G						W/A	W/A
R52A						83/03/14(A)	W/A
R52B						83/03/14(A)	W/A
R52C						82/12/05(A)	W/A
R52D						83/03/14(A)	W/A
R52E						W/A	W/A
R53						W/A	W/A
R54						W/A	W/A
R56						W/A	W/A
R62						W/A	W/A
R63		84/05/25				84/07/20	85/04/05
R71						W/A	W/A
2R11A(CR)						83/05/26(A)	W/A
2R11B(CR)						83/06/03(A)	W/A
2R11C(CR)						83/04/22(A)	W/A
2R15A						84/01/18(A)	W/A
2R15B						W/A	W/A
2R15C						84/01/18(A)	W/A
2R15D						W/A	W/A
2R15E						84/01/18(A)	W/A
2R15F						84/01/18(A)	W/A
2R22A(CR)						83/10/04(A)	W/A
2R22B(CR)						83/04/20(A)	W/A
2R22C(CR)						82/04/26(A)	W/A
2R22D(CR)						83/03/15(A)	W/A
2R22E(CR)						83/06/03(A)	W/A
2R22F(CR)						83/07/07(A)	W/A
2R22G(CR)						83/06/16(A)	W/A
2R22H(CR)						83/06/03(A)	W/A
2R22J(CR)						83/06/24(A)	W/A
2R22K(CR)						83/09/21(A)	W/A
2R23A(CR)						82/06/07(A)	W/A
2R23B(CR)						83/03/04(A)	W/A
2R23C(CR)						83/06/15(A)	W/A
2R23D(CR)						83/03/07(A)	W/A
2R23E(CR)						83/03/17(A)	W/A
2R23F(CR)						83/03/17(A)	W/A
2R23G(CR)						83/03/17(A)	W/A
2R23J(CR)						83/06/23(A)	W/A
2R23K(CR)						83/07/20(A)	W/A
2R23L(CR)						83/09/20(A)	W/A
2R23M(CR)						83/09/20(A)	W/A
2R23N(CR)						83/08/11(A)	W/A
2R23P(CR)						83/09/20(A)	W/A
2R23Q(CR)						83/07/22(A)	W/A
2R24A(CR)						83/07/29(A)	W/A
2R24B(CR)						83/06/25(A)	W/A
2R24C(CR)						83/09/20(A)	W/A

SYSTEM	PIPING	ELECT	INSTR&CNTRL	HVAC	79-14 REVIEW	T/O TO NTS	T/O TO PPD
SUBSYSTEM	COMPLETE	COMPLETE	COMPLETE	COMPLETE	& DOCUMENTS		
2R24D(CR)						83/07/29(A)	W/A
2R24E(CR)						83/07/22(A)	W/A
2R24F(CR)						83/10/14(A)	W/A
2R24Q(CR)						83/06/23(A)	W/A
2R24S(CR)						83/05/26(A)	W/A
2R24T(CR)						83/05/26(A)	W/A
2R24U(CR)						83/06/22(A)	W/A
2R24W(CR)						83/06/02(A)	W/A
2R24Y(CR)						83/11/16(A)	W/A
2R25A(CR)						83/11/09(A)	W/A
2R25B(CR)						83/06/27(A)	W/A
2R25C(CR)						83/10/25(A)	W/A
2R25D(CR)						83/05/06(A)	W/A
2R42A(CR)						83/05/09(A)	W/A
2R42B(CR)						83/05/06(A)	W/A
2R42C(CR)						83/00/05(A)	W/A
2R42D(CR)						83/06/27(A)	W/A
2R42E(CR)						83/09/26(A)	W/A
2R42F(CR)						83/05/20(A)	W/A
2R42G(CR)						83/10/04(A)	W/A
2R42H(CR)						83/05/20(A)	W/A
2R42I(CR)		84/03/02				84/04/27	W/A
2R42J(CR)						83/10/14(A)	W/A
S11B,C						82/04/30(A)	W/A
2S11A(CR)						83/02/02(A)	W/A
2S11B		84/10/26				84/11/09	85/02/08
2S11C		84/10/26				84/11/09	85/02/08
T21	84/01/27	84/01/27	84/01/27			84/02/10	85/03/22

FROM: JBM

SUBJECT: CASELOAD QUESTIONS RESPONSE
QUESTION 18.

