



CHARLES CENTER • P.O. BOX 1475 • BALTIMORE, MARYLAND 21203

ELECTRIC ENGINEERING
DEPARTMENT

December 30, 1983

Director of Nuclear Reactor Regulation
Attention: Mr. J. R. Miller, Chief
Operating Reactors Branch #3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Calvert Cliffs Nuclear Power Plant
Units Nos. 1 & 2; Dockets Nos. 50-317 and 50-318
Integrated Schedule for NUREG-0737 Supplement 1 Requirements

- Reference:
1. BG&E letter from A. E. Lundvall, Jr. to R. A. Clark (NRC), dated April 15, 1983.
 2. BG&E letter from A. E. Lundvall, Jr. to R. A. Clark (NRC), dated July 22, 1983.
 3. BG&E letter from A. E. Lundvall, Jr. to R. A. Clark (NRC), dated November 18, 1983.

Gentlemen:

In Reference 1 we outlined our general plans for implementing the emergency response capability upgrades required by NUREG-0737 Supplement 1. We stated that these plans would subsequently be firmed up so as to support the development of an implementation schedule by December 1, 1983.

Reference 2, as amended by Reference 3, provided our schedule for making various licensing submittals and for completing the fundamental activities required by NUREG-0737 Supplement 1. It is recognized that this milestone-type schedule is sufficient to support your planned issuance of confirmatory orders; however, we do not feel that our correspondence to date has provided your staff with sufficient detail regarding our implementation plans to allow a full appreciation of the level of multi-disciplinary effort required to support this schedule.

Given this concern, you should be aware that the Baltimore Gas and Electric Company has recently developed a detailed integrated schedule for use by our own personnel in implementing NUREG-0737 Supplement 1 requirements. The schedule serves primarily as an internal decision-making tool; however, we feel that it may be also be of benefit in further describing to you our implementation approach and in keeping your staff abreast of future progress towards completion of emergency response capability upgrades at Calvert Cliffs. Consequently, we have enclosed one copy of the integrated schedule (designated CCMULTI) in bar-chart format, for your information.

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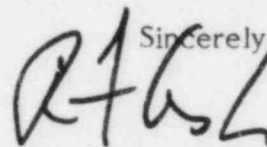
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December 30, 1983

We intend to send you periodic updates to this schedule, probably on a quarterly basis. You will note that the schedule commitments established by References 2 and 3 are shown as milestones on the integrated schedule.

Integration was only performed between NUREG-0737 Supplement 1 activities in that no explicit effort was made to consider the effects of "outsider" activities. Since this schedule only covers a fraction of the total set of Calvert Cliffs work activities, a "best guess" approach was used for determining the priority of NUREG-0737 Supplement 1 activities relative to other work. Consequently, the activity durations shown on this schedule are based on our best judgement of the types and amounts of manpower that will be available for any particular task.

We trust that this schedule will be both helpful and informative. We welcome any questions or comments you may have concerning either its format or content.

Sincerely


Supervisor

Nuclear Generation Engineering Section

RFA/BSM/vf

Enclosure

cc: (all w/o encl.)

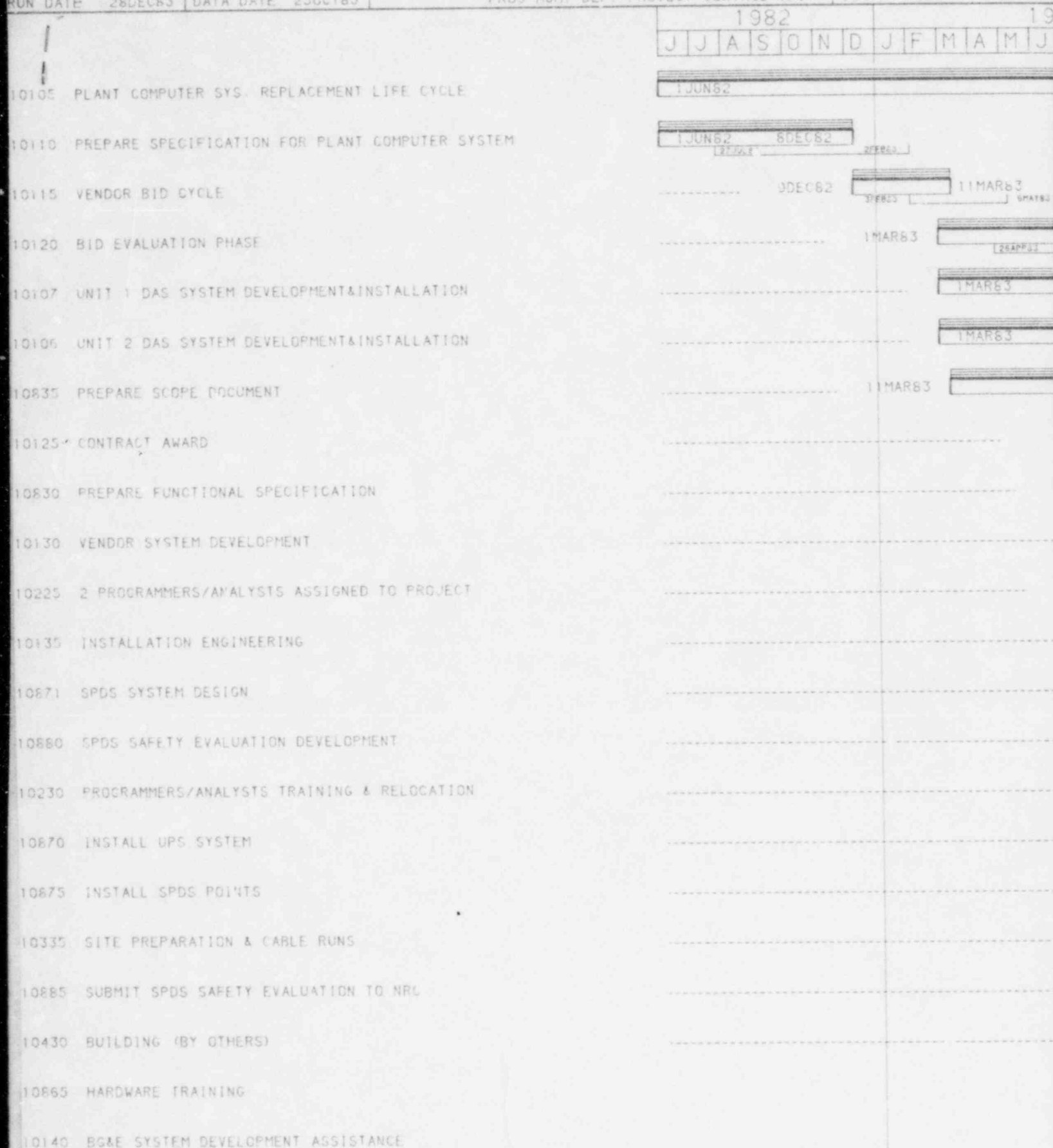
J. A. Biddison, Jr., Esq.

