************* CLEVELAND ELECTRIC ILLUMINATING COMPANY *************
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D784

T1121 V

****V START TSU 1121 D784 J. T. Repko Room S210 11 25 07 AM 28 FEB 84 PRINTERS SYS AB3G TSU 1121 START V****
****V START TSU 1121 D784 J. T. Repko Room S210 11 25 07 AM 28 FEB 84 PRINTERS SYS AB3G TSU 1121 START V****
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2/28/84 MASTER DEFICIENCY LIST (PROGRAM E7841011) PAGE 1

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
OC99C	4		4
SYSTEM	4		4
OR51C	1	2	3
SYSTEM	1	2	3
UNIT	5	2	7
1B13	121	8	129
SYSTEM	121	8	129
1B21A	2	7	9
1B21C	15		15
1B21D	(7)	(7)	(14)
SYSTEM	24	14	38
1B33		1	1
1B33A	11	8	19
1B33B	3	2	5
1B33C	14	7	21
1B33D	7	7	14
SYSTEM	35	25	60
1C11A	18	22	40
1C11B	76	111	187
1C11C	47	24	71
SYSTEM	141	157	298
1C22	1		1
SYSTEM	1		1
1C34	7	5	12
SYSTEM	7	5	12
1C41	35	19	54
1C41A	8		8
SYSTEM	43	19	62
1C51A	24	19	43
1C51B	13	22	35
1C51C		4	4
1C51D	6	2	8
SYSTEM	43	47	90
1C61	9	12	21
SYSTEM	(9)	(12)	(21)
1C71A	25	5	30
1C71B	3		3
SYSTEM	28	5	33
	16	19	35

(X) PPD

Systems to NTS

Systems to PPD [redacted]

CC - Constr Completion
DC - Design Changes
NR - Non conformance, Deficiency Reports
SW - Soft ware
ME - Missing, Damaged, Broken Equipment

100% CC

70% DC 30% NR

Total

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
1C85	6	1	7	50% DC 50% CC
SYSTEM	(6)	(1)	(7)	
1C91	15	80	95	50% DC 50% CC
SYSTEM	(15)	(80)	(95)	
1C94	2		2	
SYSTEM	2		2	
1C95	7	1	8	
1C95A	5		5	
1C95B	1		1	
1C95C	2		2	
1C95D	1	1	2	
1C95K	1		1	
1C95L	1		1	
1C95Z	1		1	
SYSTEM	19	2	21	
1D17		1	1	
1D17B	2		2	
1D17E	2		2	
1D17G	2		2	
1D17H	1		1	
1D17U	1		1	
1D17Y	1		1	
SYSTEM	9	1	10	
1D23	1		1	
SYSTEM	1		1	
1E12	1		1	
1E12A	360	390	750	
1E12B	351	311	662	
1E12C	114	97	211	
SYSTEM	826	798	1,624	
1E15	4	6	10	50% DC 50% SW
SYSTEM	(4)	(6)	(10)	
1E21	197	193	390	
SYSTEM	197	193	390	
1E22A	112	260	372	
1E22B	14	1	15	
SYSTEM	126	261	387	
1E31	11	1	12	
SYSTEM	11	1	12	
	25	87	112	Total

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
1E51A	75	53	128	
1E51B	63	77	140	
1E51C	73	56	129	
SYSTEM	211	186	397	
1E61		1	1	
SYSTEM		1	1	
1F11	44	2	46	
SYSTEM	44	2	46	
1F14	1	1	2	
SYSTEM	1	1	2	
1F15	19		19	
SYSTEM	19		19	
1F16	6	7	13	
SYSTEM	6	7	13	
1F17	4	1	5	
YSTEM	4	1	5	
1F42	7	3	10	
SYSTEM	7	3	10	
1G33	182	27	209	
SYSTEM	182	27	209	
1G36	141	28	169	
SYSTEM	141	28	169	
1G41A	152	64	216	
1G41B	(36)	(196)	(232)	70% CC 20% DC 10% ME
SYSTEM	188	260	448	
1G42	60	145	205	
SYSTEM	60	145	205	
1G43	44	6	50	
SYSTEM	44	6	50	
1G50A	(51)	(324)	(375)	80% CC 10% DC 10% NR
1G50B	26	361	387	90% CC 10% NR
1G50C	77	417	494	60% CC 20% NR 20% ME
1G50D	27	132	159	
1G50E	(6)	(69)	(75)	30% SW 30% DR 10% CC 30% DC
1G50F	55	11	66	
SYSTEM	212	1,344	1,556	
	196	1367	1563	Total

