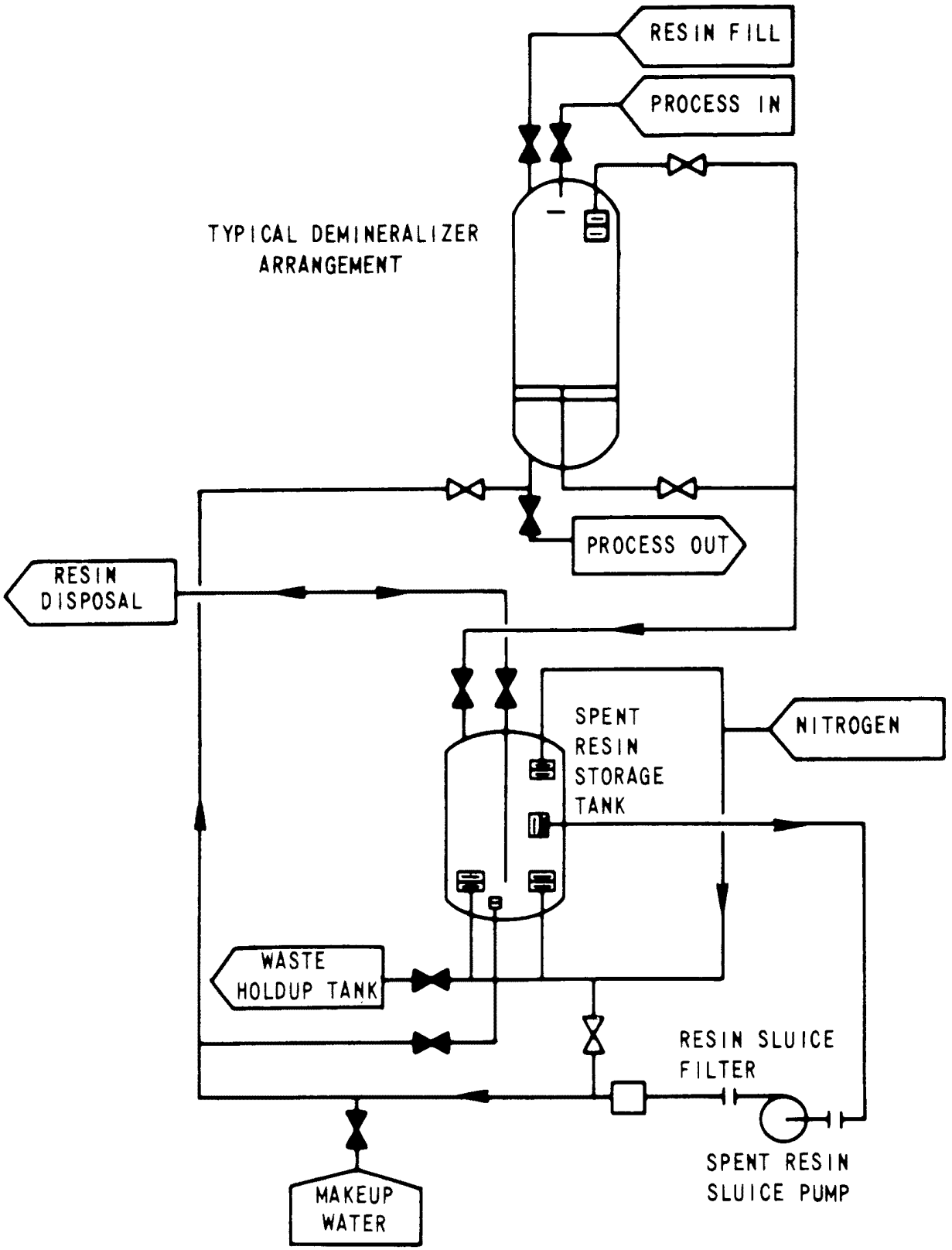
DELETED FIGURE
12.1-1 | 76

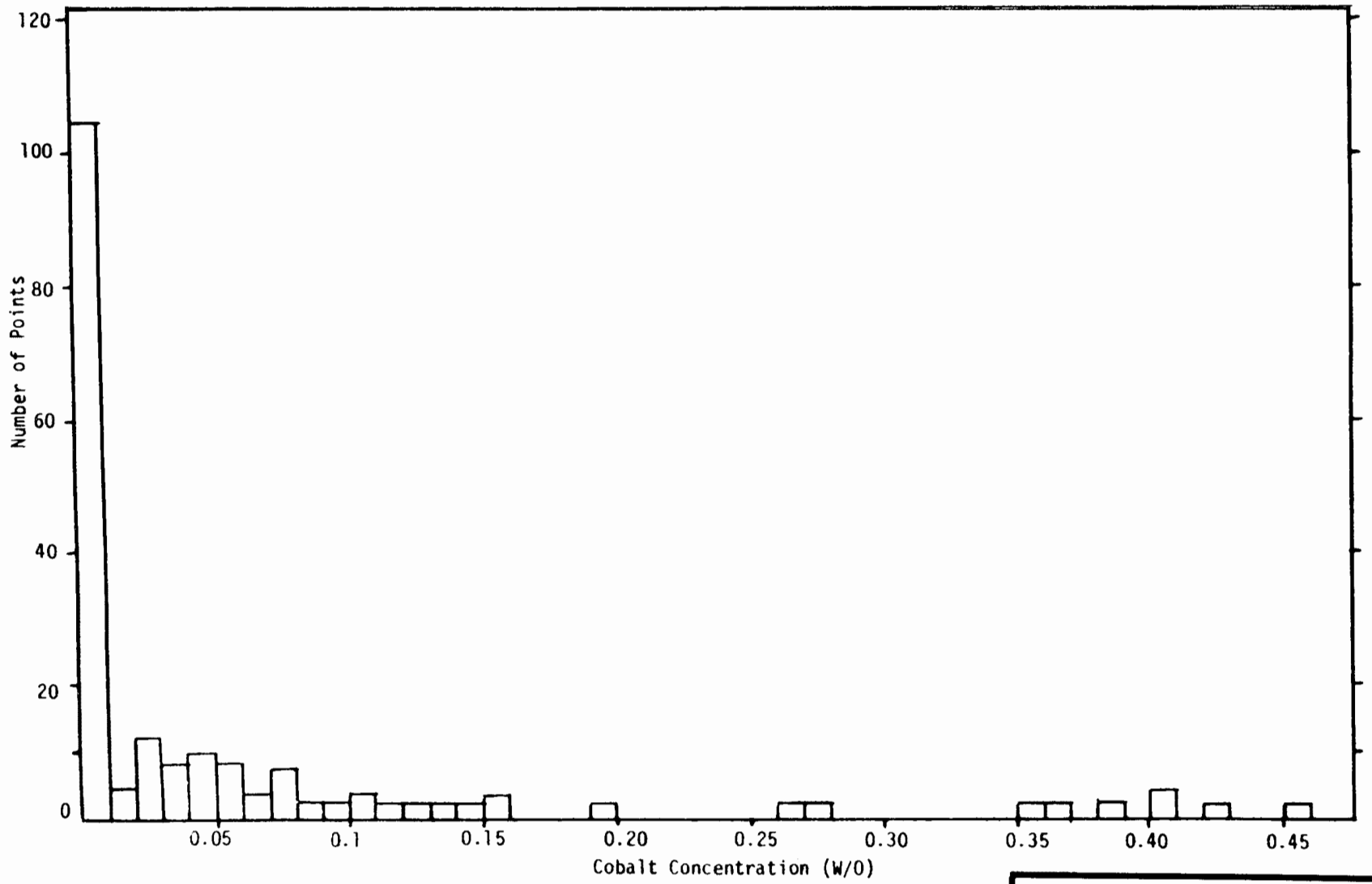


COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

RESIN SLUICE
WATER REUSE SYSTEM

FIGURE 12.3-1

AMENDMENT 87
DECEMBER 18, 1992

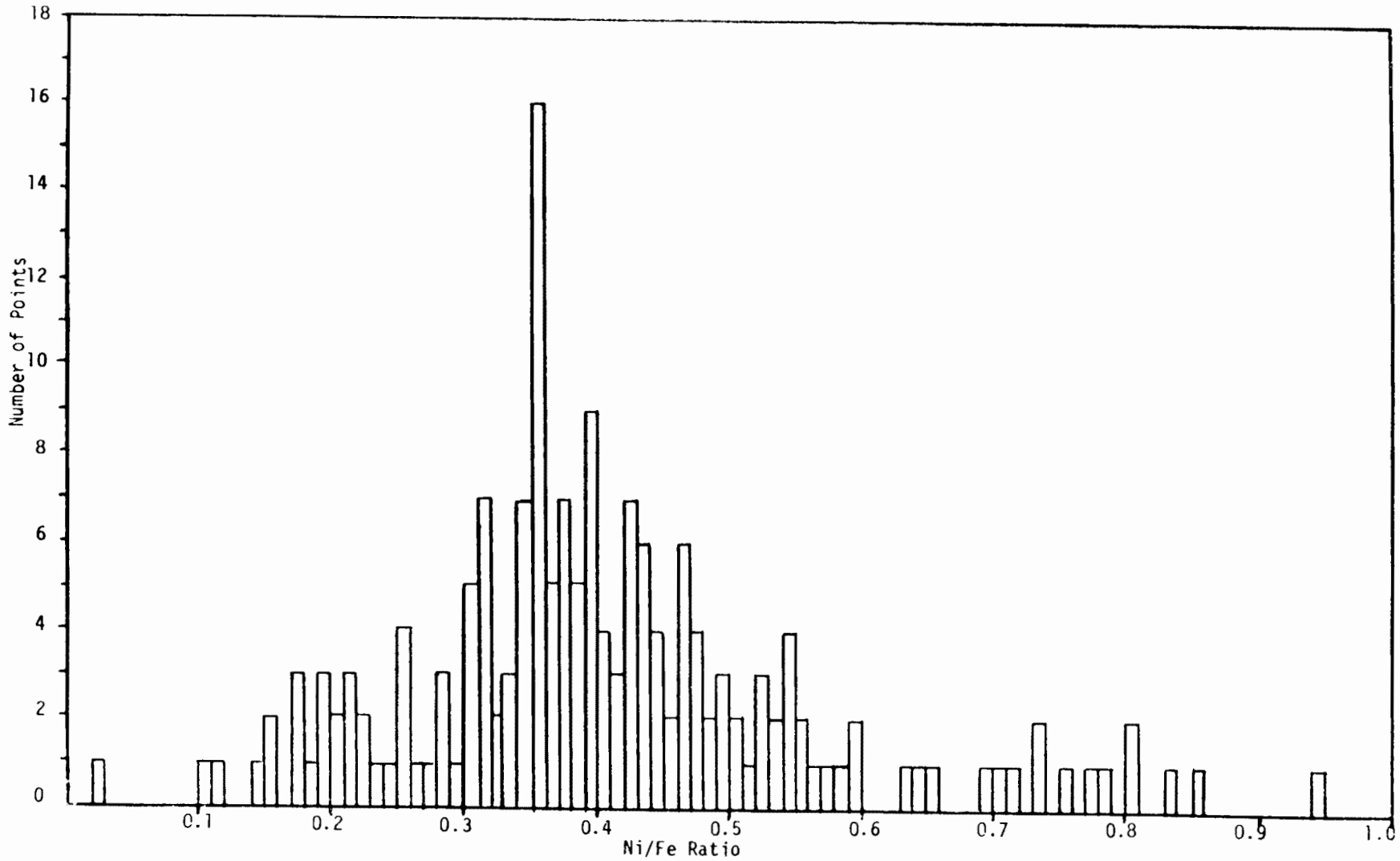


AMENDMENT 87
DECEMBER 18, 1992

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

CORE CRUD DEPOSITS

FIGURE 12.3-2



COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

CORE CRUD DEPOSITS

FIGURE 12.3-3

AMENDMENT 87
DECEMBER 18, 1992

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 06-30 2004	EES 07-01 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0012-02-002945-01-00

RADIATION ZONES

ZONE NO.	MAXIMUM DESIGN DOSE RATE(MREM/HR)	DESCRIPTION AND EXPLANATION
I	LESS THAN 0.25	UNCONTROLLED,UNRESTRICTED ACCESS AREA NON-RADIATION PERSONNEL & VISITORS OCCUPANCY: 40 HRS/WK, 50 WKS/YR
II	LESS THAN 2.5	CONTROLLED,OCCUPATIONAL ACCESS AREA RADIATION WORKERS & AUTHORIZED VISITORS OCCUPANCY: MAXIMUM 40 HRS/WK, 50 WKS/YR
III	LESS THAN 25.0	CONTROLLED,LIMITED ACCESS AREA.
IV	MORE THAN 25.0	CONTROLLED,RESTRICTED ACCESS AREA WITH LIMITED OCCUPANCY. NORMALLY EQUIPPED WITH LOCKABLE DOOR/GATE.
V	NO LIMITATION	CONTROLLED,RESTRICTED ACCESS AREA,NORMALLY INACCESSIBLE. ACCESS IS VIA LOCKABLE DOOR.

RADIATION MONITOR SYMBOLS AND DESCRIPTIONS

◇	PROCESS MONITOR
△	RL-10
□	RM-80
○	AREA DETECTOR
LPM	LIQUID PROCESS MONITOR
LRAM	LOW RANGE AREA MONITOR
HRAM	HIGH RANGE AREA MONITOR
GPM	GAS PROCESS MONITOR

NOTE:

1. THESE DRAWINGS INDICATE " AS-BUILT" SHIELDING THICKNESS AND PLANT RADIATION ZONE DESIGNATIONS BASED ON DESIGN BASES RADIATION SOURCES
2. THESE DRAWINGS ARE ISSUED FOR INFORMATION ONLY. ACTUAL RADIATION LEVELS AND INFORMATION PERTAINING TO ACCESS SHOULD BE OBTAINED FROM RADIATION PROTECTION GROUP.
3. PLEASE REFER TO LATEST ISSUES OF STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DETAILS AND DIMENSIONS.
4. ALL ELEVATIONS ARE GIVEN TO FINISHED FLOOR.

LEGEND

SH. SHIELDING
ST. STRUCTURAL
H.C. HEAVY CONCRETE

FSAR FIGURE 12.3-4

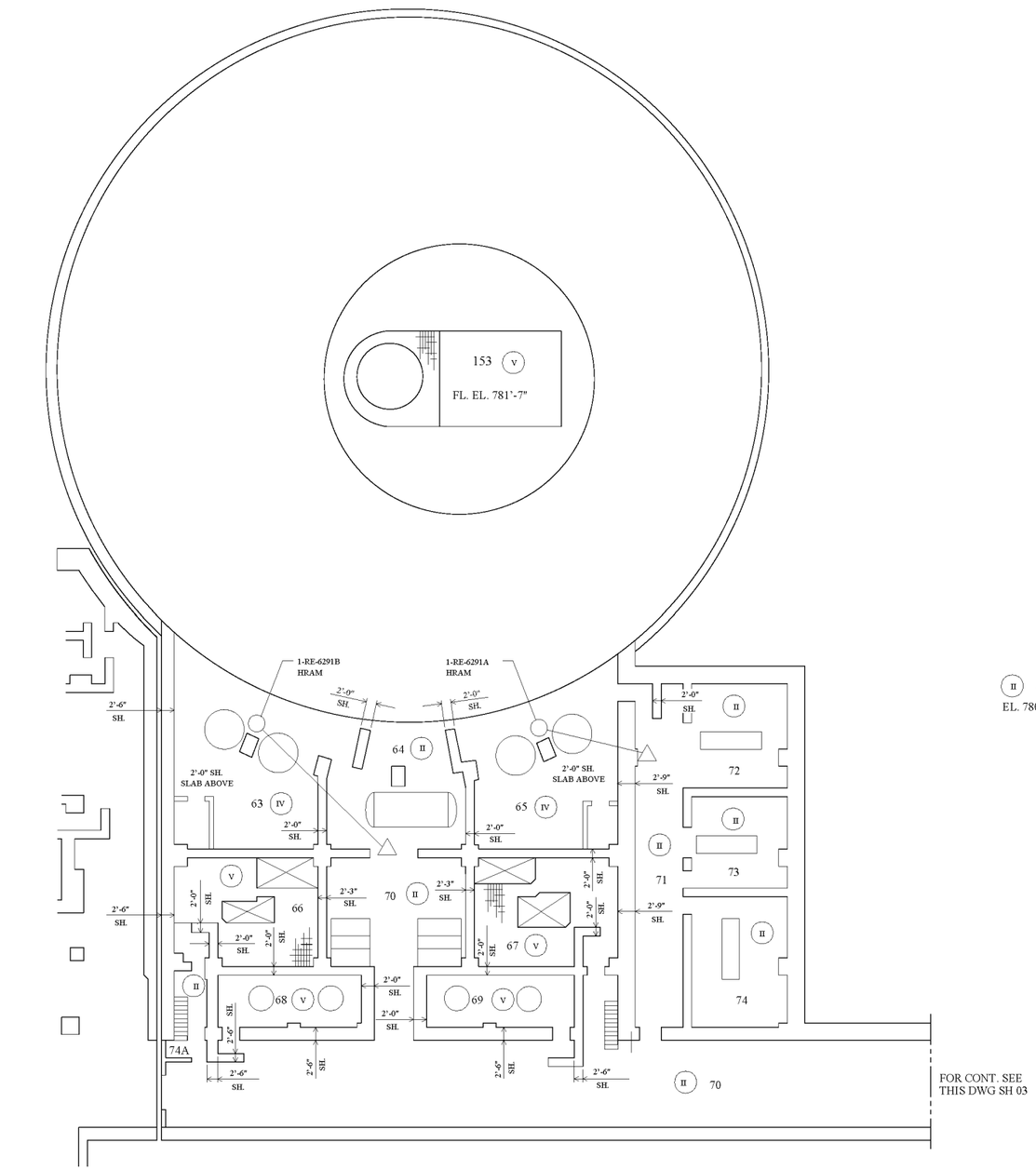
THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

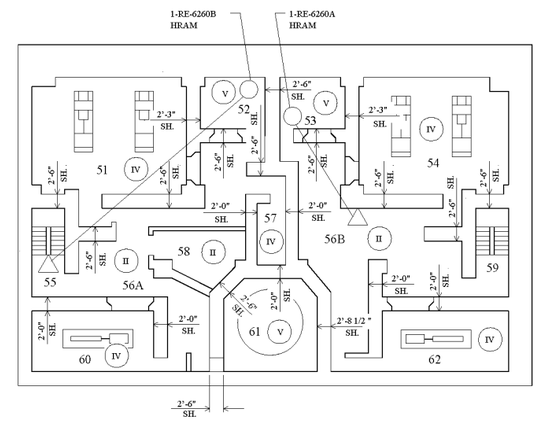
LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
UNIT 1 & UNIT 2
GENERAL SHIELDING INFORMATION

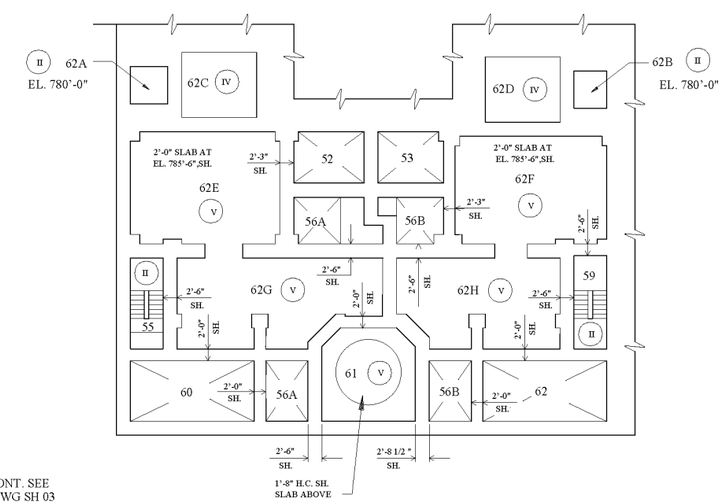
DWG. NO.	SH. NO.	REV.
M1-3500	01	CP-1



PLAN AT EL. 790'-6"



PLAN AT EL. 773'-0"



PLAN AT EL. 785'-6"

REV	DWN	CHKD	APVD	REMARKS
CP-1	RG 02-02 2004	EES 07-01 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0013-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. ROOMS 62A & B MAY EXCEED ZONE II LIMIT DURING RHR SYSTEM OPERATION.

REFERENCE DRAWINGS: A1-0500
S1-0600
S1-0602

PLAN AT EL. 790'-6"

RM. #	ROOM NAME
153, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 74A	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PLAN AT EL. 773'-0"

51, 52, 53, 54, 55, 56A, 56B, 57, 58, 59, 60, 61, 62	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PLAN AT EL. 785'-6"

62A, 62B, 62C, 62D, 62E THRU 62H	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-5

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
UNIT 1 CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 773'-0",785'-6" & 790'-6"

DWG. NO.	SH. NO.	REV.
M1-3500	02	CP-1

FINAL PRINT

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-2	DLK 02-01 2006	MM 03-01 2006		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA 2005-003364-17-00 PER SK-0004-05-003364-17-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. DELETED

REFERENCE DRAWINGS: A1-0501
S1-0519
S1-0605
S1-0618

PLAN AT EL. 808'-0" & 812'-0"

RM. # ROOM NAME

153, 156A, 154E, 154F, 154G, 154H, 154I, 154J, 154K, 154L, 154A, 154B, 154C, 154D — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PLAN AT EL. 810'-6"

68, 69, 77A, 77B, 78, 79, 80, 81, 82, 83, 84, 85, 85A, 85B, 85C — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 800'-6"
75, 76 — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 819'-6"
155A

PARTIAL PLAN AT EL. 821'-0"
86, 87 — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 822'-9"
155B FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-6

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
UNIT 1 CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 808'-0" & 810'-6"

DWG. NO.	SH. NO.	REV.
M1-3500	04	CP-2

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	RG 02-03 2004	EES 07-01 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0016-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. ROOM 98 AREA NEAR ENTRANCE TO ROOM 97 MAY EXCEED ZONE III LIMIT.

REFERENCE DRAWINGS: A1-0502
S1-0522
S1-0608
S1-0618

PLAN AT EL 831'-6" & 832'-6"

RM. #	RM. NAME
155B	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
155C	
156B	
158	
157	
155H	
155I	
155J	
155K	
155D	
155E	
155F	
155G	
88	
89	
90	
91	
92	
93	
94	
95A&B	
96	
96A	
96B	
99A	
99B	
99C	
99D	

PARTIAL PLAN AT EL. 841'-6"

97	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
98	
99	

PARTIAL PLAN AT EL. 842'-0"

154M	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
161B	

PARTIAL PLAN AT EL. 849'-0"

159	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-7

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
UNIT 1 CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 831'-6" & 832'-6"

DWG. NO.	SH. NO.	REV.
M1-3500	05	CP-1

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	RG 02-03 2004	EES 07-01 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0017-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWINGS: A1-0503
S1-0525
S1-0528
S1-0611

PLAN AT EL. 852'-6" & EL. 860'-0"

RM.#	RM. NAME
155L	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
163	
161C	
155P	
155H	
155I	
155J	
155K	
155L	
155M	
155N	
100	
100A THRU 100H	
101	
102	
103	
104	
105	
105A	
105B	

PARTIAL PLAN AT EL. 851'-6"

155L	FOR ROOM NAMES SEE
161B	A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 871'-6"

155N	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 886'-0"

161D	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-8

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
UNIT 1 CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 852'-6" & 860'-0"

DWG. NO.	SH. NO.	REV.
M1-3500	06	CP-1

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	RG 02-03 2004	EES 07-01 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0018-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWINGS: A1-0504
S1-0528
S1-0530
S1-0614

PLAN AT EL. 873'-0" & 880'-6"

RM.#	RM. NAME
155L 161C,D 155P 155O 155H 155I 155J 155K 155M 155N 106 107 108 108A THRU 108H 109A THRU 109D 110A THRU 110D	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-9

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
UNIT 1 CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 873'-6" & 880'-6"

DWG. NO.	SH. NO.	REV.
M1-3500	07	CP-1

FINAL PRINT

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	BG 02-03 2004	EES 07-01 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0019-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWINGS: A1-0505
S1-0617

PLAN AT EL. 905'-9" & 896'-4"

RM. #	ROOM NAME
161E	FOR ROOM NAMES SEE S1-0413 SERIES DRAWINGS
160B	
160A	
161A	
DOME	
111	
112	
246A	

FSAR FIGURE 12.3-10

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
UNIT 1 CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 905'-9" & 896'-4"

DWG. NO.	SH. NO.	REV.
M1-3500	08	CP-1

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	BG 02-03 2004	EES 07-01 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0020-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A1-0506

FSAR FIGURE 12.3-11

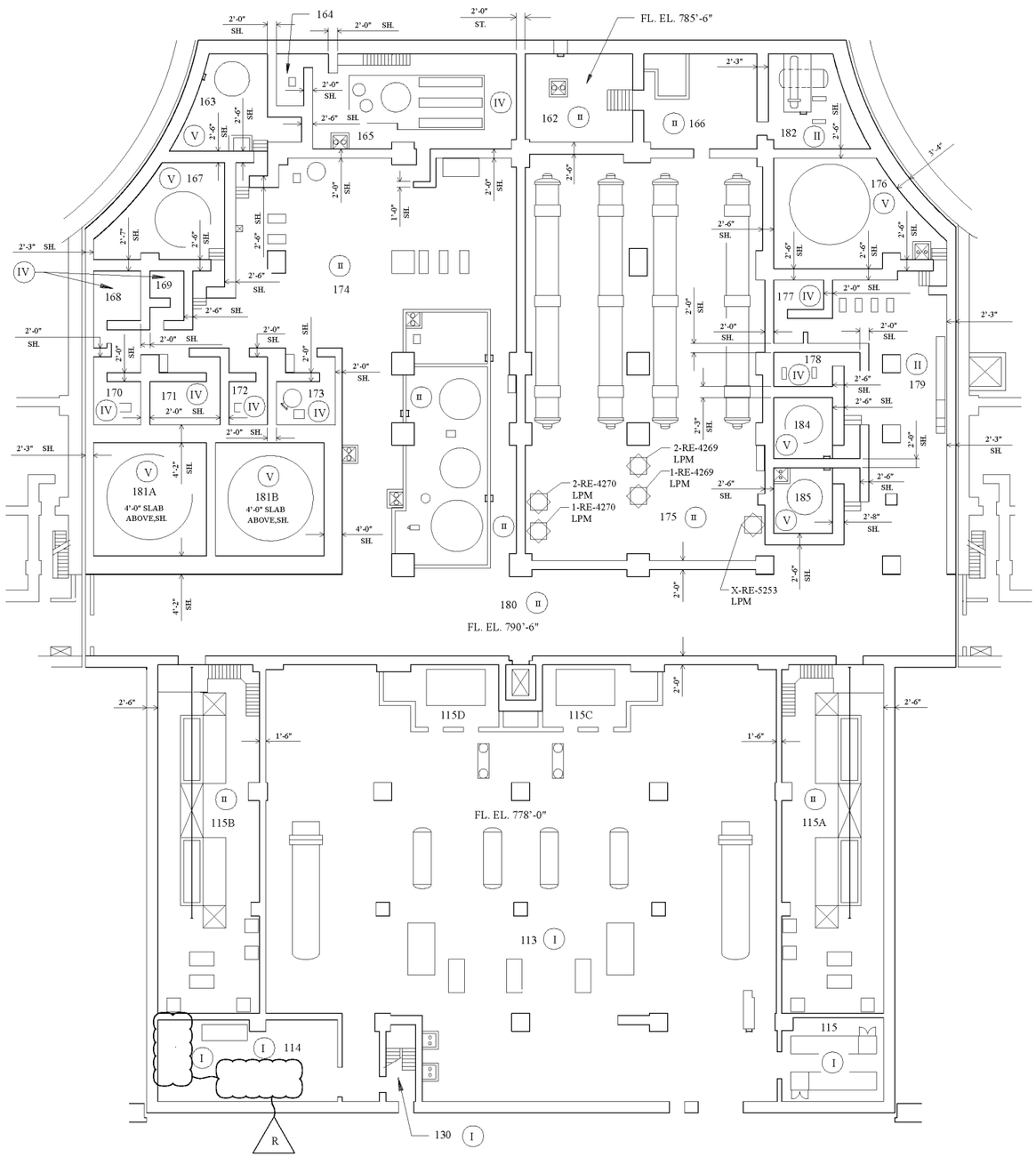
THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

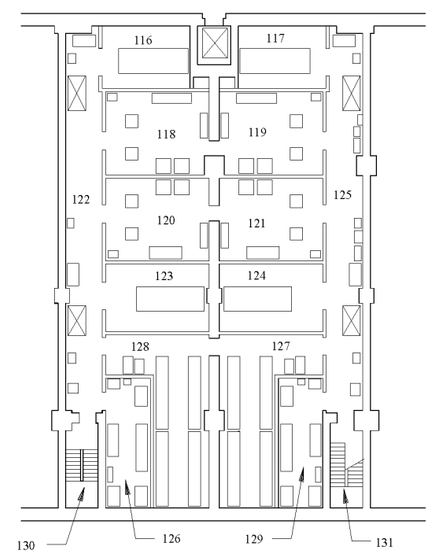
LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
UNIT 1 & UNIT 2 ROOF PLAN

DWG. NO.	SH. NO.	REV.
M1-3500	09	CP-1



PLAN AT EL. 778'-0" & 790'-6"



PARTIAL PLAN AT EL. 792'-0"

ALL AREAS RADIATION ZONE (I)

REV	DWN	CHKD	APVD	REMARKS
CP-2	DLK 08-31 2004	JKG 08-31 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA 2000-003261-02-00 PER SK-0067-00-003261-02-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWINGS: A1-0508
S-0700
S-0703

PLAN AT EL. 778'-0" & 790'-6"

RM.# RM. NAME

113, 114, 115, 115A, 115B, 115C, 115D, 130, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 181A, 181B, 182, 184, 185

FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 792'-0"

RM.# RM. NAME

116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131

FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-12

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
AUXILIARY & ELECTRICAL CONTROL BUILDING
FLOOR PLAN AT EL 778'-0" & 790'-6"

DWG. NO.	SH. NO.	REV.
M1-3500	10	CP-2

FINAL PRINT

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	RG 06-30 2004	EES 07-02 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0021-02-002945-01-00.

NOTES:

FOR LEGEND,ABBREVIATIONS,RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A1-0508

S-0711
S-0714
S-0707

PLAN AT EL. 807'-0"

RM.#	RM. NAME
133	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
134	
134A	
134B	
188	
189	
190	
191	
192	
193	
194	
195	
196	
197	
198	
199	
200	
201	
202	
203	
204	
205	
206	
207	
207A	
207B	
255	

PARTIAL PLAN AT EL. 822'-0"

208 209	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-13

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
AUXILIARY & ELECTRICAL CONTROL BUILDING
FLOOR PLAN AT EL. 807'-0" & 810'-6"

DWG. NO.	SH. NO.	REV.
M1-3500	11	CP-1

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-01 2004	EES 07-02 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0022-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. ROOM 218 IS RADIATION ZONE V ONLY BECAUSE OF HIGH RADIATION LEVELS DURING SPENT RESIN TRANSFERS.

PLAN AT EL. 830'-0" & 831'-6"

REFERENCE DRAWING: A1-0509
A1-0512
S-0718
S-0721

RM.#	Rm. Name
135	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
136	
137	
138	
139	
140	
141	
142	
143	
144	
145	
146	
147	
207A	
207B	
210A	
210B	
211A	
211B	
212	
213	
214	
215A THRU 215V	
216	
217A THRU 217F	
218	- SEE NOTE 2
219	
220	
221	
222	
223	
224	
225	
226	
233A	

PARTIAL PLAN AT EL. 840'-6"

148	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
148A	
148B	
148C	
148D	
149	

FSAR FIGURE 12.3-14

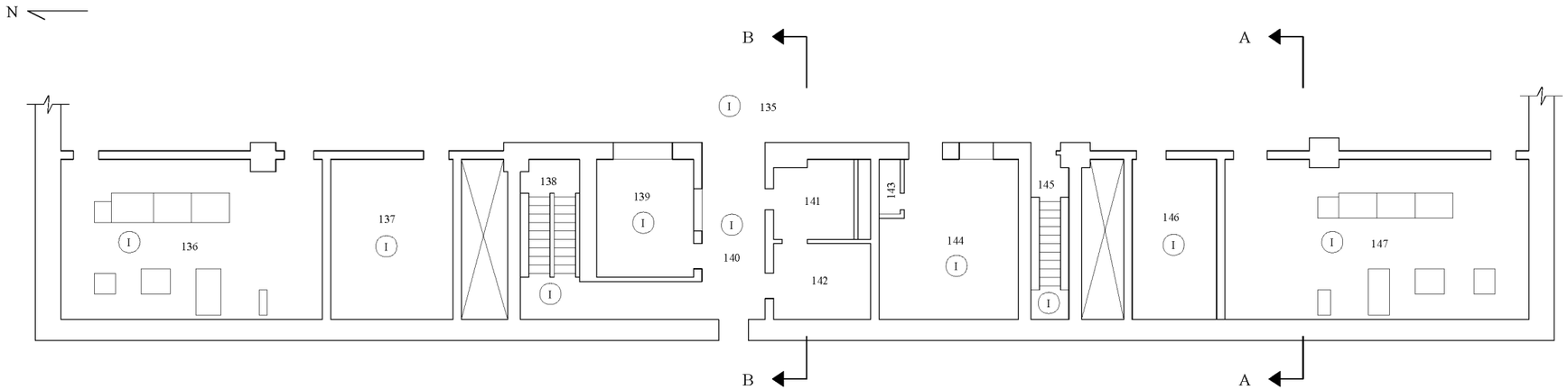
THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

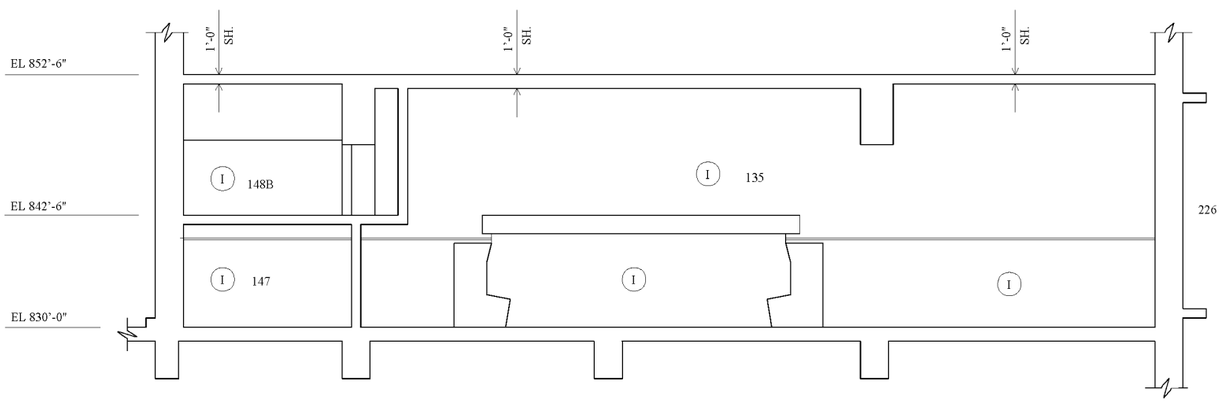
LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
AUXILIARY & ELECTRICAL CONTROL BUILDING
FLOOR PLAN AT EL. 830'-0" & 831'-6"

DWG. NO.	SH. NO.	REV.
M1-3500	12	CP-1

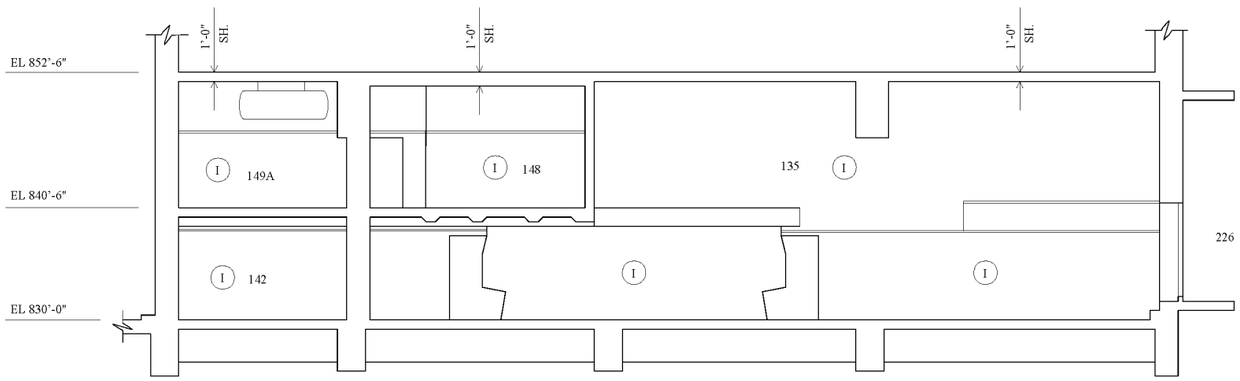


ENLARGED PLAN AT EL. 830'-0"



SECTION A-A

FIG. 12 AND 13



SECTION B-B

FIG. 12 AND 13

REV	DWN	CHKD	APVD	REMARKS
CP-1	RG 06-30 2004	EES 07-02 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0023-02-002945-01-00.