G. F. Trowbridge, Esq.

Mr. D. H. Jaffe, NRC

Mr. R. E. Architzel, NRC

PROJECT CCMULTI	START 1 JUN82	CCNPP * NUREG0737 MULTIPROJECT SCHEDULE	PLANNING S
PLOT PLOT4	COMPLETION 17SEP87	NUREG 0737 PLANNING SCHEDULE	EJECT CODE 300 SP
RUN DATE 28DEC83	DATA DATE 25OCT83	PROJ MGMT DEPT*PROJECT CONTROL UNIT	SHORT EJECT E START

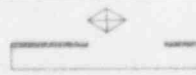


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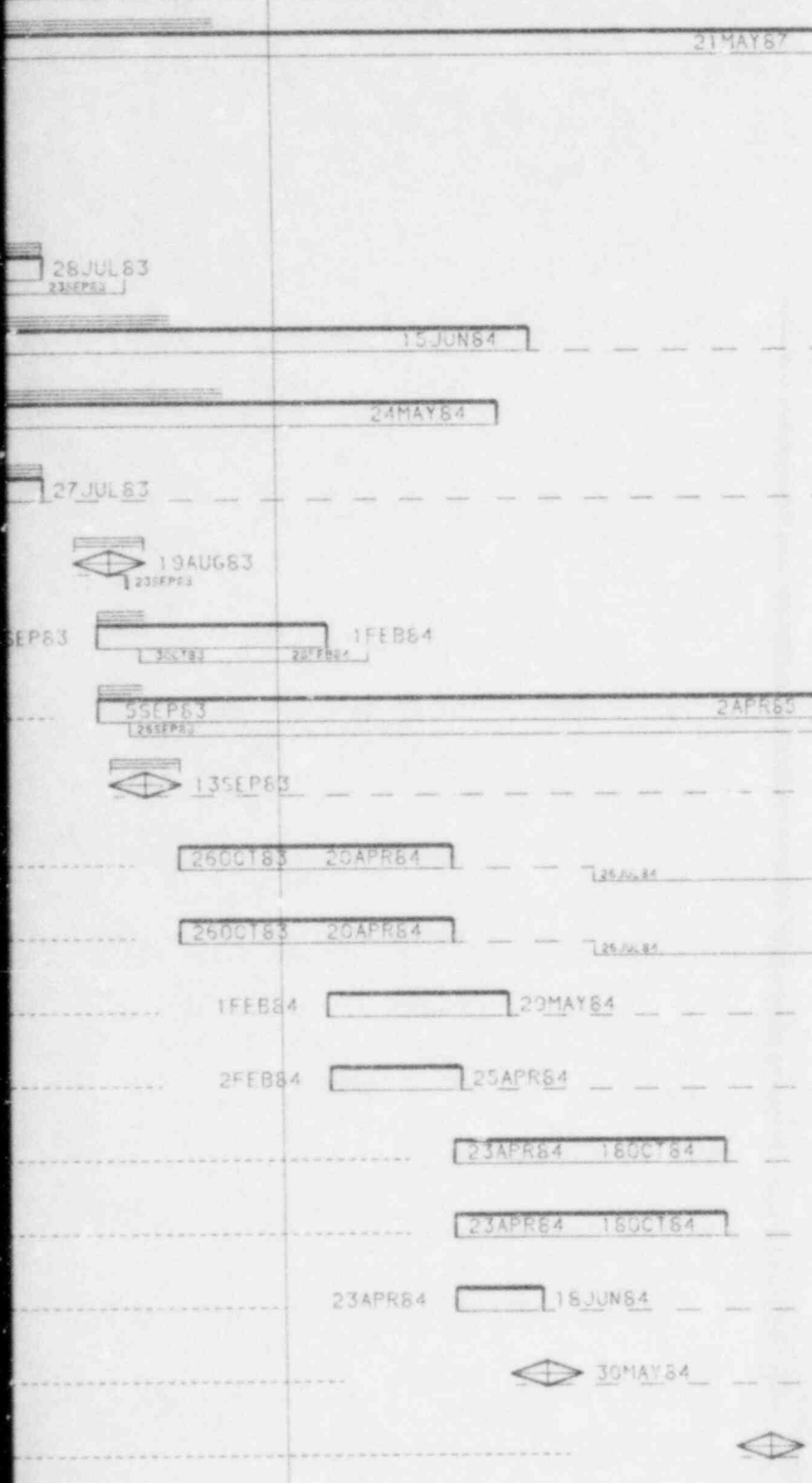


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Also Available On
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PRELIMINARY