Q. STATUS OF OPERATING PROCEDURES REQUIRED FOR F/L

STATUS - INCLUDES ALL PROCEDURES / INSTRUCTIONS IN OPS. MANUAL

TOTAL REQUIRED - 2743

TOTAL COMPLETED⁽¹⁾ 730 (27%)

" IN PROCESS 976 (35%)

NOT STARTED⁽²⁾ 1037 (38%)

SUMMARY

	<u>REQ'D</u>	<u>COMPLETED</u>	<u>IN PROCESS</u>	<u>NOT STARTED</u>
PLANT / SECTION ADMIN. PROC.	208	67	76	65
SYSTEM OPER INSTR. (INCL. ELI, VLI's)	283	233	32	18
ALARM RESP. INSTR. OFF NORMAL AND PLANT EMERG. INSTR. (EPI's)	212 212	174	116	17
+ SURVEILLANCE INSTR. (INCL. VSI's)	1160	41	403	716
INSTRUMENT CALIB. & MAINT INSTR.	303	18	262	23
MAINTENANCE INSTR.	107	27	54	26
HP, CHEM, R/WASTE INSTR.	213	143	42	28
SECURITY INSTRUCTIONS	46		34	46 10

(1) APPROVED & SIGNED OFF

(2) INCLUDES 716 SURVEILLANCE INSTRUCTIONS TO BE WRITTEN BY
THE R/ENG. FOR THE SYSTEM. (ABOUT 100 ~~FROM~~ DUE FROM NES)

System/Subsystem

A three-digit alphanumeric code is used to designate plant systems. A fourth alphabetic character is sometimes needed in the event the system has been subscoped for testing purposes. The systems/subsystems currently recognized in the test subnetwork of the Project Schedule (in character positions 2 - 5) are as follows:

<u>B</u>	-	<u>Steam Generator System</u>
- B13	-	Reactor System
- B21	-	Nuclear Boiler System
B33	-	Reactor Recirculation Valve Flow Control System
<u>C</u>	-	<u>Control System</u>
- C11	-	Control Rod Drive Hydraulic Control System
C34	-	Feedwater Control System (Turbine Drive)
- C41	-	Standby Liquid Control System
C51	-	Neutron Monitoring System
C61	-	Remote Shutdown System
C71	-	Reactor Protection System
C85	-	Steam Bypass and Pressure Regulation System
C91	-	Computer System
C94	-	Health Physics Computer System
<u>D</u>	-	<u>Radiation Monitoring System</u>
D17	-	Plant Radiation Monitoring System
D21	-	Area Radiation Monitoring System (In Plant)
D23	-	Containment Atmosphere Monitoring System
D51	-	Environs Monitoring System
D19	-	Post Accident Radiation Monitoring System
<u>E</u>	-	<u>Core Cooling & Containment System</u>
- E12	-	Residual Heat Removal System
E15	-	Containment Spray System
- E21	-	Low Pressure Core Spray System
- E22	-	High Pressure Core Spray System
E31	-	Leak Detection System
E32	-	MSIV Leakage Control System
E51	-	Reactor Core Isolation Cooling System
E53	-	Containment Isolation System
E61	-	Integrated Leak Rate Test System
E62	-	Drywell Leak Test
E64	-	Shield Building Leak Rate
E66	-	Drywell Structural Integrity
<u>F</u>	-	<u>Service & Handling Equipment</u>
F11	-	Fuel Servicing Equipment
F12	-	Servicing Aids
F13	-	Reactor Vessel Servicing Equipment
F14	-	In-Vessel Servicing Equipment
F15	-	Refueling Equipment
F16	-	Storage Equipment
F17	-	Under Reactor Vessel Servicing Equipment
F18	-	Control Room Equipment