NOTES:

FOR LEGEND,ABBREVIATIONS,RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWINGS: A1-0513
S-0721

Plan at EL. 830'-0"

RM. #	RM. NAME
135	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
136	
137	
138	
139	
140	
141	
142	
143	
144	
145	
146	
147	
148	
148B	
149A	
226	

FSAR FIGURE 12.3-14.1

THIS DRAWING CREATED ELECTRONICALLY

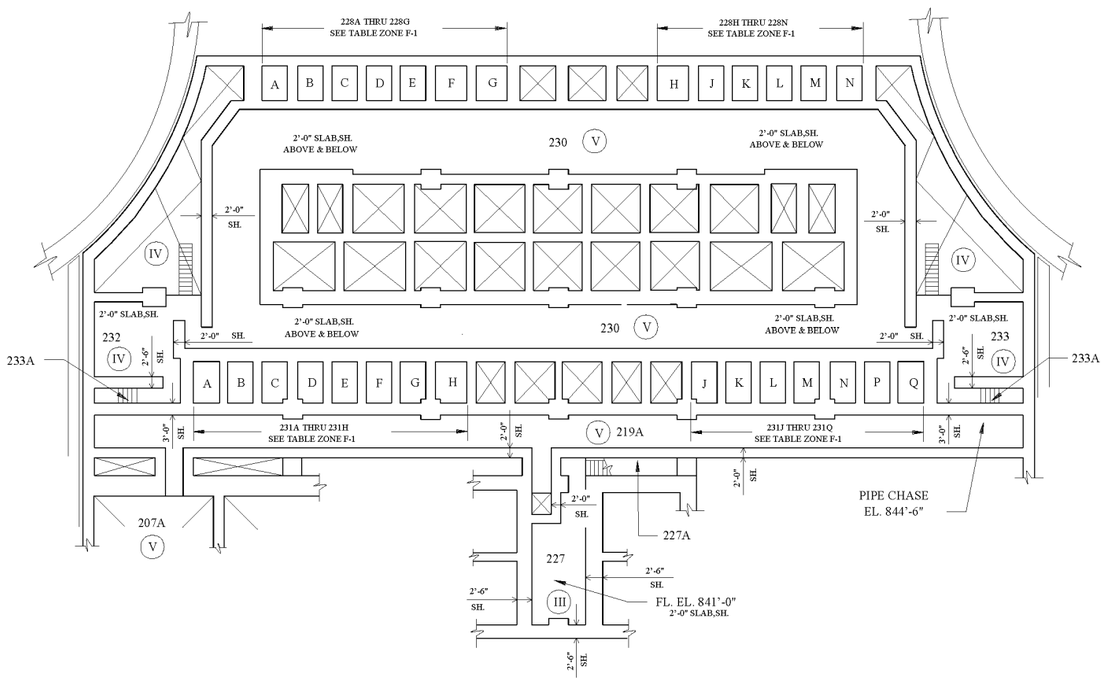
NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
ELECTRICAL CONTROL BUILDING
PLAN AT EL. 830'-0" & SECTIONS

DWG. NO.	SH. NO.	REV.
M1-3500	13	CP-1

N



PLAN AT EL. 842'-0"

DEMINERALIZER CUBICLES
SHIELD WALL THICKNESSES

RM. NO.	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	SLAB ABOVE & BELOW
228A	3'-0"	2'-0"	2'-0"	3'-0"	2'-2"
228B	2'-0"	2'-0"	2'-0"	3'-0"	2'-2"
228C	2'-0"	2'-0"	2'-0"	3'-0"	2'-2"
228D	2'-0"	2'-0"	2'-0"	3'-0"	2'-2"
228E	2'-0"	2'-0"	2'-0"	3'-0"	2'-2"
228F	2'-0"	2'-0"	2'-0"	3'-0"	2'-9"
228G	2'-0"	2'-0"	2'-0"	2'-6"	2'-2"
228H	2'-0"	2'-0"	2'-0"	2'-6"	2'-2"
228J	2'-0"	2'-0"	2'-0"	3'-0"	2'-2"
228K	2'-0"	2'-0"	2'-0"	3'-0"	2'-2"
228L	2'-0"	2'-0"	2'-0"	2'-0"	2'-2"
228M	2'-0"	2'-0"	2'-0"	3'-0"	2'-2"
228N	2'-0"	2'-0"	3'-0"	3'-0"	2'-2"
231A	2'-9"	3'-0"	2'-0"	3'-0"	2'-2"
231B	2'-0"	3'-0"	2'-0"	3'-0"	2'-2"
231C	2'-0"	3'-0"	2'-0"	3'-0"	2'-2"
231D	2'-0"	3'-0"	2'-0"	3'-0"	2'-2"
231E	2'-0"	3'-0"	2'-0"	3'-0"	2'-9"
231F	2'-0"	3'-0"	2'-0"	3'-0"	2'-2"
231G	2'-0"	3'-0"	2'-0"	3'-0"	2'-9"
231H	2'-0"	3'-0"	2'-0"	3'-0"	2'-2"
231J	2'-3"	3'-0"	2'-0"	3'-0"	2'-2"
231K	2'-0"	3'-0"	2'-0"	3'-0"	2'-2"
231L	2'-0"	3'-0"	2'-0"	3'-0"	2'-2"
231M	2'-0"	3'-0"	2'-0"	3'-0"	2'-2"
231N	2'-0"	3'-0"	2'-0"	3'-0"	2'-2"
231P	2'-0"	3'-0"	2'-0"	3'-0"	2'-2"
231Q	2'-0"	3'-0"	2'-9"	3'-0"	2'-2"

NOTE: ALL DEMINERALIZER CUBICLES ARE RADIATION ZONE V

REV	DWN	CHKD	APVD	REMARKS
CP-1	BG 07-01 2004	EES 07-02 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0024-02-002945-01-00.

NOTES:

FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWINGS: A1-0511
S-0725

PLAN AT EL. 842'-0"

RM.#	RM. NAME
207A, 219A, 227, 227A, 228A THRU 228N, 230, 231A THRU 231Q, 232, 233, 233A	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-15

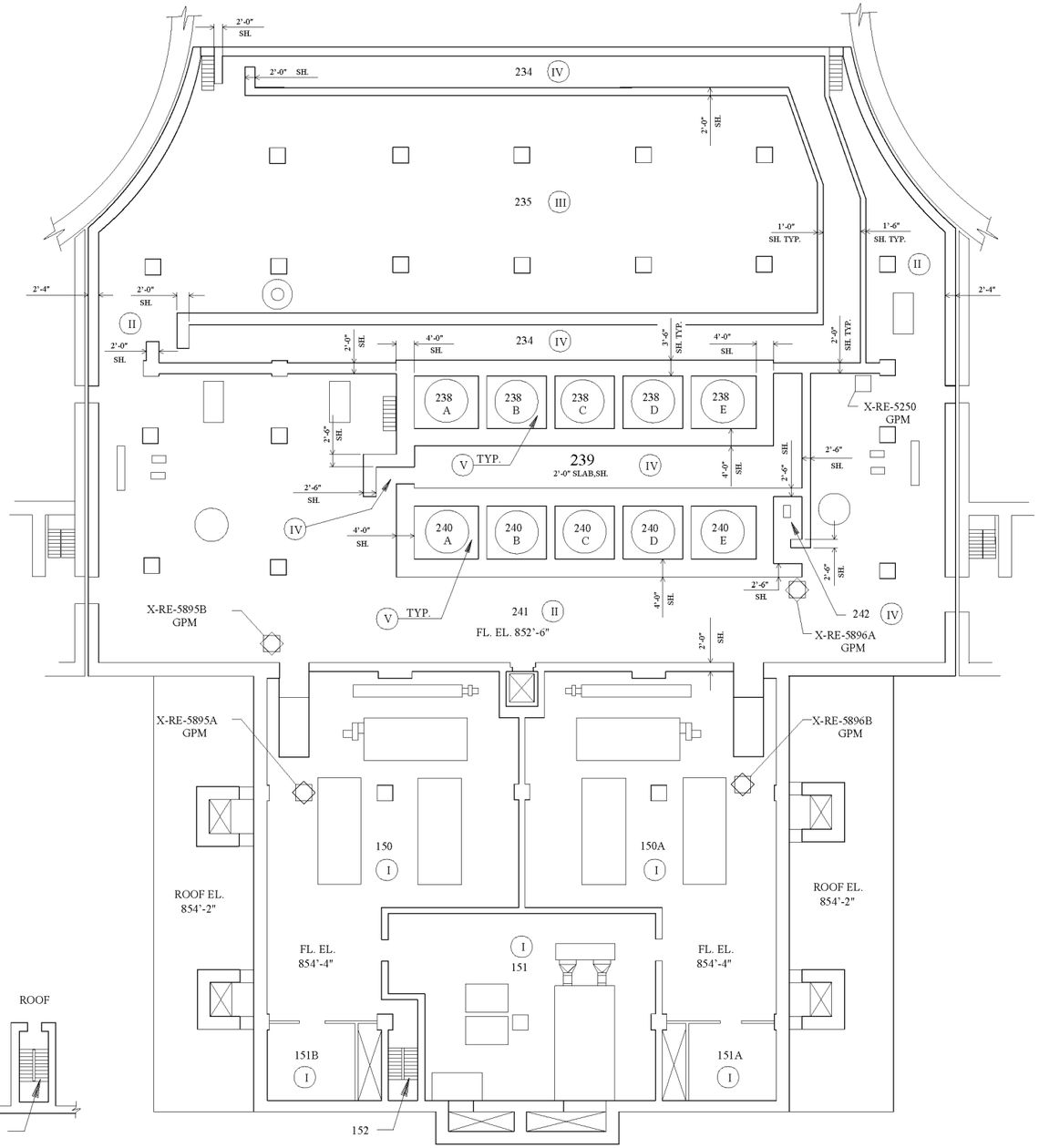
THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

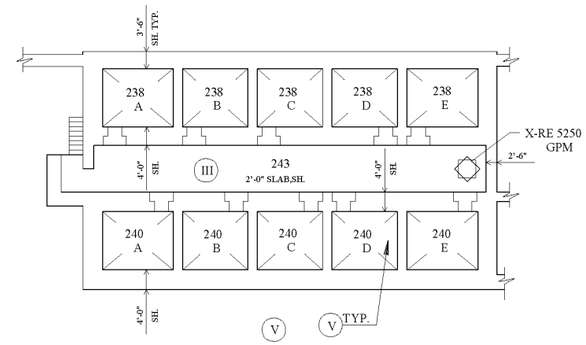
RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
AUXILIARY BUILDING
PLAN AT EL. 842'-0"

DWG. NO.	SH. NO.	REV.
M1-3500	14	CP-1



PARTIAL PLAN AT EL. 873'-4"

PLAN AT EL. 852'-6" & 854'-4"



PARTIAL PLAN AT EL. 862'-6"

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-01 2004	EES 07-02 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0025-02-002945-01-00.

NOTES:

FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A1-0510
S-0728
S-0707

PLAN AT EL. 852'-6" & 854'-4"

RM.#	RM. NAME
150, 150A, 151, 151A, 151B, 152, 152A, 234, 235, 238A THRU 238E, 239, 240A THRU 240E, 241, 242	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 862'-6"

243 FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-16

THIS DRAWING CREATED ELECTRONICALLY

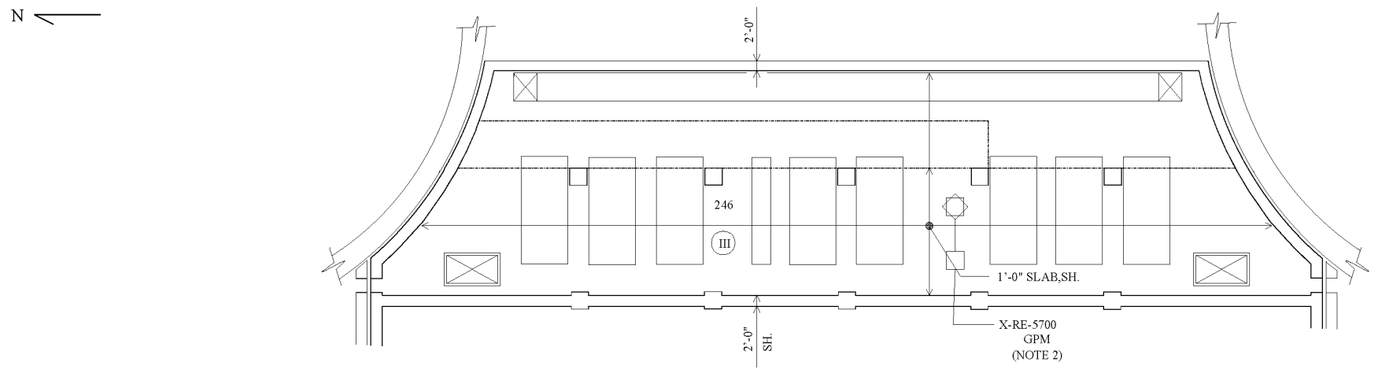
NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

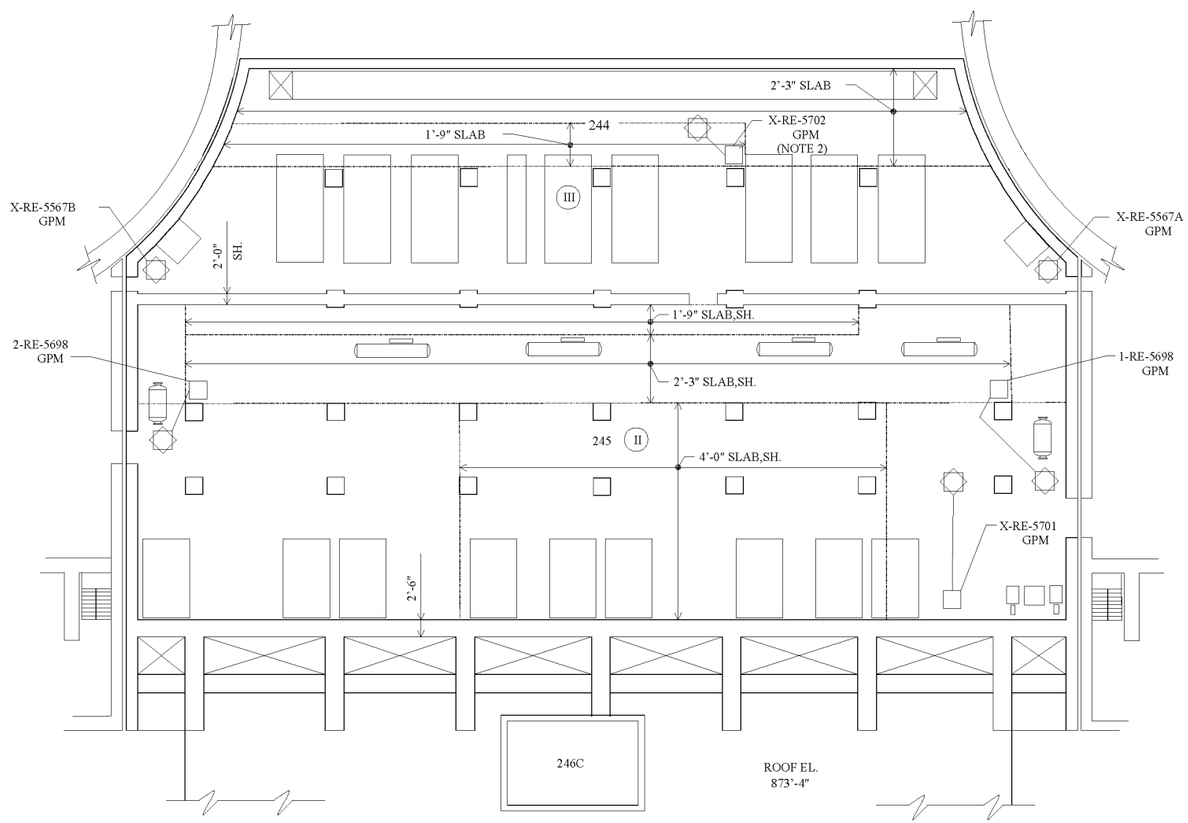
RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
AUXILIARY & ELECTRICAL CONTROL BUILDING
FLOOR PLAN AT EL. 852'-6" & 854'-6"

DWG. NO.	SH. NO.	REV.
M1-3500	15	CP-1

FINAL PRINT



PARTIAL PLAN AT EL. 886'-6"



PLAN AT EL. 873'-6"

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-01 2004	RG 07-08 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-02945-01-00 PER SK-0026-02-002945-01-00.

NOTES:

(1) FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

(2) THE RM 80 ASSOCIATED WITH THIS TAG NUMBER IS SHOWN TO BE IN A RADIATION ZONE III. HOWEVER IT HAS BEEN DETERMINED BY EVALUATION THAT THE DOSE RATE AT RM 80 MEETS THE REQUIREMENTS FOR A ZONE II DESIGNATION.

REFERENCE DRAWING: A1-0511
A1-0506
S-0735
S-0741

PLAN AT EL. 873'-6"
Rm.#
244, 245, 246C — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 886'-6"
246 FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-17

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
AUXILIARY & ELECTRICAL CONTROL BUILDING
FLOOR PLAN AT EL. 873'-6" & 886'-6"

DWG. NO.	SH. NO.	REV.
M1-3500	16	CP-1

CPE

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-01 2004	RO 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0027-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. ROOMS 251 AND 252 ARE RADIATION ZONE IV ONLY BECAUSE OF HIGH RADIATION LEVELS DURING SPENT RESIN TRANSFERS.
3. TRANSIENT CONDITIONS SUCH AS SPENT FUEL OR RESIN TRANSFER MAY CAUSE INDICATED RADIATION ZONE LIMITS IN THE FUEL BUILDING TO BE EXCEEDED.

REFERENCE DRAWING: A1-0520
S-0800
S-0814

PARTIAL PLAN AT EL. 802'-0"

247, 247A, 249B — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PLAN AT EL. 810'-6"

RM.#	RM. NAME
247	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
247A	
248	
249	
249A	
249B	
250	
250A	
250B	
251	
252	
253	
254	
255	
256	
257	
257A	
258	
259	
260	
262	

PARTIAL PLAN AT EL. 825'-2" AND 822'-6"

254, 261, 262 — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-18

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
FUEL BUILDING
PLAN AT EL. 810'-6",822'-6" & 802'-0"

DWG. NO.	SH. NO.	REV.
M1-3500	17	CP-1

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-06 2004	BO 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0028-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. TRANSIENT CONDITIONS SUCH AS SPENT FUEL OR RESIN TRANSFER MAY CAUSE INDICATED RADIATION ZONE LIMITS IN THE FUEL BUILDING TO BE EXCEEDED.

REFERENCE DRAWING: A1-0521
S-0803

PLAN AT EL. 838'-9" & 841'-0"

RM.#	RM. NAME
258	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
259	
260	
263	
263A	
264	
265	
266	
267	
268	
269	
270	
270A	
271	
271A	
271B	

FSAR FIGURE 12.3-19

THIS DRAWING CREATED ELECTRONICALLY

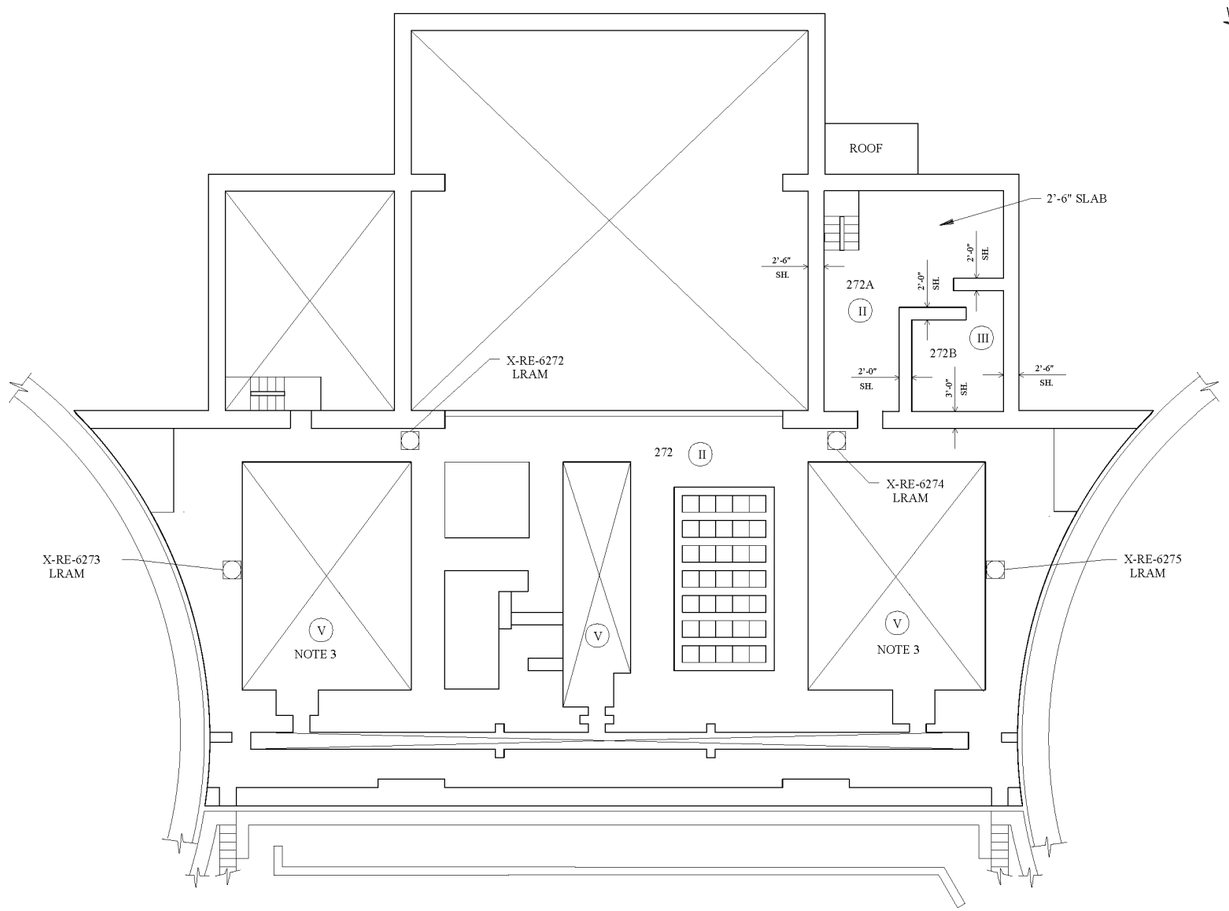
NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

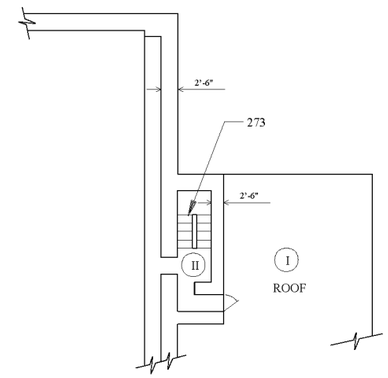
RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
FUEL BUILDING
PLAN AT EL. 838'-9" & 841'-0"

DWG. NO.	SH. NO.	REV.
M1-3500	18	CP-1

FINAL PRINT



PLAN AT EL. 860'-0"



PARTIAL PLAN AT EL. 899'-6"

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-06 2004	RO 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0029-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. TRANSIENT CONDITIONS SUCH AS SPENT FUEL OR RESIN TRANSFER MAY CAUSE INDICATED RADIATION ZONE LIMITS IN THE FUEL BUILDING TO BE EXCEEDED.
3. AREA ABOVE POOL IS DESIGNATED A RADIATION ZONE II AREA.

REFERENCE DRAWING: A1-0522
S-0806
S-0809

PLAN AT EL. 860'-0"

RM.#	RM. NAME
272	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
272A	
272B	

PARTIAL PLAN AT EL. 899'-6"

273 FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-20

THIS DRAWING CREATED ELECTRONICALLY

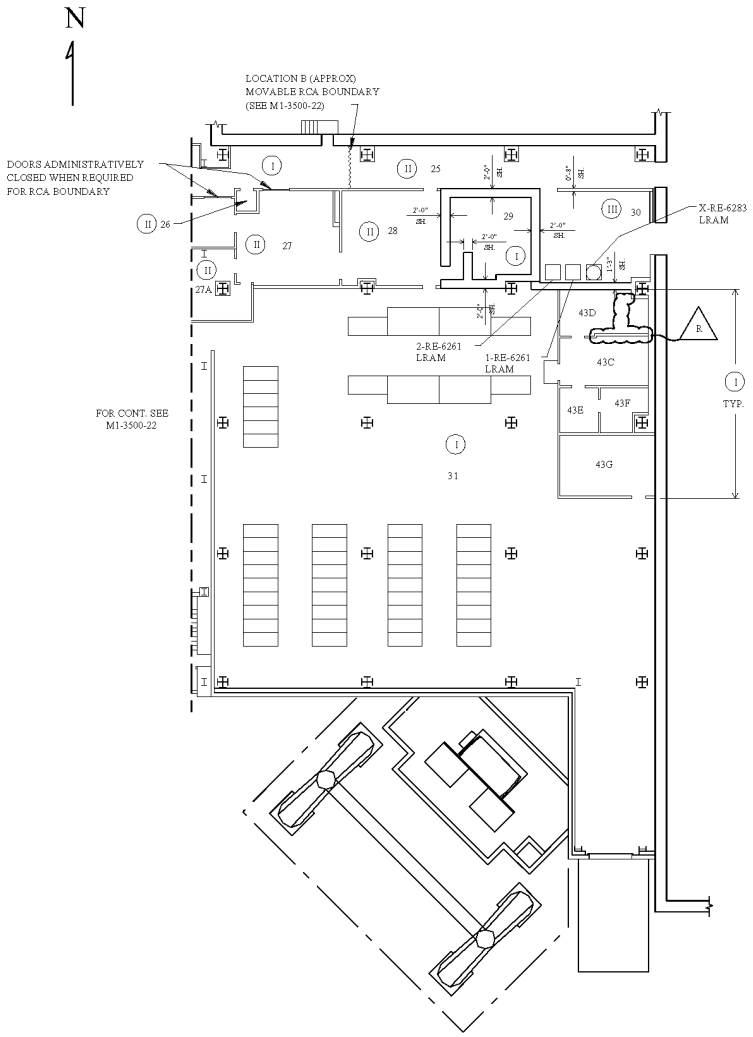
NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

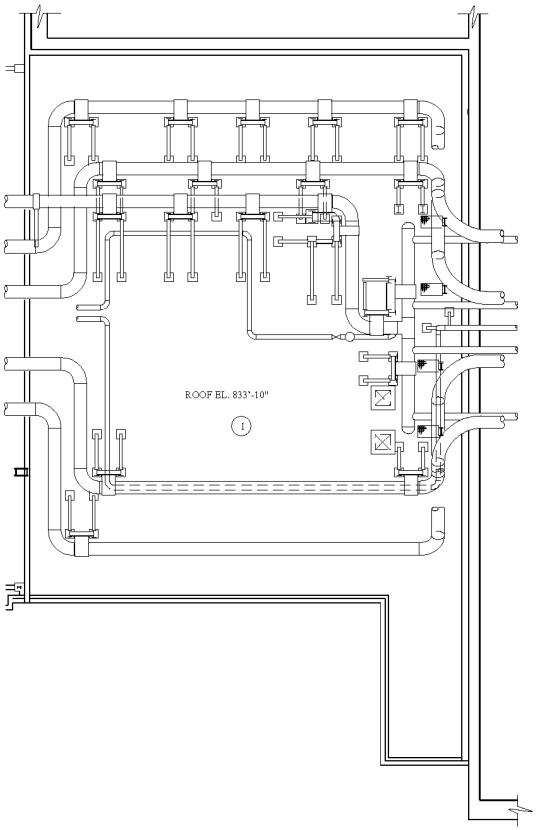
RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
FUEL BUILDING
PLAN AT EL. 860'-0" & 899'-6"

DWG. NO.	SH. NO.	REV.
M1-3500	19	CP-1

FINAL PRINT



PLAN AT EL. 810'-6"



SWITCHGEAR ROOM ROOF

PLAN AT EL. 833'-10"

REV	DWN	CHKD	APV'D	REMARKS
CP-2	EES 11-05 2004	RGO 11-05 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2003-000841-04-00 PER SR-0027-03-000841-04-00.

NOTES:

FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES, SEE DRAWING M1-3500-01

REFERENCE DRAWING: A1-0403

PLAN AT EL. 810'-6"

R.M.#	R.M. NAME
25	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
26	
27	
27A	
28	
29	
30	
31	
43C	
43D	
43E	
43F	
43G	

FSAR FIGURE 12.3-21

THIS DRAWING CREATED ELECTRONICALLY

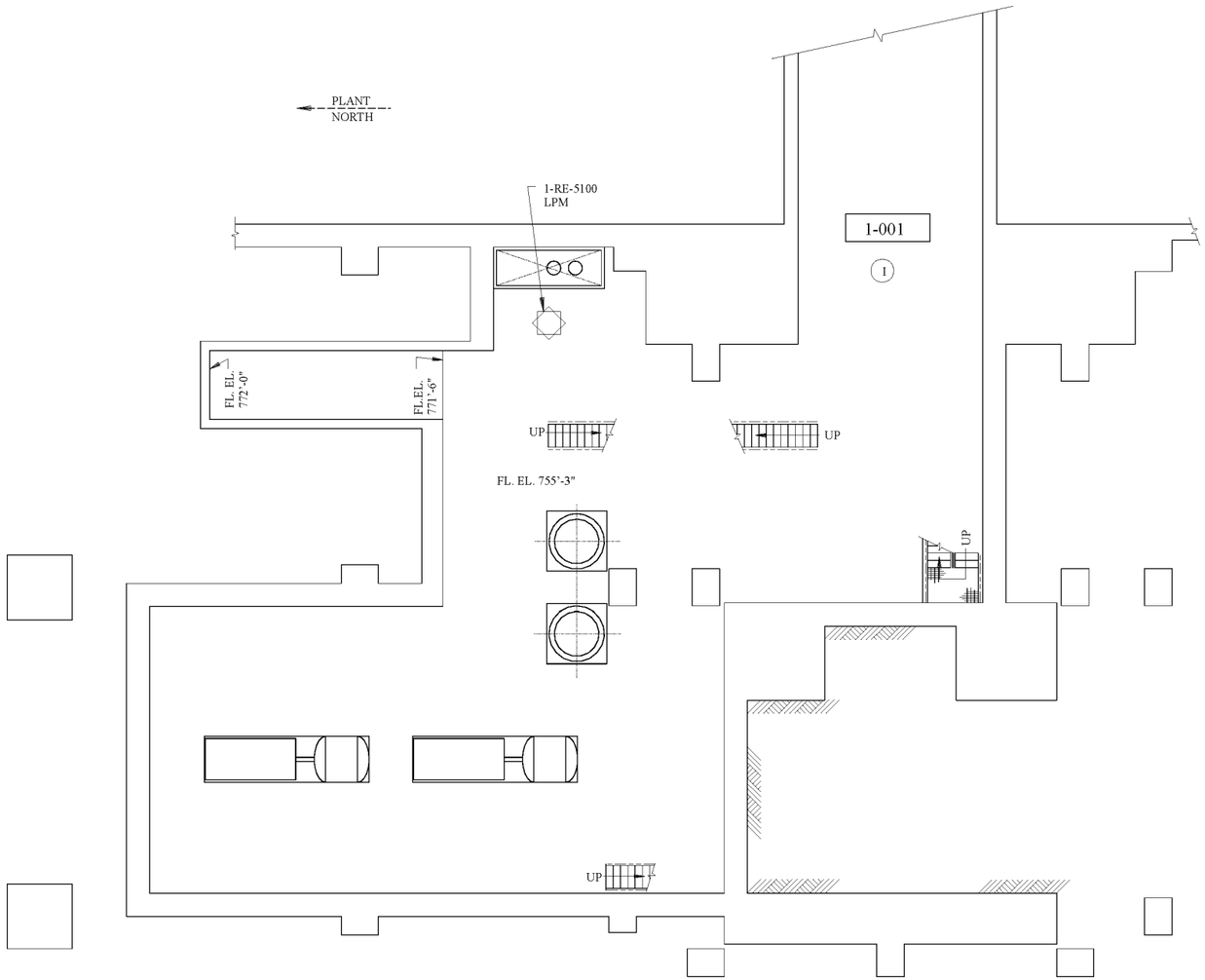
NON-SAFETY

TXU POWER
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 1
TURBINE BUILDING
PLAN AT EL. 810'-6" & 833'-0"

DWG. NO.	SH. NO.	REV.
M1-3500	23	CP-2

FINAL PRINT



PART - PLAN AT EL. 755'-4"

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-06 2004	RO 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0030-02-002945-01-00.

NOTES:

FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A1-0408

PLAN AT EL. 755'-4"

RM.#	RM. NAME
1-001	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-21.1

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

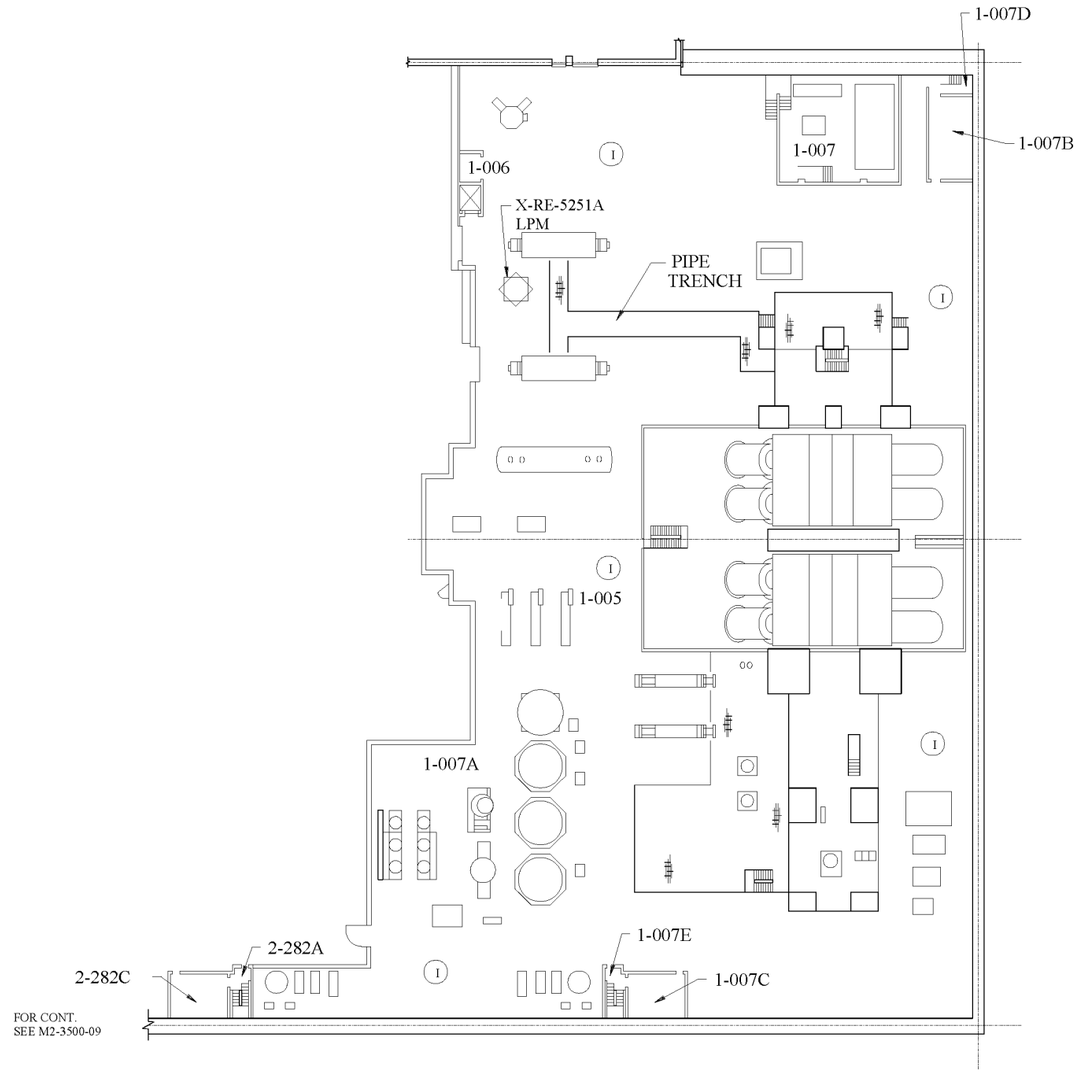
LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT
TURBINE BUILDING
PLAN AT EL. 755'-4"

DWG. NO.	SH. NO.	REV.
M1-3500	20	CP-1

FINAL PRINT

N



PLAN AT EL 778'-0"
TURBINE BUILDING
BASEMENT FLOOR PLAN

REV	DWN	CHKD	APVD	REMARKS
CP-1	KJ 07-07 2004	RJ 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0031-02-002945-01-00.