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
1G51	200	4	204	
SYSTEM	200	4	204	
[redacted]	[redacted]	12	12	90% CC 10% ME
1G61A	33	219	252	
1G61B	7	11	18	
1G61C	13	8	21	
1G61D	6	1	7	
SYSTEM	59	239	298	
1H13	805	611	1,416	
SYSTEM	805	611	1,416	80% PC 10% NR 5% ME 5% CC
[redacted]	[redacted]	[redacted]	[redacted]	50% CC 50% ME
IL51C	13	31	44	100% ME
IL51D	2	6	8	50% NR 50% ME
IL51E	7	10	17	50% PC 50% ME
[redacted]	[redacted]	[redacted]	[redacted]	30% CC 35% ME 35% SW
IL51H	5	33	38	80% CC 20% SW
IL51X	1	10	11	
SYSTEM	38	130	168	
IL56	4		4	
SYSTEM	4		4	
IM11	33	25	58	
SYSTEM	33	25	58	
IM13	36	6	42	
SYSTEM	36	6	42	
IM14	60	11	71	
SYSTEM	60	11	71	
IM15	79	23	102	
SYSTEM	79	23	102	
IM16	8	1	9	
SYSTEM	8	1	9	
IM17	12		12	
SYSTEM	12		12	
IM21	74	36	110	
SYSTEM	74	36	110	
	868	952	1820	Total
	0	52	62	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
1M23	22	14	36	
SYSTEM	22	14	36	
1M24	37	7	44	
SYSTEM	37	7	44	
1M25	18	25	43	
SYSTEM	18	25	43	
1M26	11	9	20	
SYSTEM	11	9	20	
1M27	14	6	20	
SYSTEM	14	6	20	
1M28	15	14	29	
SYSTEM	15	14	29	
1M29	16		16	
SYSTEM	16		16	
1M31	13	22	35	
SYSTEM	(13)	(22)	(35)	80% DC 20% CC
1M32	16		16	
SYSTEM	16		16	
1M33	5	11	16	
SYSTEM	(5)	(11)	(16)	100% CC
1M35	8	50	58	
SYSTEM	(8)	(50)	(58)	80% 10% SW 10% ME
1M36	22	11	33	
SYSTEM	22	11	33	
[redacted]				
1M38	19	9	28	
SYSTEM	(19)	(9)	(28)	50% 50% DC
1M39A	21	1	22	
1M39B	17	2	19	
SYSTEM	38	3	41	
1M40	23	6	29	
SYSTEM	23	6	29	
1M41	2	27	29	
SYSTEM	(2)	(27)	(29)	50% CC 50% DC
	47	186	233	Total
	0	67	67	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
1M42	1	28	29	50% DC 50% CC
SYSTEM	(1)	(28)	(29)	
1M43	16	1	17	
SYSTEM	16	1	17	
1M45		7	7	
SYSTEM	(E)	(7)	(7)	
[redacted]				100% SW
				65% SW 35% ME
				50% CC 50% SW
1M46F	1		1	
SYSTEM	13	19	32	
[redacted]				50% CC 50% SW
1M48	1	6	7	100% SW
SYSTEM	(1)	(6)	(7)	
[redacted]				100% SW
1M51	73	1	74	
1M51A	12		12	
SYSTEM	85	1	86	
1M56	1	2	3	
SYSTEM	1	2	3	
1N11A	22	2	24	
1N11B	122	253	375	
SYSTEM	144	255	399	
1N21	65	377	442	70% SW 30% CC
SYSTEM	(65)	(377)	(442)	
1N22		3	3	
SYSTEM		3	3	
1N23	28	174	202	50% DC 50% CC
SYSTEM	(28)	(174)	(202)	
1N24	89	247	336	50% CC 50% SW
SYSTEM	(89)	(247)	(336)	
1N25	9	1	10	
SYSTEM	9	1	10	
	199	878	1077	Total
	15	39	54	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
IN26	1	1	2	
SYSTEM	1	1	2	
IN27		1	1	
IN27A	140	382	522	20% DC 20% NR 20% CC 20% ME 20% SW
IN27B	82	20	102	
SYSTEM	222	403	625	
[redacted]				75% CC 25% SW
IN32	6	6	12	
SYSTEM	6	6	12	
IN33	35	26	61	
SYSTEM	35	26	61	
[redacted]				60% SW 40% ME 50% SW 30% CC 20% DC
IN35		5	5	
IN35A	4	3	7	50% SW 50% DC
IN35B	5	29	34	
SYSTEM	9	37	46	
IN36	22	3	25	
SYSTEM	22	3	25	
IN39		7	7	
SYSTEM	0	7	7	
IN41	8	2	10	
SYSTEM	8	2	10	60% DC 40% CC
[redacted]		40	52	50% SW 50% CC
IN43	35	55	90	
SYSTEM	35	55	90	
IN51		1	1	
SYSTEM		1	1	
IN61	31	652	683	
SYSTEM	31	652	683	90% CC 10% SW
IN62	5		5	
SYSTEM	5		5	
	238	1280	1518	Total
	54	208	262	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SUBSYSTEM PACKAGE	OPEN	CLOSED	TOTAL	
IIR4	1		1	
IIG4A	11	71	82	
IIG4C	32	3	35	
SYSTEM	44	74	118	
IIJ1	30	512	542	
SYSTEM	30	512	542	50% CC 30% DC 20% SW
IP11A	6	21	27	
IP11B	4	8	12	
IP11C	7	17	24	
IP11D	3	14	17	
IP11E	6	70	76	
SYSTEM	20	130	150	30% CC 10% SW 20% ME 20% DC 20% DC
IP12A	3	9	12	30% SW 40% CC 30% ME
IP12B	1	17	18	100% SW
SYSTEM	4	26	30	
[redacted]				80% CC 10% ME 10% SW
SYSTEM				50% SW 50% DC
[redacted]				20% CC 50% DC 30% SW
IP21B	7	52	59	50% SW 30% ME 20% CC
SYSTEM	18	260	278	
[redacted]				80% DC 20% SW
SYSTEM	27	116	143	50% CC 20% SW 30% DC
IP33	23	17	40	
SYSTEM	23	17	40	
IP34	0		0	
SYSTEM	0		0	
[redacted]				75% SW 25% ME
IP41A	18	260	278	50% CC 50% DC
IP41B	1	4	5	100% SW
SYSTEM	19	264	283	
IP42A	42	134	176	
IP42B	39	141	180	
SYSTEM	81	275	356	
IP43	1		1	
IP43A	28	109	137	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	
IP43B	22	47	69	30% DC 30% CC 40% SW
IP43C	60	60	150	
SYSTEM	141	216	357	
[redacted]	[redacted]	[redacted]	[redacted]	50% SW 50% DC
IP45		8	8	
IP45A	69	171	240	
IP45B	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	5	120	126	80% NR 20% CC
IP49B	5	114	119	60% NR 40% CC
SYSTEM	10	234	244	
~~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	73	85	
IP51F	18	29	47	
IP51G	1	0	1	
IP51H	4	3	7	
IP51I	29	0	29	
IP51J	1	0	1	
SYSTEM	74	133	207	
IP52A	4	48	52	90% SW 10% DC
IP52B	8	16	24	50% 50% CC
IP52C	29	3	32	
SYSTEM	41	67	108	
IP54A	12	121	33	100% CC
IP54B	26	30	36	100% CC
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	
IP54E	102	5	107	
IP54F	(28)	(70)	(98)	100% CC
IP54H	1	35	35	
IP54I	1		1	
IP54K	6	1	7	
SYSTEM	180	926	1,105	
IP55	10	2	12	
IP55A	(22)	(194)	216	
IP55B	(4)	(52)	(56)	
IP55C	(13)	(57)	(70)	90% CC 10% SW
IP55D	(3)	(19)	(22)	
SYSTEM	52	324	376	
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	(7)	(21)	(28)	100% CC
SYSTEM	35	248	283	
[redacted]				100% SW
[redacted]				100% CC
[redacted]				
[redacted]				
SYSTEM				
IP67	1		1	
SYSTEM	1		1	
IP71	17	1	18	
SYSTEM	17	1	18	
IP81	7	19	26	
SYSTEM	(7)	(19)	(26)	100% SW
[redacted]				80% ME 20% SW
	116	807	923	Total
	11	150	161	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
1PR4A	15	77	92	100% SW
1PR4B	8	6	14	
1PR4C	0	2	2	
SYSTEM	23	85	108	
1PR6	6	1	7	
SYSTEM	6	1	7	
1PR7	1		1	
SYSTEM	1		1	
[illegible]	[illegible]	[illegible]	[illegible]	80% CC 20% SW
SYSTEM	[illegible]	[illegible]	[illegible]	
1R13A	16		16	
SYSTEM	16		16	
[illegible]	[illegible]	[illegible]	[illegible]	100% CC 100% DC 100% SW
SYSTEM	2	11	13	
1R15		3	3	
1R15A	1	0	1	100% SW
1R15B	1	0	1	
SYSTEM	2	3	5	
1R22	2	22	24	
[illegible]	[illegible]	[illegible]	[illegible]	30% NR 30% CC 30% DC 10% SW
1R22F	18	[illegible]	91	
1R22G	28	86	114	
1R22H	18	23	41	
[illegible]	[illegible]	[illegible]	[illegible]	
1R22R	2		2	
1R22Z	1		1	
SYSTEM	91	295	386	
[illegible]	[illegible]	[illegible]	[illegible]	50% NR 30% DC 20% SW
	124	500	624	Total
	23	175	198	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
[redacted]				
1R23K	7	[illegible]	[illegible]	D22 Diesel page
1R23L	10	16	26	
1R23M	14	15	29	
1R23N	12	17	29	
1R23P	7	13	20	
1R23Q	2	8	10	
1R23S		2	2	
SYSTEM	67	172	239	
1R24A	7	20	27	
1R24B	7	40	47	
1R24C	9	17	26	
1R24D	9	33	42	
1R24E	1	16	17	
1R24F	6	18	24	
[redacted]				80% SW 20% CC
1R24Z	1	1	2	
SYSTEM	51	257	308	
1R25	2	3	5	
1R25A	4	6	10	
1R25B	1	7	8	
1R25C	7	12	19	80% CC 20% NR
1R25E		3	3	
1R25G	3	4	7	
1R25W		1	1	
SYSTEM	17	36	53	
1R34	1	2	3	
SYSTEM	1	2	3	
1R36		2	2	
1R36A	7	1	8	
1R36B	5	8	13	
1R36C	11		11	
1R36D	6		6	100% CC
1R36E	5	5	10	
1R36F	1		1	
SYSTEM	35	16	51	
	152	415	567	Total
	14	110	124	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
1R42		6	6
[redacted]			
1R42K	6	9	15
1R42L	4	1	5
1R42M	7		7
1R42N	17	3	20
1R42P	9	3	12
1R42Q	7		7
1R42R	14	1	15
1R42S	9	11	20
1R42T	11		11
SYSTEM	104	116	220
1R43	3		3
1R43A	7		7
1R43B	5		5
SYSTEM	15		15
1R44		3	3
1R44C	3		3
SYSTEM	3	3	6
1R45	9	3	12
1R45A	2		2
1R45B	1		1
1R45C	2		2
SYSTEM	14	3	17
1R46	1		1
1R46C	3		3
SYSTEM	4		4
1R47C	1		1
SYSTEM	1		1
1R51	19	70	89
1R51A	9	13	22
1R51B	7		7
1R51C	18	5	23
1R51D	2	2	4
1R51E	3		3
1R51F	13	3	16
	73	96	169 Total
	9	73	82 PPC

50% SW 30% NR 20% CC

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
1R51G	2		2	
SYSTEM	73	93	166	
1R52A	7	29	36	90% CC 10% DR
1R52B	3	13	16	
1R52C	3	9	12	
1R52D	3	23	26	
SYSTEM	16	74	90	
[redacted]				100% SW
1R61	5	36	41	100% ME
SYSTEM	5	36	41	
1R63	2		2	
SYSTEM	2		2	
1R72	8		8	
SYSTEM	8		8	
[redacted]				50% CC 50% SW
1S11C	3	24	27	
SYSTEM	22	85	114	
[redacted]				50% CC 20% DC 30% SW
1121	63	72	135	
SYSTEM	63	72	135	
UNIT	7,573	14,329	21,902	
2B13	1		1	
SYSTEM	1		1	
2B21	11		11	
SYSTEM	11		11	
2B33	1	3	4	
2B33A	2		2	
2B33B	2		2	
2B33C	8	5	13	
2B33D	2	2	4	
SYSTEM	15	10	25	
2C11A	6		6	
2C11B	5		5	
2C11C	3		3	
SYSTEM	14		14	
	64	234	298	Total
	29	77	106	PPD

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
2C34	5	2	7
SYSTEM	5	2	7
2C51A	6	4	10
2C51B	6	6	12
2C51D	5	5	10
SYSTEM	17	15	32
2C61	6		6
SYSTEM	6		6
2C71B	4		4
SYSTEM	4		4
2C91	2	2	4
SYSTEM	2	2	4
2D17N	1		1
SYSTEM	1		1
2D21	1		1
SYSTEM	1		1
2E12	21		21
2E12A	5		5
2E12B	2		2
2E12C	6		6
SYSTEM	34		34
2E15	1	42	43
SYSTEM	(1)	(42)	(43) 100% SW
2E21	9		9
SYSTEM	9		9
2E22A	11		11
2E22B	7		7
SYSTEM	18		18
2E31	2		2
SYSTEM	2		2
2E32	2		2
SYSTEM	2		2
2E51	4		4
SYSTEM	4		4
2F13		2	2
SYSTEM		2	2
	1	42	43 Total

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
2F15	8		8	
SYSTEM	8		8	
2F16	1		1	
SYSTEM	1		1	
2F42	4		4	
SYSTEM	4		4	
2G41	1		1	
SYSTEM	1		1	
2G43	2		2	
SYSTEM	2		2	
2G50B	1		1	
2G50E	1		1	
2G50F	1		1	
SYSTEM	3		3	
2G60	1		1	
SYSTEM	1		1	
2G61	4		4	
SYSTEM	4		4	
2H13	512	138	650	
SYSTEM	512	138	650	90% DC 5% CC 5% NR
2L51A	3	27	30	
2L51B	2	33	35	
2L51C	19	26	45	50% CC 20% ME 30% NR
2L51E	2	15	17	
SYSTEM	26	101	127	
2M14	18		18	
SYSTEM	18		18	
2M15	21		21	
SYSTEM	21		21	
2M35	4		4	
SYSTEM	4		4	
2M36	2		2	
SYSTEM	2		2	
2M38	2		2	
SYSTEM	2		2	
	538	239	777	Total