PROJECT COMULTI
PLOT 1 PLOT4
RUN DATE 28DEC83

1985
J F M A M J J A S O N D J

10105 PLANT COMPUTER SYS. REPLACEMENT LIFE CYCLE

1 JUN82

10110 PREPARE SPECIFICATION FOR PLANT COMPUTER SYSTEM

10115 VENDOR BID CYCLE

10120 BID EVALUATION PHASE

10107 UNIT 1 DAS SYSTEM DEVELOPMENT&INSTALLATION

22 JUN85

10106 UNIT 2 DAS SYSTEM DEVELOPMENT&INSTALLATION

10635 PREPARE SCOPE DOCUMENT

10125 CONTRACT AWARD

10630 PREPARE FUNCTIONAL SPECIFICATION

10130 VENDOR SYSTEM DEVELOPMENT

5SEP83

2APR85

26SEP83 22APR85

10225 2 PROGRAMMERS/ANALYSTS ASSIGNED TO PROJECT

10135 INSTALLATION ENGINEERING

26 JUL 84 23 JAN 85

10671 SPDS SYSTEM DESIGN

26 JUL 84 23 JAN 85

10680 SPDS SAFETY EVALUATION DEVELOPMENT

10230 PROGRAMMERS/ANALYSTS TRAINING & RELOCATION

10670 INSTALL UPS SYSTEM

22 JAN 85

21 NOV 85

10675 INSTALL SPDS POINTS

24 JAN 85

22 JUL 85

10335 SITE PREPARATION & CABLE RUNS

10685 SUBMIT SPDS SAFETY EVALUATION TO NRC

10430 BUILDING (BY OTHERS)

20 JUN 85

10665 HARDWARE TRAINING

9 JAN 85

2 APR 85

10140 BG&E SYSTEM DEVELOPMENT ASSISTANCE

3 APR 85

27 NOV 85

1986												1987											
F	M	A	M	J	J	A	S	O	N	D		J	F	M	A	M	J	J	A	S			

21 MAY 87

14 OCT 80

21 APR 85 5 SEP 85

27 OCT 80

20 MAY 87 15 SEP 87

26 OCT 80 22 JAN 87

19 AUG 80 14 OCT 80

17 SEP 87

25 JUN 87 17 SEP 87

23 JAN 87 17 SEP 87

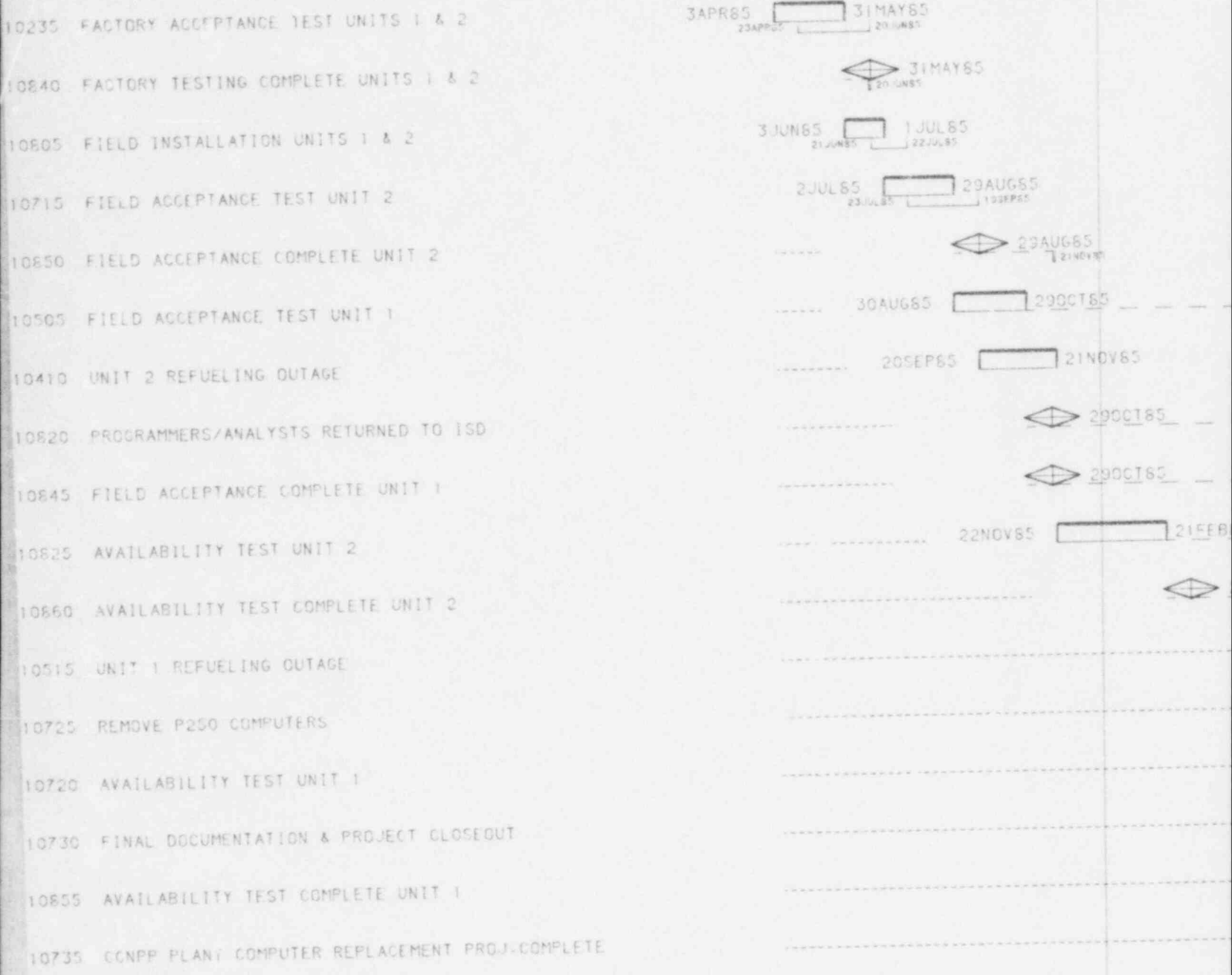
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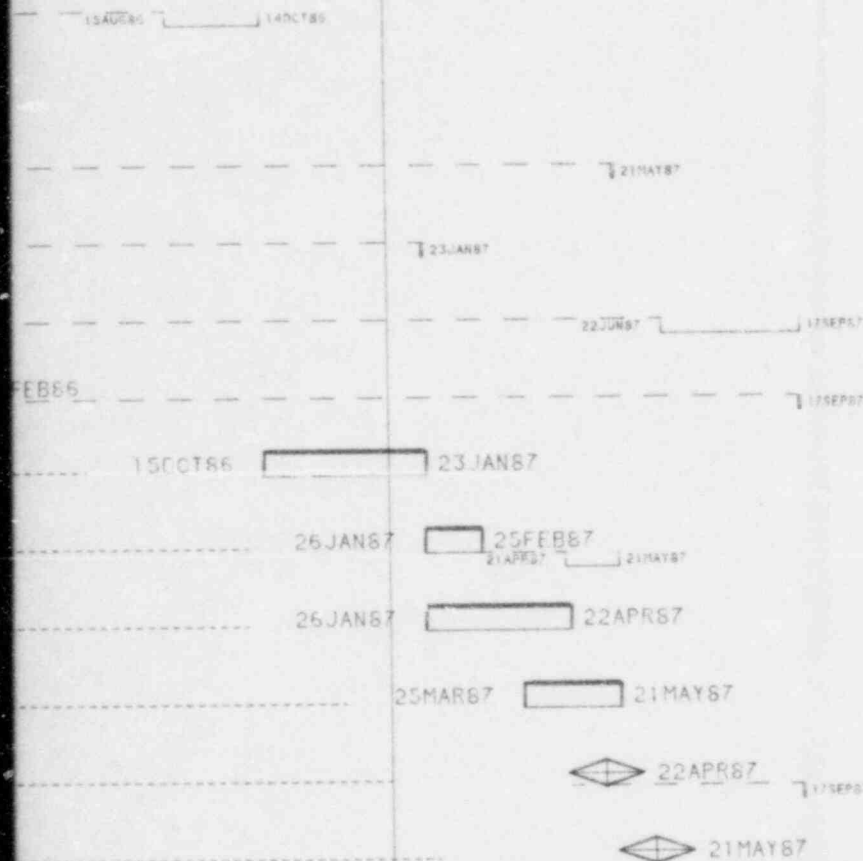
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PROJECT CCMULTI	START 1 JUN82	CCNPP * NUREG0737 MULTIPROJECT SCHEDULE	PLANNING S C
PLOT PLOT4	COMPLETION 17SEP87	NUREG 0737 PLANNING SCHEDULE	EJECT CODE 305 CRD
RUN DATE 28DEC83	DATA DATE 25OCT83	PROJ MGMT DEPT*PROJECT CONTROL UNIT	SORT EJECT E START