NOTES:

FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A1-0413-01

PLAN AT EL. 778'-0"

RM.#	RM. NAME
1-005	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
1-006	
1-007	
1-007A	
1-007B	
1-007C	
1-007D	
1-007E	
2-282A	
2-282C	

FSAR FIGURE 12.3-21.2

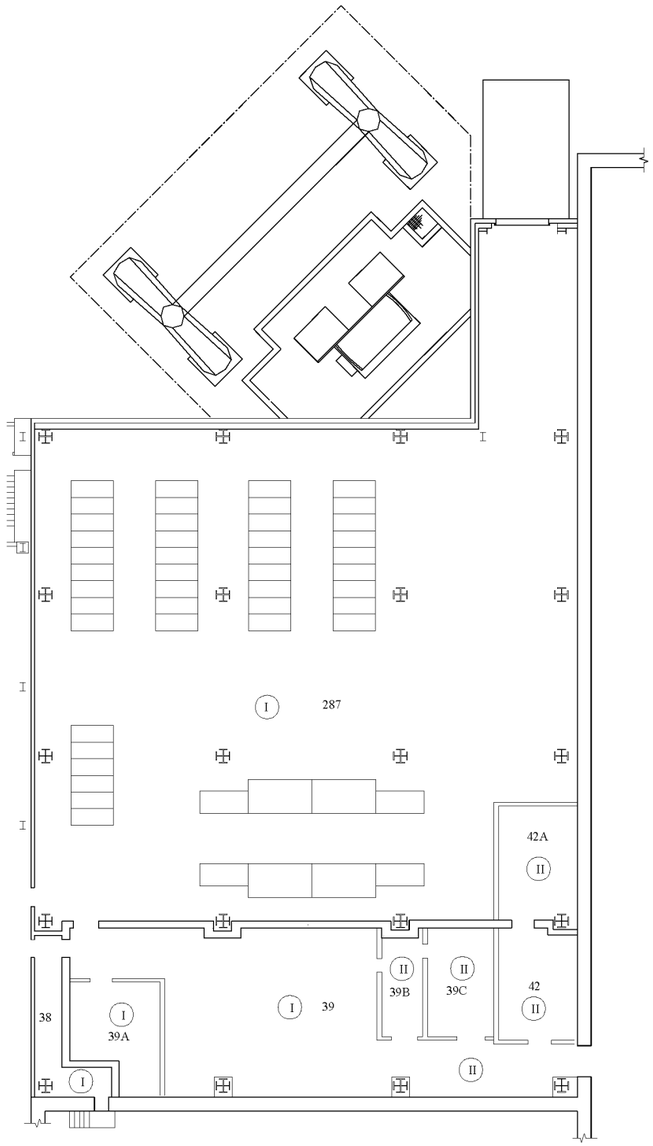
THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

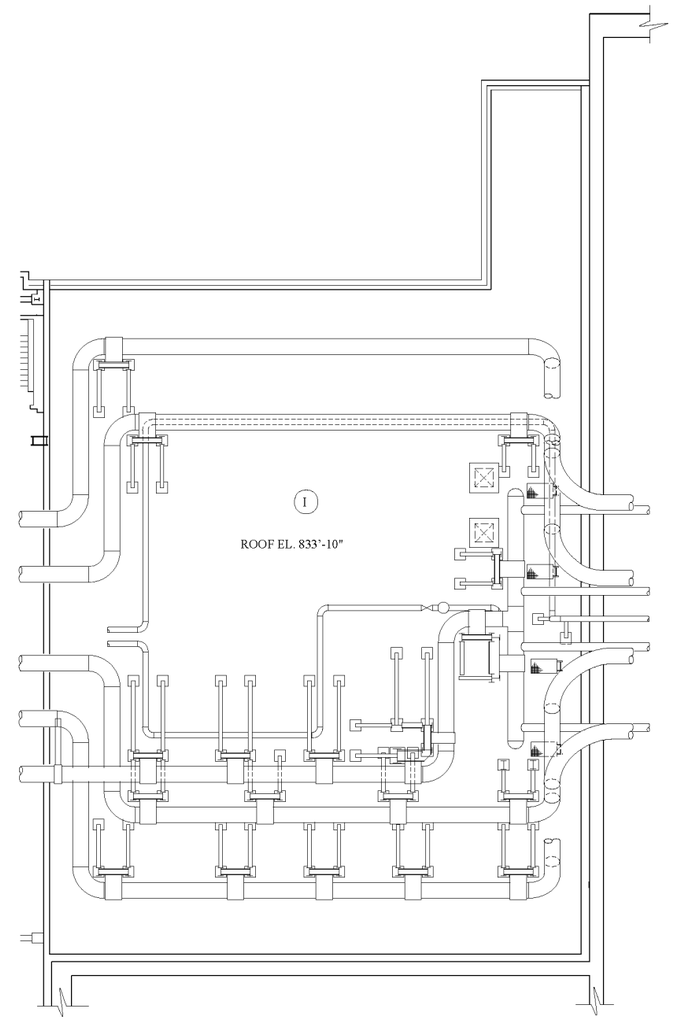
LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 1
TURBINE BUILDING
PLAN AT EL. 778'-0"

DWG. NO.	SH. NO.	REV.
M1-3500	21	CP-1



PLAN AT EL. 810'-6"



SWITCHGEAR ROOM ROOF
PLAN AT EL. 833'-10"

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-07 2004	RO 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0011-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A2-0403

PLAN AT EL. 810'-6"

Rm.#	RM. NAME
38	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
39	
39A	
39B	
39C	
42	
42A	
287	

FSAR FIGURE 12.3-22

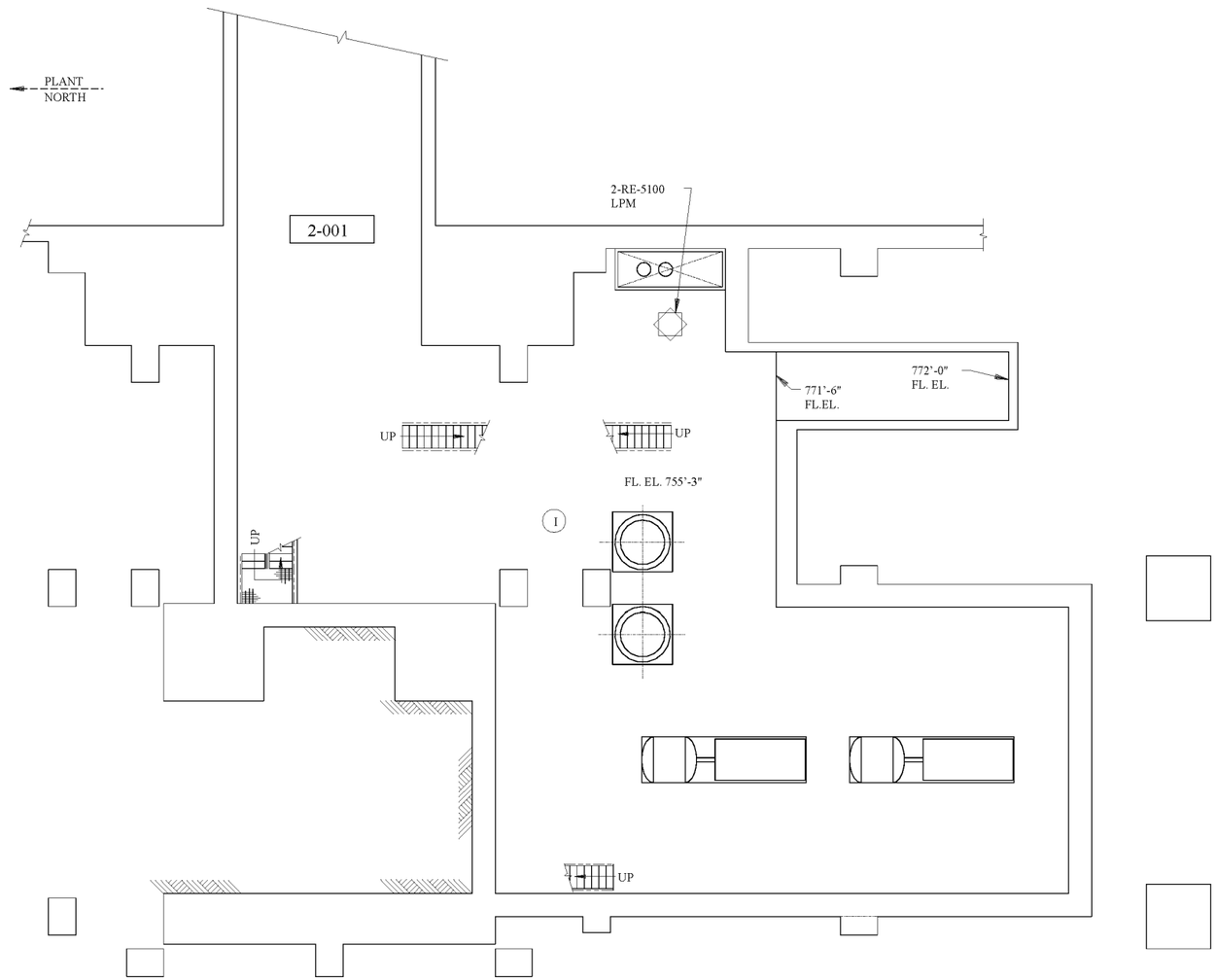
THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 2
TURBINE BUILDING
PLAN AT EL. 810'-6" & 833'-0"

DWG. NO.	SH. NO.	REV.
M2-3500	11	CP-1



PART - PLAN AT EL. 755'-4"

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-06 2004	RO 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0008-02-002945-01-00.

NOTES:
FOR LEGEND,ABBREVIATIONS,RADIATION ZONES
AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A1-0408

PLAN AT EL. 755'-4"

RM.#	RM. NAME
2-001	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-22.1

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

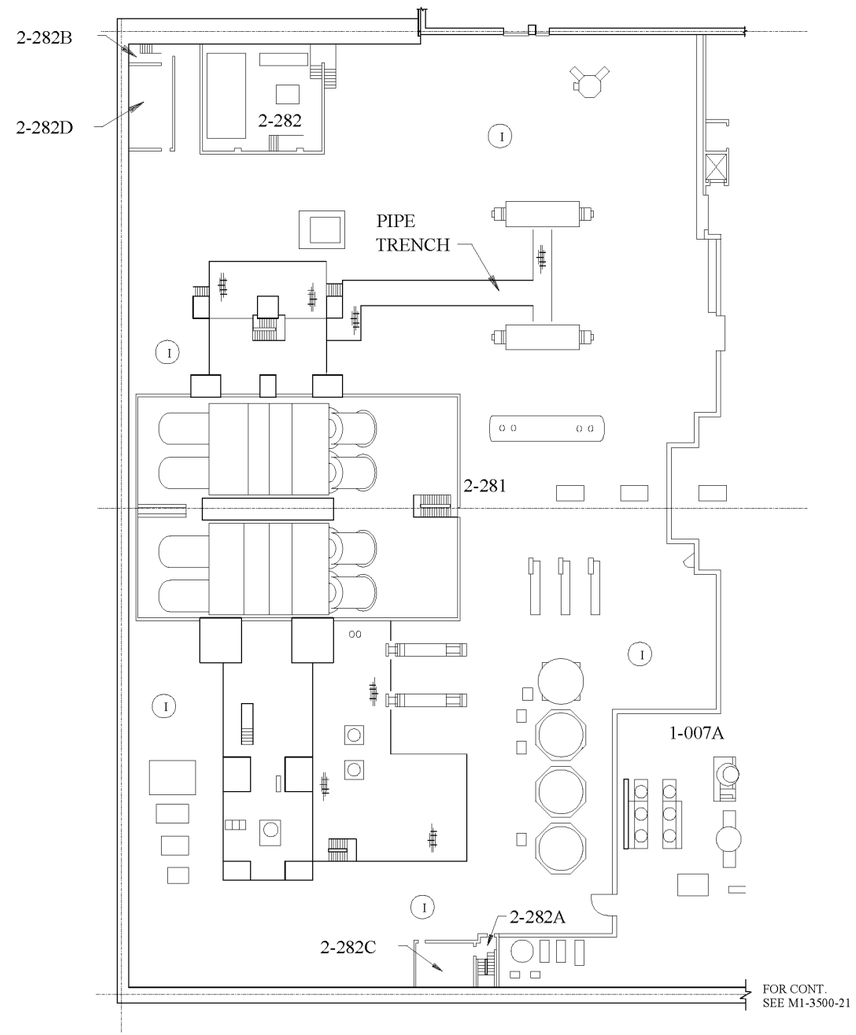
LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 2
TURBINE BUILDING
PLAN AT EL. 755'-4"

DWG. NO.	SH. NO.	REV.
M2-3500	08	CP-1

FINAL PRINT

N



PLAN AT EL 778'-0"
TURBINE BUILDING
BASEMENT FLOOR PLAN

REV	DWN	CHKD	APVD	REMARKS
CP-1	RG 07-07 2004	RG 07-07 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0009-02-002945-01-00.

NOTES:

FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A1-0413-01

PLAN AT EL. 778'-0"

RM.#	RM. NAME
1-007A	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
2-281	
2-282	
2-282A	
2-282B	
2-282C	
2-282D	

FSAR FIGURE 12.3-22.2

THIS DRAWING CREATED ELECTRONICALLY

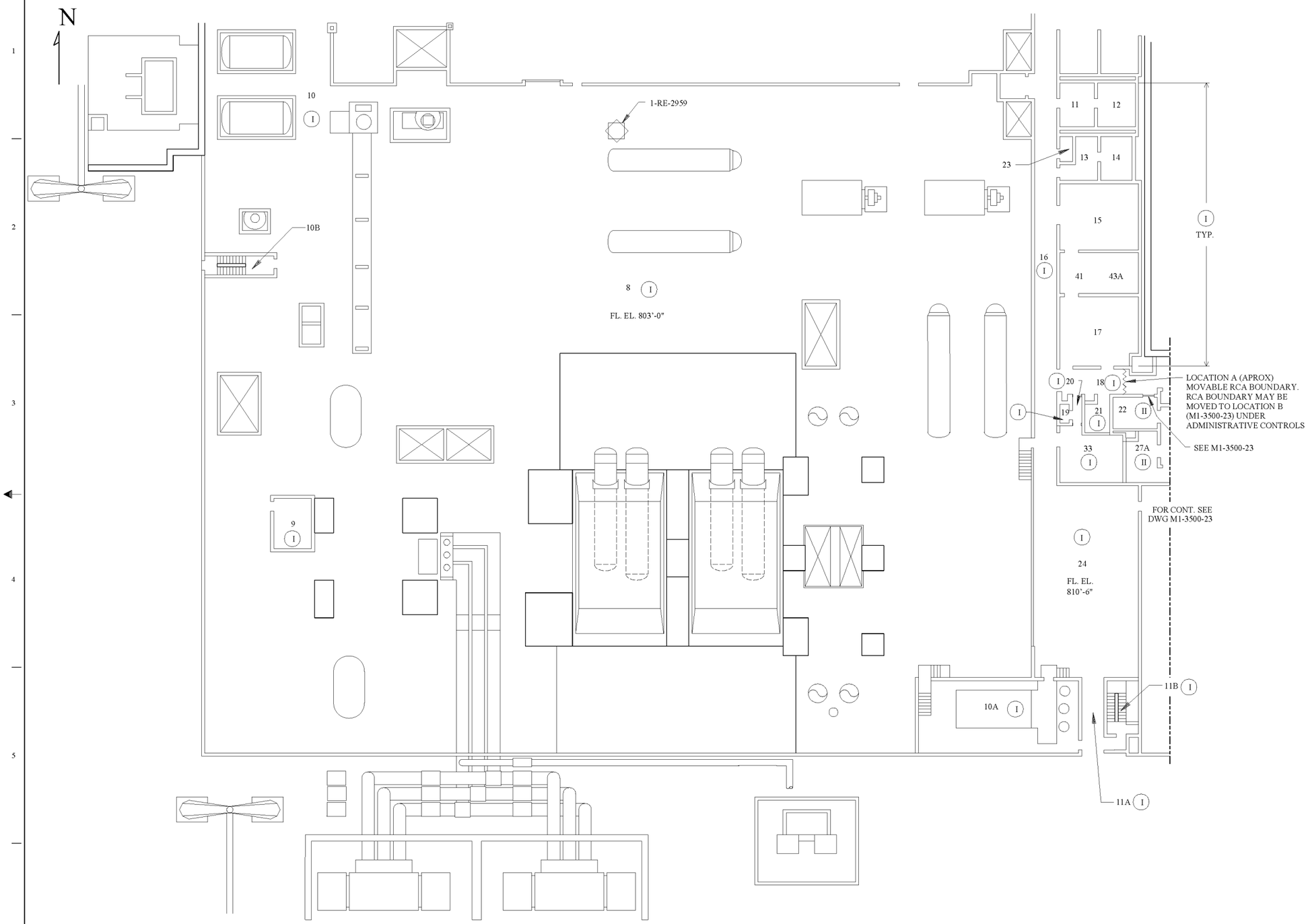
NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 2
TURBINE BUILDING
PLAN AT EL. 778'-0"

DWG. NO.	SH. NO.	REV.
M2-3500	09	CP-1

FINAL PRINT



PLAN AT EL. 803'-0" & EL. 810'-6"

MEZZANINE FLOOR PLAN

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-06 2004	RG 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0032-02-002945-01-00.

NOTES:

FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES, SEE DRAWING M1-3500-01

REFERENCE DRAWING: A1-0401

PLAN AT EL. 803'-0" & 810'-6"

Rm.#	RM. NAME
8	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
9	
10	
10A	
10B	
11A	
11B	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
27A	
33	
41	
43A	

FSAR FIGURE 12.3-23

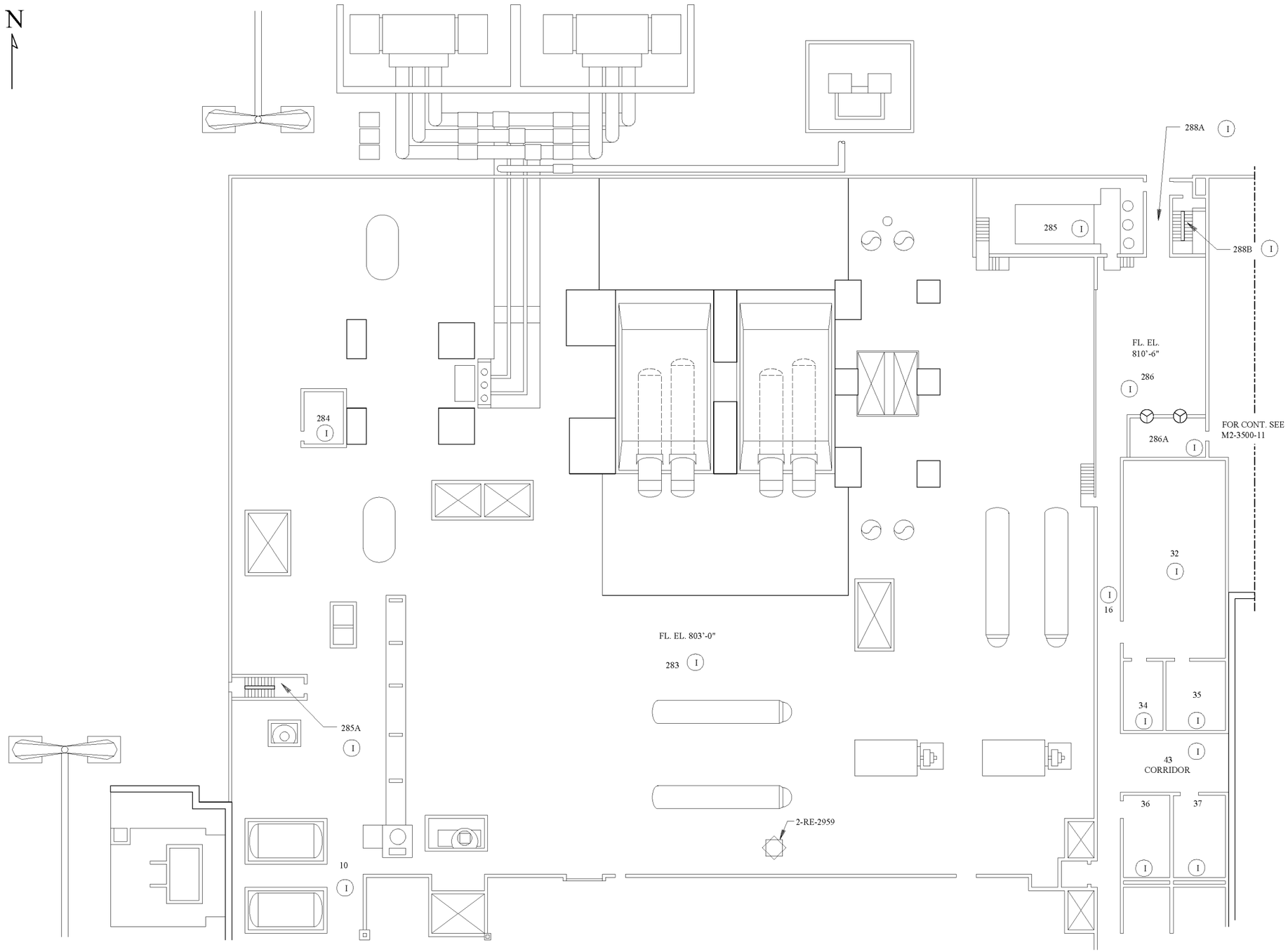
THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 1
TURBINE BUILDING
PLAN AT EL. 810'-6" & 803'-0"

DWG. NO.	SH. NO.	REV.
M1-3500	22	CP-1



PLAN AT EL. 803'-0" & EL. 810'-6"
MEZZANINE FLOOR PLAN

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-06 2004	BG 07-07 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0010-02-002945-01-00.

NOTES:

FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A2-0401

PLAN AT EL. 803'-0" & 810'-6"

RM.#	RM. NAME
10	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
16	
2-32	
34	
35	
1-36	
1-37	
43	
283	
284	
285	
285A	
2-286	
2-286A	
288A	
288B	

FSAR FIGURE 12.3-23.1

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 2
TURBINE BUILDING
PLAN AT EL. 810'-6" & 803'-0"

DWG. NO.	SH. NO.	REV.
M2-3500	10	CP-1

FINAL PRINT

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-07 2004	RG 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0001-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. ROOMS 62A AND 62B MAY EXCEED ZONE II LIMIT DURING RHR SYSTEM OPERATION.

REFERENCE DRAWING: A2-0500 ,S2-0600 ,S2-0602

PLAN AT EL. 790'-6"

RM. # ROOM NAME

153, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 74A — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PLAN AT EL. 773'-0"

51, 52, 53, 54, 55, 56A, 56B, 57, 58, 59, 60, 61, 62 — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

Plan at EL. 785'-6"

62A, 62B, 62C, 62D, 62E, THRU, 62H — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-23.2

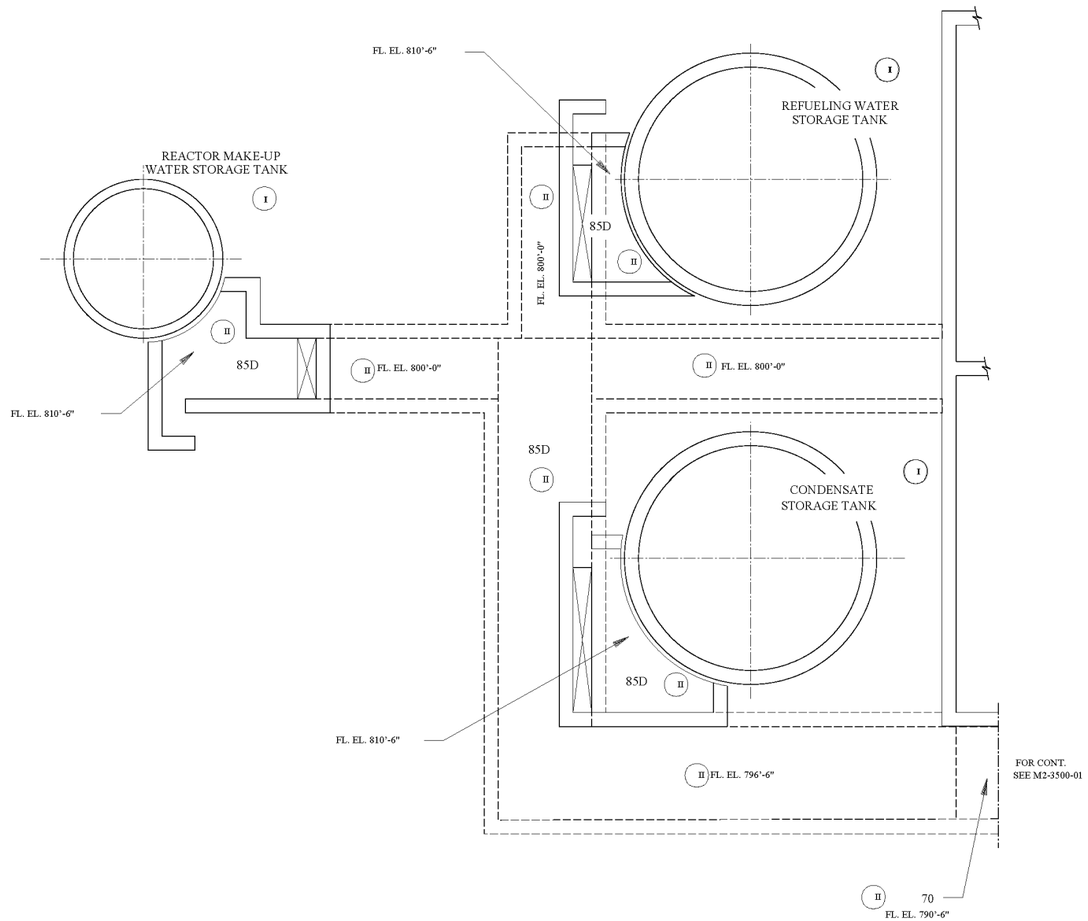
THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 2
CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 773'-0",785'-6" & 790'-6"

DWG. NO.	SH. NO.	REV.
M2-3500	01	CP-1



PLAN AT EL. 810'-6"

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-07 2004	RG 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0002-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. ROOM 85D CONTAINS SOURCES WHICH MAY EXCEED ZONE III LIMIT DURING REFUELING WATER TRANSFER.

REFERENCE DRAWING: A2-0500
S2-0318

PLAN AT EL. 810'-6" & BELOW

Rm. #	ROOM NAME
70, 85D	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-23.3

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 2
CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 810'-6" & BELOW

DWG. NO.	SH. NO.	REV.
M2-3500	02	CP-1

FINAL PRINT

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-2	DLK 02-01 2006	MM 02-01 2006		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA 2005-003364-07-00 PER SK-0007-05-003364-07-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. DELETED R

REFERENCE DRAWING: A2-0501
S2-0605
S2-0618
S2-0519

PLAN AT EL. 808'-0" & 812'-0"

RM. #	ROOM NAME
153, 156A, 154E, 154F, 154G, 154H, 154I, 154J, 154K, 154L, 154A, 154B, 154C, 154D	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PLAN AT EL. 810'-6"

68, 69, 77A, 77B, 78, 79, 80, 81, 82, 83, 84, 85, 85A, 85B, 85C — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 800'-6"

75, 76 — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 819'-6"

155A FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 821'-0"

86, 87 — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 822'-9"

155B FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-23.4

THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT-UNIT 2
CONTAINMENT & SAFEGUARD BUILDING
PLAN AT EL. 808'-0" & 810'-6"

DWG. NO.	SH. NO.	REV.
M2-3500	03	CP-2

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	EG 07-07 2004	RG 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0004-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. ROOM 98 AREA NEAR ENTRANCE TO ROOM 97 MAY EXCEED ZONE III LIMIT.

REFERENCE DRAWING: A2-0502
S2-0608
S2-0522
S2-0618

PLAN AT EL. 831'-6" & 832'-6"

Rm.#	RM. NAME
155B	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
155C	
156B	
158	
157	
155H	
155I	
155J	
155K	
155D	
155E	
155F	
155G	
88	
89	
90	
91	
92	
93	
94	
95A&B	
96	
96A	
96B	
99A	
99B	
99C	
99D	

PARTIAL PLAN AT EL. 841'-6"

97, 98, 99 — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 842'-0"

154M, 161B — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 849'-0"

159 FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-23.5

THIS DRAWING CREATED ELECTRONICALLY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 2
CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 831'-6" & 832'-6"

DWG. NO.	SH. NO.	REV.
M2-3500	04	CP-1

[redacted]

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-07 2004	RO 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0005-02-002945-01-00.

NOTES:

FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A2-0503
S2-0611
S2-0525
S2-0528

PLAN AT EL. 852'-6" & EL. 860'-0"

Rm.#	RM. NAME
155L, 163, 161C, 155P, 155H, 155I, 155J, 155K, 155M, 155N, 100, 100A THRU 100H, 101, 102, 103, 104, 105, 105A, 105B	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 851'-6"

155L, 161B — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 871'-6"

155N — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

PARTIAL PLAN AT EL. 886'-0"

161D — FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS

FSAR FIGURE 12.3-23.6

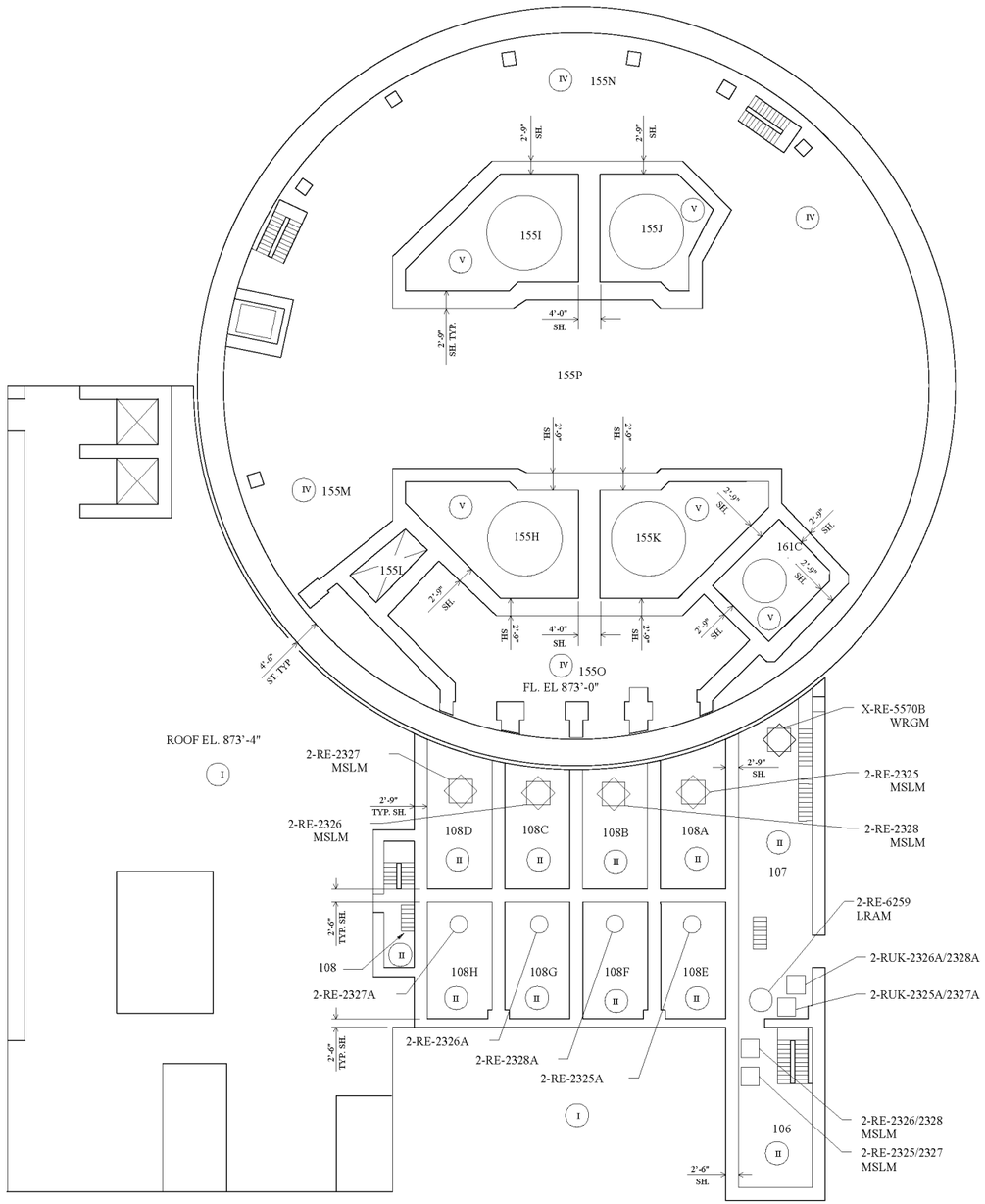
THIS DRAWING CREATED ELECTRONICALLY

NON-SAFETY

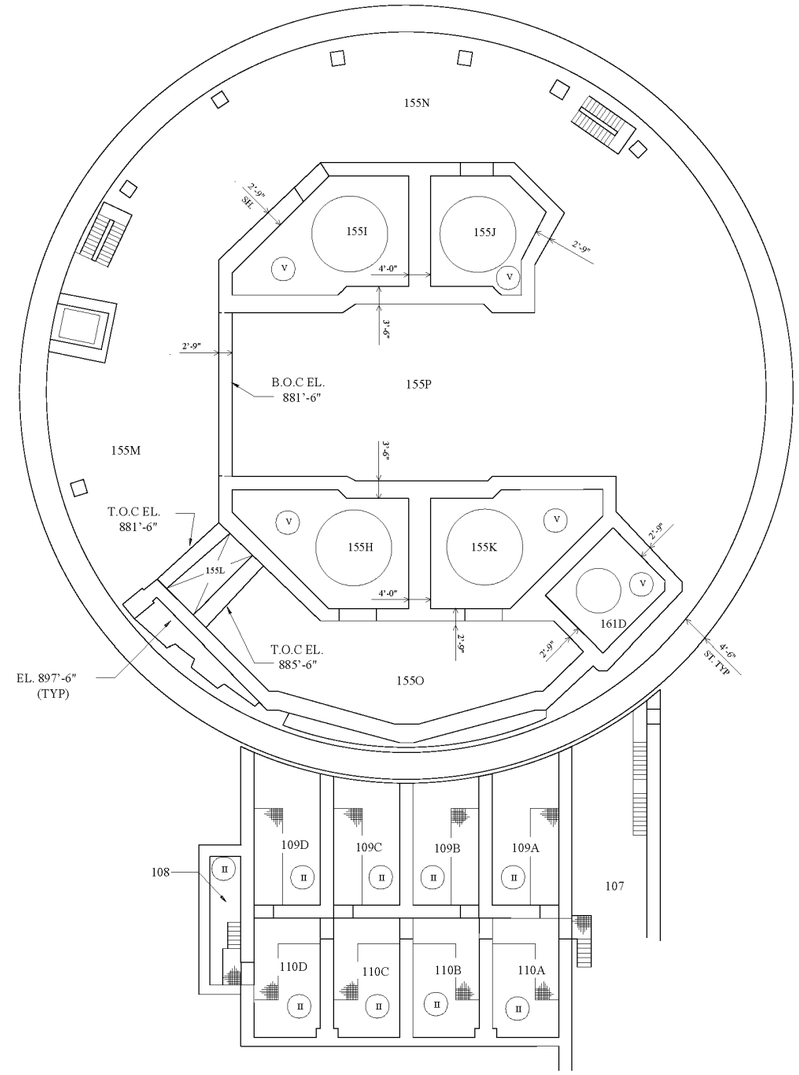
LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 2
CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 852'-6" & 860'-0"

DWG. NO.	SH. NO.	REV.
M2-3500	05	CP-1



PLAN AT EL. 873'-6"



PLAN AT EL. 880'-6"

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-07 2004	RO 07-08 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0006-02-002945-01-00.