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
2M42	1	4	5	
SYSTEM	(1)	(4)	(5)	100% CC
2M46D	1		1	
SYSTEM	1		1	
2M49	1		1	
SYSTEM	1		1	
2M51	10		10	
2M51A	1		1	
2M51B	1		1	
SYSTEM	12		12	
2N11A	1		1	
2N11B	2		2	
SYSTEM	3		3	
2N21	7	2	9	
SYSTEM	7	2	9	
2N23	10		10	
SYSTEM	10		10	
2N24	21	6	27	
SYSTEM	21	6	27	
2N25	1		1	
SYSTEM	1		1	
2N27	13	1	14	
2N27A	1		1	
SYSTEM	14	1	15	
2N31	3		3	
SYSTEM	3		3	
2N32	1		1	
SYSTEM	1		1	
2N33	2		2	
SYSTEM	2		2	
2N34A	2		2	
SYSTEM	2		2	
2N36	4		4	
SYSTEM	4		4	
2N42	1		1	
SYSTEM	1		1	
	1	4	5	Total

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL
2N62	1		1
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	29	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	
2P84A		1	1	
SYSTEM		1	1	
2R11A	7	2	9	
2R11B	10	2	12	100% CC
2R11C	10	28	38	
SYSTEM	27	32	59	
2R15		3	3	
2R15A	2		2	
2R15B	1		1	50% SW 50% NR
SYSTEM	3	3	6	
2R22	10	12	22	
2R22A	2	8	10	
2R22B	7	2	9	
2R22C	6	2	8	
2R22D	2	2	4	50% CC 50% NR
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		1	1	
SYSTEM	120	92	212	
2R23	5	4	9	
2R23A	4	8	12	60% CC 40% NR
2R23B	1	5	6	
	154	141	295	Total

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
2R23C		13	13	
2R23D	4	5	9	
2R23E	4	1	5	
2R23F	3	2	5	
2R23G	3	5	8	See prev. page
2R23H	3		3	
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	60% CC 40% NR
2R24B	10	4	14	
2R24C	8	2	10	
2R24D	13	5	18	
SYSTEM	45	12	57	
2R42A	3	7	10	80% CC 20% NR
2R42B	2	5	7	
2R42C		2	2	
SYSTEM	5	14	19	
2511A	4	24	28	100% CC
SYSTEM	4	24	28	
UNIT	1,206	674	1,880	
FINAL TOT	8,873	15,005	23,878	

23,878 RECORDS TOTALED

173 136 309 Total

3357 9884 13241 Total All Systems

208 1592 1800 Total PPD Systems

3141 8292 11441 Total NPD Systems

SUMMARY OF ITEMS OPEN AND CLOSED BY SYSTEM

SCOPING PACKAGE	OPEN	CLOSED	TOTAL	
2R23C		13	13	
2R23D	4	5	9	
2R23E	4	1	5	
2R23F	3	2	5	
2R23G	3	5	7	see prev. page
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	60% CC 40% NR
2R24B	10	4	14	
2R24C	8	2	10	
2R24D	13	5	18	
SYSTEM	45	12	57	
2R42A	3	7	10	80% CC 20% NR
2R42B	2	5	7	
2R42C	[illegible]	[illegible]	[illegible]	
SYSTEM	5	14	19	
2S11A	4	24	28	100% CC
SYSTEM	4	24	28	
UNIT	1,356	674	1,969	
FINAL TOT	8,873	15,005	23,878	

23,878 RECORDS TOTALED

173 136 309 Total

3357 9884 13241 Total All Systems

2.08 1592 1800 Total PPD Systems

3141 8292 1144[illegible] Total [illegible] Systems

PERRY NUCLEAR POWER PLANT

MAJOR PROJECT MILESTONES (UNIT #1)

COMPLETED 1983 MILESTONES

MILESTONES	SCHEDULED	ACTUAL
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

MILESTONES	FORECAST EARLY	FORECAST LATE
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

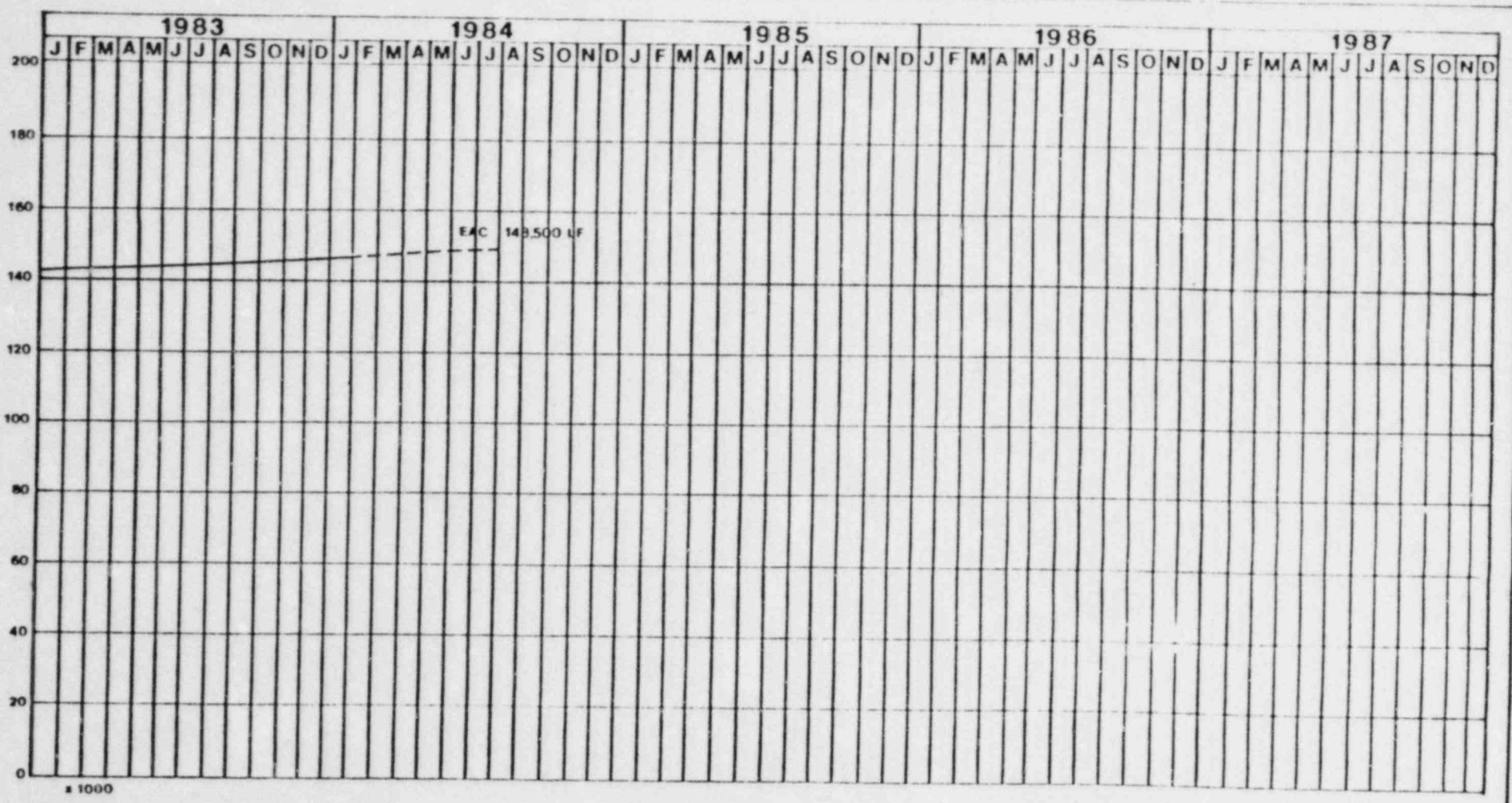
The following status of Areas 1 through 5 is based on Project Schedule calculations which include the turnover changes inherent to the Test Authorization Program. Time (critical path) calculations do not reflect the sequence and scope of the deferred construction work between the Test Authorization date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