1983

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2105 CONTRACTOR PREPARES DRAFT CRDR PROGRAM PLAN

20MAY83

2110 PREPARE FOR INTERNAL REVIEW CRDR PROGRAM PLAN

6JUL83 19JUL83

2210 PREPARE DRAFT COPY OF NRC TRANSMITTAL LETTER

6JUL83 19JUL83

2115 PERFORM REVIEW OF CRDR PROGRAM PLAN AND

20JUL83 2AUG83

2220 PREPARATION OF FINAL NRC TRANSMITTAL LETTER CRDR

3AUG83 19AUG83

2120 INCORPORATE COMMENTS AND PREPARE FOR MGMT REVIEW

3AUG83 19AUG83

2130 ISSUE CRDR PROGRAM PLAN TO NRC

1SEP83

2305 PRIORITIZE HUMAN ENGINEERING DISCREPANCIES FOR

26OCT83 22NOV83

2510 INITIATE DESIGN CHANGE PROCEDURES

23NOV83 29MAR84

2405 JUSTIFY NUREG-0700 DEVIATIONS

23NOV83 21DEC83

2310 DEVELOP SCHEDULE FOR CORRECTIVE ACTIONS

23NOV83 14DEC83

2315 SUBMIT TO CONTRACTOR FOR DRAFT SUMMARY REPORT

15DEC83 21DEC83

2320 CONTRACTOR PREPARATION OF DRAFT SUMMARY REPORT

22DEC83 19JAN84

2325 CONTRACTOR ISSUES DRAFT OF SUMMARY REPORT

20JAN84 24JAN84

2330 PREPARE FOR INTERNAL REVIEW OF DRAFT SUMMARY

25JAN84 7FEB84

2430 PREPARE DRAFT OF NRC TRANSMITTAL LETTER

25JAN84 7FEB84

2335 PERFORM INTERNAL REVIEW OF PLAN & TRANSMITTAL

8FEB84 26FEB84

2440 PREPARE FINAL TRANSMITTAL LETTER TO NRC

29FEB84 13MAR84

2340 INCORPORATE COMMENTS & PREPARE FOR MGMT REVIEW

29FEB84 13MAR84

2605 PRESENT CRDR SUMMARY REPORT TO MGMT FOR APPROVAL

14M84 23MAR84

2515 IMPLEMENT DESIGN CHANGES

30MAR84

2520 ONGOING HUMAN FACTORS PROGRAM FOR VERIFICATION

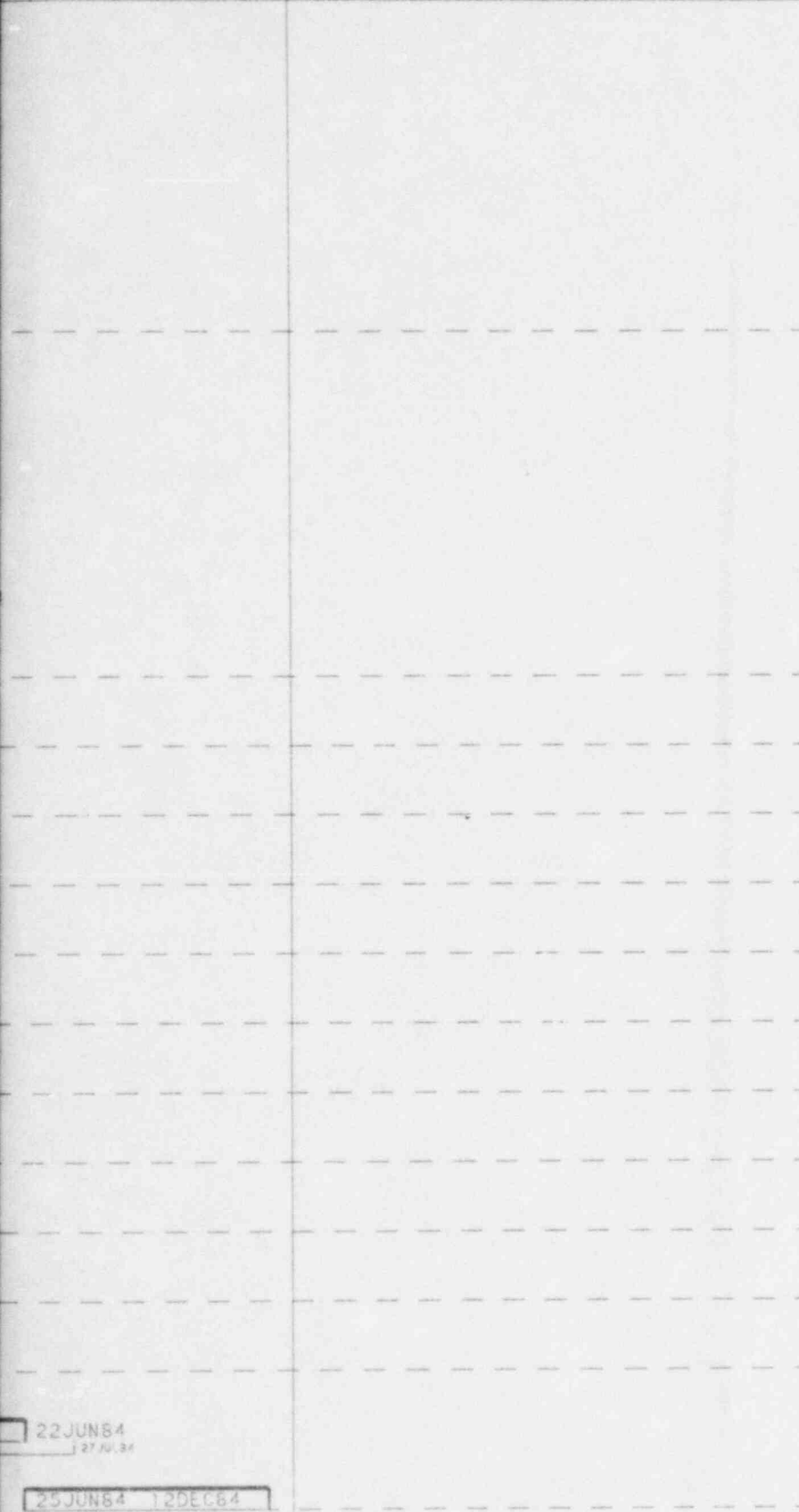
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22JUN84
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25JUN84 12DEC84