NOTES:
1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A2-0504
S2-0528
S2-0530
S2-0614

PLAN AT EL. 873'-0" & 880'-6"

Rm.#	RM. NAME
155L	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
161C,D	
155P	
155O	
155H	
155I	
155J	
155K	
155M	
155N	
106	
107	
108	
108A THRU 108H	
109A THRU 109D	
110A THRU 110D	

FSAR FIGURE 12.3-23.7

THIS DRAWING CREATED ELECTRONICALLY

Amendment 98

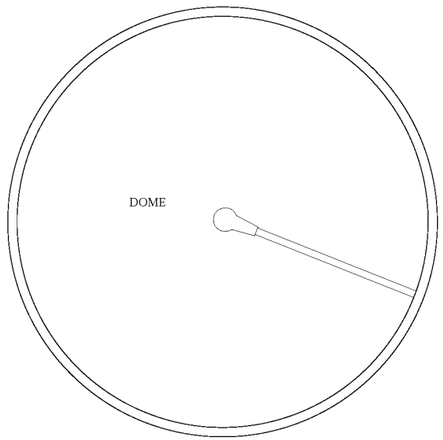
NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

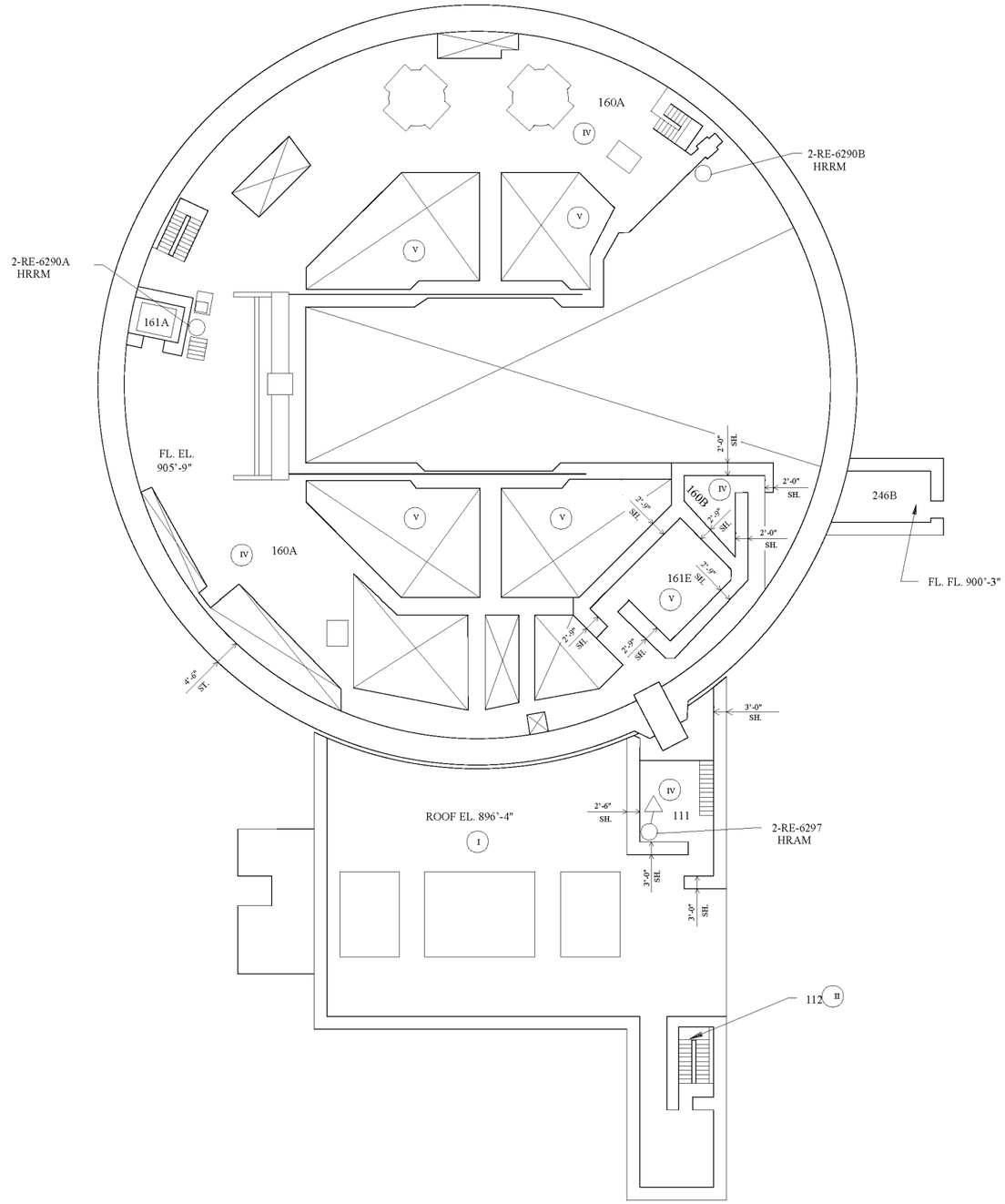
RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 2
CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 873'-6" & 880'-6"

DWG. NO.	SH. NO.	REV.
M2-3500	06	CP-1

FINAL PRINT



PLAN AT CONTAINMENT DOME PLATFORM
AT EL. 1000'-6"



PLAN AT EL. 905'-9" & 896'-4"

REV	DWN	CHKD	APVD	REMARKS
CP-1	BP 07-07 2004	RG 07-07 2004		THIS DRAWING REVISED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0007-02-002945-01-00.

NOTES:

FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.

REFERENCE DRAWING: A2-0505
S2-0617

PLAN AT EL. 905'-9" & 896'-4"

Rm. #	ROOM NAME
161E	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
160B	
160A	
161A	
DOME	
111	
112	
246B	

FSAR FIGURE 12.3-23.8

THIS DRAWING CREATED ELECTRONICALLY

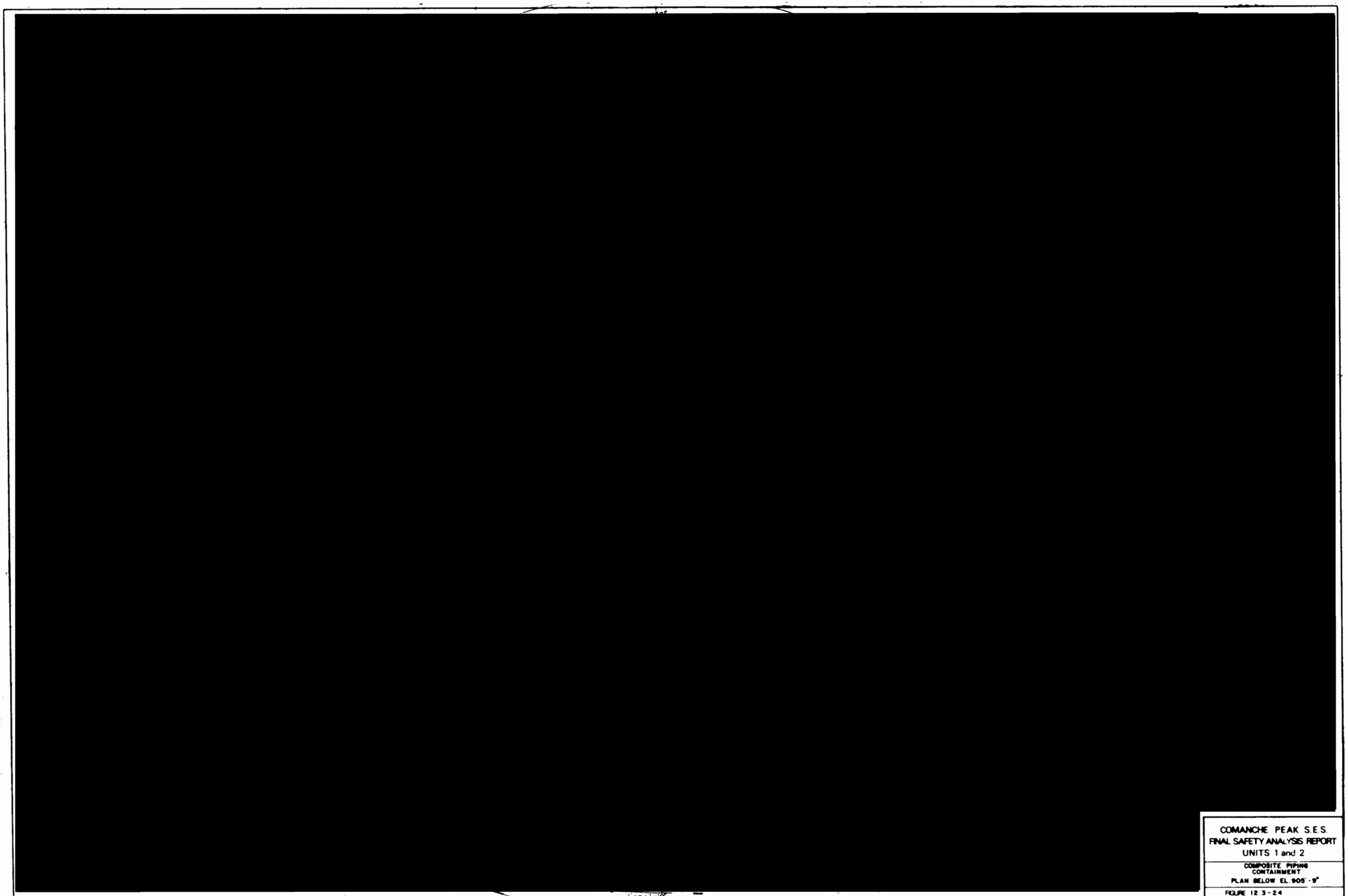
NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
PRIMARY PLANT - UNIT 2
CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 905'-9" & 896'-4"

DWG. NO.	SH. NO.	REV.
M2-3500	07	CP-1

FINAL PRINT



COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

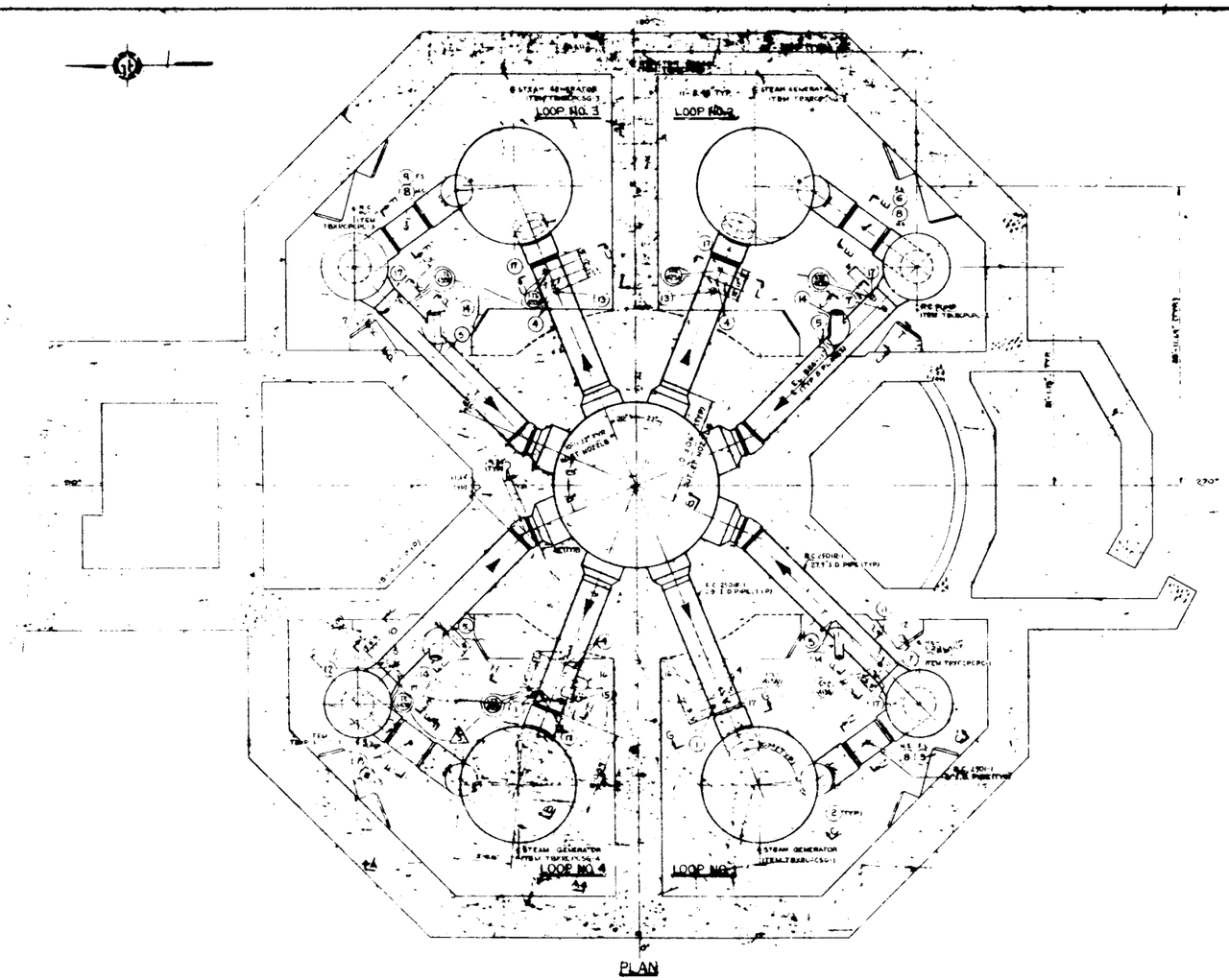
COMPOSITE PIPING
CONTAINMENT
PLAN BELOW EL. 905'-9"

FIGURE 12.3-24

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

COMPOSITE PIPING
CONTAINMENT
PLAN AT EL 816'-0" AND BELOW

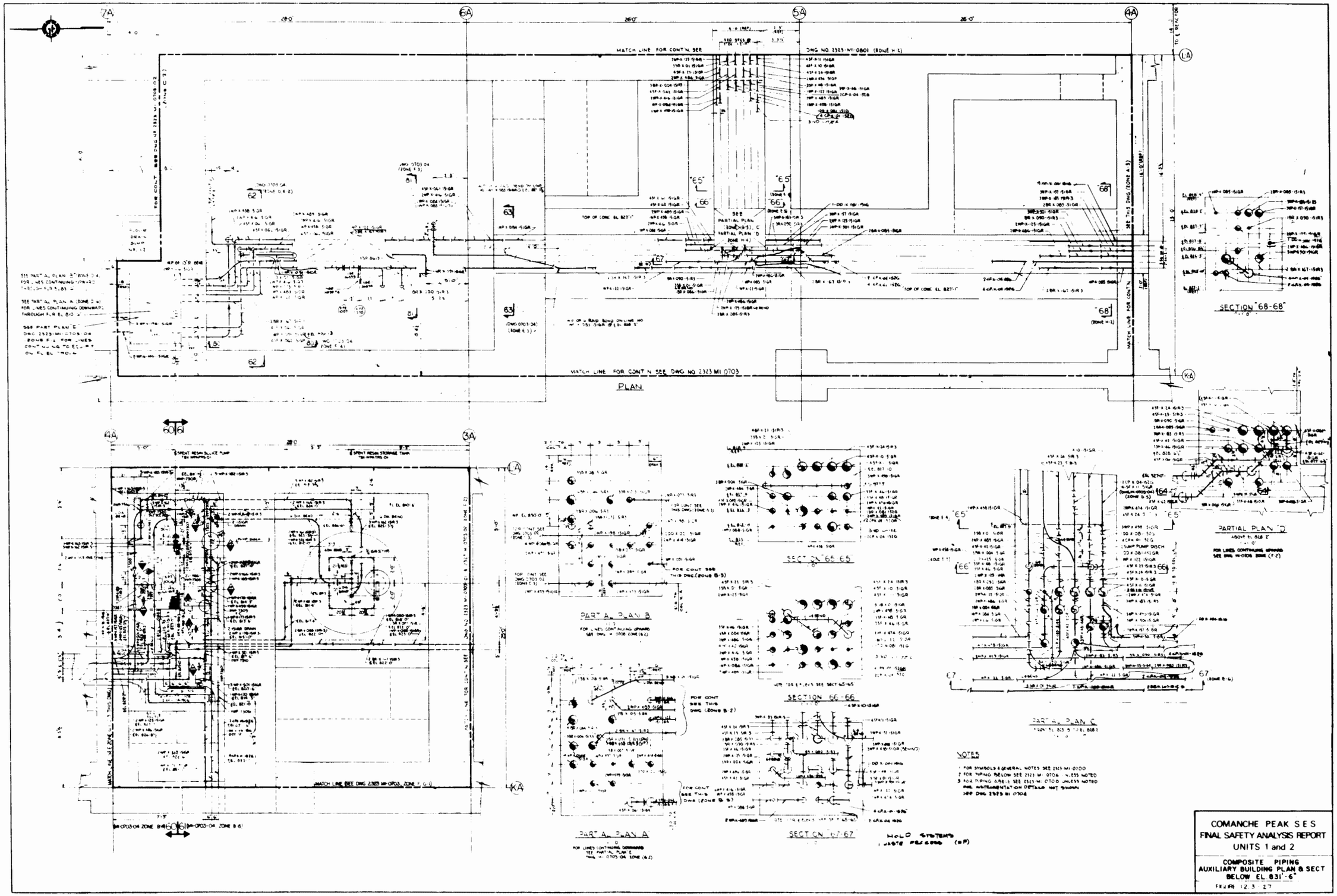
FIGURE 12.3-25

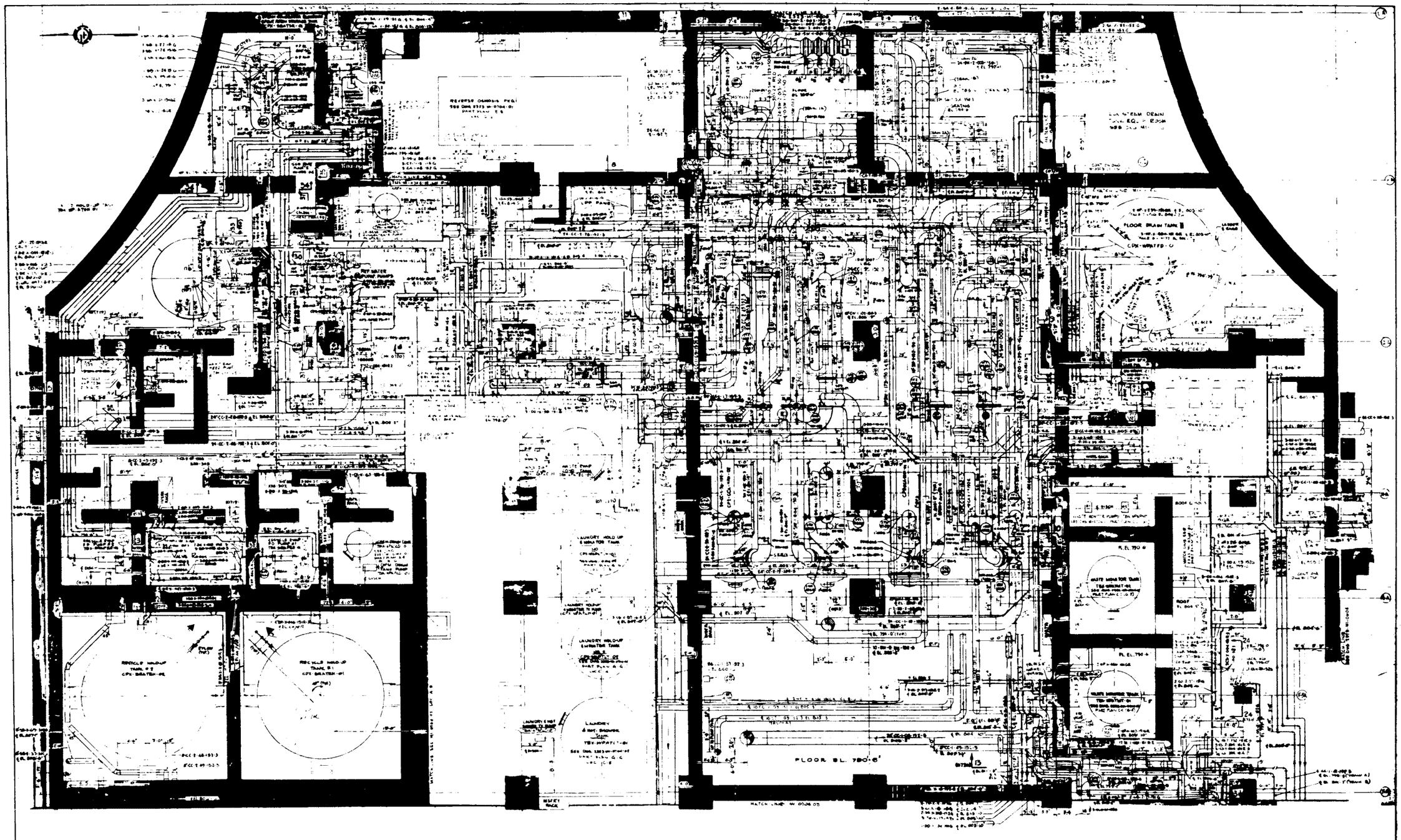


COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

REACTOR COOLANT LOOP
LAYOUT & DETAILS

FIGURE 12 3-


PLAN
SECTION "68-68"
PARTIAL PLAN D
PARTIAL PLAN C
PARTIAL PLAN B
PARTIAL PLAN A
SECTION 65-65
SECTION 66-66
SECTION 67-67
NOTES
COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2
COMPOSITE PIPING
AUXILIARY BUILDING PLAN & SECT
BELOW EL 831'-6"
FIGURE 12.3-27

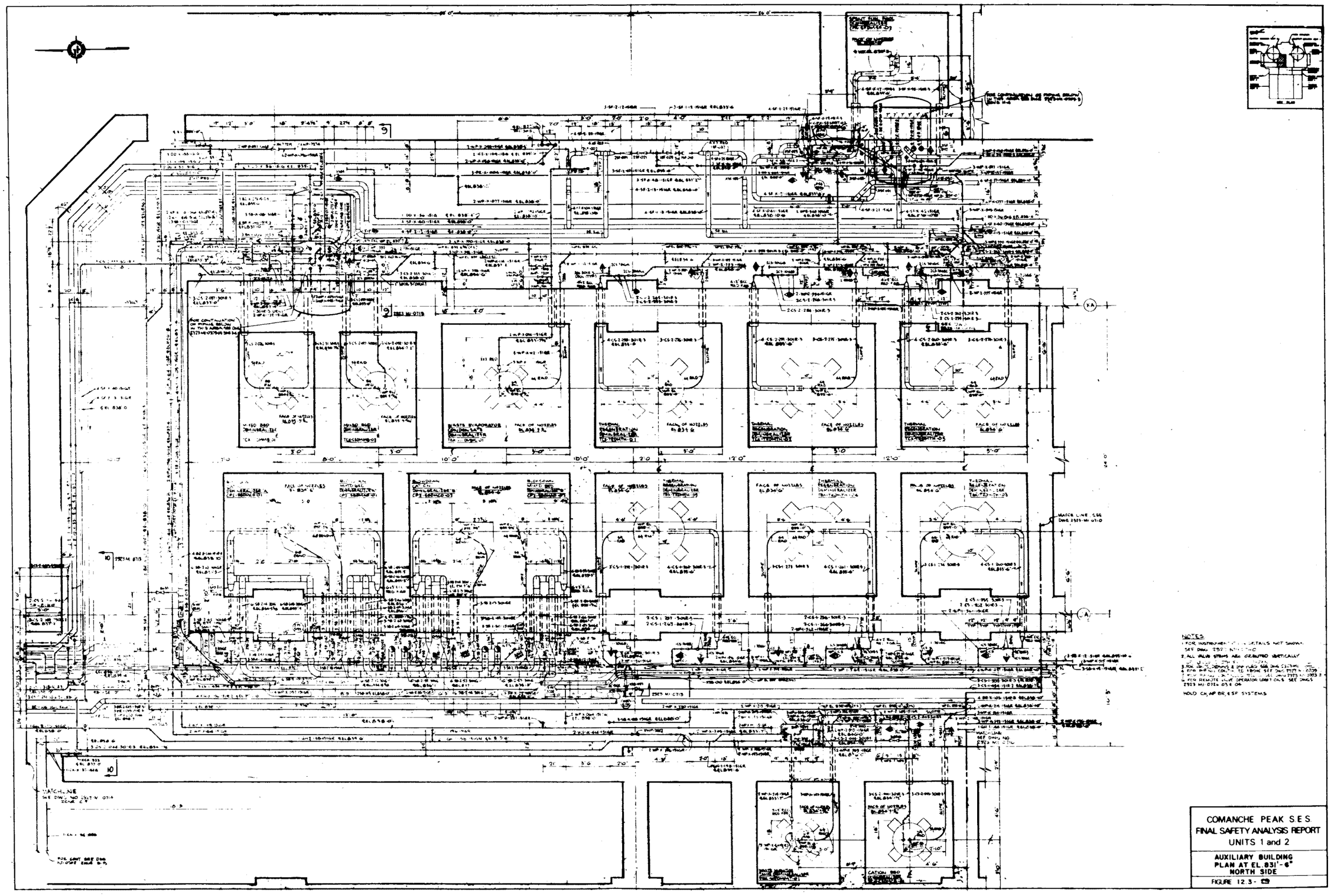


Note

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

COMPOSITE PIPING
AUXILIARY BUILDING PLAN
BELOW EL.810'-6"

FIGURE 12.3-26



NOTES

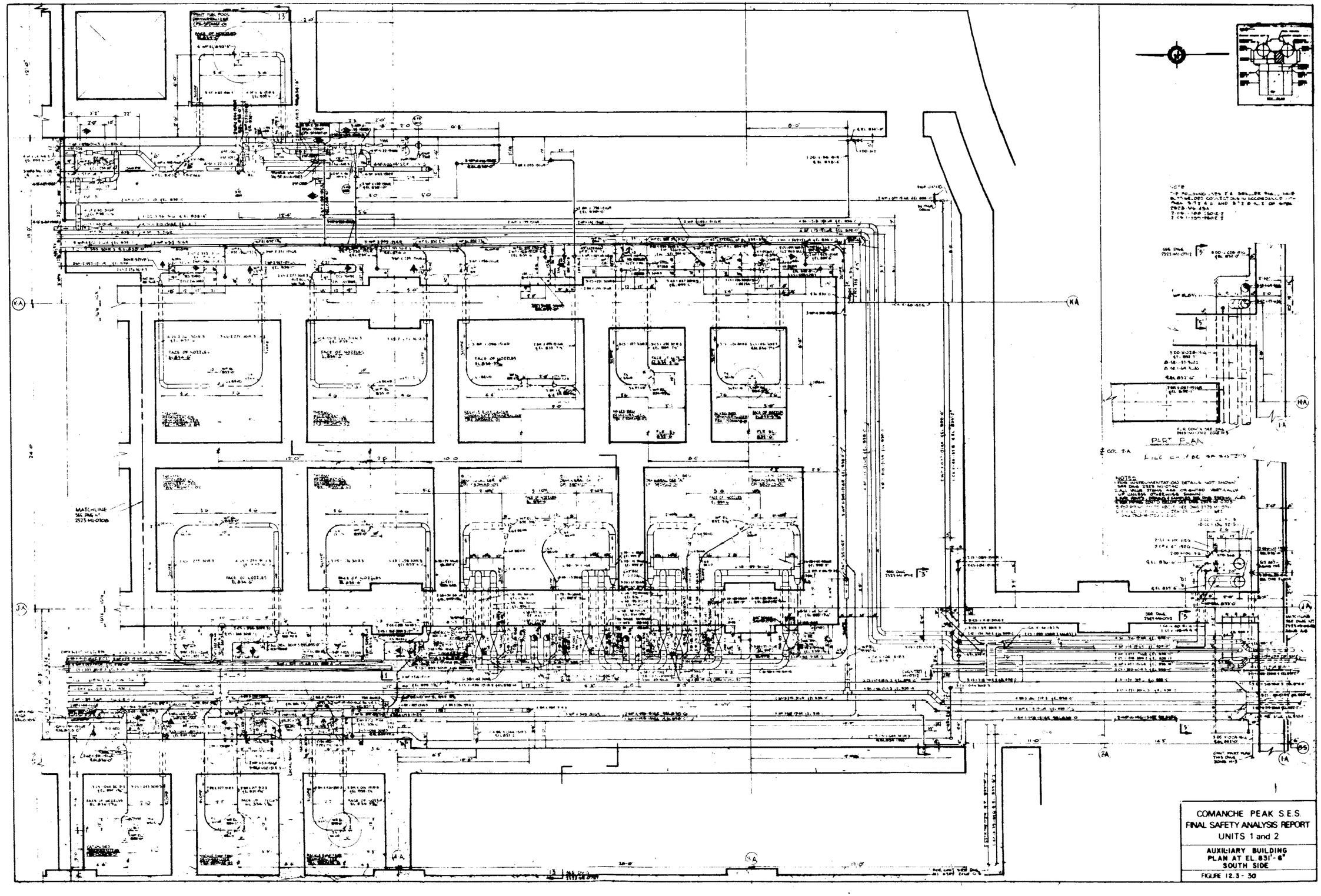
1. FOR INSTRUMENT [illegible] DETAILS NOT SHOWN SEE DWG. 2323-M1-[illegible]
2. ALL VALVE STEMS ARE ORIENTED VERTICALLY
3. FOR [illegible] SEE DWG 2323-M1-0709
4. FOR INSTALL CONDITIONS TO VENDOR SEE DWG 2323-M1-0709
5. FOR [illegible] SEE DWG 2323-M1-2323 & 2323-M1-0716 & 0718
6. FOR REMOTE VALVE OPERATOR LOCATIONS SEE DWGS 2323-M1-0716 & 0718

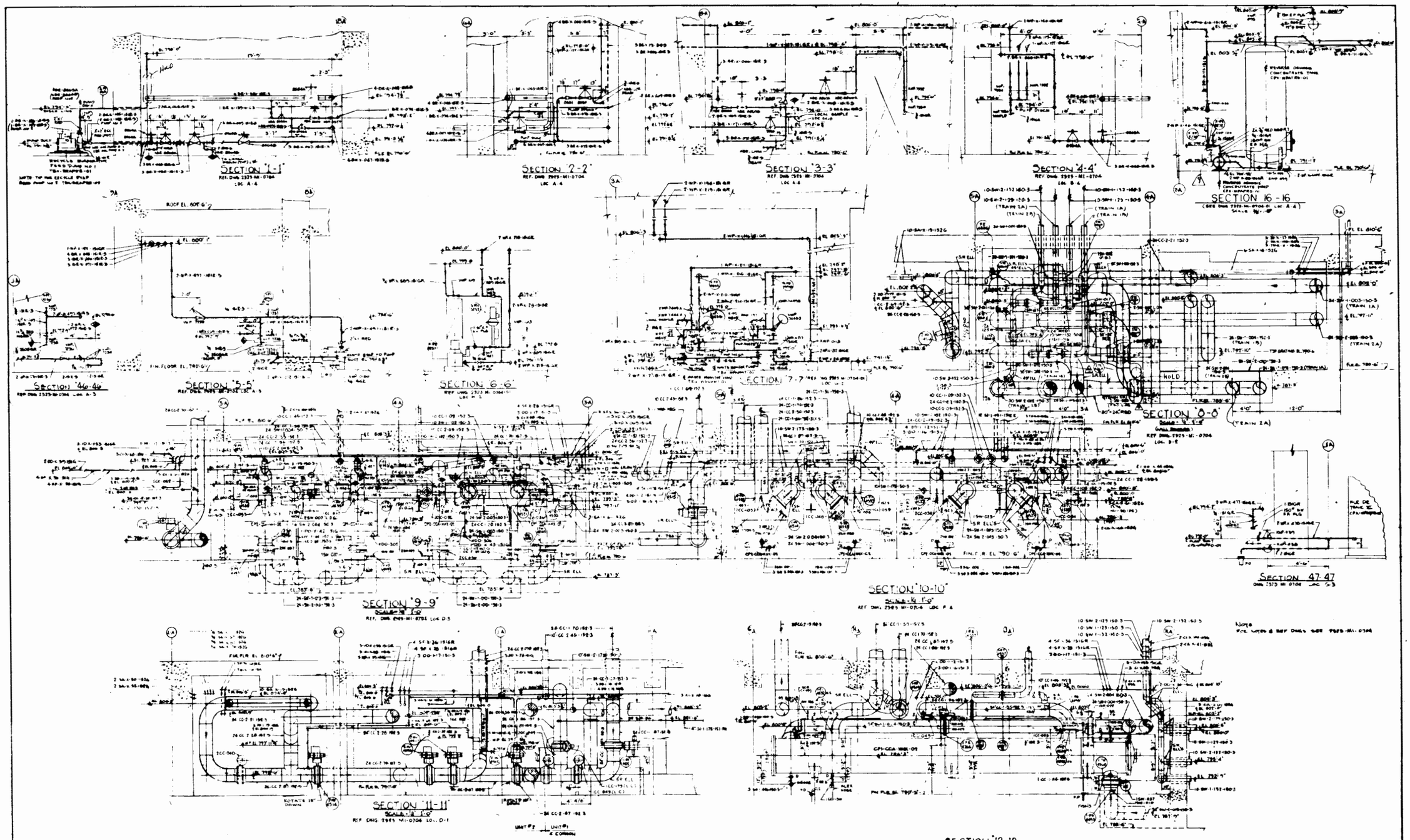
HOLD CH, AP BR, & SF SYSTEMS

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

AUXILIARY BUILDING
PLAN AT EL. 831'-6"
NORTH SIDE

FIGURE 12.3-[illegible]

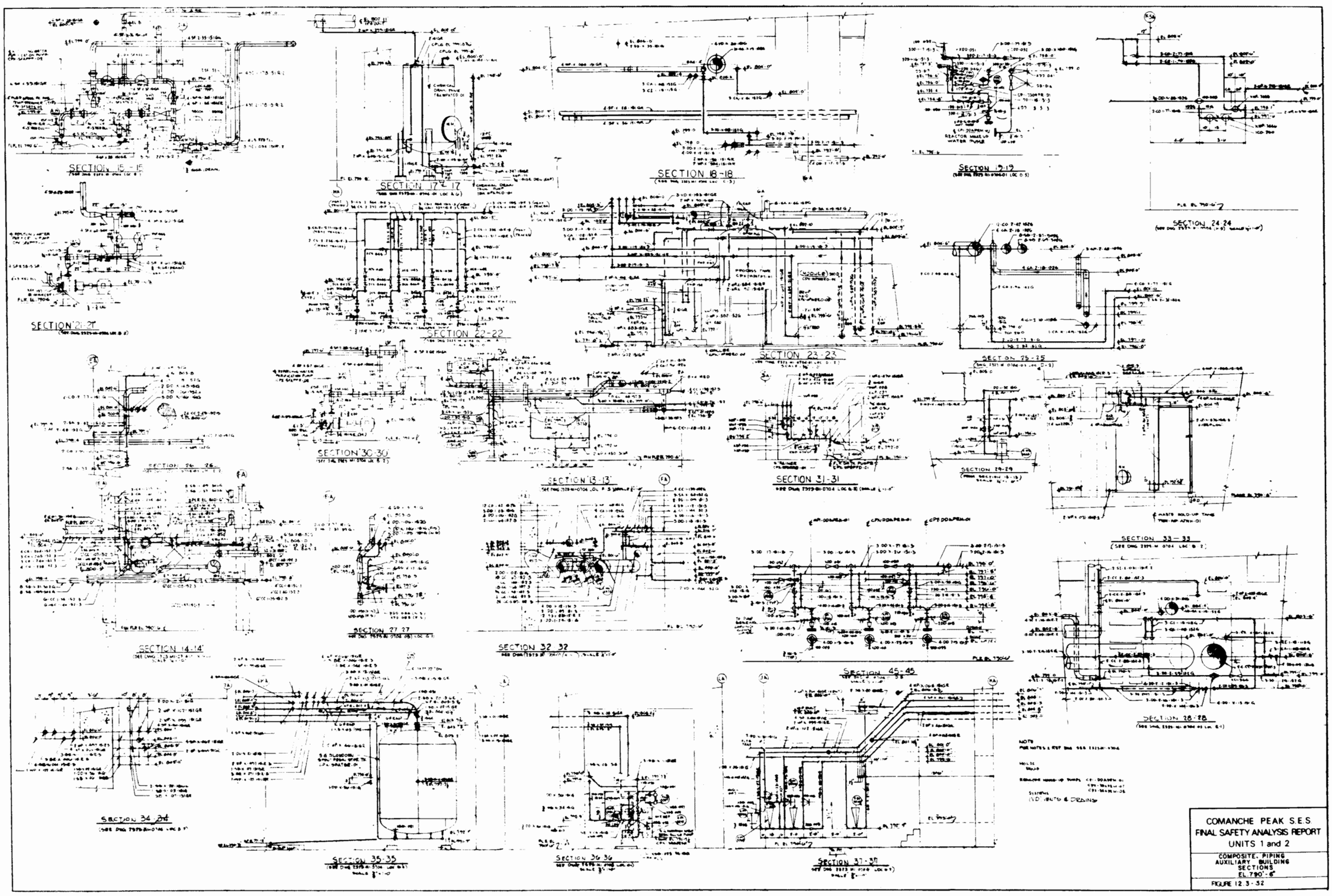

PART PLAN
NOTES
MATCHLINE
COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2
AUXILIARY BUILDING
PLAN AT EL. 831'-6"
SOUTH SIDE
FIGURE 12.3-30



COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

COMPOSITE PIPING
AUXILIARY BUILDING
SECTIONS

FIGURE 12.3-31



COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

COMPOSITE PIPING
AUXILIARY BUILDING
SECTIONS
EL. 790'-6"

FIGURE 12.3-32

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

FUEL TRANSFER TUBE
SHIELDING PROVISIONS

FIGURE 12.3-33 Sh. 1 of 3

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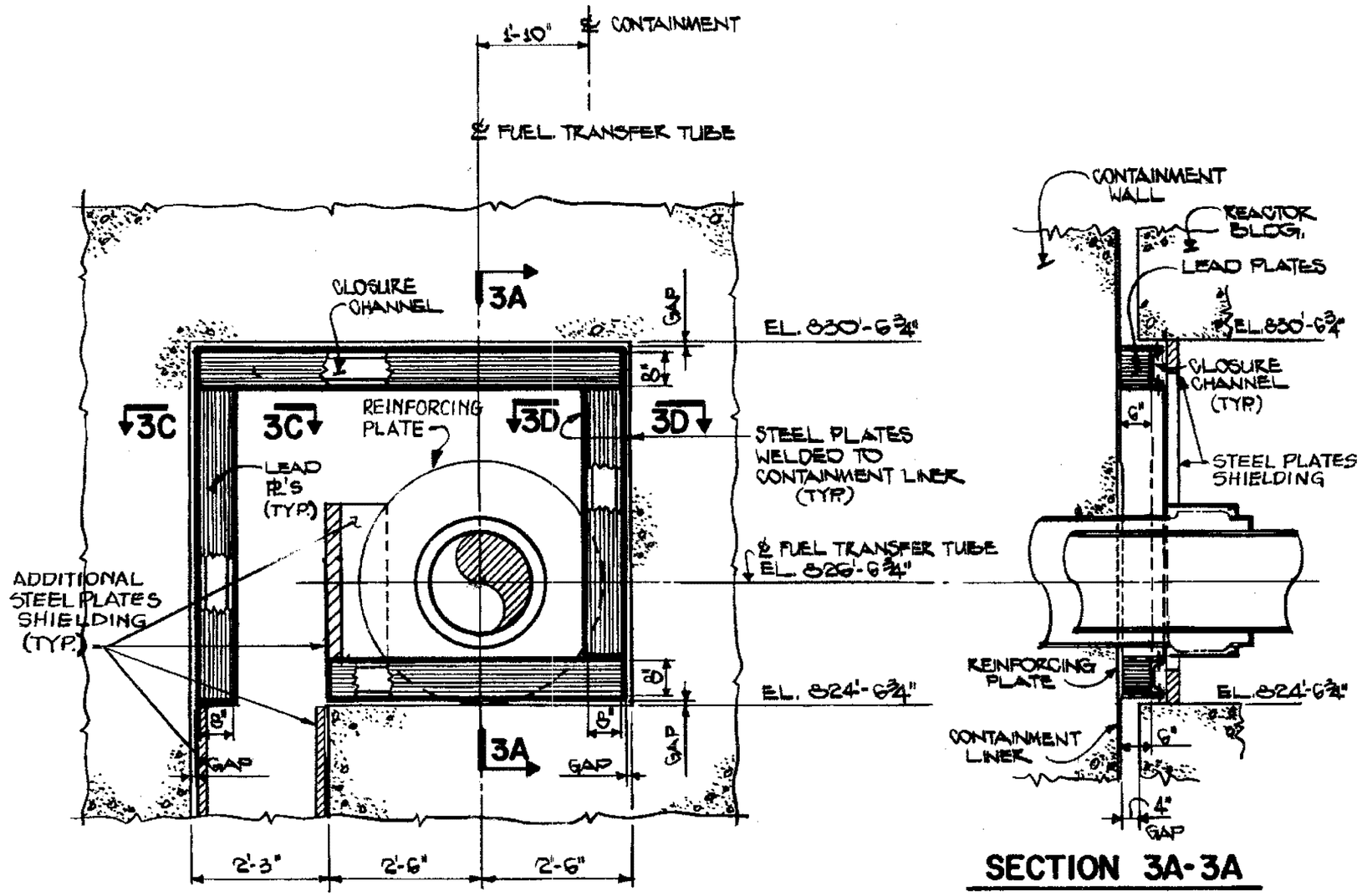
COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