<u>G</u>	-	<u>Clean-up and Filtering System</u>
- G33	-	Reactor Water Clean-Up System
- G36	-	RWCU Filter/Demineralizer System
- G41	-	Fuel Pool Cooling and Clean-Up System
G42	-	Suppression Pool Drain and Clean-Up System
G43	-	Suppression Pool Make-Up System
G50	-	Liquid Radwaste System
G51	-	Solid Radwaste Disposal System
G60	-	Miscellaneous Sump System
G61	-	Liquid Radwaste Sumps System
<u>H</u>	-	<u>Control Panels</u>
H13	-	Control Room Panels
H22	-	Local Panels and Racks (GE)
H51	-	Local Panels and Racks (non GE)
<u>J</u>	-	<u>Fuel</u>
J11	-	Fuel
<u>L</u>	-	<u>Miscellaneous Equipment</u>
L51	-	Cranes, Hoists, and Elevators
L52	-	Service Building Machine Shop Equipment
L53	-	Motor Operated Louver Operators
L54	-	Rolling Steel Door Operators
L55	-	Miscellaneous Architectural Equipment
L56	-	Control Complex Machine Shop Equipment
<u>M</u>	-	<u>HVAC</u>
M11	-	Containment Vessel Cooling System
M12	-	Containment Pool Air Supply and Exhaust Systems
M13	-	Drywell Cooling System
M14	-	Containment Vessel and Drywell Purge Systems
M15	-	Annulus Exhaust Gas Treatment System
M16	-	Drywell Vacuum Relief System
M17	-	Containment Vacuum Relief System
M21	-	Controlled Access and Miscellaneous Equipment
	-	Area HVAC System
M23	-	MCC, Switchgear, and Miscellaneous Electrical
	-	Equipment Area HVAC Systems
M24	-	Battery Room Exhaust System
M25	-	Control Room HVAC System
M26	-	Control Room Emergency Recirculation System
M27	-	Computer Room HVAC System
M28	-	Emergency Closed Cooling Pump Area Cooling System
M29	-	Control and Computer Room Humidification System
M31	-	Radwaste Building Ventilation System
M32	-	Emergency Service Water Pump House Ventilation
	-	System
M33	-	Intermediate Building Ventilation System
M35	-	Turbine Building Ventilation System
M36	-	Off Gas Building Exhaust System
M37	-	Water Treatment Building Ventilation System