PROJECT CCMULTI
PLOT PLOT4
RUN DATE 28DEC83

1986

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

2105 CONTRACTOR PREPARES DRAFT CRDR PROGRAM PLAN

2110 PREPARE FOR INTERNAL REVIEW CRDR PROGRAM PLAN

2210 PREPARE DRAFT COPY OF NRC TRANSMITTAL LETTER

2115 PERFORM REVIEW OF CRDR PROGRAM PLAN AND

2220 PREPARATION OF FINAL NRC TRANSMITTAL LETTER CRDR

2120 INCORPORATE COMMENTS AND PREPARE FOR MGMT REVIEW

2130 ISSUE CRDR PROGRAM PLAN TO NRC

2305 PRIORITIZE HUMAN ENGINEERING DISCREPANCIES FOR

2510 INITIATE DESIGN CHANGE PROCEDURES

2405 JUSTIFY NUREG-0700 DEVIATIONS

2310 DEVELOP SCHEDULE FOR CORRECTIVE ACTIONS

2315 SUBMIT TO CONTRACTOR FOR DRAFT SUMMARY REPORT

2320 CONTRACTOR PREPARATION OF DRAFT SUMMARY REPORT

2325 CONTRACTOR ISSUES DRAFT OF SUMMARY REPORT

2330 PREPARE FOR INTERNAL REVIEW OF DRAFT SUMMARY

2430 PREPARE DRAFT OF NRC TRANSMITTAL LETTER

2335 PERFORM INTERNAL REVIEW CRDR PLAN & TRANSMITTAL

2440 PREPARE FINAL TRANSMITTAL LETTER TO NRC

2340 INCORPORATE COMMENTS & PREPARE FOR MGMT. REVIEW

2605 PRESENT CRDR SUMMARY REPORT TO MGMT FOR APPROVAL

2515 IMPLEMENT DESIGN CHANGES

2520 ONGOING HUMAN FACTORS PROGRAM FOR VERIFICATION

1987

M A M J J A S

31 AUG 87 17 SEP 87

18 MAY 87 12 JUN 87

18 MAY 87 8 JUN 87

9 JUN 87 12 JUN 87

16 JUN 87 13 JUL 87

14 JUL 87 16 JUL 87

17 JUL 87 30 JUL 87

17 JUL 87 30 JUL 87

31 JUL 87 20 AUG 87

21 AUG 87 30 SEP 87

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4 SEP 87 16 SEP 87

1 APR 87 17 SEP 87

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PLOT PLOT4	COMPLETION 17SET87	NUREG 0737 PLANNING SCHEDULE	EJECT CODE 305 CR
RUN DATE 26DEC83	DATA DATE 25OCT83	PROJ MGMT DEPT*PROJECT CONTROL UNIT	SOPT EJECT E START

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2610 ISSUE CRDR SUMMARY REPORT TO NRC

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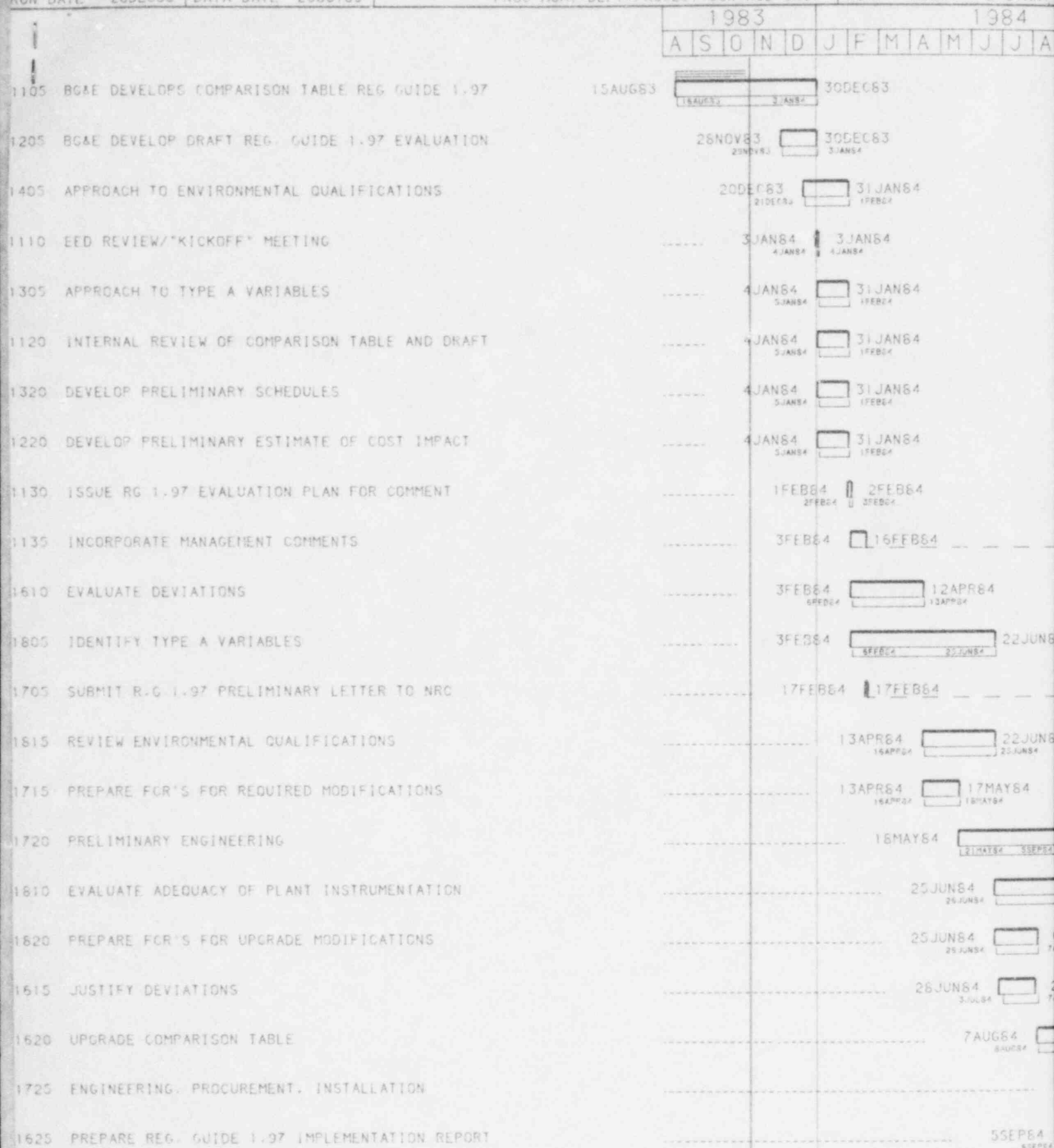
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PLOT PLOT4	COMPLETION 17SEP87	NUREG 0737 PLANNING SCHEDULE	EJECT CODE 310 R
RUN DATE 26DEC83	DATA DATE 25OCT83	PROJ MGMT DEPT*PROJECT CONTROL UNIT	SORT EJECT E START