FUEL TRANSFER TUBE
SHIELDING PROVISIONS

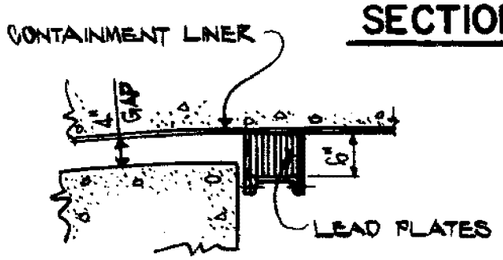
FIGURE 12.3-33 Sh. 2 of 3

5/76



SECTION 3-3

SECTION 3A-3A



SECTION 3C-3C (AS SHOWN)

SECTION 3D-3D (OPP. HAND)

Amendment 102

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

FUEL TRANSFER TUBE
SHIELDING PROVISIONS

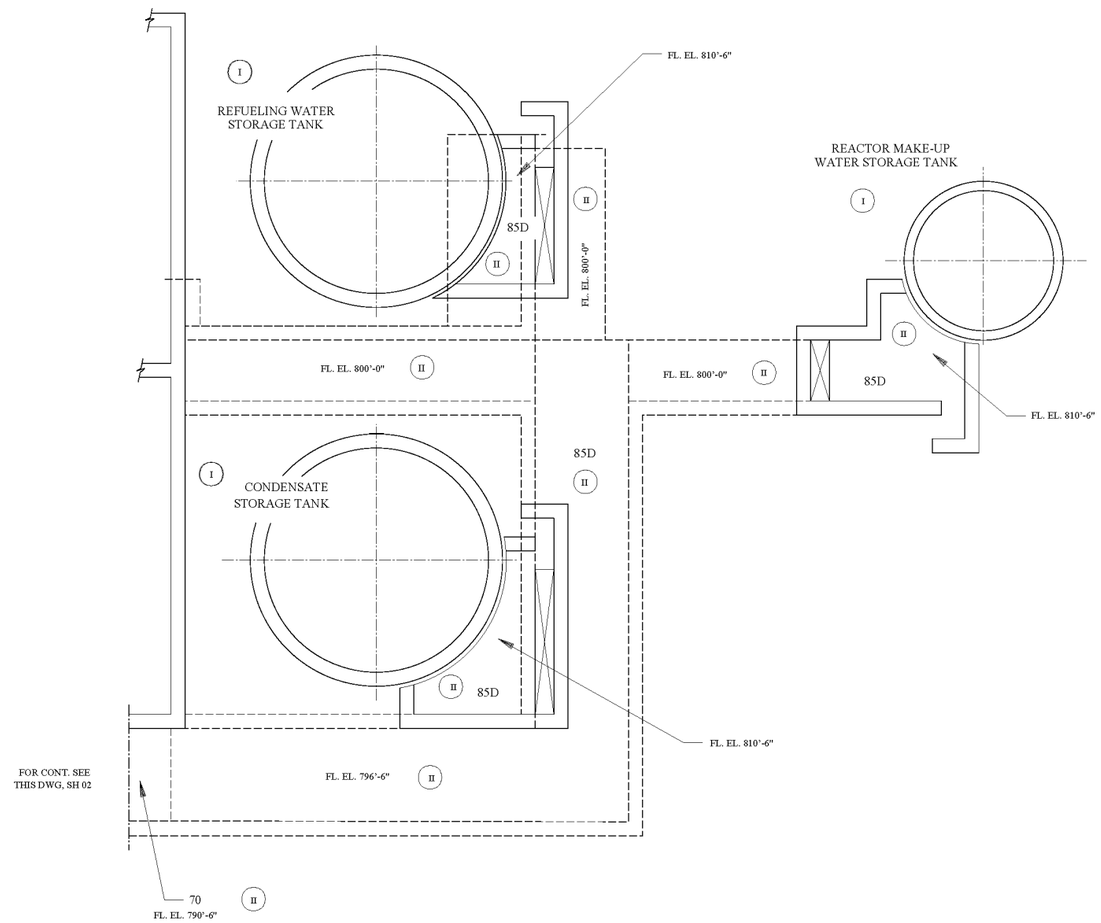
FIGURE 12.3-33 SH 3 OF 3

REV	DWN	CHKD	APVD	REMARKS
CP-1	RG 02-02 2004	EES 07-01 2004		THIS DRAWING CREATED TO INCORPORATE DESIGN CHANGE FDA-2002-002945-01-00 PER SK-0014-02-002945-01-00.

NOTES:

1. FOR LEGEND, ABBREVIATIONS, RADIATION ZONES AND GENERAL NOTES SEE M1-3500-01.
2. ROOM 85D CONTAINS SOURCES WHICH MAY EXCEED ZONE III LIMIT DURING REFUELING WATER TRANSFER

REFERENCE DRAWINGS: A1-0500
S1-0318



PLAN AT EL. 810'-6"

PLAN AT EL. 810'-6" & BELOW

RM. #	ROOM NAME
70	FOR ROOM NAMES SEE A1-0413 SERIES DRAWINGS
85D	

FSAR FIGURE 12.3-5.1

THIS DRAWING CREATED ELECTRONICALLY

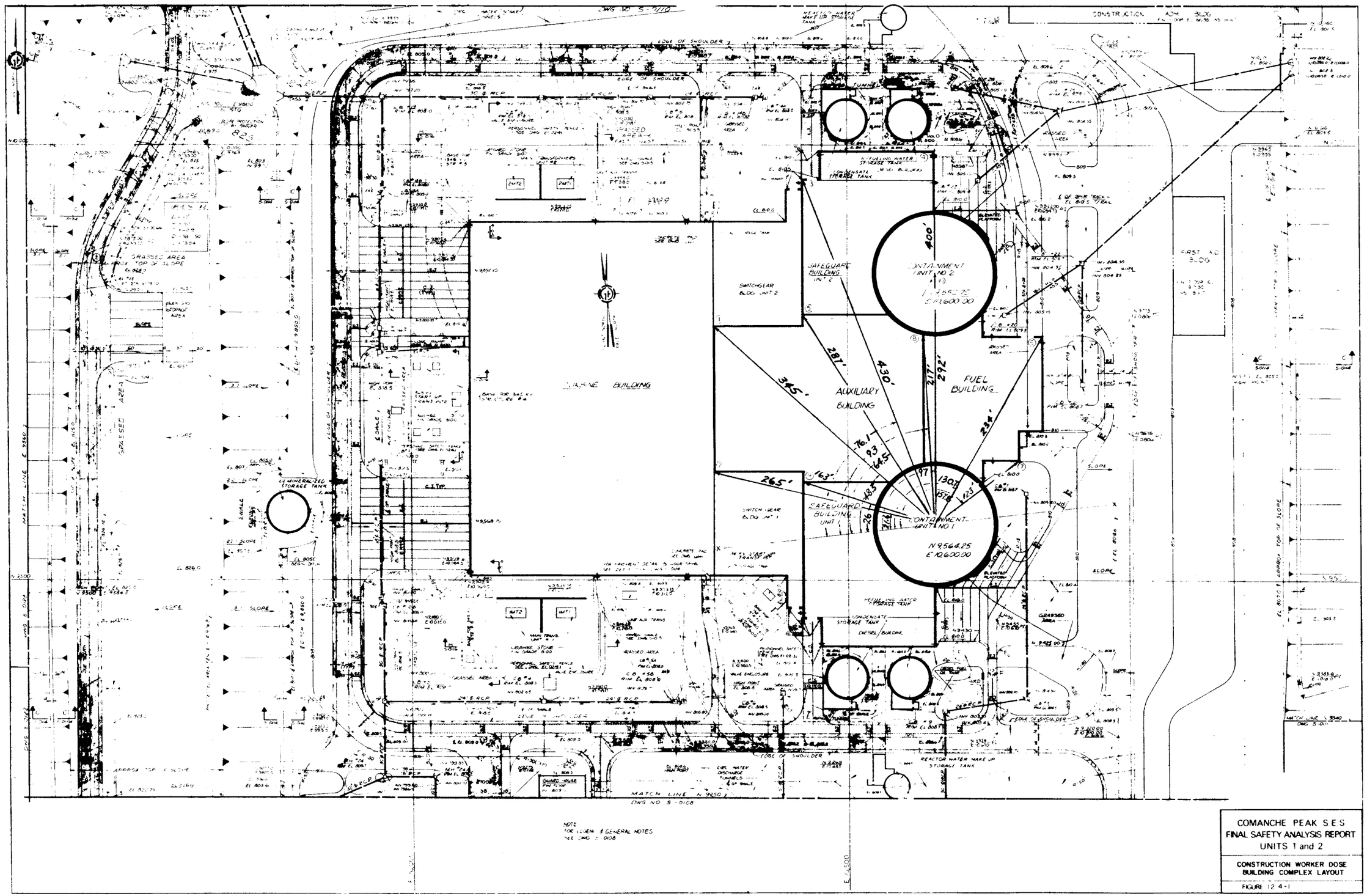
NON-SAFETY

LUMINANT
CPSES
GLEN ROSE, TEXAS

RADIATION ZONES & SHIELD THICKNESSES
UNIT 1 CONTAINMENT & SAFEGUARD BUILDING
PLANS AT EL. 810'-6" & BELOW

DWG. NO.	SH. NO.	REV.
M1-3500	03	CP-1

FINAL PRINT



COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

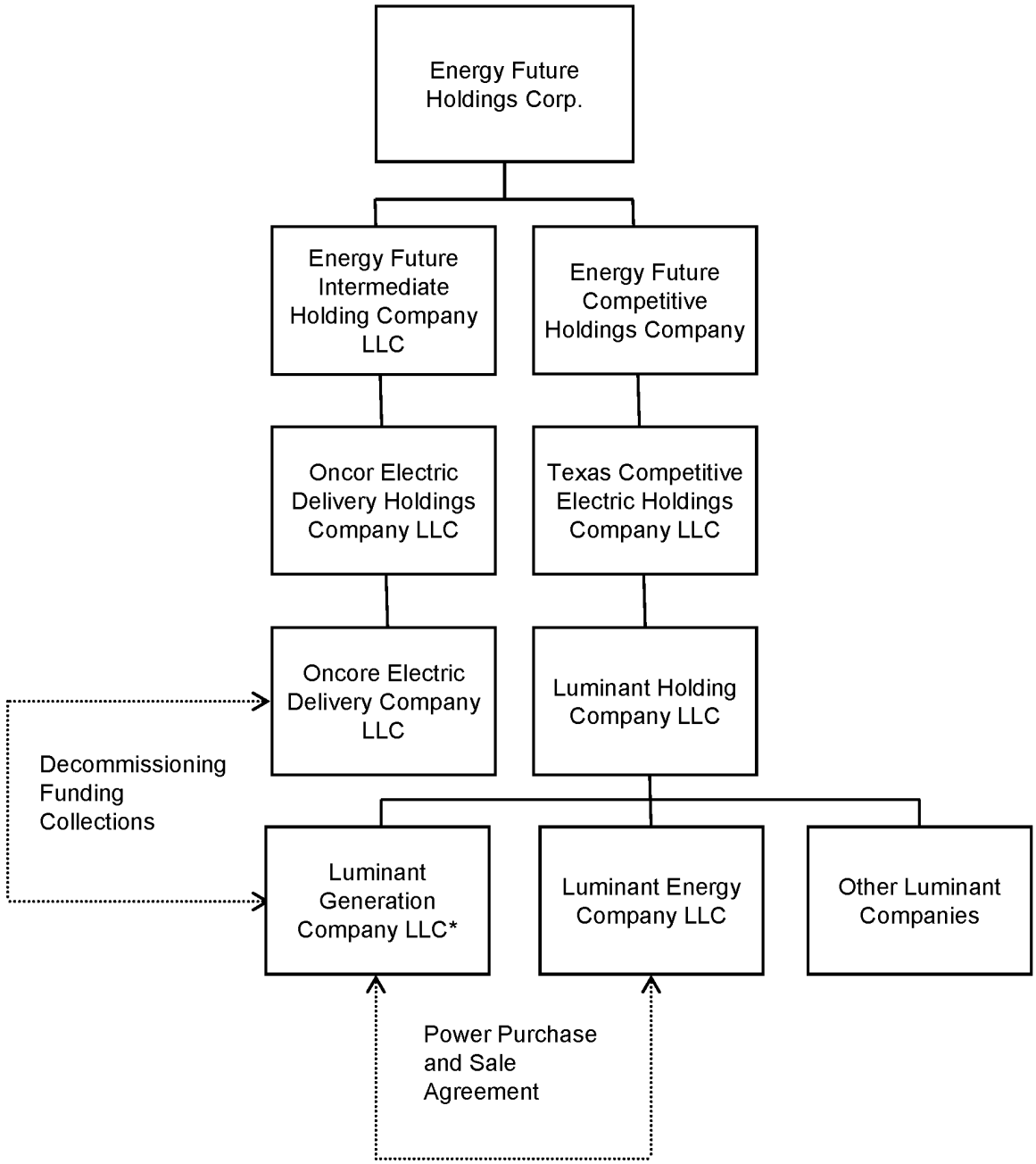
CONSTRUCTION WORKER DOSE
BUILDING COMPLEX LAYOUT

FIGURE 12 4-1

FIGURE 12.5-1 HAS BEEN DELETED | 87

Figure 12.5-2 has been deleted. 83

FIGURE 12.5-3 HAS BEEN DELETED | 87



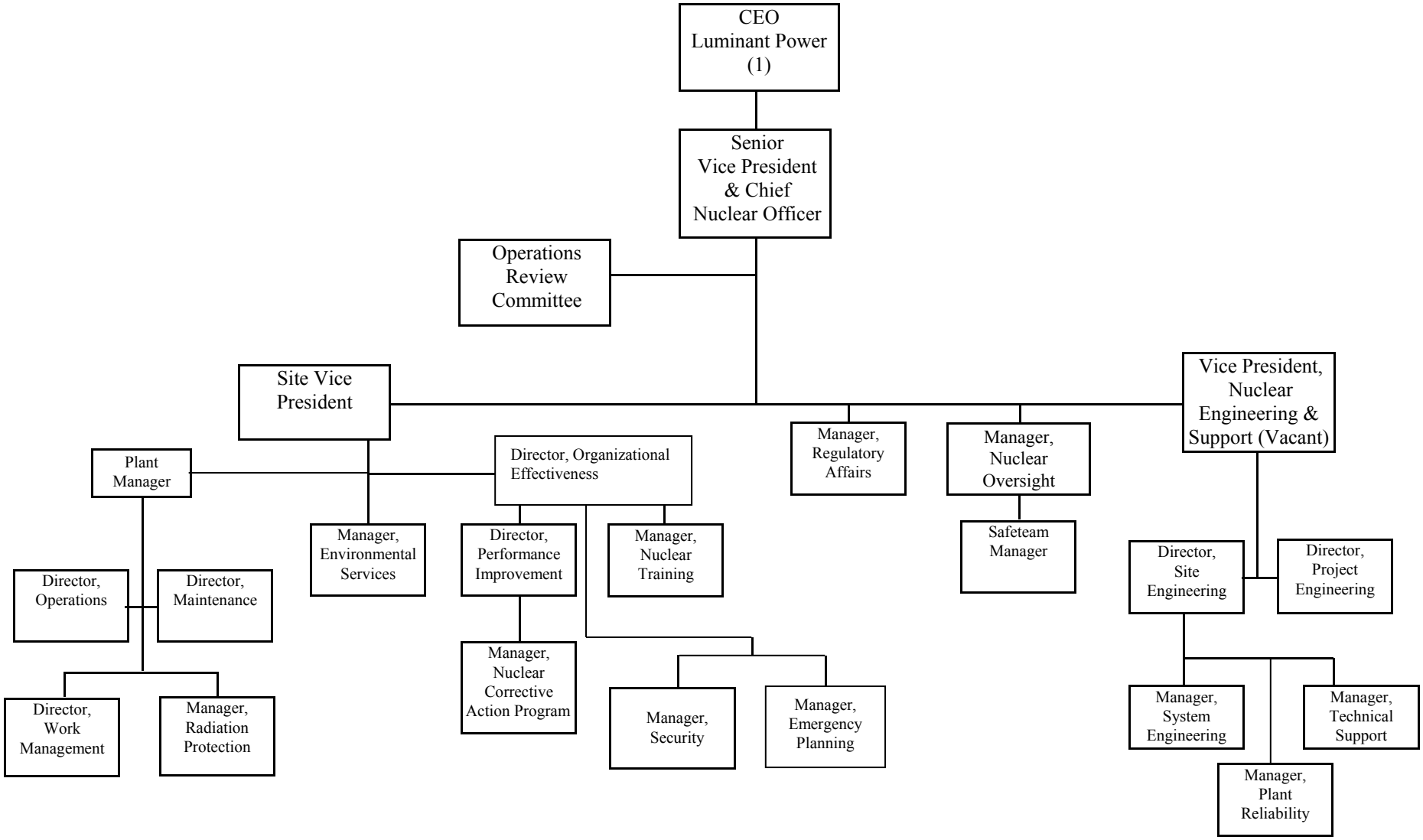
* Note: Owner/Operator of CPSES

Amendment 102

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

LUMINANT POWER COMPANY
(Simplified Organization Diagram)

FIGURE 13.1-1

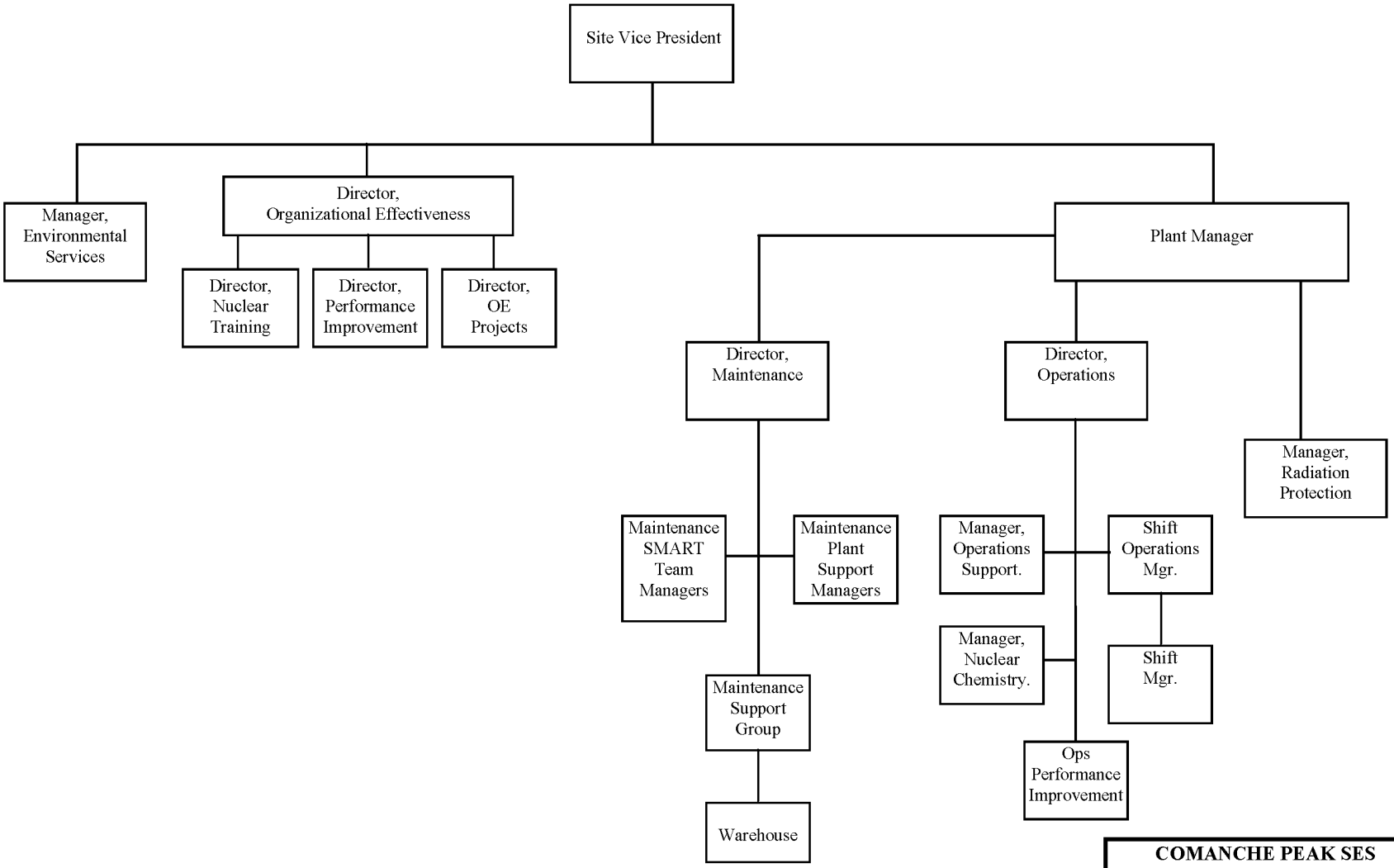


NOTE: (1) Located at Corp. Office
All others located on-site

COMANCHE PEAK SES
SAFETY ANALYSIS REPORT
for DUAL UNIT OPERATIONS

Nuclear Generation

Figure 13.1-2



COMANCHE PEAK SES SAFETY ANALYSIS REPORT FOR DUAL UNIT OPERATIONS

NUCLEAR OPERATIONS

FIGURE 13.1-3

January 19, 1982

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of	)	
	)	
TEXAS UTILITIES GENERATING COMPANY, et al.	)	Docket Nos. 50-445 and 50-446
	)	
(Comanche Peak Steam Electric Station, Units 1 and 2)	)	

STIPULATION

On the basis of negotiations between Citizens for Fair Utility Regulation ("CFUR") and Texas Utilities Generating Company, et al. ("Applicants") and the representations below, CFUR hereby withdraws Contention 1 from litigation in this proceeding.

Applicants hereby represent that they will assemble a qualified in-house technical staff prior to fuel loading for Comanche Peak and maintain that staff for the duration of plant operations. Applicants further represent that the technical staff will itself be qualified to deal with normal operations, unusual occurrences, and accident conditions, to assure that the plant can operate safely both initially and for the duration of plant operations. These representations do not, however, preclude Applicants from consulting with or retaining consultants as deemed appropriate.

It is agreed that this Stipulation is contingent upon its acceptance by the NRC Staff and upon dismissal of Contention 1 by the Licensing Board, and shall be incorporated in and become a part of the Final Safety Analysis Report to Comanche Peak.

J. Marshall Gilmore
Citizens for Fair Utility Regulation

Nicholas S. Reynolds
Counsel for Applicants

DATE: January 19, 1982

TITLE	NRC LICENSE	NUMBER OF COLD LICENSE CANDIDATES	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
			J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D
MANAGER, PLANT OPERATIONS	SRO[1]		A A	C C C	D D D E E E				H			S
MAINTENANCE SUPERINTENDENT	SRO[2]									C C	C D D D E E E E	S
ENGINEERING SUPERINTENDENT	SRO[2]					C C C D D D E E E	F		H			S
ADMINISTRATIVE SUPERINTENDENT						C C C D D D E E E	F	G G G G G G G G G G	H	G G G		S
OPERATIONS SUPERINTENDENT	SRO	1	A A	C C C		D D D E E E	F	G G G G G G G G G G	H	G G G G G G	G G G G G G G G H G G G	G G S I J K
OPERATIONS SUPPORT SUPERINTENDENT	SRO[2]		A A	C C C			P P P		D D D	E E E E		S
DIRECTOR, NUCLEAR TRAINING	SRO[2]		PREVIOUSLY USNRC LICENSED	ON A COMPARABLE FACILITY					H			S
RESULTS ENGINEER	SRO[2]							G G G G G G G G G G		G G G G G G	G G G G G G	S
I & C ENGINEER										T	O O O O	S
CHEMISTRY & ENVIRONMENTAL ENGINEER										T	L L L	S
RADIATION PROTECTION ENGINEER			A A	M M M			L L L					S
OPERATIONS ENGINEER	SRO[2]	1						C C C D D E E E	H	G G G	G G G G G G G G G G G G	G G S I J K
REACTOR ENGINEER	SRO[2]						P P P C C D D D E E E	G G G G G G G G G G	H			S
NUCLEAR ENGINEER								P P P P				
" "											P P P P	
OPERATIONS SUPPORT ENGINEER	SRO[2]										R R	S
TECHNICAL SUPPORT ENGINEER	SRO[2]											
OPERATIONS SUPERVISOR	SRO	1				B C C C D D D E E E	F	G G G G G G G G G G	H	G G G G G G	G G G G G G G G H G G G G	G G S I J K
SHIFT SUPERVISORS	SRO	5				B C C C D D D E E E	F	G G G G G G G G G G	H H H	G G G G G G	G G G G G G G H G G G G	G I S J K
" "	SRO	1						B B C C C D D E E E	G G G G H	G G G G G G	G G G G G G G H G G G G	G G S J K I
ASSISTANT SHIFT SUPERVISORS	SRO	1				B C C C D D D E E E	F	G G G G G G G G G G	H	G G G G G G	G G G G G G G H G G G G	G G S J K I
" " "	SRO	1	PREVIOUSLY USNRC LICENSED	ON A COMPARABLE FACILITY						G G G G G G	G G G G G G G H G G G G	G G G S I J K
" " "	SRO	2					B C C C D D D E E	G G G G G G G G G G	H	G G G G G G	G G G G G G G H G G G G	G G S I J K
" " "	SRO	1						B B C C C D D E E E	G G G G	G G G G G G	G G G G G G G H G G G G	S I G G J K
" " "	SRO	1								B B C C	C D D D E E E E G G G G	G G S I J K
REACTOR OPERATORS	RO	1				B C C C D D D E E E	F	G G G G G G G G G G	H	G G G G G G	G G G G G G G H G G G G	G G S I J K
" "	RO	2					B C C C D D D E E E	G G G G G G G G G G	H	G G G G G G	G G G G G G G H G G G G	G G S I J K
" "	RO	2	PREVIOUSLY USNRC LICENSED	ON A COMPARABLE FACILITY							G	G G S I J K
" "	RO	3							B B B B B C C C D D D	E E E E G G G G G G	G G G G G G G H G G G G	G G S I J K
" "	RO	2							B B B B C C C D D D	E E E E G G G G G G	G G G G G G G H G G G G	G G S J K I
" "	RO	1							B B B C C C D D D	E E E E	H G G G	G G S I J K
" "		9								B B C C	C D D D E E E E G G G	G G S I J K
AUXILIARY OPERATORS									B B B B B C C C D D D	E E E E		V V S V
" "											T T	T T S V
" "												V V S V
TRAINING SPECIALISTS	SRO	2							C C C D D D	E E E E G G G G G G	G G G G G G G G H G G G	G G G G S I J K
" "	SRO	2								C C	C D D D D E E E G G G	G G G G S I J K
" "	SRO[2]										C C C D D	E E E S
SHIFT TECHNICAL ADVISORS										R R R	R R R R R R R R R R R R	R R R R S R
" " "											R R R R R R R	R R R R S R
MECHANICAL MAINTENANCE ENGINEER					Q Q Q					T		S
ELECTRICAL MAINTENANCE ENGINEER										T		S
MAINTENANCE SERVICES ENGINEER										T		S
TRAINING SUPERVISOR	SRO[2]	1							C C C D D D	E E E E G G G G G G	G G G G G G H	S I J K
I & C TECHNICIANS									T T	T T T T T T	O O O O T T	O O O O O O S
CHEMISTRY TECHNICIANS									T T	T T T T T	T L L L T	U S
RADIATION PROTECTION TECHNICIANS									T T	T T T T	T N N N T	N S
MECHANICS										T T T T T	T T T	S
ELECTRICIANS										T T T T	T T T	S
HELPERS										T T T T T	T T T	S

LICENSE NOTES:

1 BACKGROUND FOR LICENSE, BUT NOT REQUIRED TO LICENSE
2 BACKGROUND FOR LICENSE DESIRABLE

TRAINING NOTES:

A NUCLEAR POWER FUNDAMENTALS (13.2.1.1.3.1)
B PRETRAINING (13.2.1.1.1.1)
C PHASE I (13.2.1.1.1.2)
D PHASE II (13.2.1.1.1.3)
E PHASE III (13.2.1.1.1.4)
F PHASE IV (13.2.1.1.1.5)
G PHASE V (13.2.1.1.1.6)
H SIMULATOR REFRESHER (13.2.1.1.1.7)
I SIMULATOR REVIEW (13.2.1.1.1.8)
J PRELICENSE REVIEW (13.2.1.1.1.8)
K AUDIT EXAMS (13.2.1.1.1.6)
L PWR CHEMISTRY (13.2.1.1.2.1)
M OAK RIDGE H.P. & RAD PROT. COURSE (13.2.1.1.2.1)
N HEALTH PHYSICS TECHNICIAN'S COURSE (13.2.1.1.2.1)
O INST. & CONT. TECHNICIAN'S COURSE (13.2.1.1.2.2)
P NUCLEAR ENGINEER'S COURSE (13.2.1.1.2.3)
Q MAINTENANCE ENGINEER'S COURSE (13.2.1.1.2.4)
R SHIFT TECHNICAL ADVISOR (13.2.1.1.2.5)
S GENERAL EMPLOYEE TRAINING (13.2.1.1.4)
T GENERAL PLANT INFORMATION (13.2.1.1.4.3)
U CHEMISTRY TECHNICIAN'S COURSE (13.2.1.1.2.1)
V AUXILIARY OPERATOR TRAINING (13.2.2.2)

GENERAL NOTES:

1. SELECTED STAFF PERSONNEL HAVE PARTICIPATED IN VENDOR AND OTHER SPECIALTY TRAINING.
2. SHIFT SUPERVISORS, REACTOR OPERATORS AND SELECTED OTHER PERSONNEL WILL PARTICIPATE IN PROCEDURE PREPARATION AND START-UP ACTIVITIES.
3. INDICATED TRAINING FOR TECHNICIANS AND AUXILIARY OPERATORS MAY BE CONDUCTED FOR SOME, BUT NOT NECESSARILY ALL OF THE PERSONNEL IN THE CLASSIFICATION.

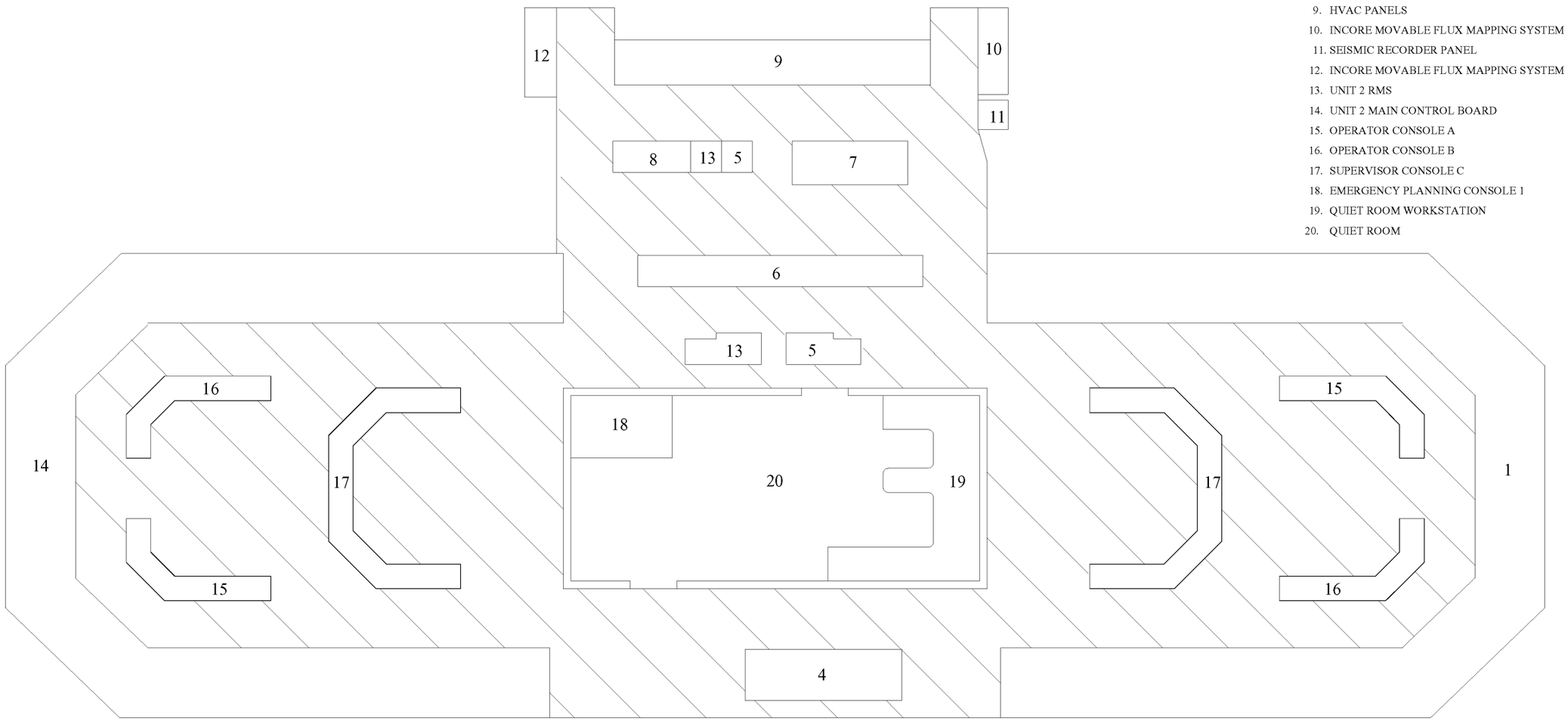
Q441.1
Q441.2
AMENDMENT 41 Q441.3
JULY 11, 1983 Q441.4

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

TRAINING SCHEDULE

FIGURE 13.2-1

1. UNIT 1 MAIN CONTROL BOARD
2. NOT USED
3. NOT USED
4. SWITCHYARD CONSOLE
5. UNIT 1 RMS
6. UNITS 1 & 2 NIS
7. HVAC PANELS
8. FIRE DETECTION PANEL & COMMON ELECTRICAL SYSTEMS PANEL
9. HVAC PANELS
10. INCORE MOVABLE FLUX MAPPING SYSTEM
11. SEISMIC RECORDER PANEL
12. INCORE MOVABLE FLUX MAPPING SYSTEM
13. UNIT 2 RMS
14. UNIT 2 MAIN CONTROL BOARD
15. OPERATOR CONSOLE A
16. OPERATOR CONSOLE B
17. SUPERVISOR CONSOLE C
18. EMERGENCY PLANNING CONSOLE 1
19. QUIET ROOM WORKSTATION
20. QUIET ROOM



Amendment 100

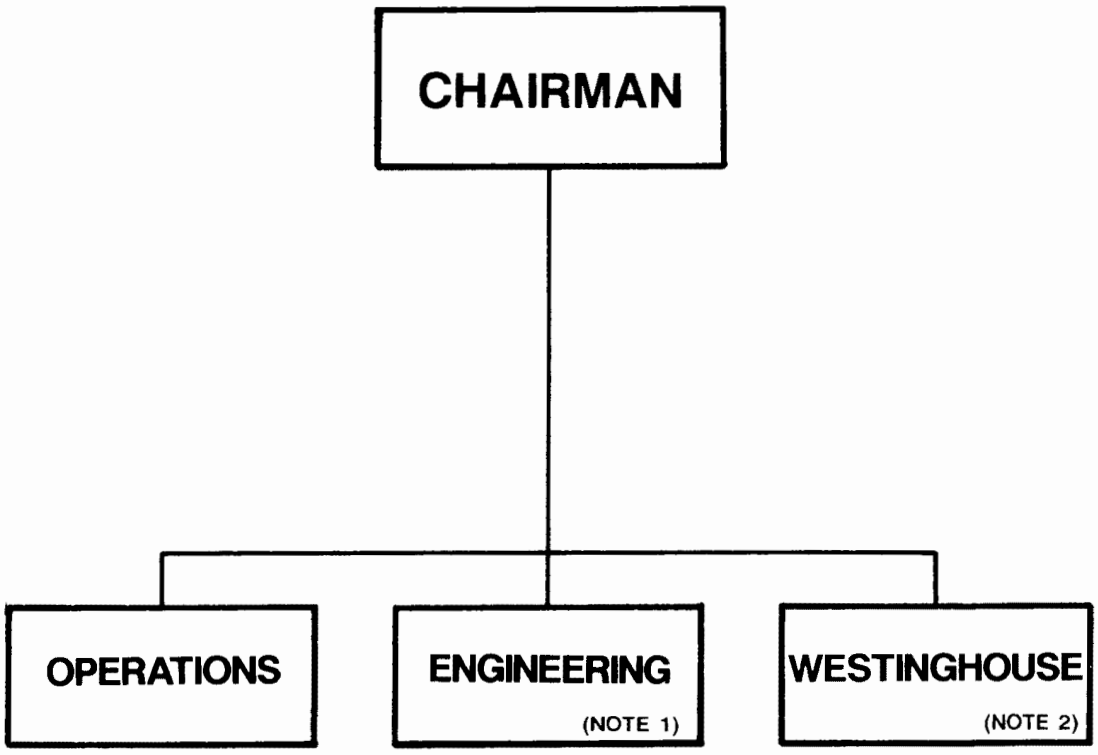
COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

AREA DESIGNATION
"AT THE CONTROLS"

FIGURE 13.5-1

05-27-2004

fs000001.dgn



NOTE 1: Design, testing, and technical support functions.