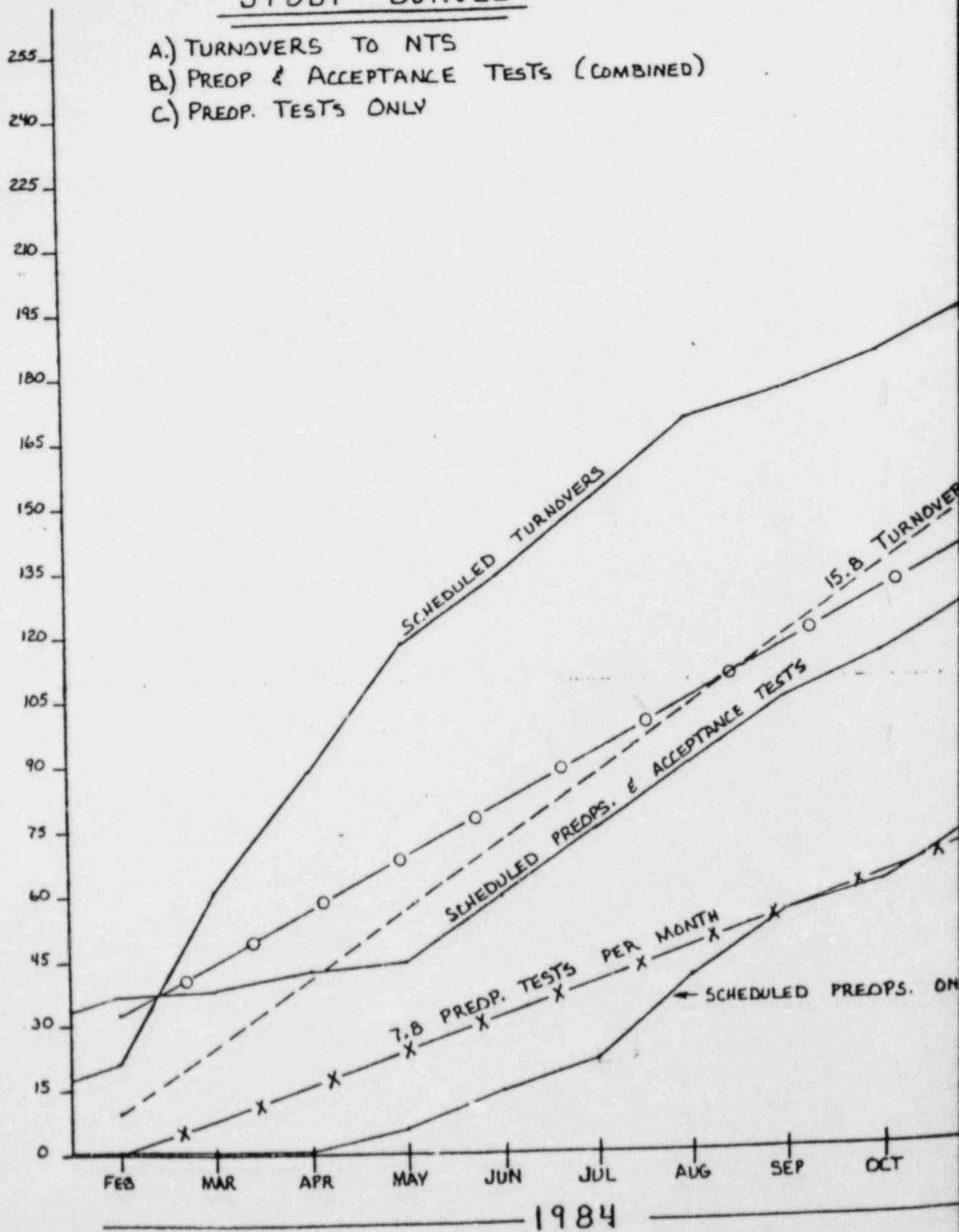
M38	-	Auxiliary Building Ventilation System
M39	-	ECCS Pump Room Cooling System
M40	-	Fuel Handling Area Ventilation System
M41	-	Heater Bay Ventilation System
M42	-	Turbine Power Complex Ventilation System
M43	-	Diesel Generator Building Ventilation System
M44	-	Service Building HVAC Systems
M45	-	Circulating Water Pump House Ventilation System
M46	-	Miscellaneous HVAC Systems
M47	-	Steam Tunnel Cooling System
M48	-	Radwaste Building Control Room HVAC System
M49	-	Miscellaneous Electrical Areas Smoke Venting System
M50	-	Guard House HVAC System
M51	-	Combustible Gas Control System
M52	-	Technical Support Center Ventilation System
<u>N</u>	-	<u>Main Loop System</u>
N11	-	Main & Reheat Steam System
N21	-	Condensate System
N22	-	Main, Reheat, Extraction and Miscellaneous Drains System
N23	-	Condensate Filtration System
N24	-	Condensate Demineralizer System
N25	-	High Pressure Heater Drains and Vents
N26	-	Low Pressure Heater Drains and Vents
N27	-	Feedwater System
N31	-	Turbine
N32	-	Reactor/Turbine Generator Trip System
N33	-	Steam Seal System
N34	-	Lube Oil System
N35	-	Hydrogen Supply System
N36	-	Extraction Steam System
N39	-	Turning Gear System
N41	-	Generator
N42	-	Hydrogen Seal System
N43	-	Generator Stator Cooling System
N51	-	Excitation System
N61	-	Condenser and Auxiliaries
N62	-	Condenser Air Removal System
N64	-	Off Gas System
N71	-	Circulating Water System
<u>P</u>	-	<u>Auxiliary Systems</u>
P11	-	Condensate Transfer and Storage System
P12	-	Condensate Seal Water System
P20	-	Make-Up Water Pretreatment System
P21	-	Two-Bed Water Demineralizer and Distribution System
P22	-	Mixed Bed Demineralizer and Distribution System