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PROJECT CMULT1
PLOT PLOT4
RUN DATE 25DEC83

1986

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

1105 BG&E DEVELOPS COMPARISON TABLE REG GUIDE 1.97

1205 BG&E DEVELOP DRAFT REG. GUIDE 1.97 EVALUATION

1405 APPROACH TO ENVIRONMENTAL QUALIFICATIONS

1110 EED REVIEW/"KICKOFF" MEETING

1305 APPROACH TO TYPE A VARIABLES

1120 INTERNAL REVIEW OF COMPARISON TABLE AND DRAFT

1320 DEVELOP PRELIMINARY SCHEDULES

1220 DEVELOP PRELIMINARY ESTIMATE OF COST IMPACT

1130 ISSUE RG 1.97 EVALUATION PLAN FOR COMMENT

1135 INCORPORATE MANAGEMENT COMMENTS

1610 EVALUATE DEVIATIONS

1805 IDENTIFY TYPE A VARIABLES

1705 SUBMIT R-G 1.97 PRELIMINARY LETTER TO NRC

1815 REVIEW ENVIRONMENTAL QUALIFICATIONS

1715 PREPARE FCR'S FOR REQUIRED MODIFICATIONS

1720 PRELIMINARY ENGINEERING

1810 EVALUATE ADEQUACY OF PLANT INSTRUMENTATION

1820 PREPARE FCR'S FOR UPGRADE MODIFICATIONS

1615 JUSTIFY DEVIATIONS

1620 UPGRADE COMPARISON TABLE

1725 ENGINEERING, PROCUREMENT, INSTALLATION

1625 PREPARE REG. GUIDE 1.97 IMPLEMENTATION REPORT

5SEP84

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2SEP87 15SEP87

17SEP87 17SEP87

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PROJECT CMULTI	START 1 JUN82	CCNPP * NUREG0737 MULTIPROJECT SCHEDULE	PLANNING S C
PLOT PLOT4	COMPLETION 17SEP87	NUREG 0737 PLANNING SCHEDULE	EJECT CODE 310 R 0
RUN DATE 28DEC83	DATA DATE 25OCT83	PROJ MGMT DEPT * PROJECT CONTROL UNIT	SORT EJECT E START

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1630 INTERNAL REVIEW OF REG. GUIDE 1.97

30OCT84 30OCT84
40CT84 31OCT84

1635 MANAGEMENT REVIEW OF REG. GUIDE 1.97

31OCT84 28NOV84
18NOV84 29NOV84

1640 SUBMIT IMPLEMENTATION REPORT REG. GUIDE 1.97 TO

29NOV84 29NOV84
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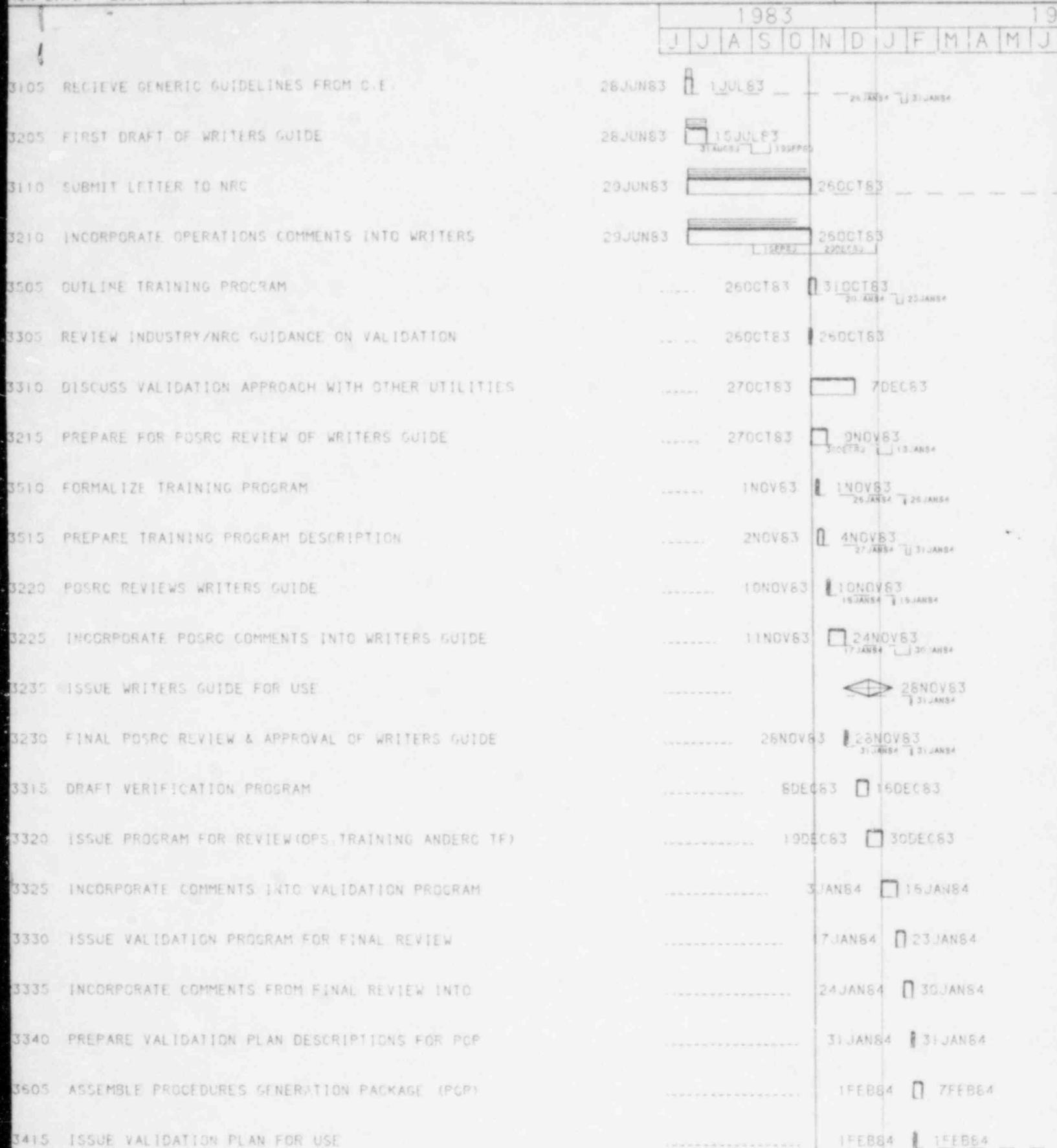
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PLOT PLOT4	COMPLETION 17SEP87	NUREG 0737 PLANNING SCHEDULE	EJECT CODE 315
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PLOT PLOT4
RUN DATE 28DEC83