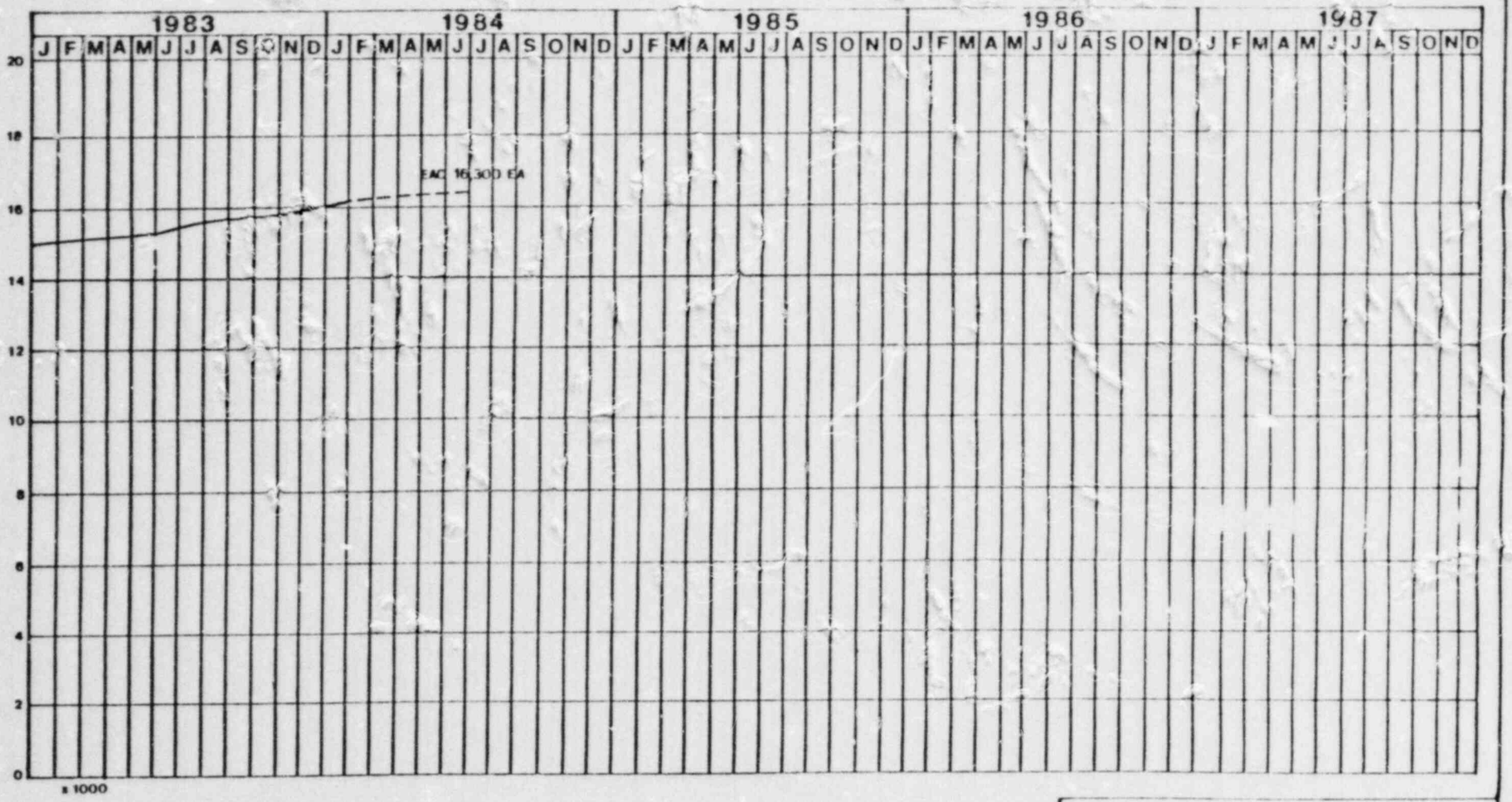
ACTUAL: ————

SCHEDULED: - - - - - -

NO.	REVISION	DATE		DATE

PROJECT SCHEDULING

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



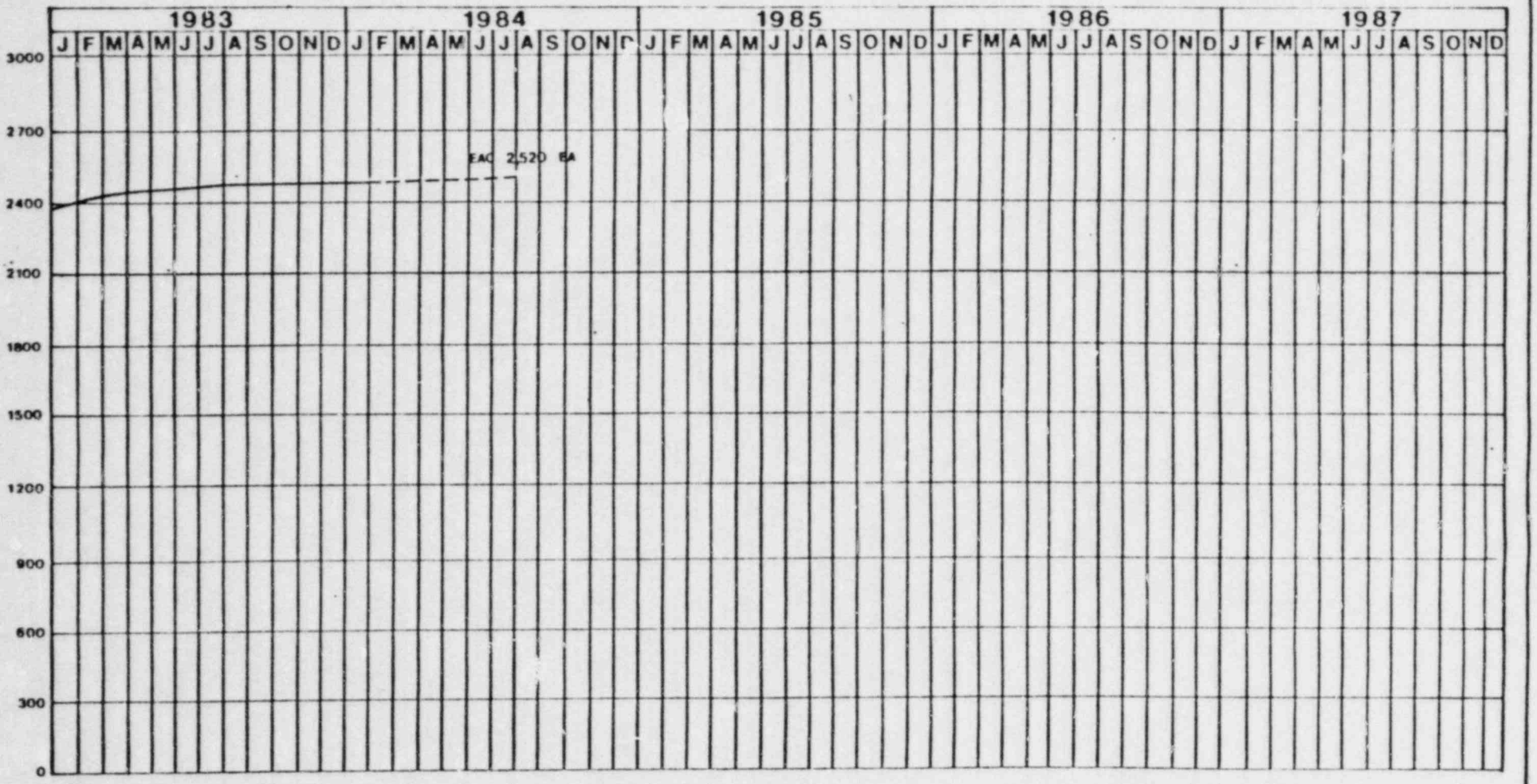
ACTUAL: ————

SCHEDULED: - - - - - - -

NO.	REVISION	DATE		DATE

PROJECT SCHEDULING

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



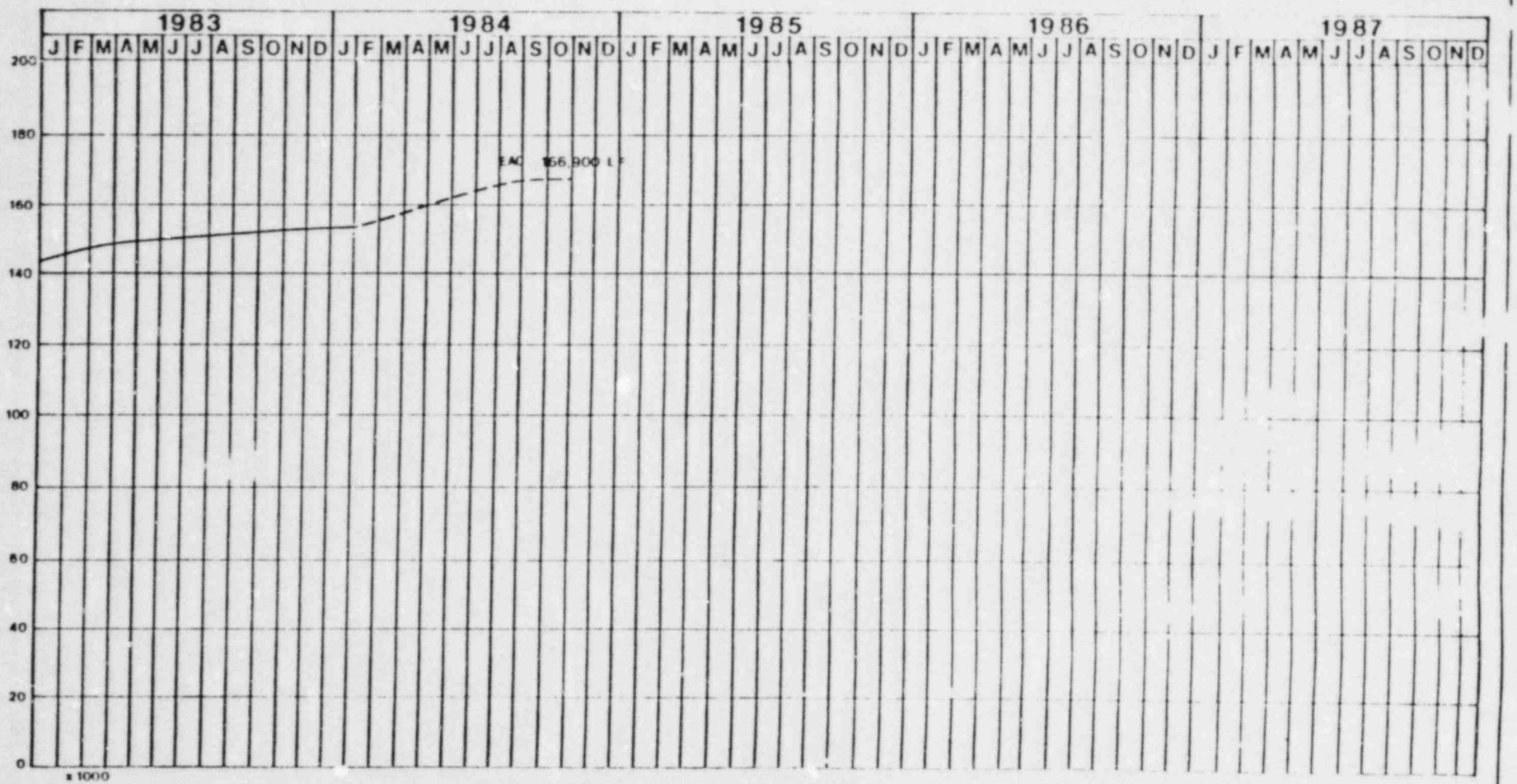
ACTUAL: ————

SCHEDULED: - - - - - - -

NO.	REVISION	DATE		DATE

PROJECT SCHEDULING

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



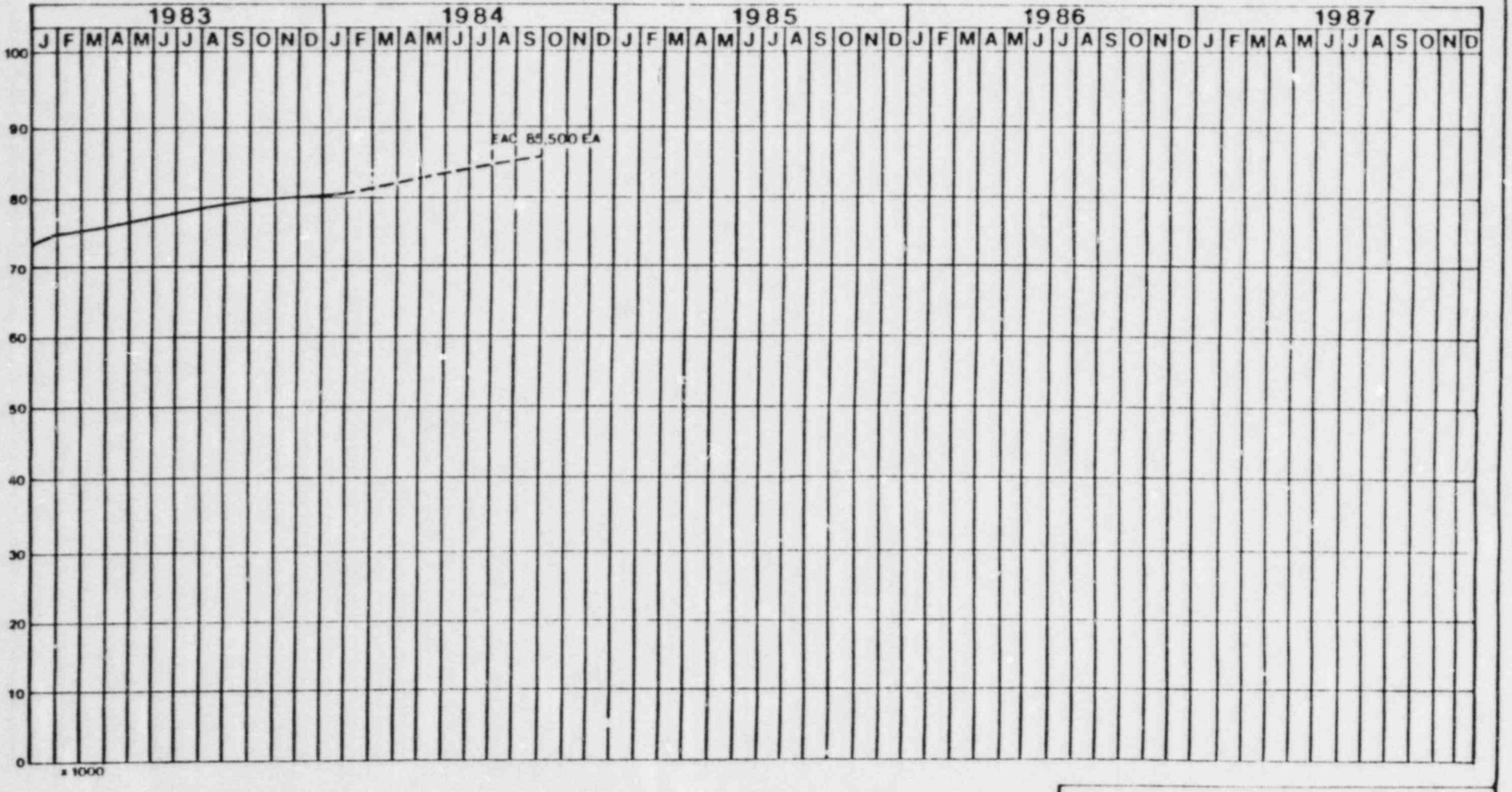
ACTUAL: ———

SCHEDULED: - - - - - - -

NO	REVISION	DATE	DATE

PROJECT SCHEDULING

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



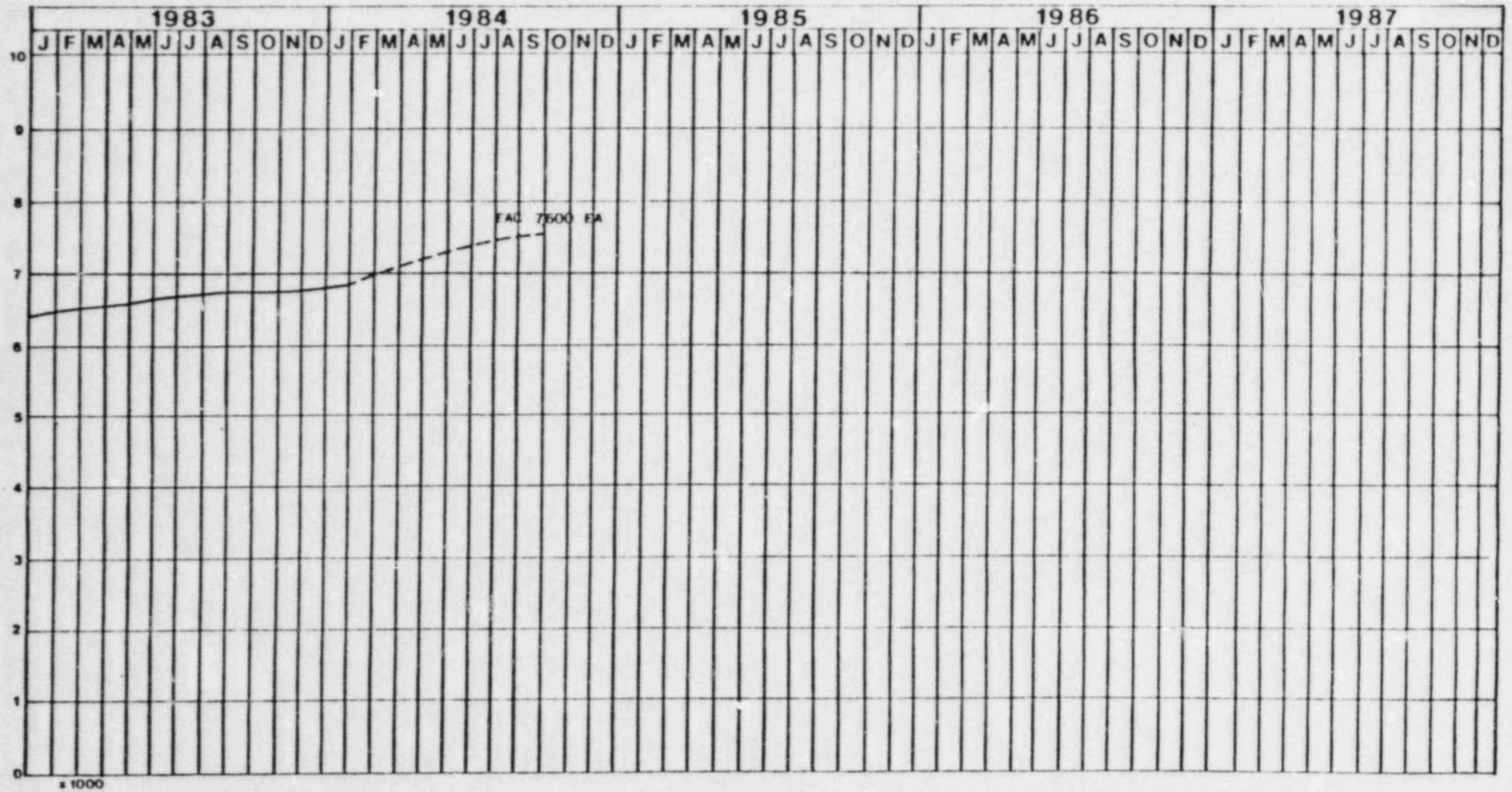
ACTUAL: ————

SCHEDULED: - - - - - - -

NO.	REVISION	DATE		DATE

PROJECT SCHEDULING

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



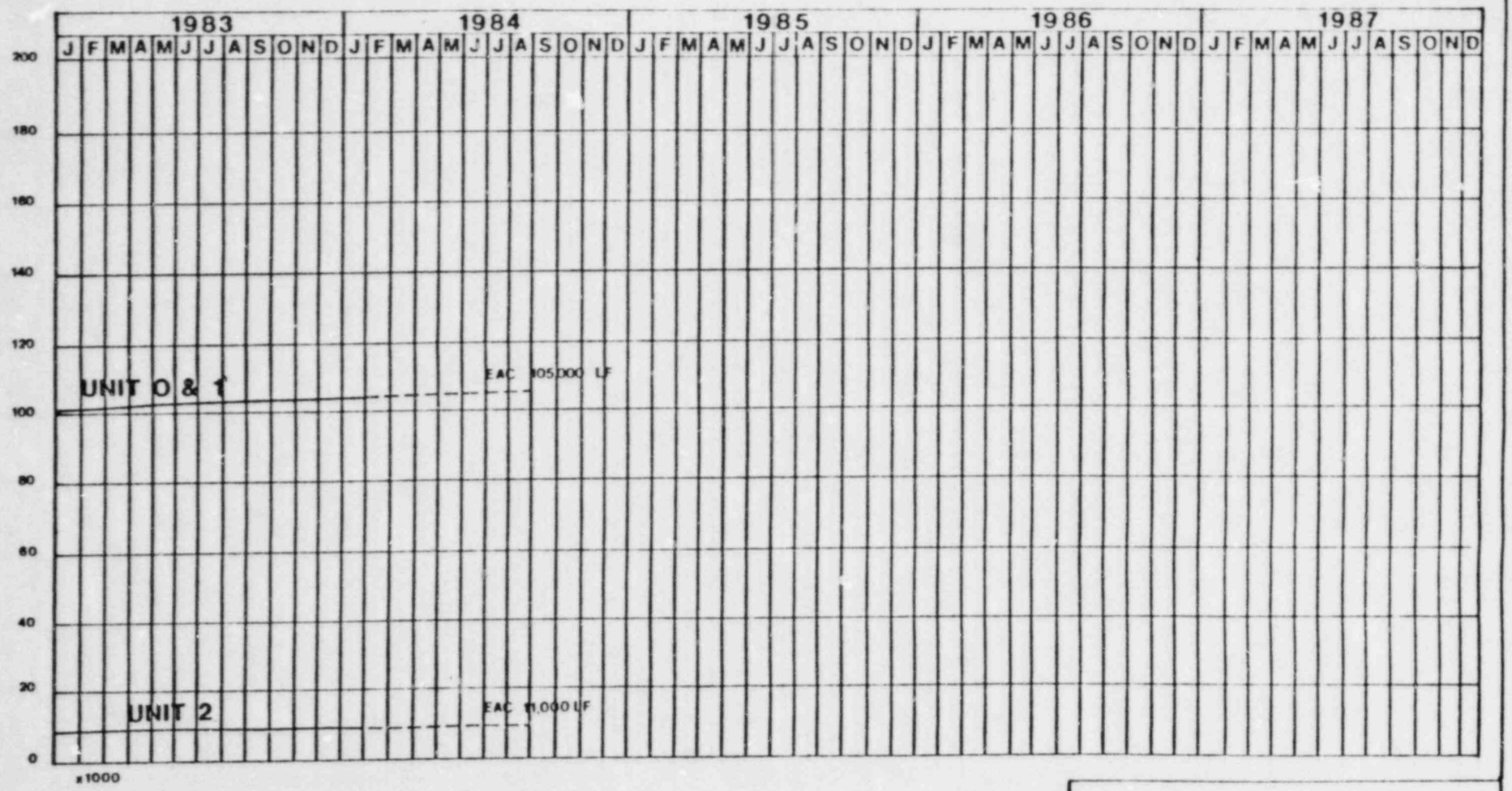
ACTUAL: ————

SCHEDULED: - - - - - - -

NO.	REVISION	DATE		DATE

PROJECT SCHEDULING

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



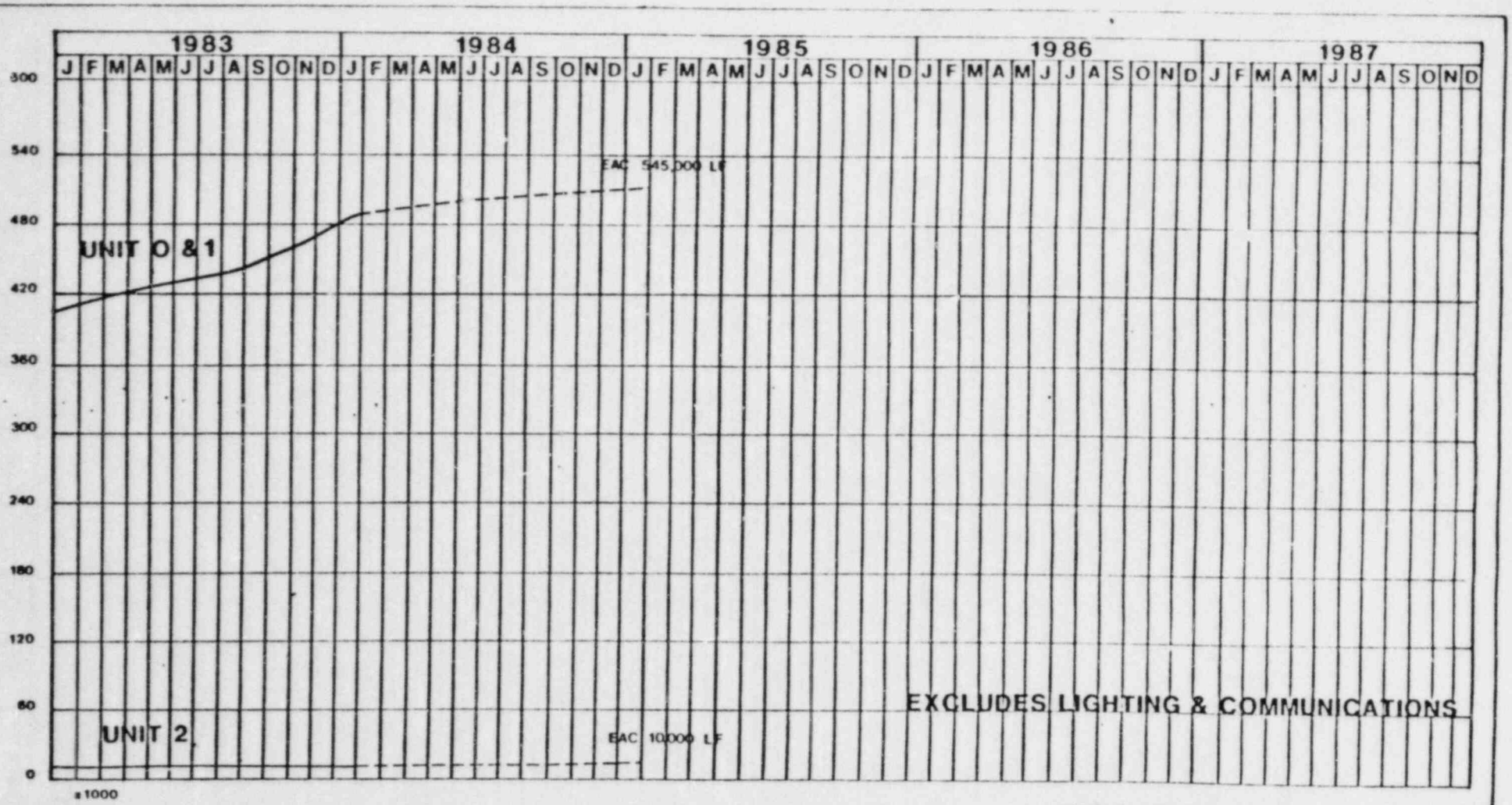
ACTUAL: ————

SCHEDULED: - - - - - -

NO.	REVISION	DATE		DATE

PROJECT SCHEDULING

SP.33/34 CABLE TRAY
FOR UNIT 1 OPERATION



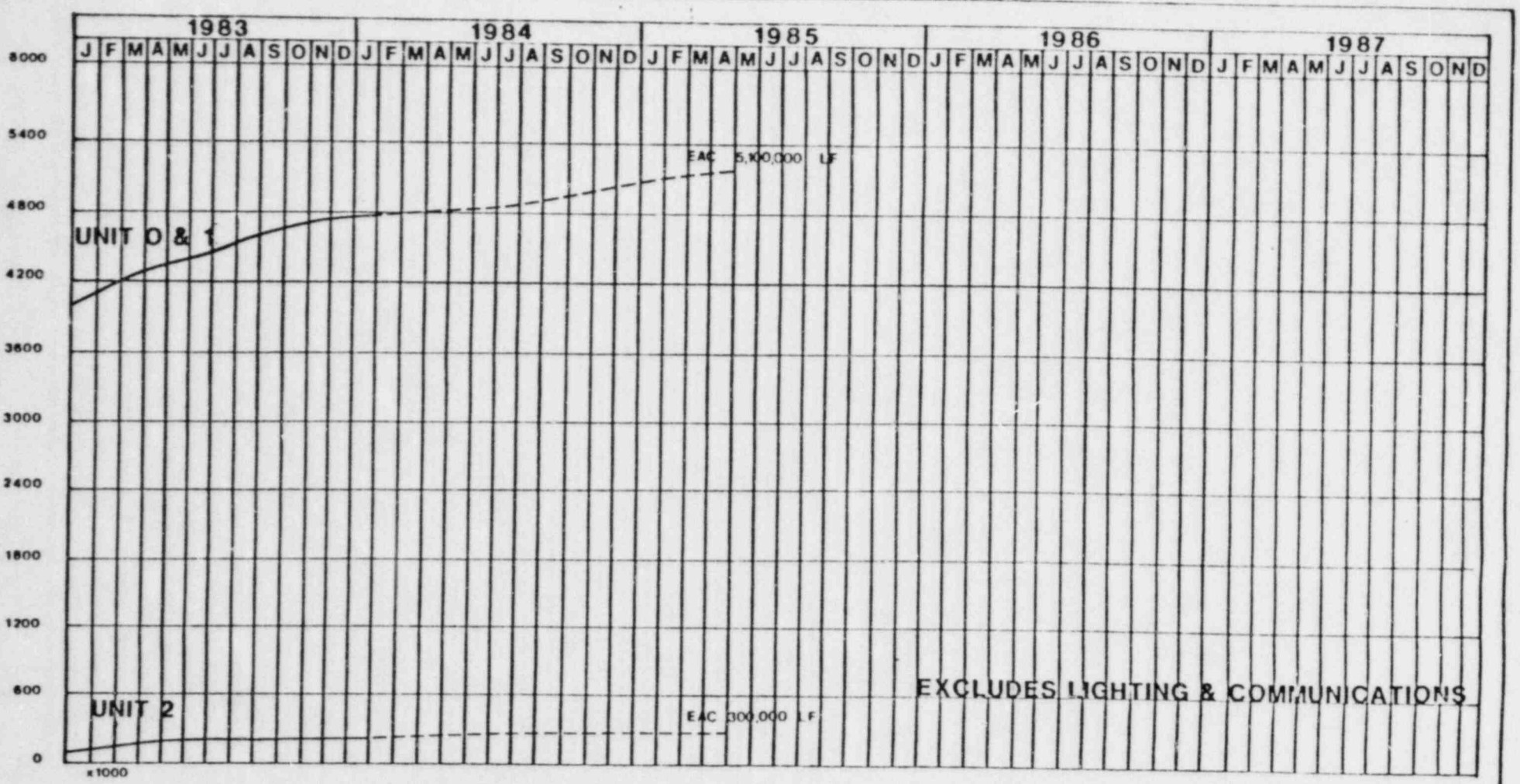
ACTUAL: ———

SCHEDULED: - - - - - -

NO.	REVISION	DATE		DATE

PROJECT SCHEDULING

SP.33/34 CONDUIT FOR UNIT 1 OPERATION



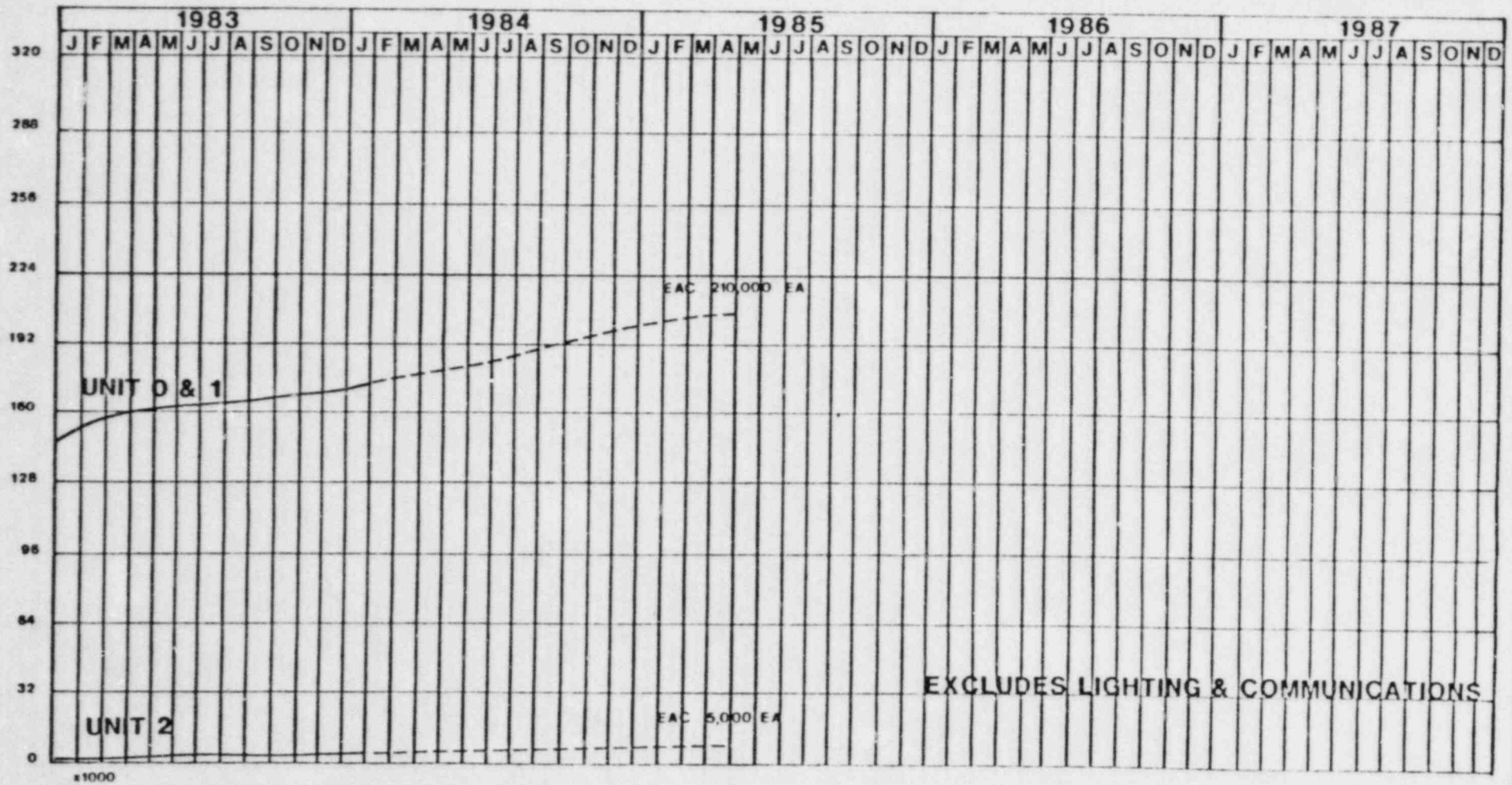
ACTUAL: ———

SCHEDULED: – – – – –

NO.	REVISION	DATE		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

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

G-2
REV. 1-82

MEMORANDUM