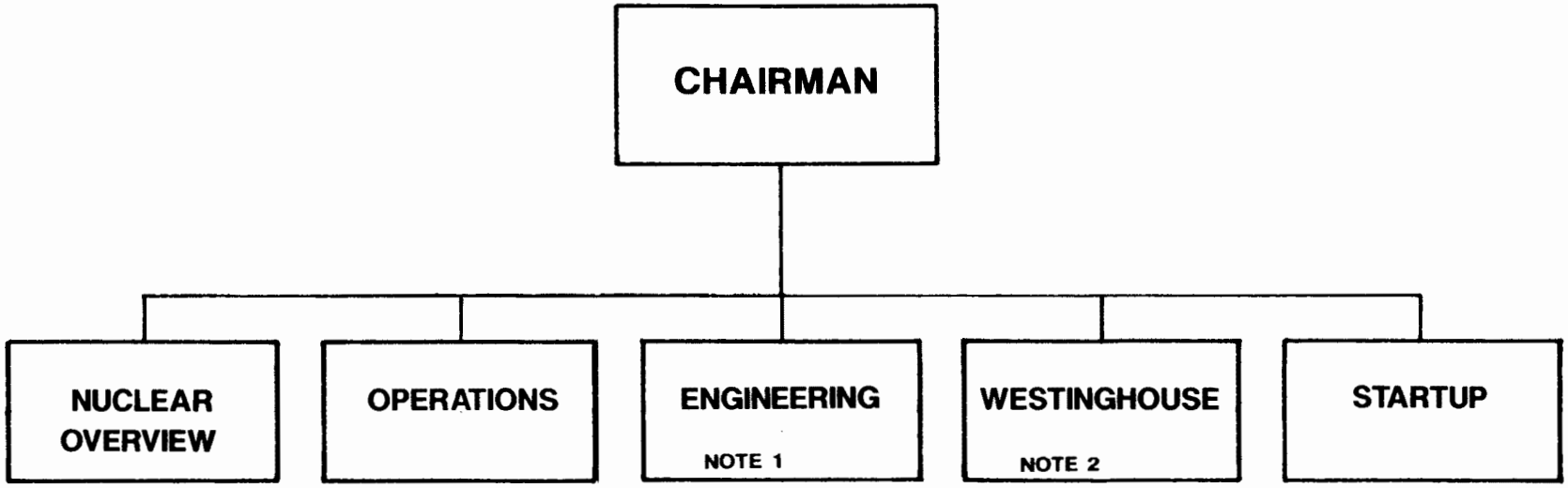
NOTE 2: For all matters concerning initial startup testing performed on the NSSS and associated auxiliary systems.

AMENDMENT 83
DECEMBER 13, 1991

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

TEST REVIEW GROUP

FIGURE **14.2-1**



NOTE 1: Design and technical support functions.
NOTE 2: For all matters concerning preoperational testing performed on the NSSS and associated auxiliary systems.

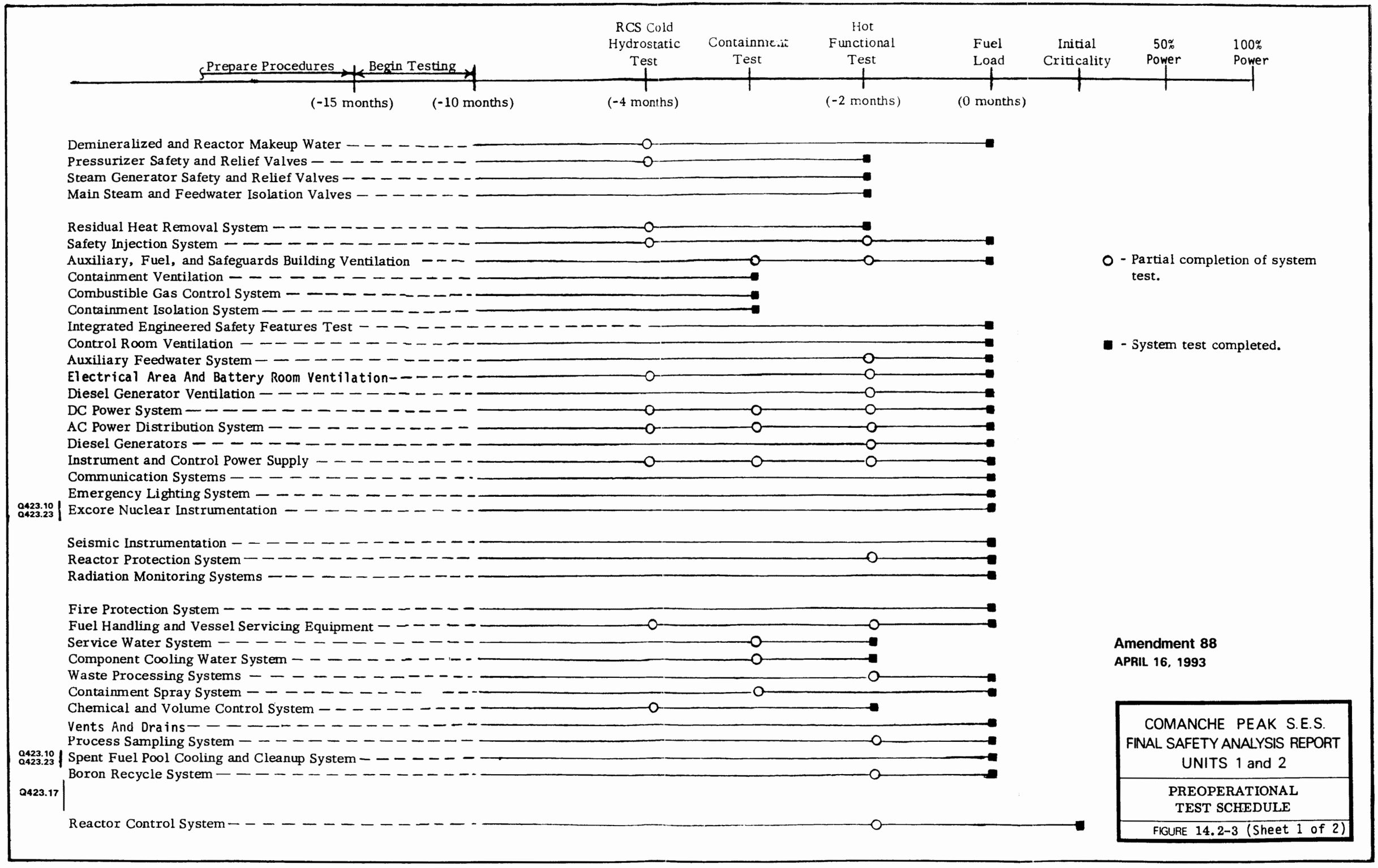
AMENDMENT 87
DECEMBER 18, 1992

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

JOINT TEST GROUP

FIGURE **14.2-2**

Figure 14.2-3 PREOPERATIONAL TEST SCHEDULE



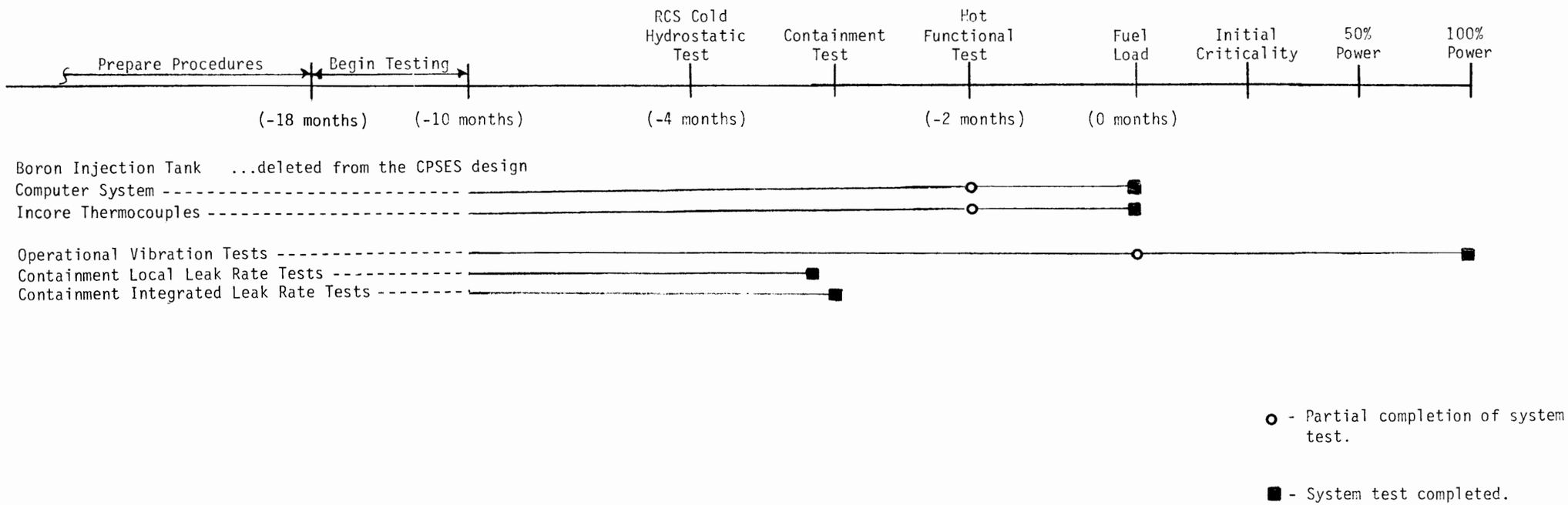
Amendment 88
APRIL 16, 1993

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

PREOPERATIONAL
TEST SCHEDULE

FIGURE 14.2-3 (Sheet 1 of 2)

Figure 14.2-3 PREOPERATIONAL TEST SCHEDULE



AMENDMENT 87
DECEMBER 18, 1992

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

PREOPERATIONAL
TEST SCHEDULE

FIGURE 14.2-3 (Sheet 2 of 2)

FIGURE 14.2-4A INITIAL STARTUP TEST SCHEDULE (Unit 1)

	FUEL LOAD	PRIOR TO INITIAL CRITICALITY	LOW POWER TEST	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
						POWER ASCENSION								
Q423.10 Reactor Trip System		X												Commercial Operation Approx. 5 months after fuel load
Boron Reactivity Worths				X										
Rod Drop Tests		X												
Q423.10 Automatic Reactor Control System Test									X					
Reactor Coolant Flow Test		X							X			X		
Reactor Coolant Flow Coastdown		X												
Control Rod Drive Tests		X							X					
Rod Position Indicators		X												
Moderator Temperature Reactivity Coefficient				X										
Control Rods Reactivity Worths				X										
Q423.10 Auxiliary Startup Instrumentation	X													
Chemical Tests	X	X							X			X		X
Flux Distribution Measurements				X										
Remote Shutdown					X									
Calibration of Nuclear Instrumentation	X	X		X					X			X		X
Radiation Survey				X					X					X
Process and Effluent Monitoring														X
Core Reactivity Balance														X
Loss of Offsite Power					X									
Turbine Trip														X
Core Performance Evaluation									X			X		X
Unit Load Transients							X		X			X		X
Q423.10 Incore Nuclear Instrumentation		X					X							
Reactor Coolant Leak Test		X												
Rod Control System Test		X												

X.- Test required to be performed at this power.

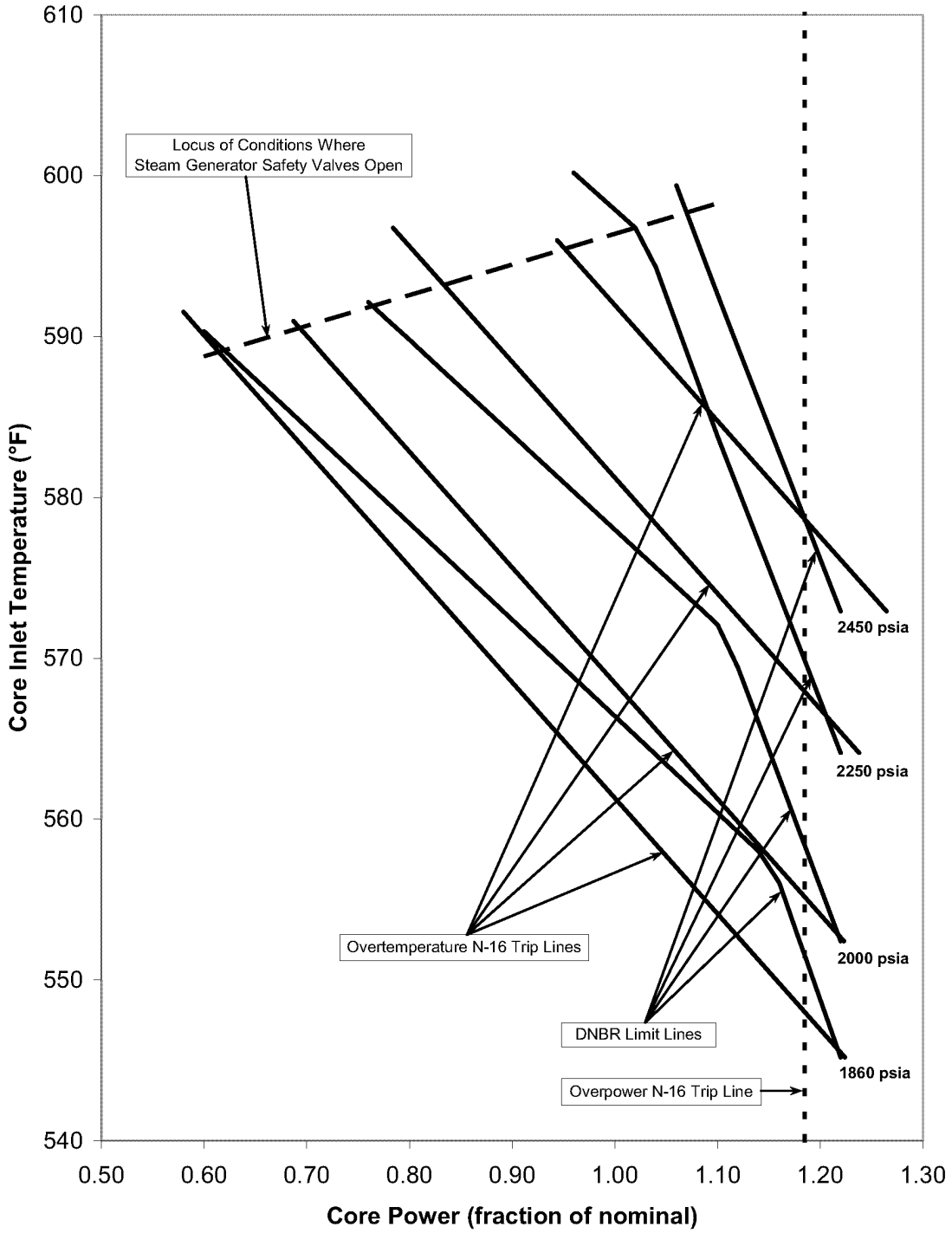
Amendment 88
APRIL 16, 1993

FIGURE 14.2-4B INITIAL STARTUP TEST SCHEDULE (Unit 2)

		FUEL LOAD	PRIOR TO INITIAL CRITICALITY	LOW POWER TEST	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Q423.10	Reactor Trip System	X	X												Commercial Operation Approx. 5 months after fuel load
	Boron Reactivity Worths			X	X										
	Rod Drop Tests		X												
Q423.10	Automatic Reactor Control System Test									X					
	Reactor Coolant Flow Test		X									X			X
	Reactor Coolant Flow Coastdown		X												
	Control Rod Drive Tests		X							X					
	Rod Position Indicators		X												
	Moderator Temperature Reactivity Coefficient			X	X										
	Control Rods Reactivity Worths			X	X										
Q423.10	Auxiliary Startup Instrumentation	X													
	Chemical Tests	X	X							X		X			X
	Flux Distribution Measurements and Core Performance Evaluations							X		X		X			X
	Remote Shutdown					X									
	Calibration of Nuclear Instrumentation	X	X		X					X		X			X
	Radiation Survey				X					X					X
	Core Reactivity Balance														X
	Loss of Offsite Power					X									
	Turbine Trip														X
	Unit Load Transients									X		X			X
Q423.10	Incore Nuclear Instrumentation		X					X							
	Reactor Coolant Leak Test		X												
	Rod Control System Test		X												

X.- Test required to be performed at this power.

Amendment 88
April 16, 1993

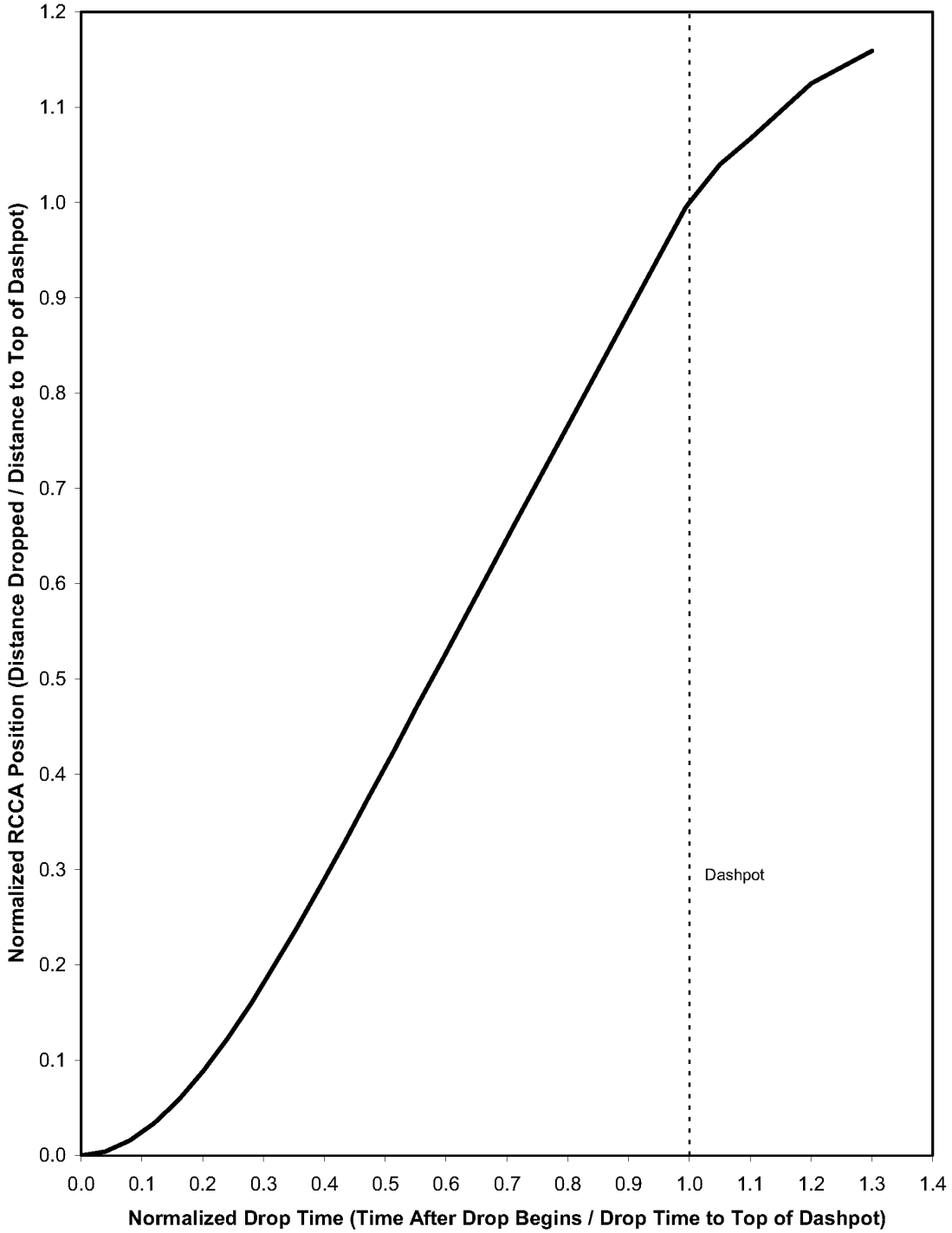


Comanche Peak Final Safety Analysis Report Units 1 and 2
Illustration of Overtemperature and Overpower N-16 Protection
Figure 15.0-1

Amendment No. 103

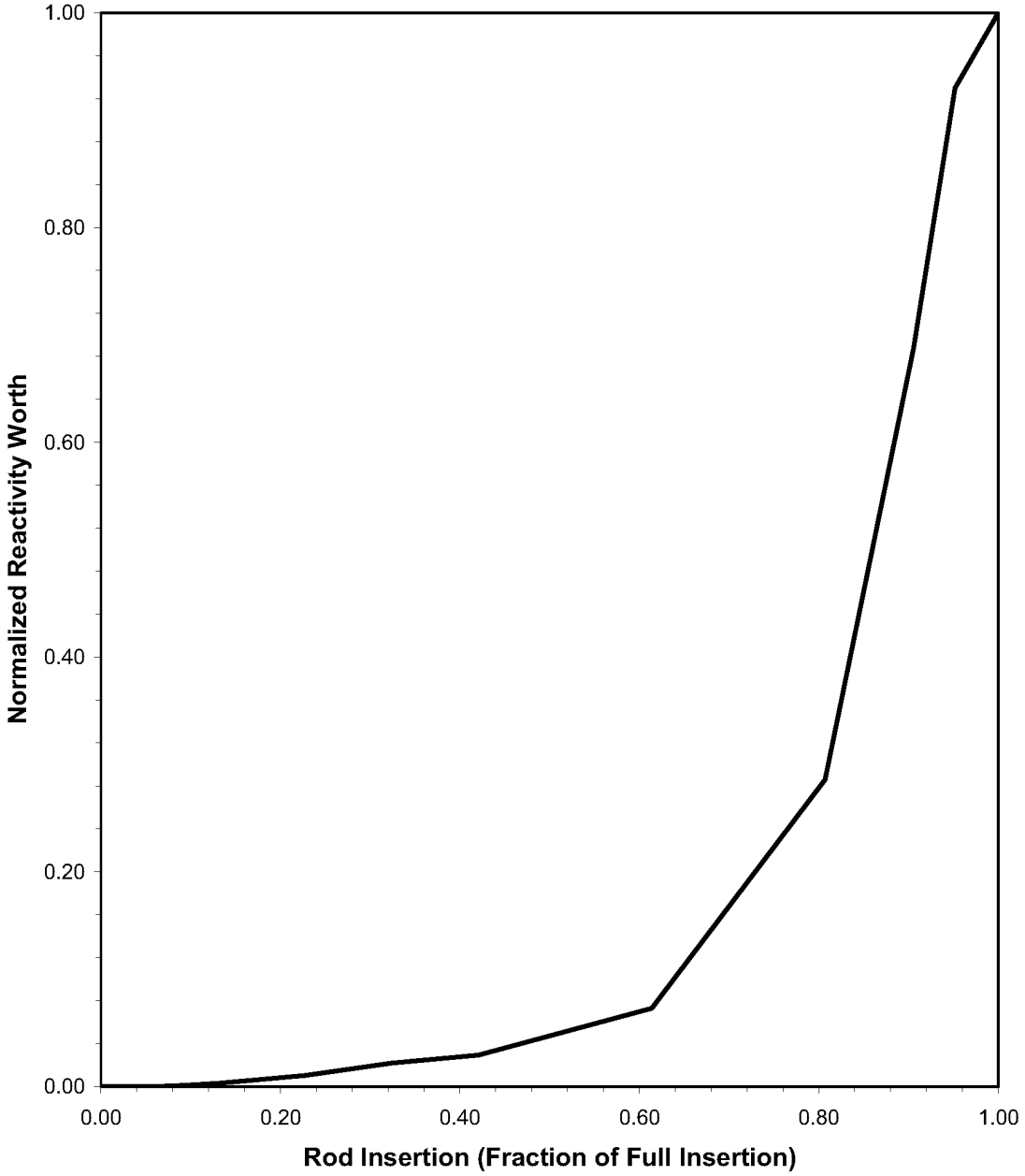
Figure 15.0-2A has been deleted | 92

Figure 15.0-2B has been deleted 92



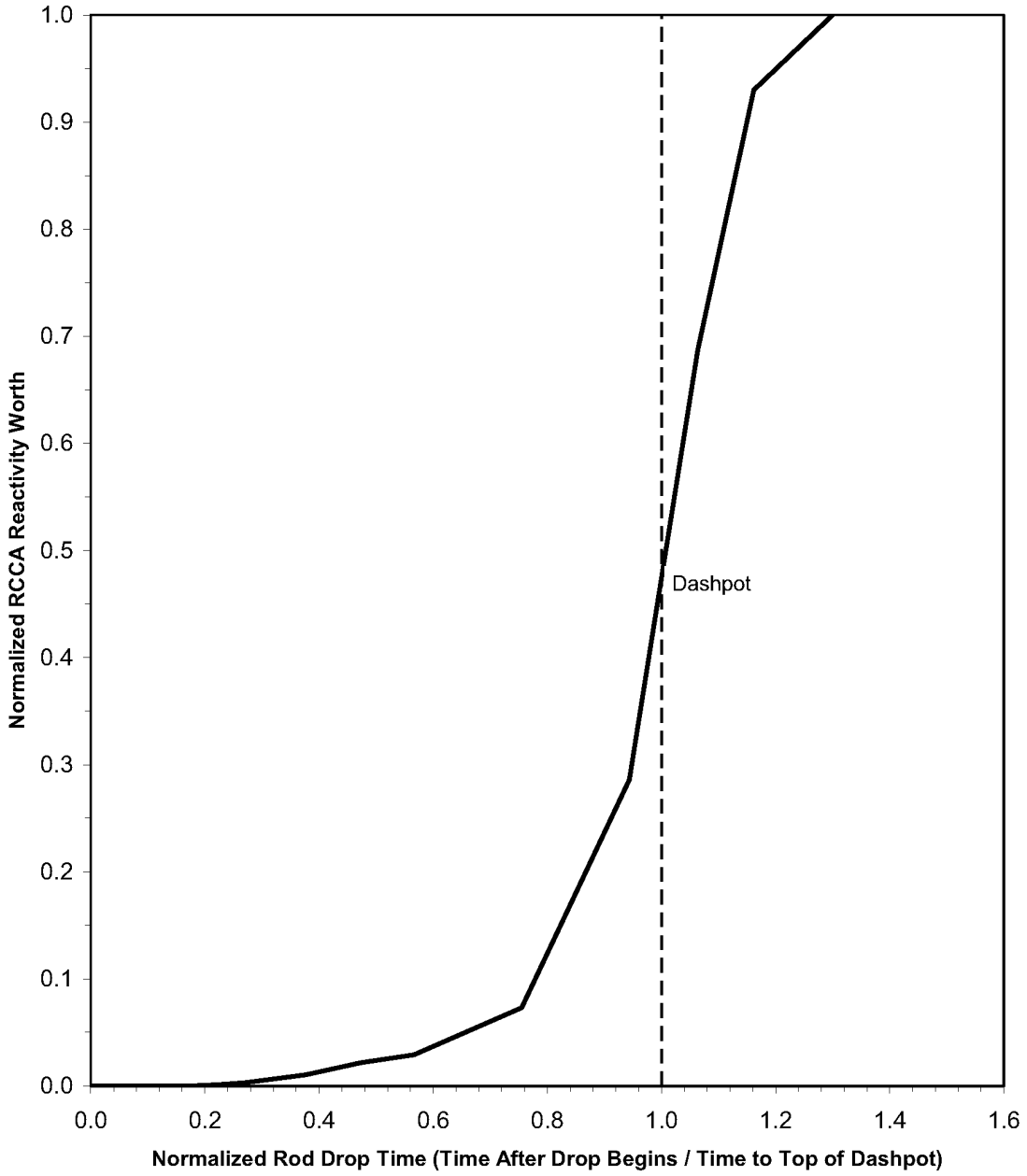
Comanche Peak Final Safety Analysis Report Units 1 and 2
Normalized RCCA Position Versus Normalized Drop Time
Figure 15.0-3

Amendment No. 103



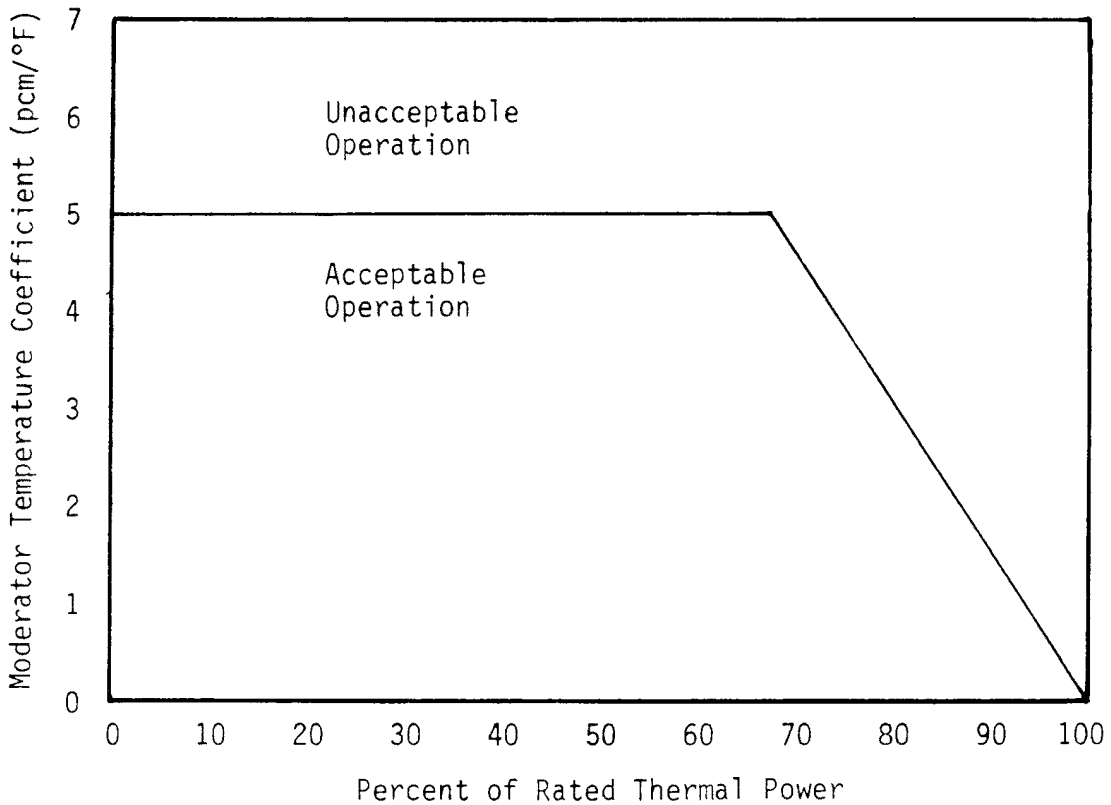
Comanche Peak Final Safety Analysis Report Units 1 and 2
Normalized Rod Worth Versus Fraction Inserted
Figure 15.0-4

Amendment No. 103



Comanche Peak Final Safety Analysis Report Units 1 and 2
Normalized RCCA Bank Reactivity Worth Versus Normalized Drop Time
Figure 15.0-5

Amendment No. 103



AMENDMENT 84
FEBRUARY 28, 1992

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

Moderator Temperature Coefficient Versus Percent of Rated Thermal Power

FIGURE 15.0-6

ABBREVIATIONS USED:

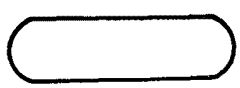
AFWS	- AUXILIARY FEEDWATER SYSTEM	ECCS	- EMERGENCY CORE COOLING SYSTEM
CVCS	- CHEMICAL AND VOLUME CONTROL SYSTEM	HL	- HOT LEG
		CL	- COLD LEG
ESFAS	- ENGINEERED SAFETY FEATURES ACTUATION SYSTEM	CCWS	- COMPONENT COOLING WATER SYSTEM
FW	- FEEDWATER	RCS	- REACTOR COOLANT SYSTEM
RTS	- REACTOR TRIP SYSTEM	SWS	- SERVICE WATER SYSTEM
SIS	- SAFETY INJECTION SYSTEM	HPI	- HIGH PRESSURE INJECTION
SI	- SAFETY INJECTION	LPI	- LOW PRESSURE INJECTION
RT	- REACTOR TRIP	CI	- CONTAINMENT ISOLATION
CS	- CONTAINMENT SPRAY	SG	- STEAM GENERATOR

NOTES:

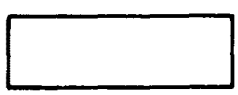
1. FOR TRIP INITIATION AND SAFETY SYSTEM ACTUATION, MULTIPLE SIGNALS ARE SHOWN BUT ONLY A SINGLE SIGNAL IS REQUIRED. THE OTHER SIGNALS ARE BACKUPS.

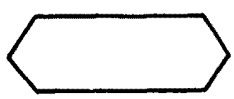
2. NO TIMING SEQUENCE IS IMPLIED BY POSITION OF VARIOUS BRANCHES. REFER TO EVENT TIMING SEQUENCES PRESENTED IN TABULAR FORM IN PERTINENT ACCIDENT ANALYSIS SECTION OF CHAPTER 15.0 OF THE FSAR.