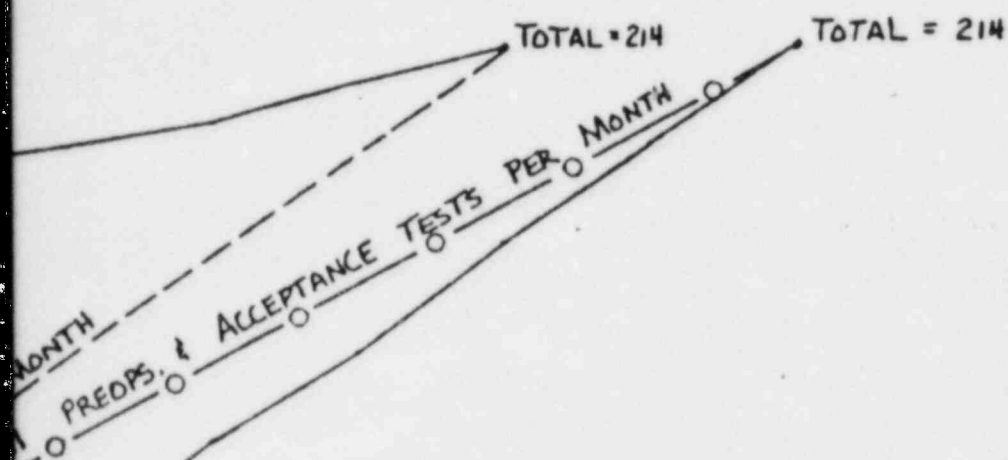
P33	-	Turbine Plant Sampling System
P34	-	Nuclear Sampling System
P35	-	Reactor Plant Sampling System
P40	-	Service Water Screen Wash System
P41	-	Service Water System
P42	-	Emergency Closed Cooling System
P43	-	Nuclear Closed Cooling System
P44	-	Turbine Building Closed Cooling System
P45	-	Emergency Service Water System
P46	-	Turbine Building Chilled Water System
P47	-	Control Complex Chilled Water System
P48	-	Service Water Chlorination System
P49	-	Emergency Service Water Screen Wash System
P50	-	Containment Vessel Chilled Water System
P51	-	Service Air System
P52	-	Instrument Air System
P53	-	Penetration Pressurization System
P54	-	Fire Protection System
P55	-	Building Heating System
P56	-	Plant Security System
P57	-	Safety Related Instrument Air System
P61	-	Auxiliary Steam and Drains System
P62	-	Auxiliary Boiler Fuel Oil System
P63	-	Sanitary Waste Treatment System
P64	-	Industrial Waste Disposal System
P65	-	Auxiliary Boiler Chemical Treatment
P66	-	Sanitary Drain & Sewer System
P67	-	Storm Drain & Sewer System
P68	-	Floor & Equipment Drains System
P71	-	Potable Water Supply System
P72	-	Plant Foundation Underdrain System
P81	-	Pre-Operational Chemical Cleaning
P82	-	Miscellaneous Chemical Treatment Systems
P83	-	Cooling Tower Acid Addition System
P84	-	Hypochlorite Generation, Cooling Tower Feed, and
		Plant Discharge Dechlorination Systems
P86	-	Nitrogen Supply System
P87	-	Post Accident Sampling Systems
<u>R</u>	-	<u>Plant Electrical Systems</u>
R10	-	Plant Electrical System
R11	-	Station Transformers
R13	-	Isolated Phase Bus
R14	-	120 v. A C Vital System (inverters & distribution equipment)
R15	-	Technical Support Center - UPS
R21	-	Non-Segregated Buses
R22	-	Metal Clad Switchgear (15 kv & 5 kv)
R23	-	Load Centers (480 v)
R24	-	Motor Control Centers
R25	-	Distribution Panels (120v, 240v, 480v)

R31	-	Power Cable and Wire
R32	-	Control Cable and Wire
R33	-	Conduits and Trays
R34	-	Grounding System
R35	-	Cathodic Protection
R36	-	Heat Tracing and Anti-Freeze Protection
R37	-	Lightning Protection
R41	-	Instruments
R42	-	D.C. System (Batteries, Chargers, & Switchboards)
R43	-	Standby Diesel Generator
R44	-	Standby Diesel Generator Starting Air System
R45	-	Diesel Generator Fuel Oil System
R46	-	Standby Diesel Generator Jacket Water Cooling System
R47	-	Standby Diesel Generator Lube Oil System
R48	-	Standby Diesel Generator Exhaust, Intake and Crankcase System
R50	-	Outside Radio Communications System
R51	-	Communications System (Intra Plant)
R52	-	Maintenance and Calibration System
R53	-	Exclusion Area Paging System
R61	-	Main Control Room Annunciator System
R62	-	Local Annunciator System
R63	-	Loose Parts Monitoring System
R71	-	Lighting
R72	-	Penetrations - Electrical
R73	-	Connectors - Electrical
R75	-	Diesel Generator Load Test Emergency Power
R76	-	IESS Integrated Loss of Power
<u>S</u>	-	<u>Power Transmission Systems</u>
S11	-	Power Transformers
S31	-	Communications System (carrier)
S41	-	Step-Up Station
S42	-	Transmission Station (By CEI)
<u>T</u>	-	<u>Reactor Building</u>
T23	-	Containment System
T21	-	SUPPRESSION POOL