☐ I no longer wish to receive this material.

TO See Attached List ROOM

FROM Construction Planning
E.Morgan/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&CNTL COMPLETE	HVAC COMPLETE	79-14 REVIEW & DOCUMENTS	T/B TO NTS	T/B 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 EIC 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	84/06/17	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	84/09/28		84/10/05	84/11/05	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	84/03/07
C34		84/03/09	84/03/09			84/03/23	84/03/28
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	85/05/07
C51C		84/09/14				85/03/15	85/05/24
C51D		84/11/23				85/03/15	85/05/07
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 EIC 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	85/02/08
C95B SPEC 73						83/11/11	85/02/08
C95C SPEC 73						82/12/16	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						84/08/03	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
D17A		84/06/15	84/06/15			84/08/10	84/11/02
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	85/01/18
D17L		84/09/14	84/09/14			84/11/09	85/02/01
D17M		84/09/28	84/09/28			84/11/23	85/03/15
D17N		84/10/05	84/10/05			84/11/30	85/03/01
D17O		84/09/28	84/09/28			84/11/23	85/03/15
D17P		84/10/12	84/10/12			84/12/07	85/03/29
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&CNTL 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
E15&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	84/12/28
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	85/03/08

SYSTEM SUBSYSTEM	PIPING COMPLETE	ELECT COMPLETE	INSTR&CNTL COMPLETE	HVAC 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	84/09/21