DIAGRAM SYMBOLS:


- EVENT TITLE


- BRANCH POINT FOR DIFFERENT PLANT CONDITIONS


- SAFETY SYSTEM


- SAFETY ACTION

- SYSTEM REQUIRED TO MEET SINGLE-FAILURE CRITERIA

- MANUAL ACTION REQUIRED DURING SYSTEM OPERATION

FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

ABBREVIATIONS

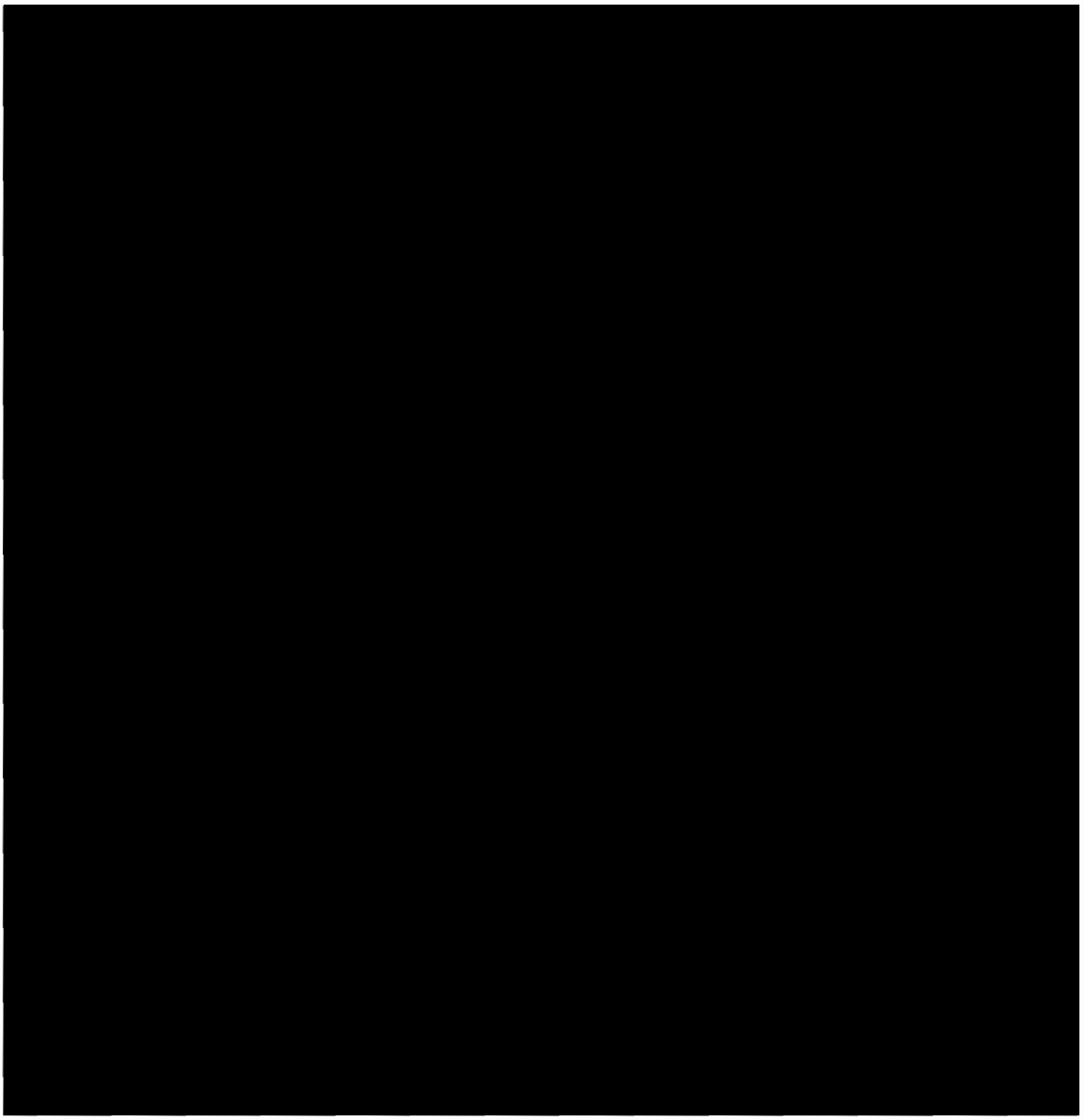
FIGURE 15.0-7

AMENDMENT 15
FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

EXCESSIVE HEAT REMOVAL DUE TO FEEDWATER SYSTEMS MALFUNCTION

FIGURE 15.0-8

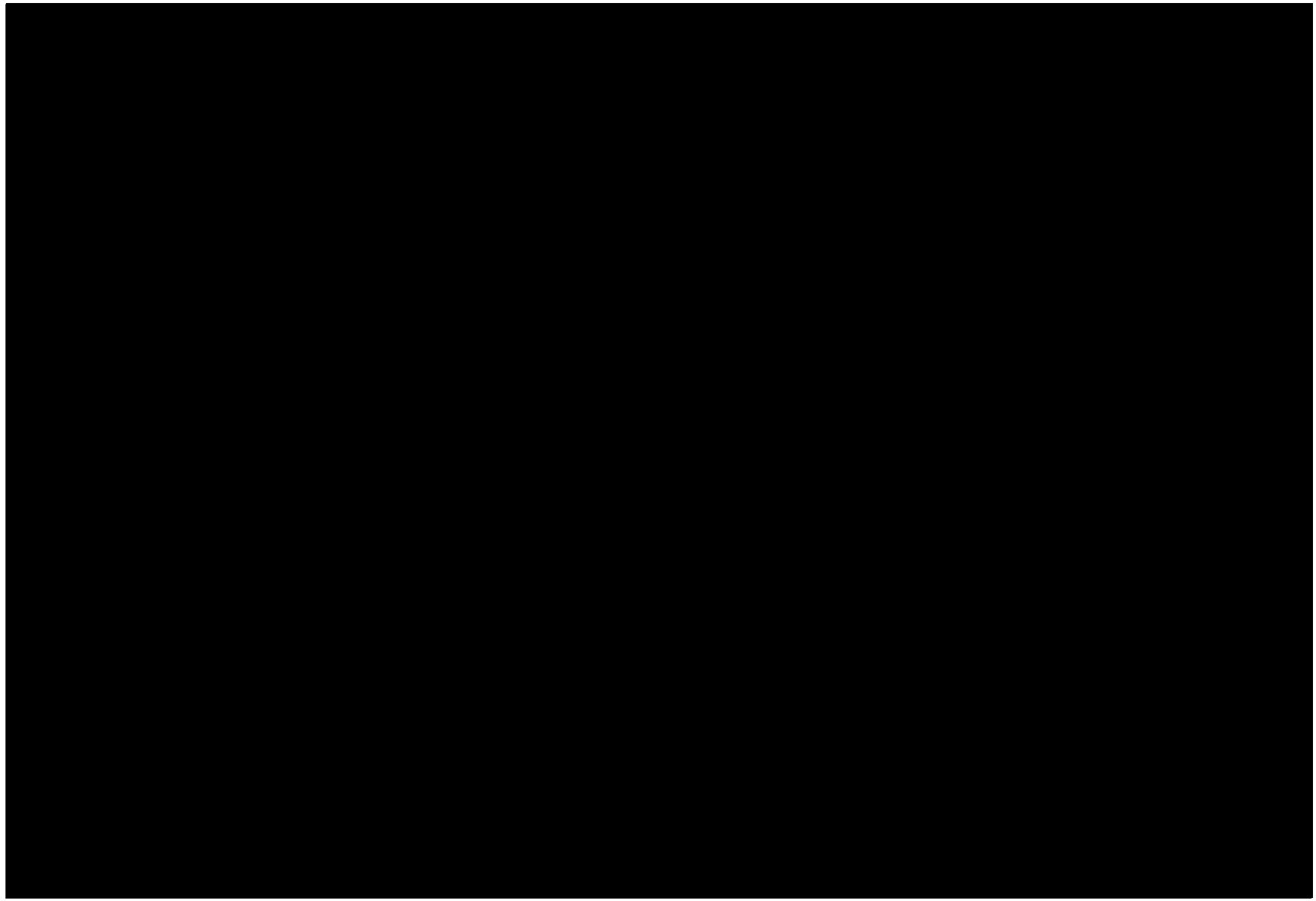


AMENDMENT 15
FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

EXCESSIVE LOAD INCREASE

FIGURE 15.0-9



COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

DEPRESSURIZATION OF
MAIN STEAM SYSTEM

FIGURE 15.0-10

AMENDMENT 78
JANUARY 15, 1990

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UNITS 1 and 2

LOSS OF EXTERNAL LOAD

FIGURE 15.0-11

AMENDMENT 15
FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

LOSS OF OFFSITE POWER TO
STATION AUXILIARIES (BLACKOUT)

FIGURE 15.0-12

AMENDMENT 15
FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

LOSS OF NORMAL FEEDWATER

FIGURE 15.0-13

[redacted]

AMENDMENT 15
FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

MAJOR RUPTURE OF A MAIN FEEDWATER LINE

FIGURE 15.0-14

[redacted]

MARCH 31, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

LOSS OF FORCED
REACTOR COOLANT FLOW

FIGURE 15.0-15

AMENDMENT 15
FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

UNCONTROLLED ROD CLUSTER CONTROL ASSEMBLY BANK WITHDRAWAL

FIGURE 15.0-16

18000-6

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNIT 1 AND 2

DROPPED ROD CLUSTER
CONTROL ASSEMBLY

FIGURE 15.0-17

Amendment 94
August 1, 1996

TUF150170.DGN

[redacted]

AMENDMENT 15
FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

SINGLE ROD CLUSTER CONTROL ASSEMBLY WITHDRAWAL AT FULL POWER

FIGURE 15.0-18

FIGURE 15.0-19

THIS FIGURE HAS BEEN DELETED | 78

AMENDMENT 92
AUGUST 31, 1994

COMANCHE PEAK SES
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

BORON DILUTION

FIGURE 15.0-20

[redacted]

[redacted]

AMENDMENT 54
JANUARY 21, 1985

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

RUPTURE OF CONTROL ROD DRIVE MECHANISM HOUSING

FIGURE 15.0-21

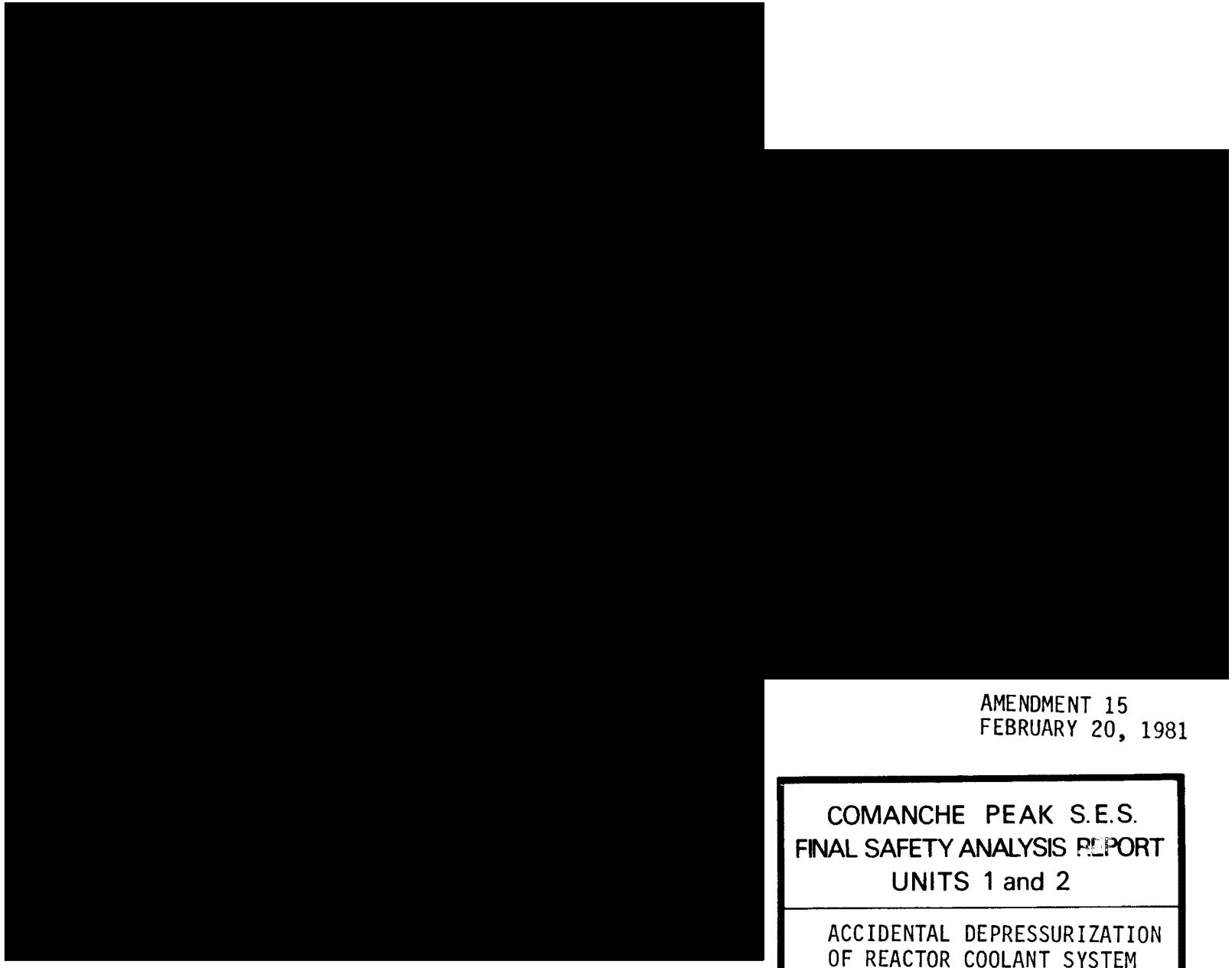
[redacted]

AMENDMENT 15
FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

INADVERTENT ECCS
OPERATION AT POWER

FIGURE 15.0-22



AMENDMENT 15
FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

ACCIDENTAL DEPRESSURIZATION
OF REACTOR COOLANT SYSTEM

FIGURE 15.0-23

18000-12

[redacted]

Amendment 70
April 22, 1988

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

STEAM GENERATOR TUBE RUPTURE

FIGURE 15.0-24

[redacted]

FEBRUARY 20, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

LOSS OF COOLANT ACCIDENT

FIGURE 15.0-25

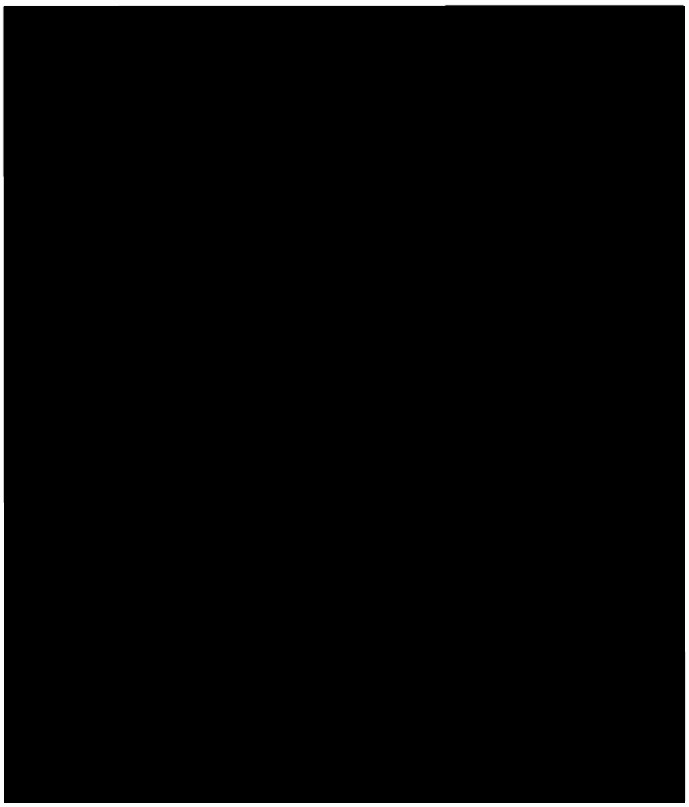
[redacted]

AMENDMENT 76
MAY 1, 1989

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

CVCS LETDOWN LINE
RUPTURE

FIGURE 15.0-26

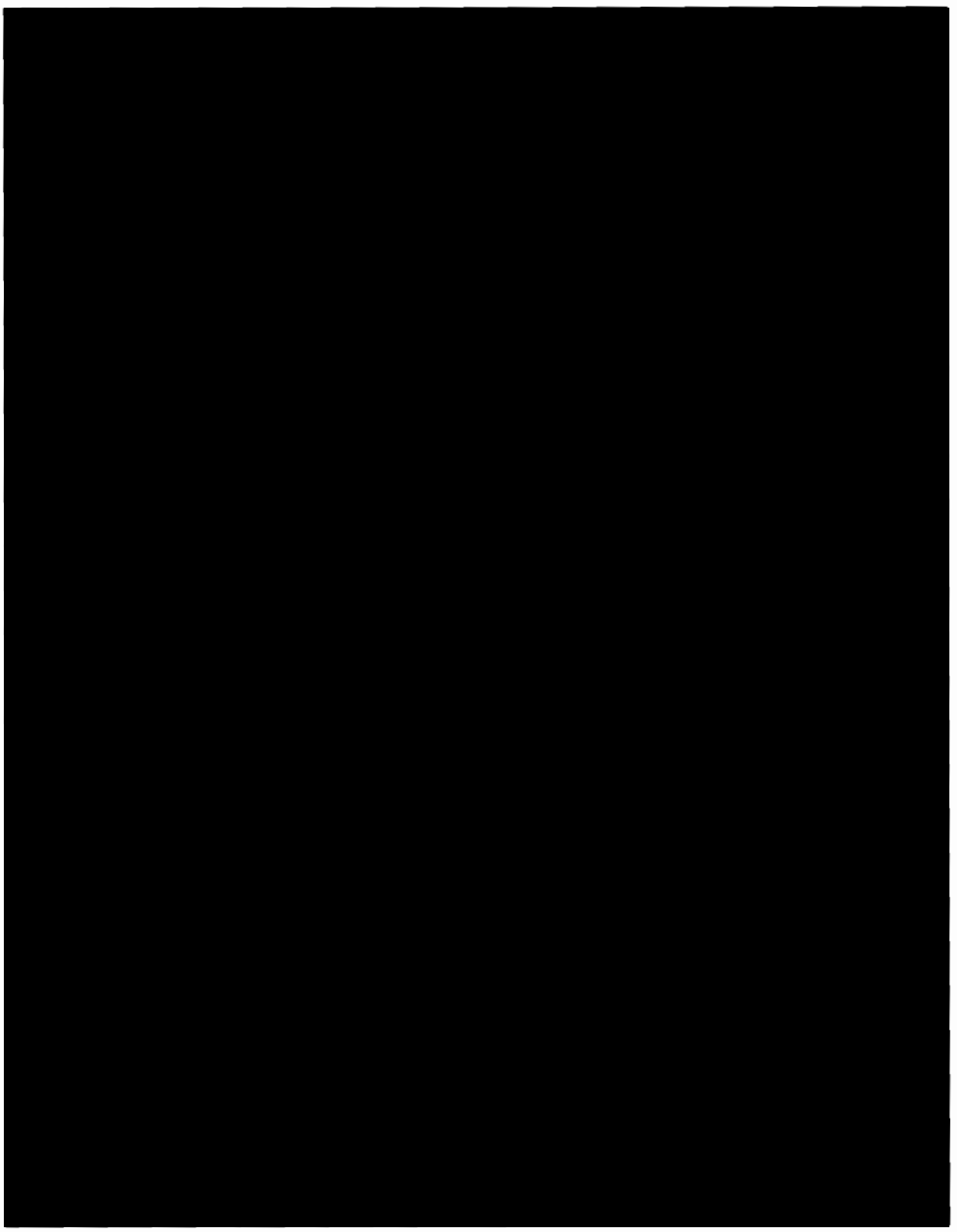


AMENDMENT 76
MAY 1, 1989

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

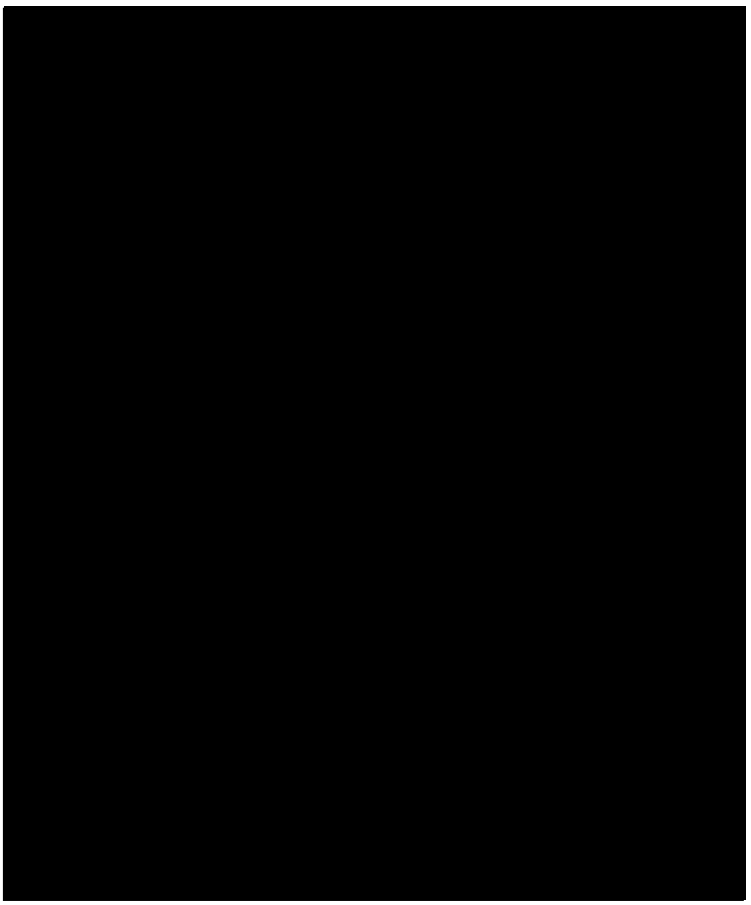
GWPS GAS DECAY
TANK RUPTURE

FIGURE 15.0-27



FEBRUARY 20, 1981

COMANCHE PEAK S.E.S. FINAL SAFETY ANALYSIS REPORT UNITS 1 and 2
FLOOR DRAIN TANK FAILURE
FIGURE 15.0-28



AMENDMENT 76
MAY 1, 1989

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

FUEL HANDLING ACCIDENT
IN FUEL BUILDING

FIGURE 15.0-29

[redacted]

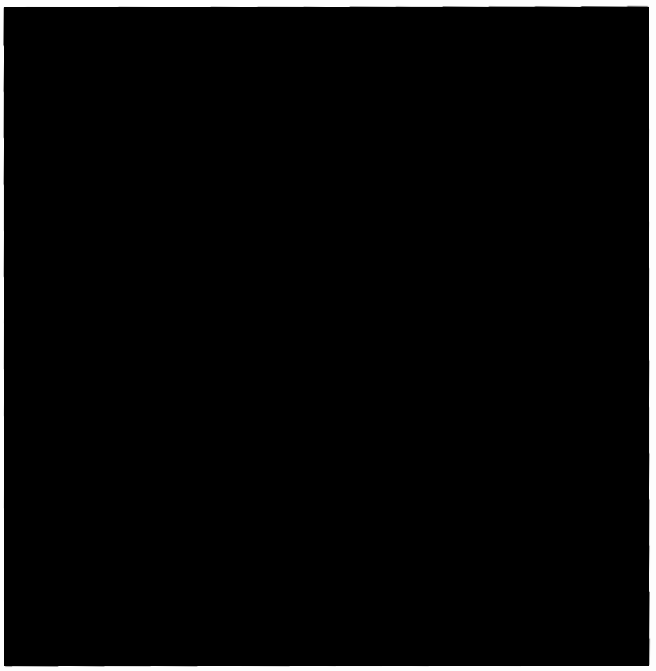
AMENDMENT 76
MAY 1, 1989

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

FUEL HANDLING ACCIDENT

INSIDE CONTAINMENT

FIGURE 15.0-30



AMENDMENT 87
DECEMBER 18, 1992

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

SPENT FUEL CASK
DROP ACCIDENT

FIGURE 15.0-31

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Figures 15.4-1A,B thru 15.4-30 have been deleted | 92

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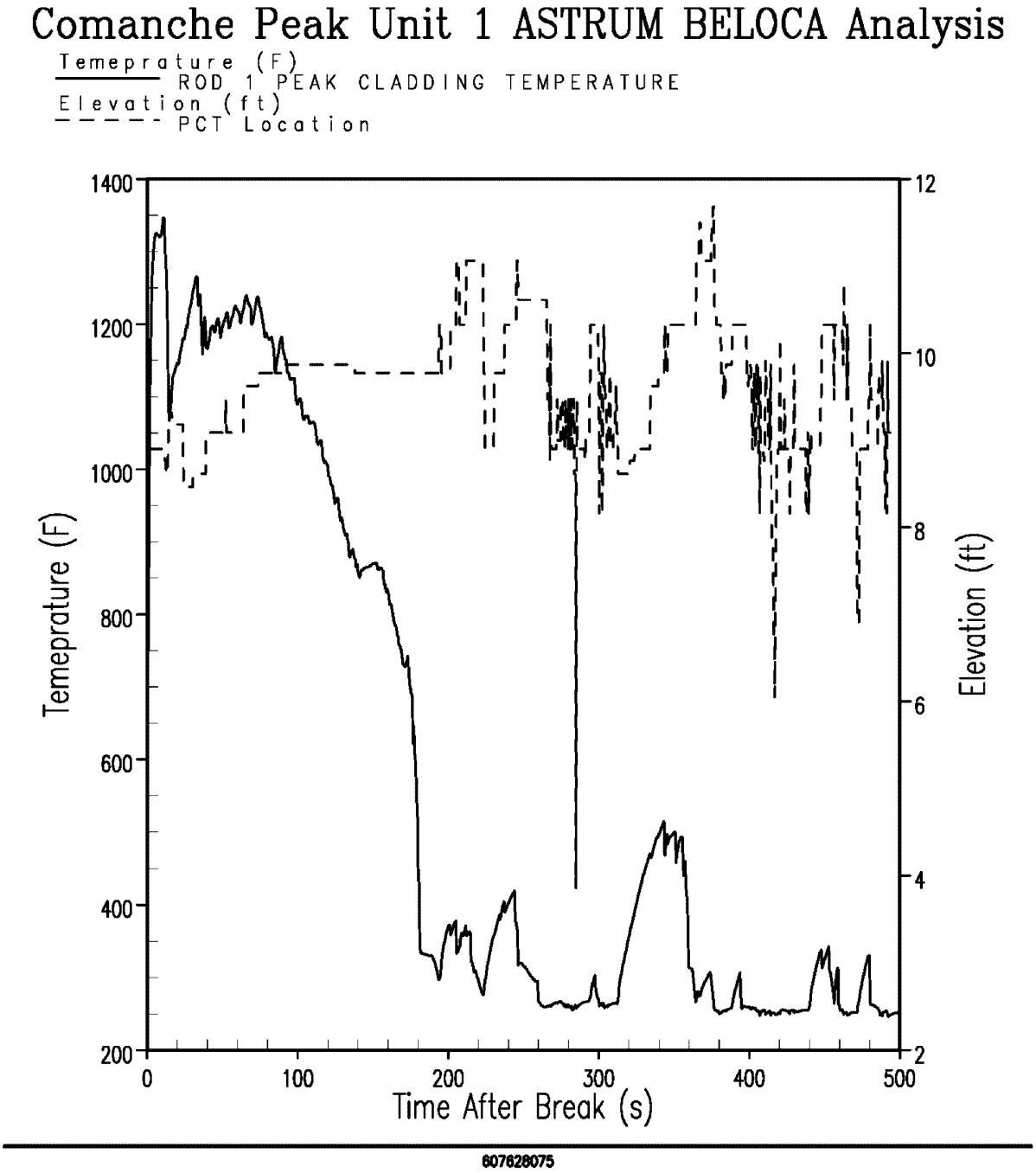
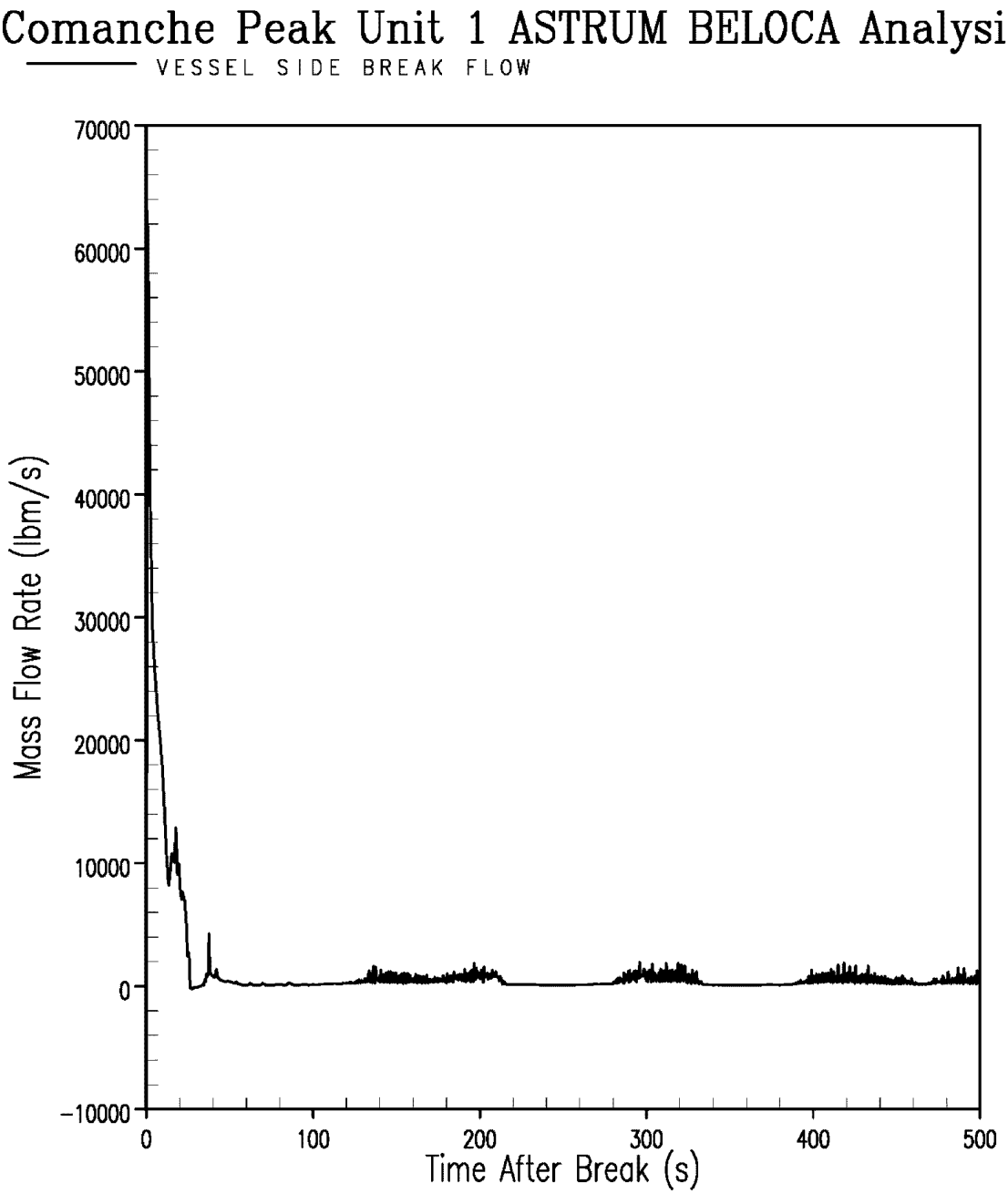


Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case PCT and PCT Location
Figure 15.6-1



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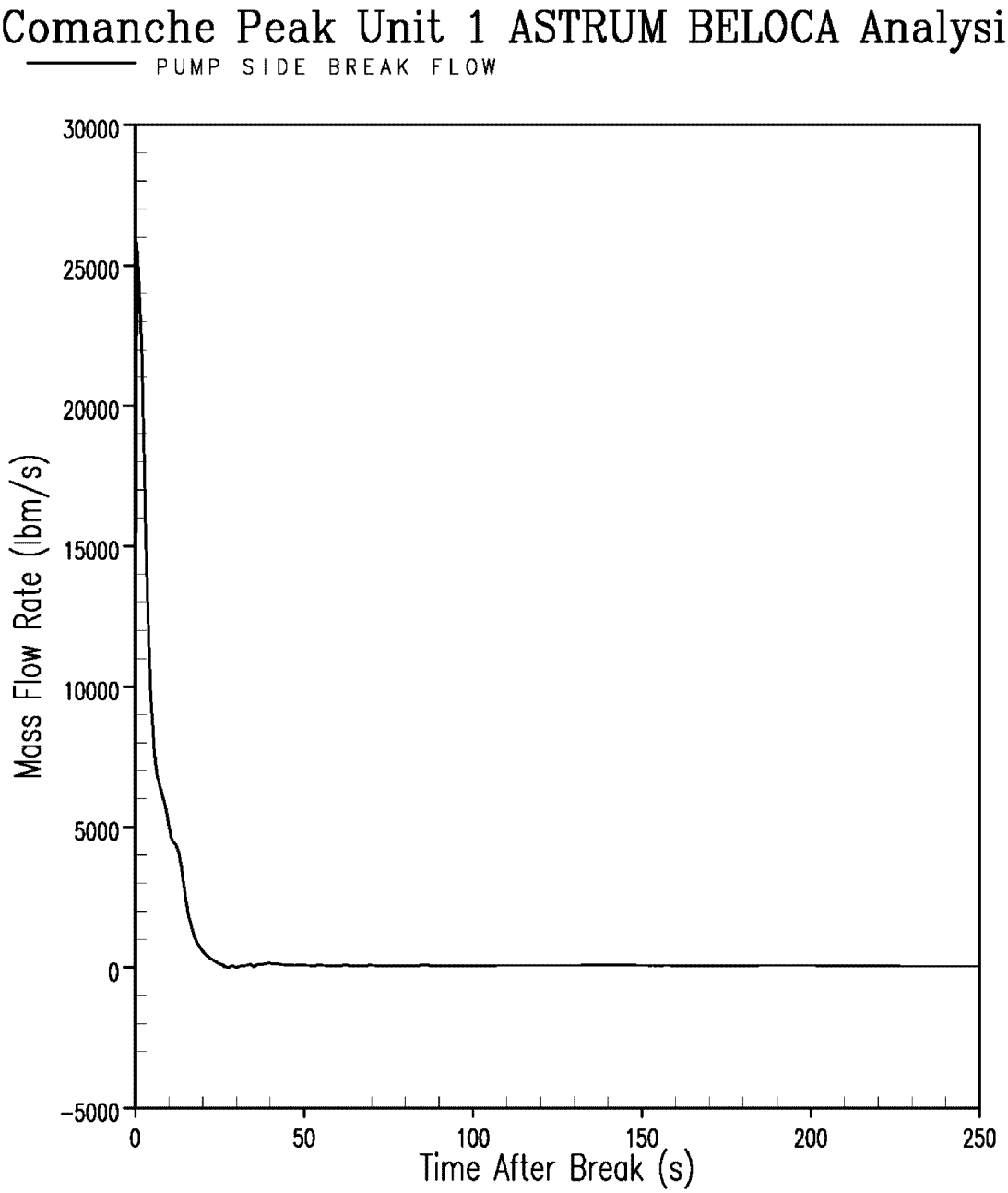
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Vessel Side Break Flow
Figure 15.6-2



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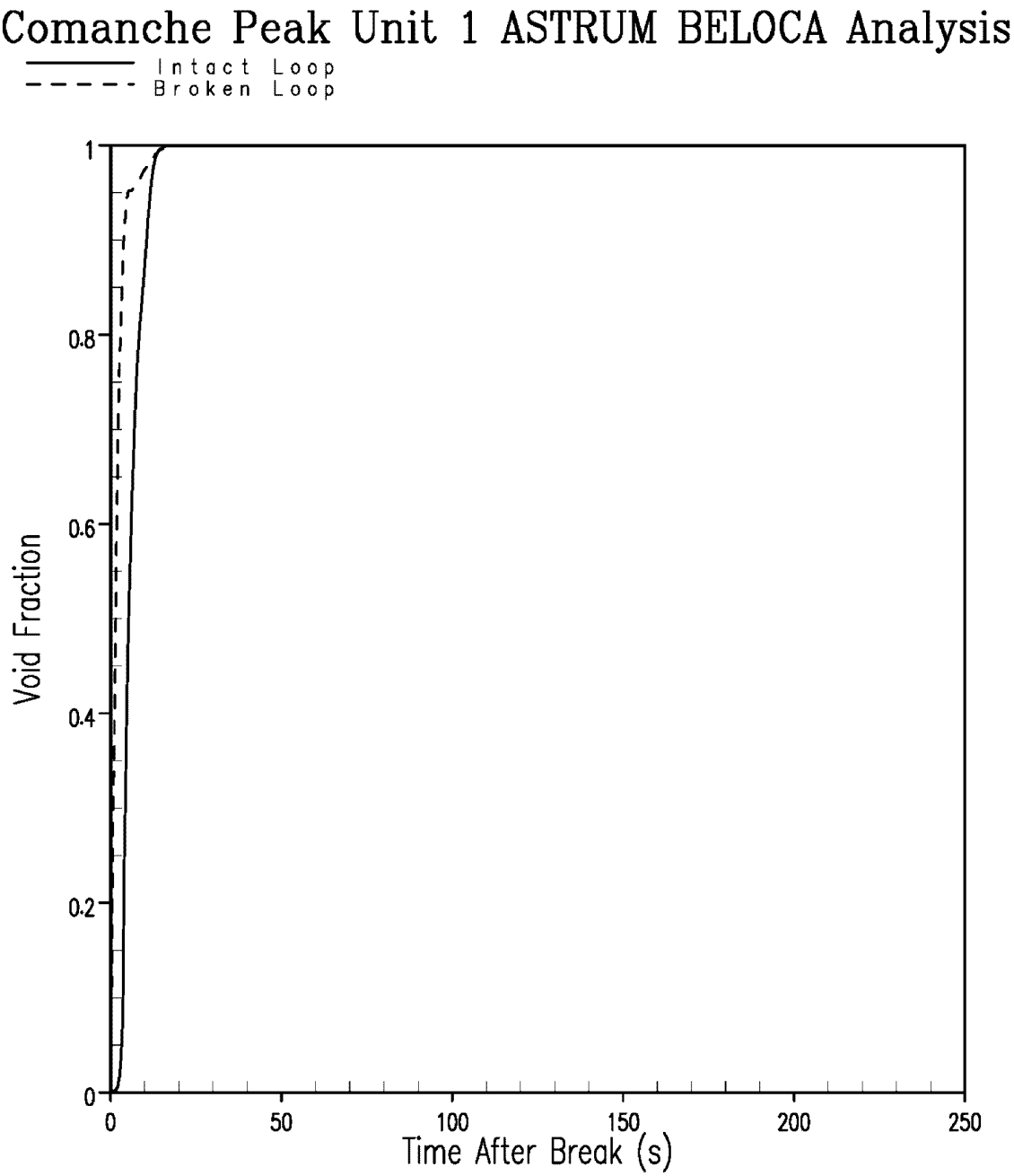
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Loop Side Break Flow
Figure 15.6-3