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

3105 RECIEVE GENERIC GUIDELINES FROM C.E.
3205 FIRST DRAFT OF WRITERS GUIDE
3110 SUBMIT LETTER TO NRC
3210 INCORPORATE OPERATIONS COMMENTS INTO WRITERS
3505 OUTLINE TRAINING PROGRAM
3305 REVIEW INDUSTRY/NRC GUIDANCE ON VALIDATION
3310 DISCUSS VALIDATION APPROACH WITH OTHER UTILITIES
3215 PREPARE FOR POSRC REVIEW OF WRITERS GUIDE
3510 FORMALIZE TRAINING PROGRAM
3515 PREPARE TRAINING PROGRAM DESCRIPTION
3220 POSRC REVIEWS WRITERS GUIDE
3225 INCORPORATE POSRC COMMENTS INTO WRITERS GUIDE
3235 ISSUE WRITERS GUIDE FOR USE
3230 FINAL POSRC REVIEW & APPROVAL OF WRITERS GUIDE
3315 DRAFT VERIFICATION PROGRAM
3320 ISSUE PROGRAM FOR REVIEW(OPS. TRAINING ANDERC TF)
3325 INCORPORATE COMMENTS INTO VALIDATION PROGRAM
3330 ISSUE VALIDATION PROGRAM FOR FINAL REVIEW
3335 INCORPORATE COMMENTS FROM FINAL REVIEW INTO
3340 PREPARE VALIDATION PLAN DESCRIPTIONS FOR PCP
3505 ASSEMBLE PROCEDURES GENERATION PACKAGE (PCP)
3415 ISSUE VALIDATION PLAN FOR USE

1987

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



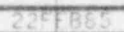
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		F	M	A	M	J	J	A	S	O	N	D	J	F				
3420	REVIEW VALIDATION PROCEDURES	 2FEB84																
3430	ISSUE FINAL VALIDATION PROCEDURES FOR USE	 2FEB84																
3425	INCORPORATE COMMENTS FROM VALIDATION PROCEDURE	 2FEB84																
3405	DEVELOP SPECIFIC VALIDATION PROCEDURES AND ISSUE	2FEB84	 2FEB84															
3610	DRAFT NRC SUBMITTAL LETTER FOR PCP	6FEB84	 14FEB84															
3705	DRAFT UPGRADED EMERGENCY OPERATING PROCEDURES	6FEB84									27 JUN84							
3615	ISSUE TO POSRC FOR REVIEW	15FEB84	 15FEB84															
3620	INCORPORATE POSRC COMMENTS	16FEB84	 22FEB84															
3625	MANAGEMENT AND APPROVALS OF PCP	23FEB84	 27FEB84															
3630	ISSUE PCP TO NRC FOR REVIEW	15MAR84	 15MAR84															
3635	NRC REVIEWS PROCEDURES GENERATION PACKAGE	16MAR84	 16MAR84															
3710	REVIEW EMERGENCY OPERATING PROCEDURES BY OPS											 28 JUN84			 22 FEB85			
3620	INCORPORATE OPS COMMENTS INTO EOP'S																	
3715	VALIDATE EMERGENCY OPERATING PROCEDURES																	
3720	REVISE EMERGENCY OPERATING PROCEDURES																	
3640	ISSUE EOP'S FOR OPERATOR TRAINING																	
3735	OPERATOR TRAINING WITH REVISED EOP'S																	
3740	INCORPORATE COMMENTS ARISING FROM OPERATOR																	
3805	REVALIDATE EOP'S AS NECESSARY FROM TRAINING																	
3845	FINAL APPROVAL OF EOP'S BY POSRC (AS REQUIRED)																	
3810	IMPLEMENT NEW EMERGENCY OPERATING PROCEDURES																	
3850	REVISE EOP'S TO INCLUDE R.G. 1.97																	

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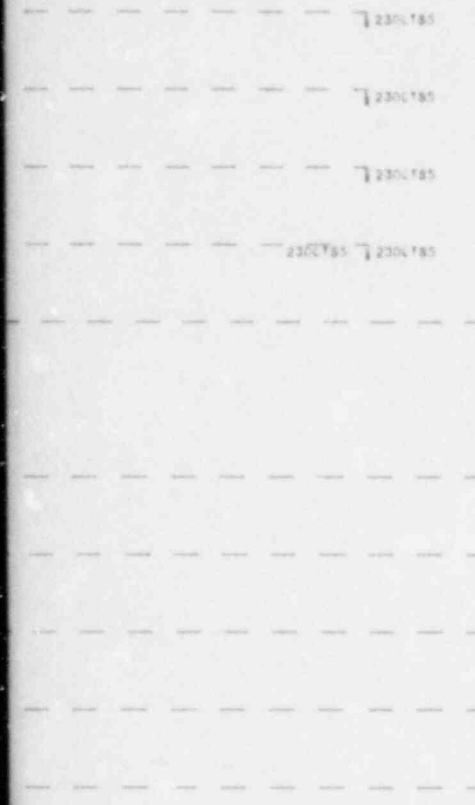


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24OCT85 24APR85

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PROJECT CCMULTI
PLOT PLOT4
RUN DATE 25DEC83

1986

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

3420 REVIEW VALIDATION PROCEDURES

3430 ISSUE FINAL VALIDATION PROCEDURES FOR USE

3425 INCORPORATE COMMENTS FROM VALIDATION PROCEDURE

3405 DEVELOP SPECIFIC VALIDATION PROCEDURES AND ISSUE

3610 DRAFT NRC SUBMITTAL LETTER FOR PGP

3705 DRAFT UPGRADED EMERGENCY OPERATING PROCEDURES

3615 ISSUE TO POSRC FOR REVIEW

3620 INCORPORATE POSRC COMMENTS

3625 MANAGEMENT AND APPROVALS OF PGP

3630 ISSUE PGP TO NRC FOR REVIEW

3635 NRC REVIEWS PROCEDURES GENERATION PACKAGE

3710 REVIEW EMERGENCY OPERATING PROCEDURES BY OPS

3620 INCORPORATE OPS COMMENTS INTO EOP'S

3715 VALIDATE EMERGENCY OPERATING PROCEDURES

24OCT85

24APR86

3720 REVISE EMERGENCY OPERATING PROCEDURES

25APR86 36OCT86

3640 ISSUE EOP'S FOR OPERATOR TRAINING

28OCT86

3735 OPERATOR TRAINING WITH REVISED EOP'S

29OCT86

3740 INCORPORATE COMMENTS ARISING FROM OPERATOR

29JAN87

3805 REVALIDATE EOP'S AS NECESSARY FROM TRAINING

12FEB87

3845 FINAL APPROVAL OF EOP'S BY POSRC (AS REQUIRED)

26FEB87

3810 IMPLEMENT NEW EMERGENCY OPERATING PROCEDURES

3850 REVISE EOP'S TO INCLUDE R.G. 1.97

12MAR87

1987

F M A M J J A S

26AUG87 15SEP87

2SEP87 20SEP87

30SEP87 10OCT87

11SEP87 15SEP87

16SEP87 16SEP87

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28JAN87

11FEB87

25FEB87

11MAR87

11MAR87

87 15JUN87

PRC
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PROJECT CMULTI	START 1 JUN82	CMNPP * NUREG0737 MULTI	PLANNING S C
PL01 PLOT4	COMPLETION 17SEP87	NUREG 0737 PLANNING SCHEDULE	EJECT CODE 315 EOP
RUN DATE 26DEC83	DATA DATE 25OCT83	PROJ MGMT DEPT*PROJECT CONTROL UNIT	SORT EJECT E START