STUDY CURVES

- A.) TURNOVERS TO NTS
- B.) PREOP & ACCEPTANCE TESTS (COMBINED)
- C.) PREOP. TESTS ONLY



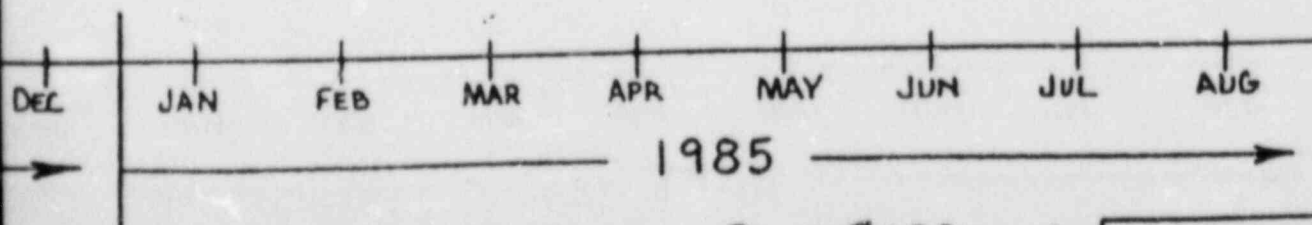


TI APERTURE CARD

LEGEND

- AVERAGE TURNOVERS PER/MO.
- AVERAGE PREOP & ACCEPT. TESTS PER/MO.
- x—x— AVERAGE PREOP. TESTS (ONLY) PER/MO.
- SCHEDULED

E: ALL PREOPS. EXCEPT '3' ARE
SAFETY-RELATED TESTS)



8405250321-01

KWP

2/29/84

WHY PERRY 12 MONTHS PREOP PERIOD (VS. 24)

- CONSTRUCTION VERY HIGH PERCENTAGE COMPLETE RELATIVE TO PREOPS COMPLETE
 - o PROJECT PHILOSOPHY TO REQUIRE ALL HARDWARE COMPLETE WITH DOCUMENTATION AT TURNOVER. SYSTEMS IN HIGH STATE OF COMPLETION AT TURNOVER. ELIMINATE PARELLEL CONSTRUCTION / TEST ACTIVITY WHICH COULD STRETCH OUT EXPECTED TEST PERIOD.
- DESIGNS FINALITY AT TURNOVER
 - o THROUGH FINAL ANALYSIS AND CHANGE REVIEW PRIOR TO TURNOVER
 - o MINIMAL 79-14 IMPACT - INCLUDE ONLY AS BUILT DEVIATIONS - NOT DESIGN ITERATIONS - ~~CUMULATIVE~~ DESIGN VERIFICATION PROGRAMS SHOW SOLID DESIGNS
- STRONG ORGANIZATION
 - o CONSTRUCTION/SYSTEMS COMPLETION WINNING TEAM FROM CALLOWAY 14 MONTHS 10% PREOPS TO FUEL LOAD PERRY AT 10% NOW
 - o QA - VERY SOLID PROGRAM. EXHAUSTIVE ASSESSMENTS AND SURVEYS CONFIRM
 - o TURNOVERS 20 IN LAST 5 WEEKS!
- CAN BEAT INDUSTRY AVERAGE OF 7-8/MONTH (PREOPS)
CURRENT STATE OF CONSTRUCTION WILL SUPPORT 12-13 AVERAGE/
MONTH RANGING UP TO 15/MONTH

- TEST - CONSTRUCTION OVERLAPS SUBSTANTIAL
- IC & R
- INITIAL RUN IN AND OPERATION OF ECCS HARDWARE AND
ROUGH FLUSH. NO SURPRISES WITH CRITICAL HARDWARE
DELAYS USUALLY OCCUR AS THE RESULT OF MAJOR
EQUIPMENT FAILURE DURING INITIAL OPERATION AND
TESTS