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						82/07/23(A)	82/12/12(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						82/12/18(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							83/05/25(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	84/07/05
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						82/03/15(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
N32 SP43						84/11/23	85/04/19
N34A						82/12/13(A)	83/06/03(A)
N34B						82/06/28(A)	83/06/03(A)
N35A	84/03/02	84/03/02	84/03/02			84/03/16	84/05/29
N35B						83/01/13(A)	84/05/29
N36	84/01/06	84/04/13	84/04/13			84/04/27	84/11/09
N39						82/09/15(A)	83/05/03(A)
N41						82/06/30(A)	W/A
N42						82/11/11(A)	83/06/03(A)

SYSTEM / SUBSYSTEM	PIPING COMPLETE	ELECT COMPLETE	INSTR&CNTL COMPLETE	HVAC COMPLETE	79-14 REVIEW & DOCUMENTS	T/D TO NTS	T/D 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)	84/05/25
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	84/06/06
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	84/05/15
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	84/06/24	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&CNTL COMPLETE	HVAC COMPLETE	79-14 REVIEW & DOCUMENTS	T/0 TO NTS	T/0 TO PPD
P52A						81/09/04(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						82/10/31(A)	84/09/14
P54B						82/11/06(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						82/12/22(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						83/06/21(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)	85/01/18
P86	84/01/13	84/01/27	84/01/27		84/04/13	84/04/13	84/06/18