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3825 REVISE EOP'S TO INCLUDE SPDS

◇ 21MAY87

3830 REVALIDATE EOPS

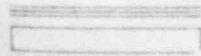
16JUN87 17SEP87

3835 ISSUE REVISED EOP'S FOR USE

◇ 17SEP87

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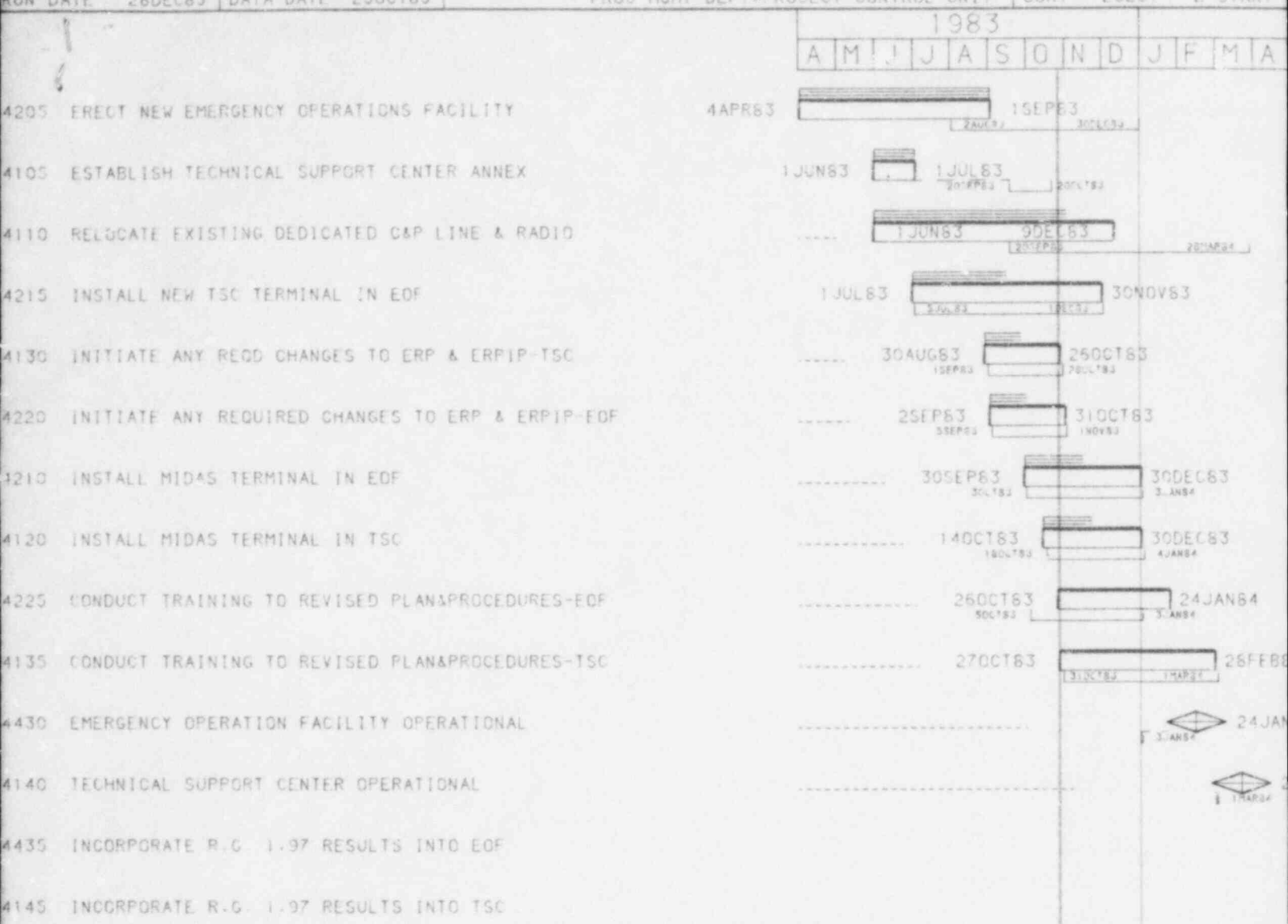
SCHEDULE	INTERVAL	PROJECT/2 8251
* NPD - OPERATING	INTERVAL	BAR CHART GRAPHICS
	INTERVAL: 1 MONTH(S)	PAGE 9 SHEET 1

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LEGEND			
PROGRESS		MILESTONE	
WORKING SCH		WORK SCH CAL	
LATE SCH		TOTAL FLOAT	

DATA DATE

1984												1985											
M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D				

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PROJECT CMULTI
PLOT PLOT4
RUN DATE 28DEC83

1986

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

4205 ERECT NEW EMERGENCY OPERATIONS FACILITY

4105 ESTABLISH TECHNICAL SUPPORT CENTER ANNEX

4110 RELOCATE EXISTING DEDICATED C&P LINE & RADIO

4215 INSTALL NEW TSC TERMINAL IN EOF

4130 INITIATE ANY REQD CHANGES TO ERP & ERPIP-TSC

4220 INITIATE ANY REQUIRED CHANGES TO ERP & ERPIP-EOF

4210 INSTALL MIDAS TERMINAL IN EOF

4120 INSTALL MIDAS TERMINAL IN TSC

4225 CONDUCT TRAINING TO REVISED PLAN&PROCEDURES-EOF

4135 CONDUCT TRAINING TO REVISED PLAN&PROCEDURES-TSC

4430 EMERGENCY OPERATION FACILITY OPERATIONAL

4140 TECHNICAL SUPPORT CENTER OPERATIONAL

4435 INCORPORATE R.G. 1.97 RESULTS INTO EOF

4145 INCORPORATE R.G. 1.97 RESULTS INTO TSC

20AUG86

20AUG86

1987

F	M	A	M	J	J	A	S
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APERTURE
CARD

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