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						83/06/11(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 / SUBSYSTEM	PIPING COMPLETE	ELECT COMPLETE	INSTR&CNTL COMPLETE	HVAC COMPLETE	79-14 REVIEW & DOCUMENTS	T/O TO NTS	T/O TO OPD
R24B						83/01/28(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						82/01/12(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 / SUBSYSTEM	PIPING COMPLETE	ELECT COMPLETE	INSTR&CNTL COMPLETE	HVAC COMPLETE	79-14 REVIEW & DOCUMENTS	T/O TO NTS	T/O TO PPD
R48A	84/02/03				84/05/04	84/05/04	85/05/31
R48B	84/02/03				84/05/04	84/05/04	85/05/31
R48C	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
R516						W/A	W/A
R529						83/03/14(A)	W/A
R52B						83/03/14(A)	W/A
R52C						82/12/06(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
R58						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)						83/08/25(A)	W/A
2R24C(CR)						83/09/20(A)	W/A

SYSTEM / SUBSYSTEM	PIPING COMPLETE	ELECT COMPLETE	INSTR&CNTL COMPLETE	HVAC COMPLETE	79-14 REVIEW & DOCUMENTS	T/O TO NTS	T/O TO PPD
2R24D(CR)						82/07/29(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)						83/09/09(A)	W/A
2R42B(CR)						83/05/06(A)	W/A
2R42C(CR)						83/08/05(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	REQ'D	COMPLETED	IN PROCESS	NOT STARTED
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	[redacted] 212	[redacted] 179	[redacted] 16	17
SURVEILLANCE INSTRUCT. (INCLUDES ISI'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		36	~~46~~ 10

(1) APPROVED & SIGNED OFF

(2) INCLUDES 716 SURVEILLANCE INSTRUCTIONS TO BE WRITTEN BY THE R/ENG. FOR THE SYSTEMS (ABOUT 100 [redacted] 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:

B	-	Steam Generator System
B13	-	Reactor System
B21	-	Nuclear Boiler System
B33	-	Reactor Recirculation Valve Flow Control System
C	-	Control System
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
	-	
D	-	Radiation Monitoring System
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
E	-	Core Cooling & Containment System
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
F	-	Service & Handling Equipment
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
F41	-	Start-Up Equipment

G	-	Clean-up and Filtering System
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
H	-	Control Panels
H13	-	Control Room Panels
H22	-	Local Panels and Racks (GE)
H51	-	Local Panels and Racks (non GE)
J	-	Fuel
J11	-	Fuel
L	-	Miscellaneous Equipment
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
M	-	HVAC
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

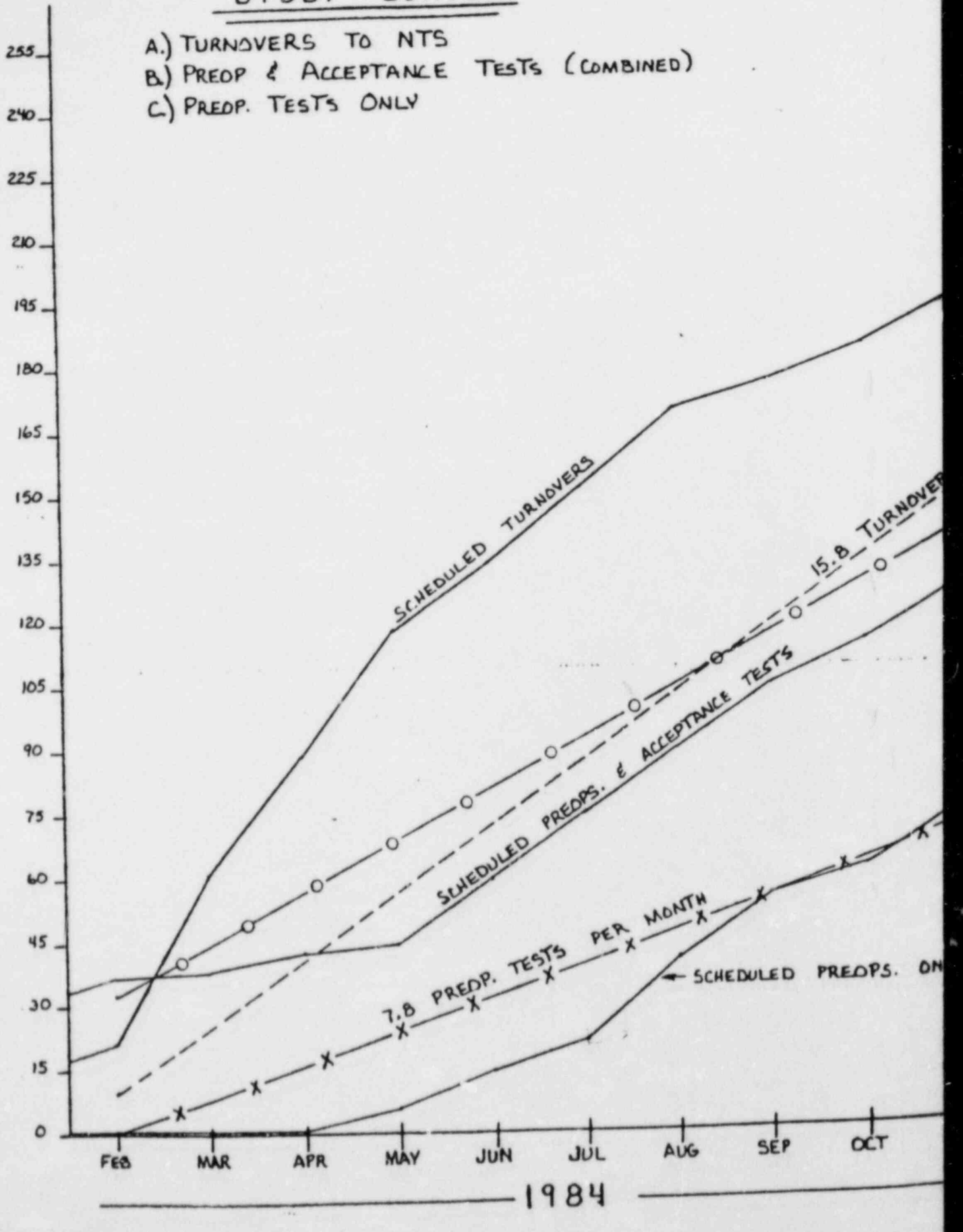
M38	-	Auxiliary Building Ventilation System
M39	-	ECCS Pump Room Cooling System
M40	-	Fuel Handling Area Ventilation System
M41	-	Heater Bay Ventilation System
M42	-	Turbine Power Complex Ventilation System
M43	-	Diesel Generator Building Ventilation System
M44	-	Service Building HVAC Systems
M45	-	Circulating Water Pumphouse 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
N	-	Main Loop System
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
P	-	Auxiliary Systems
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

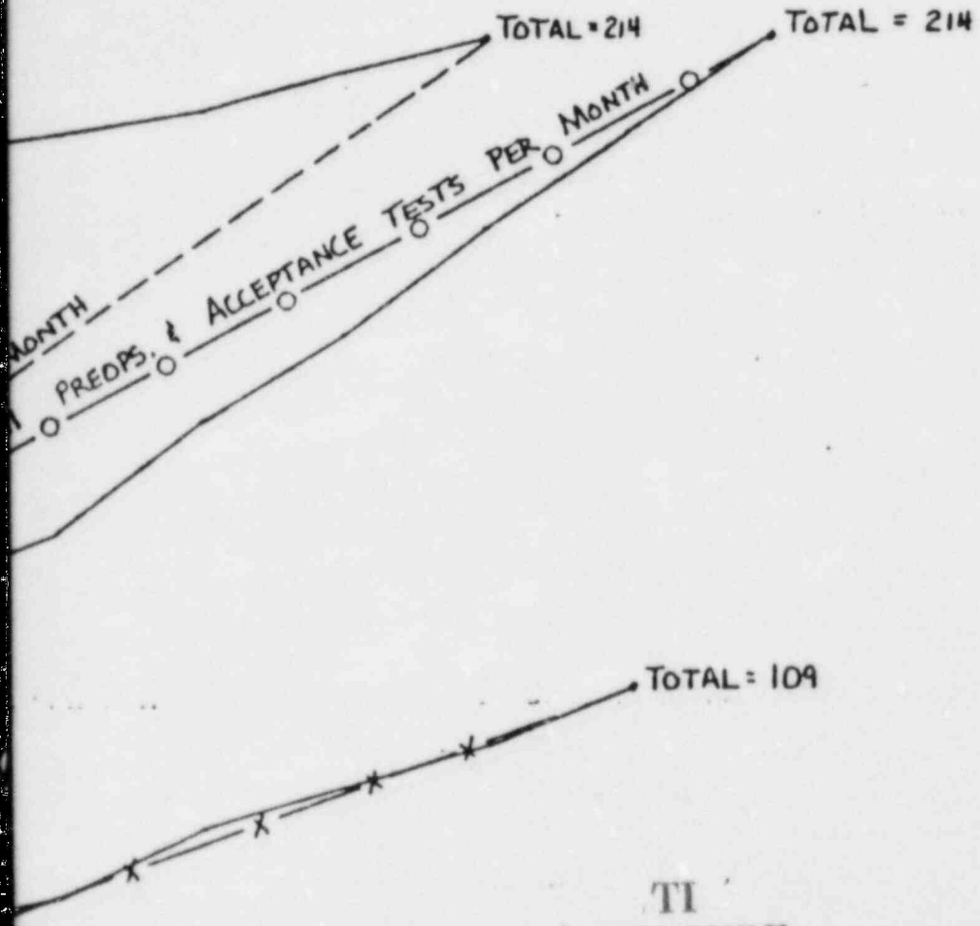
P33	-	Turbine Plant Sampling System
P34	-	Nuclear Sampling System
P35	-	Reactor Plant Sampling System
P40	-	Service Water Screen Wash System
P41	-	Service Water System
P42	-	Emergency Closed Cooling System
P43	-	Nuclear Closed Cooling System
P44	-	Turbine Building Closed Cooling System
P45	-	Emergency 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
R	-	Plant Electrical Systems
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
S	-	Power Transmission Systems
S11	-	Power Transformers
S31	-	Communications System (carrier)
S41	-	Step-Up Station
S42	-	Transmission Station (By CEI)
T	-	Reactor Building
T23	-	Containment System
T21	-	Suppression Pool

STUDY CURVES

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

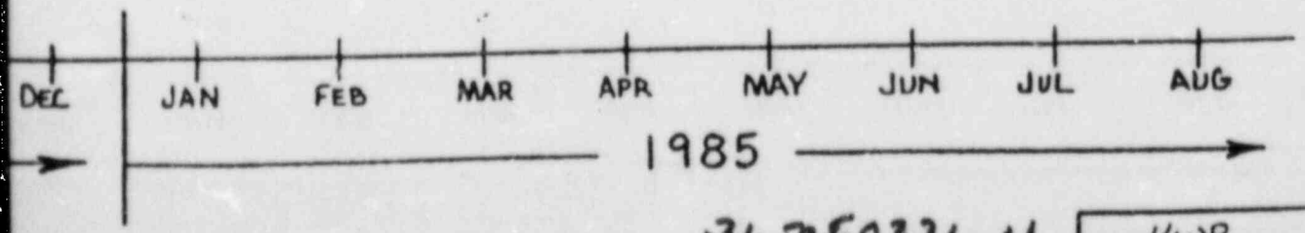




LEGEND

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

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



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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