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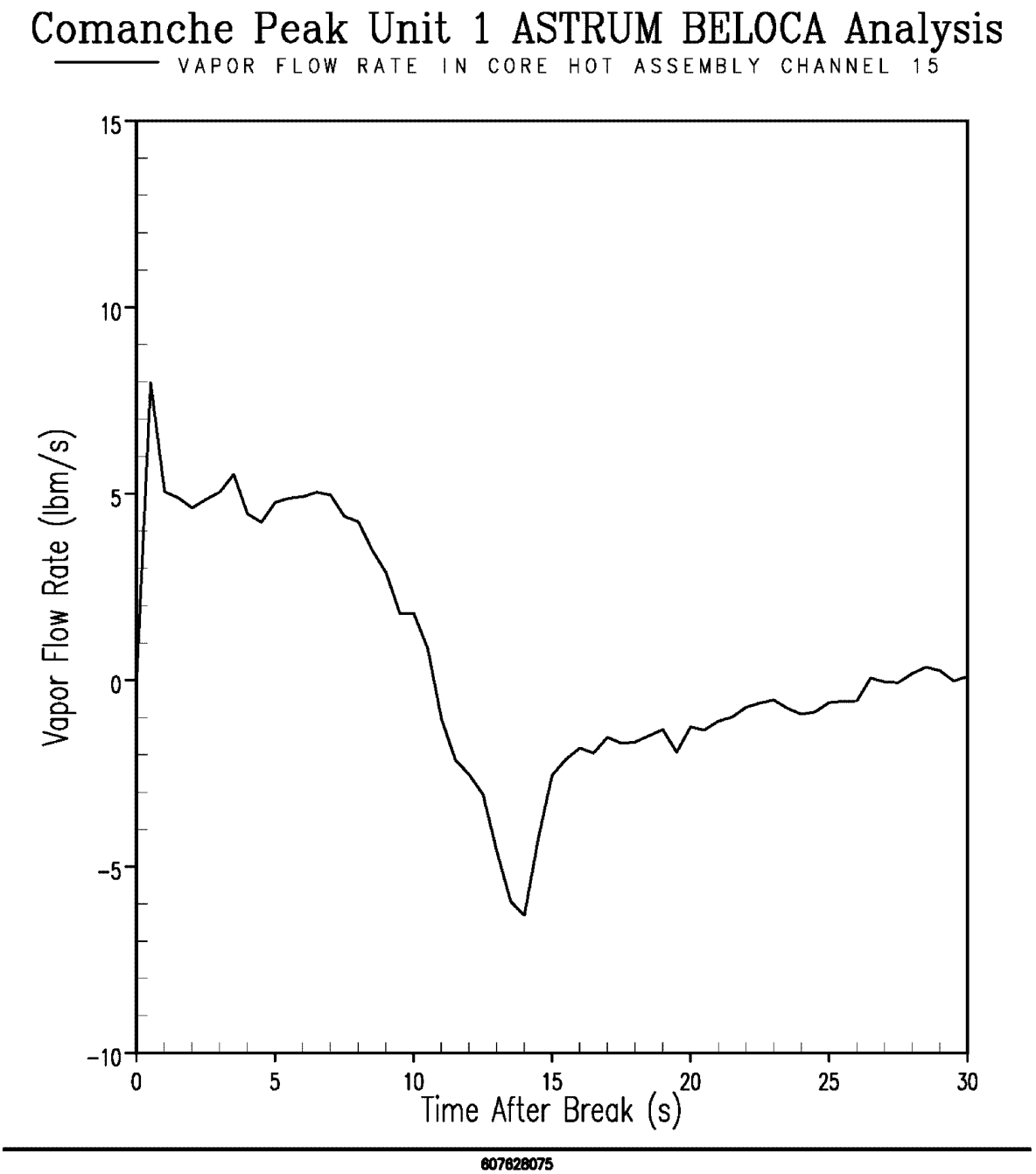
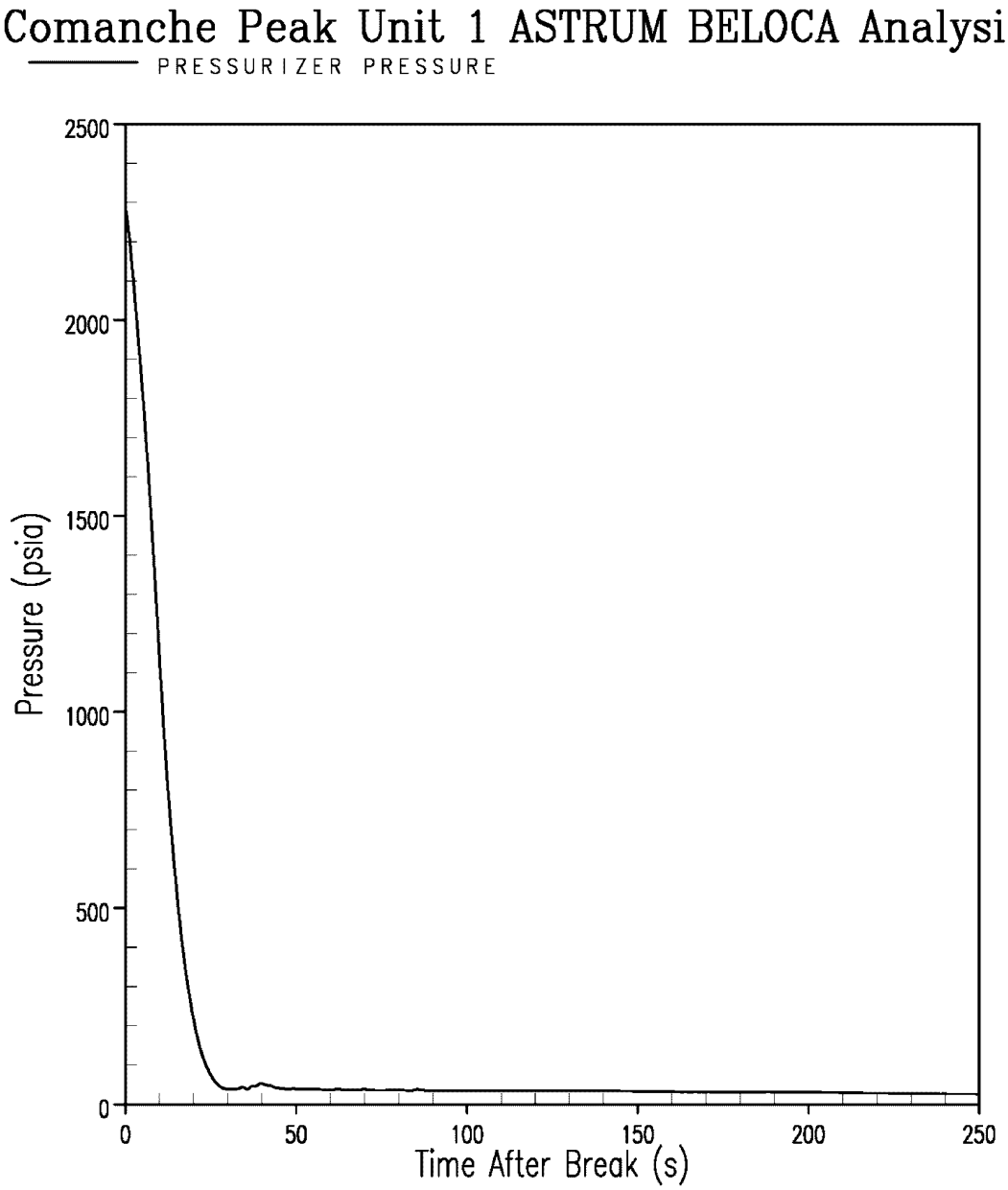
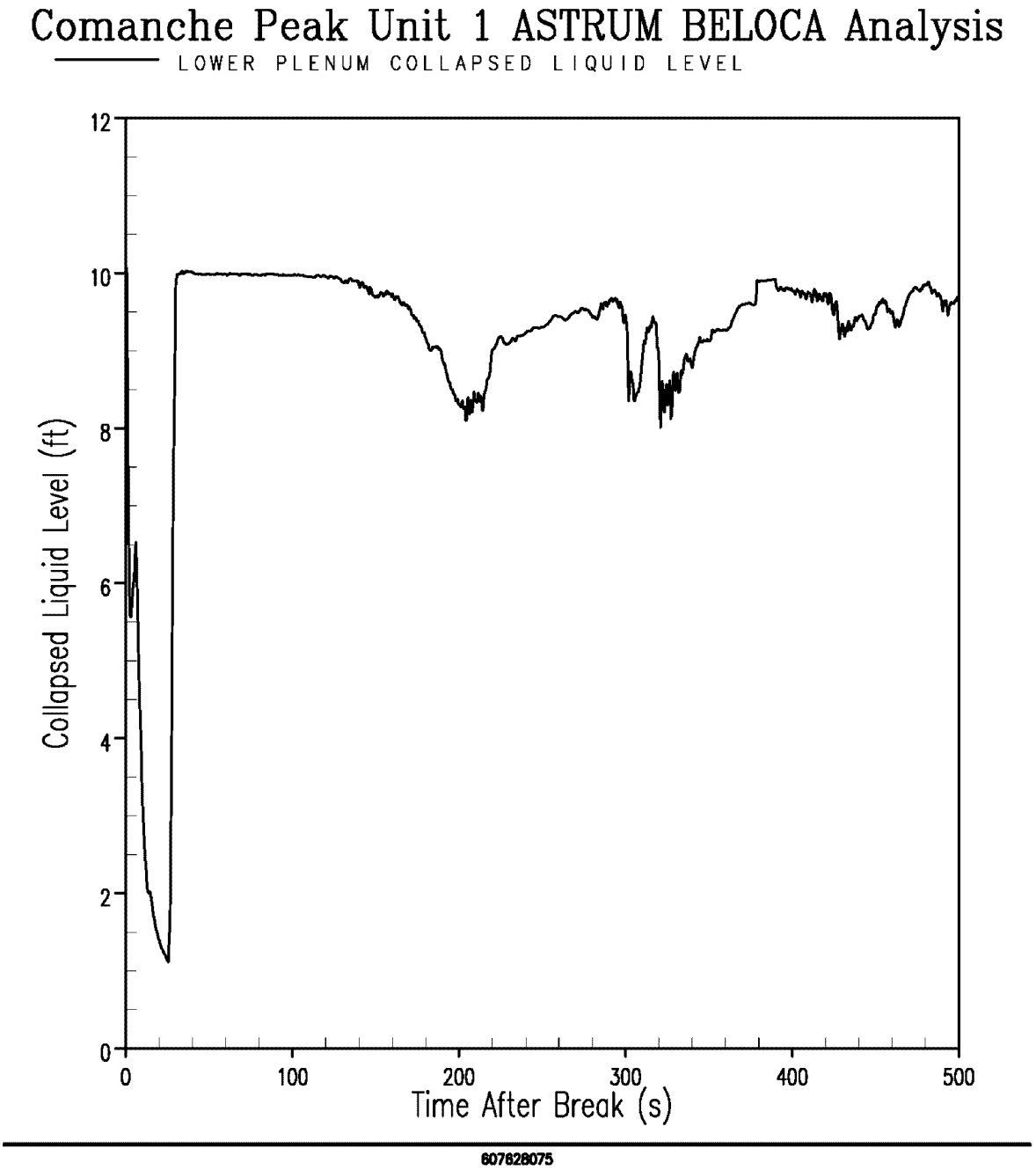
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Broken and Intact Loop Pump Void Fraction
Figure 15.6-4



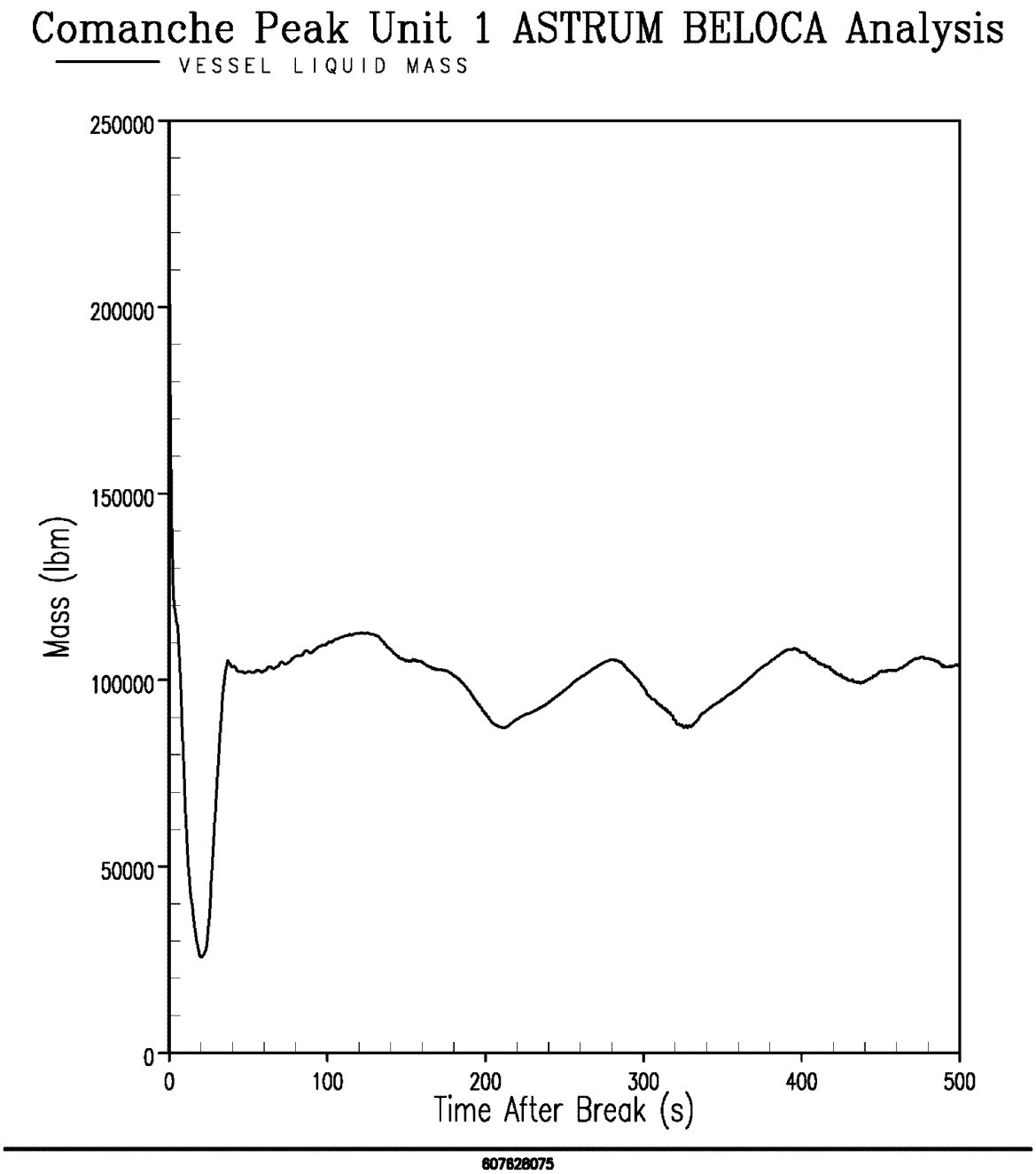
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Hot Assembly Top Third of Core Vapor Flow
Figure 15.6-5



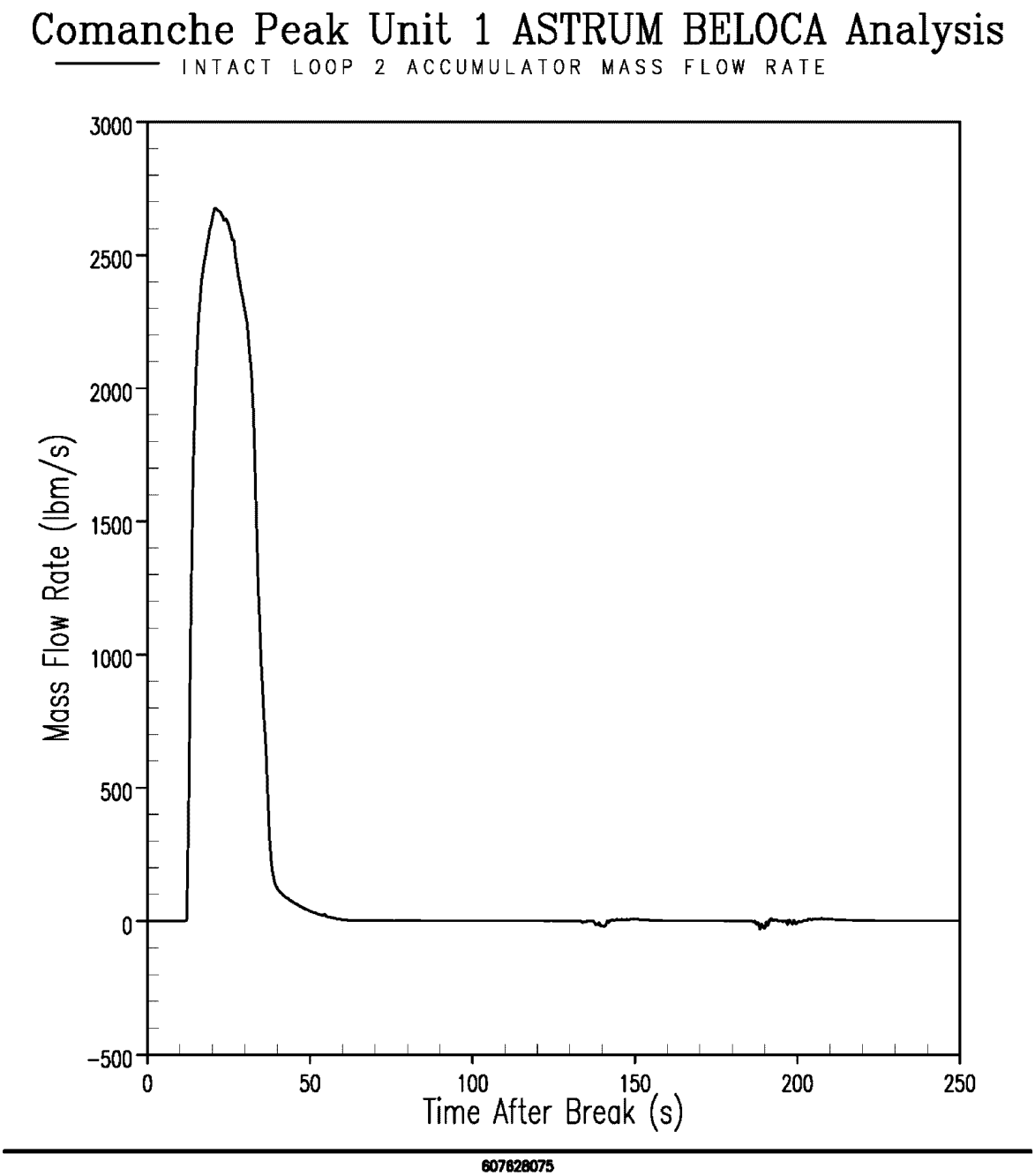
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Pressurizer Pressure
Figure 15.6-6



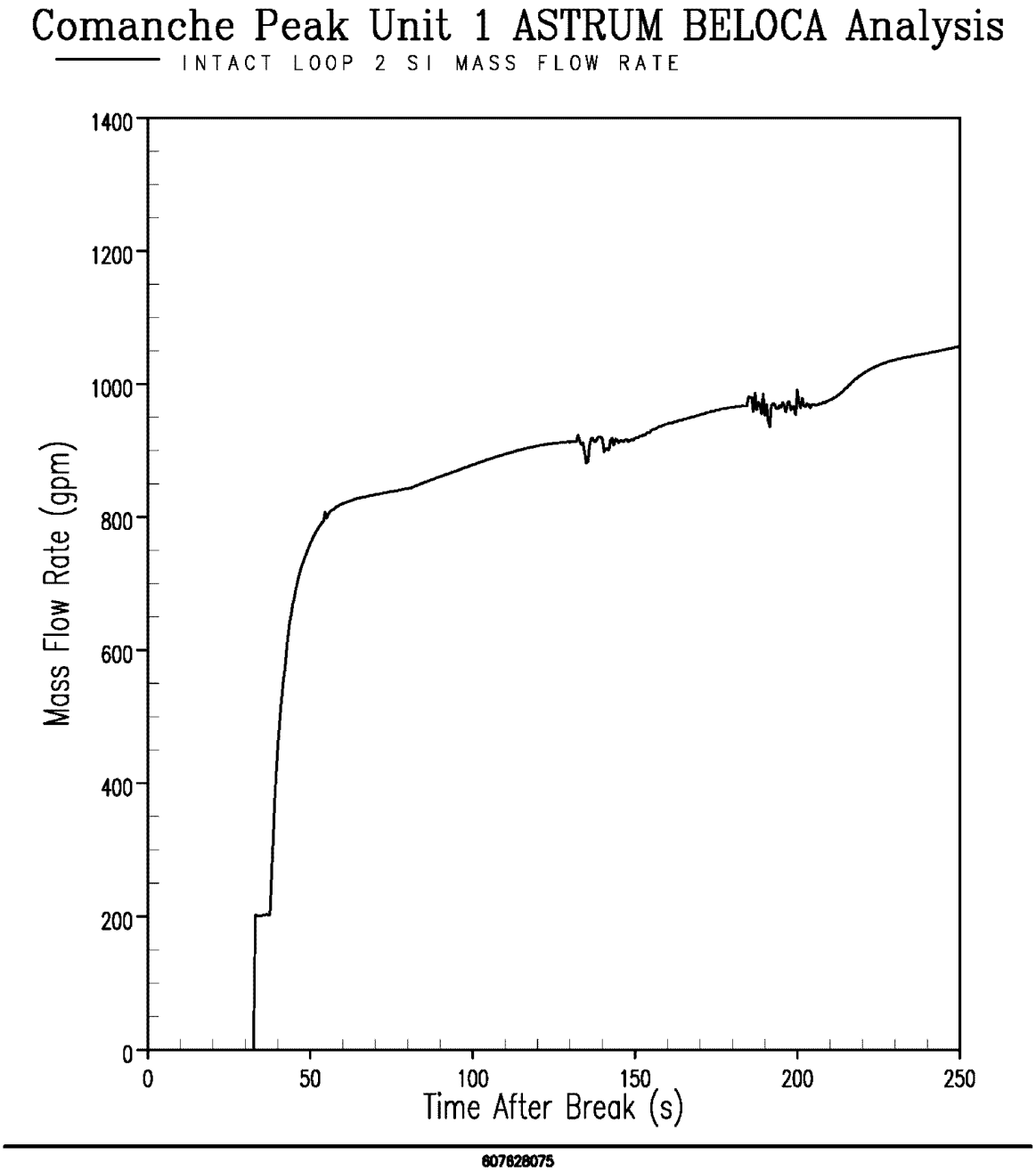
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Lower Plenum Collapsed Liquid Level
Figure 15.6-7



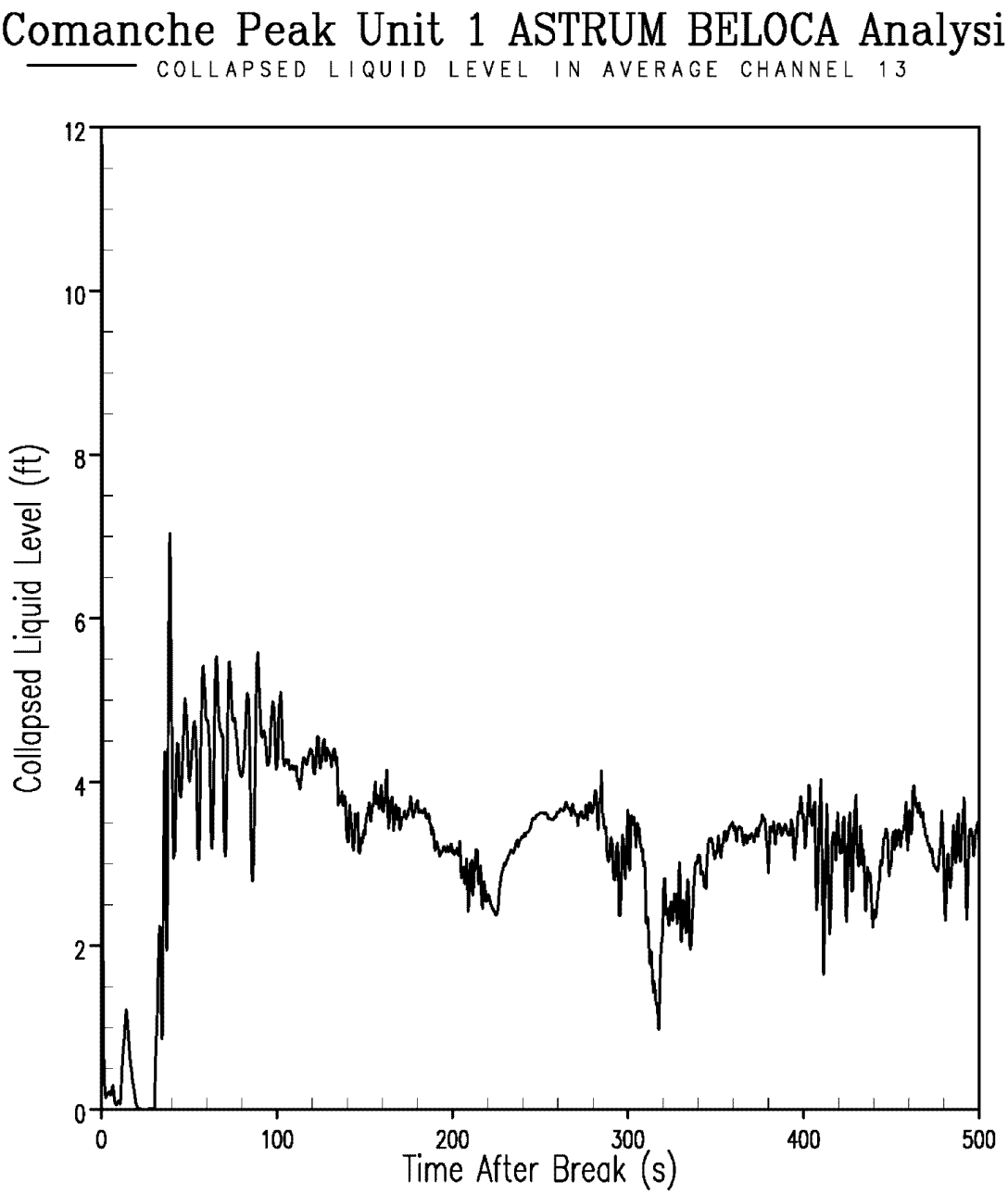
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Vessel Fluid Mass
Figure 15.6-8



Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Loop 2 Accumulator Flow
Figure 15.6-9



Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Loop 2 Safety Injection Flow
Figure 15.6-10



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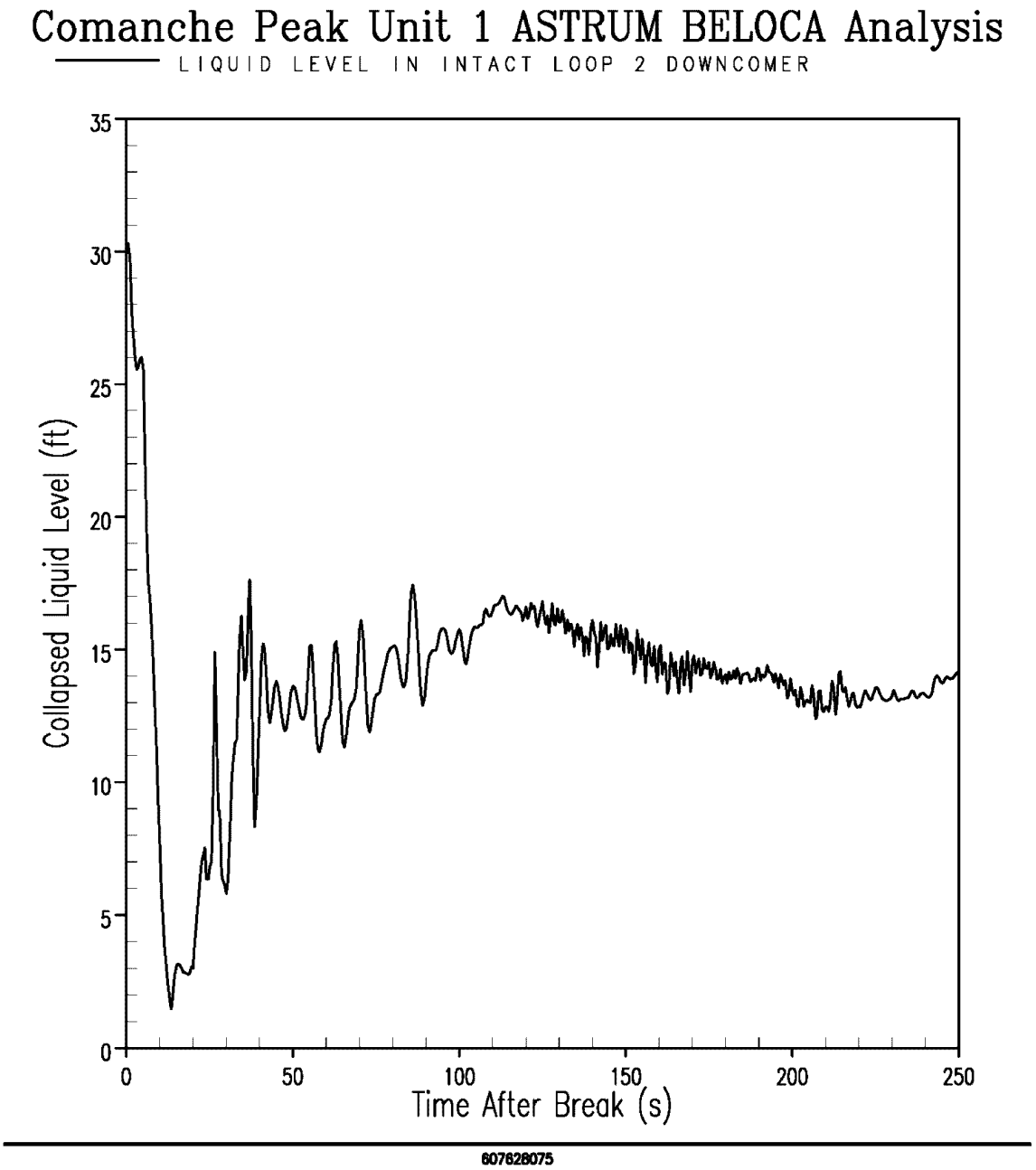
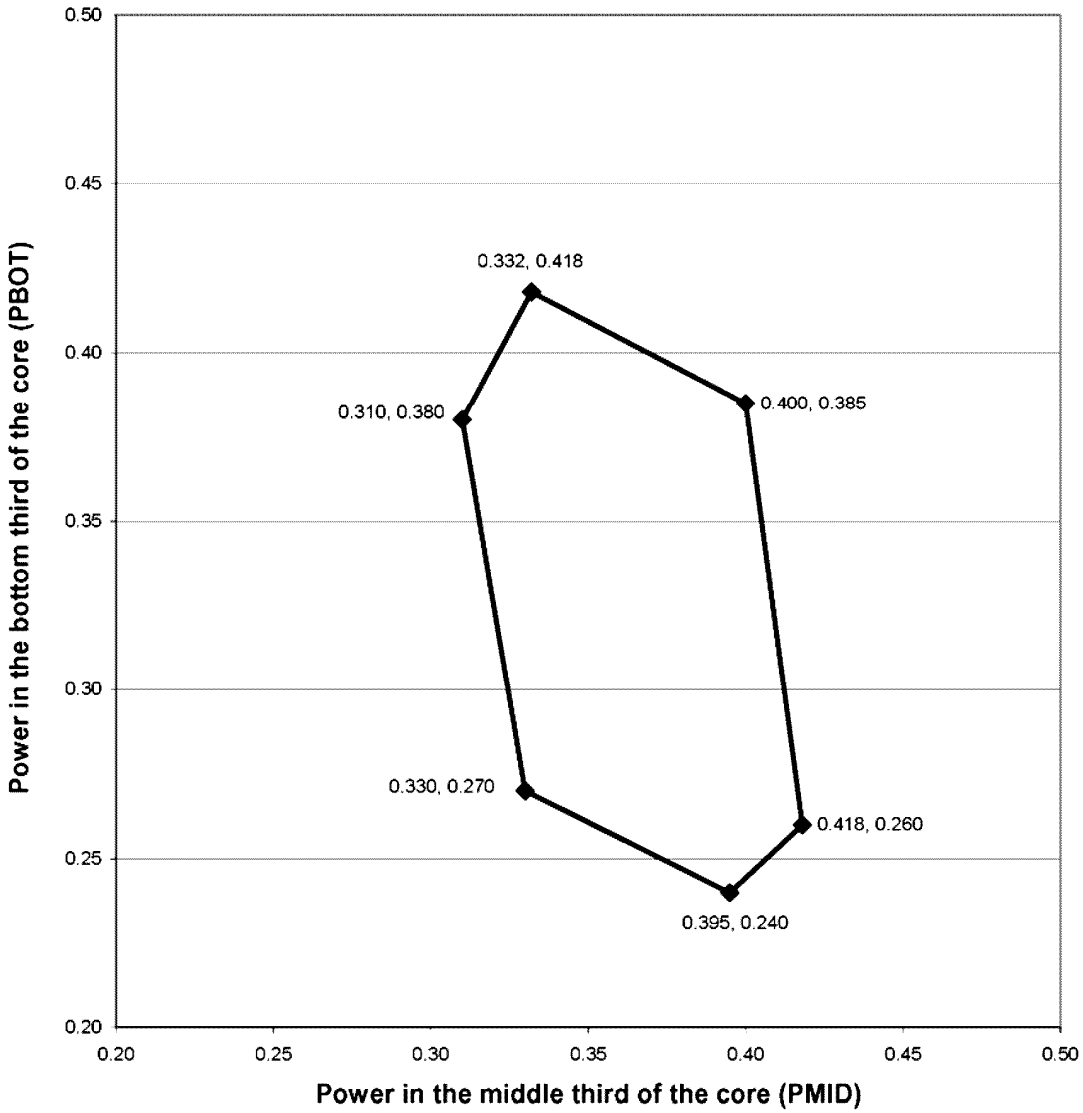
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Core Average Channel Collapsed Liquid Level
Figure 15.6-11



Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Limiting PCT Case Loop 2 Downcomer Collapsed Liquid Level
Figure 15.6-12

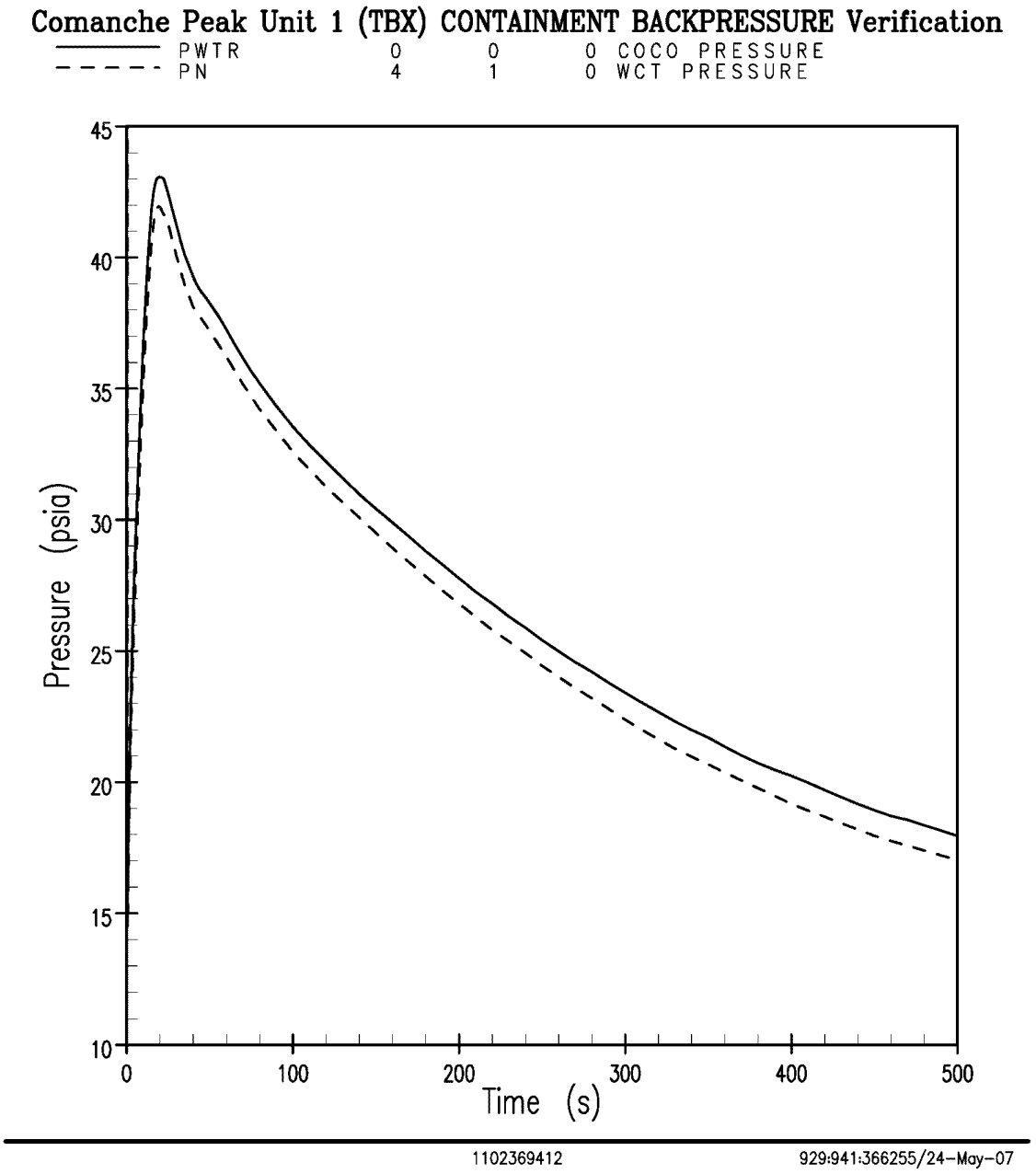
PBOT/PMID Box for the Comanche Peak Units 1 and 2 BELOCA Project



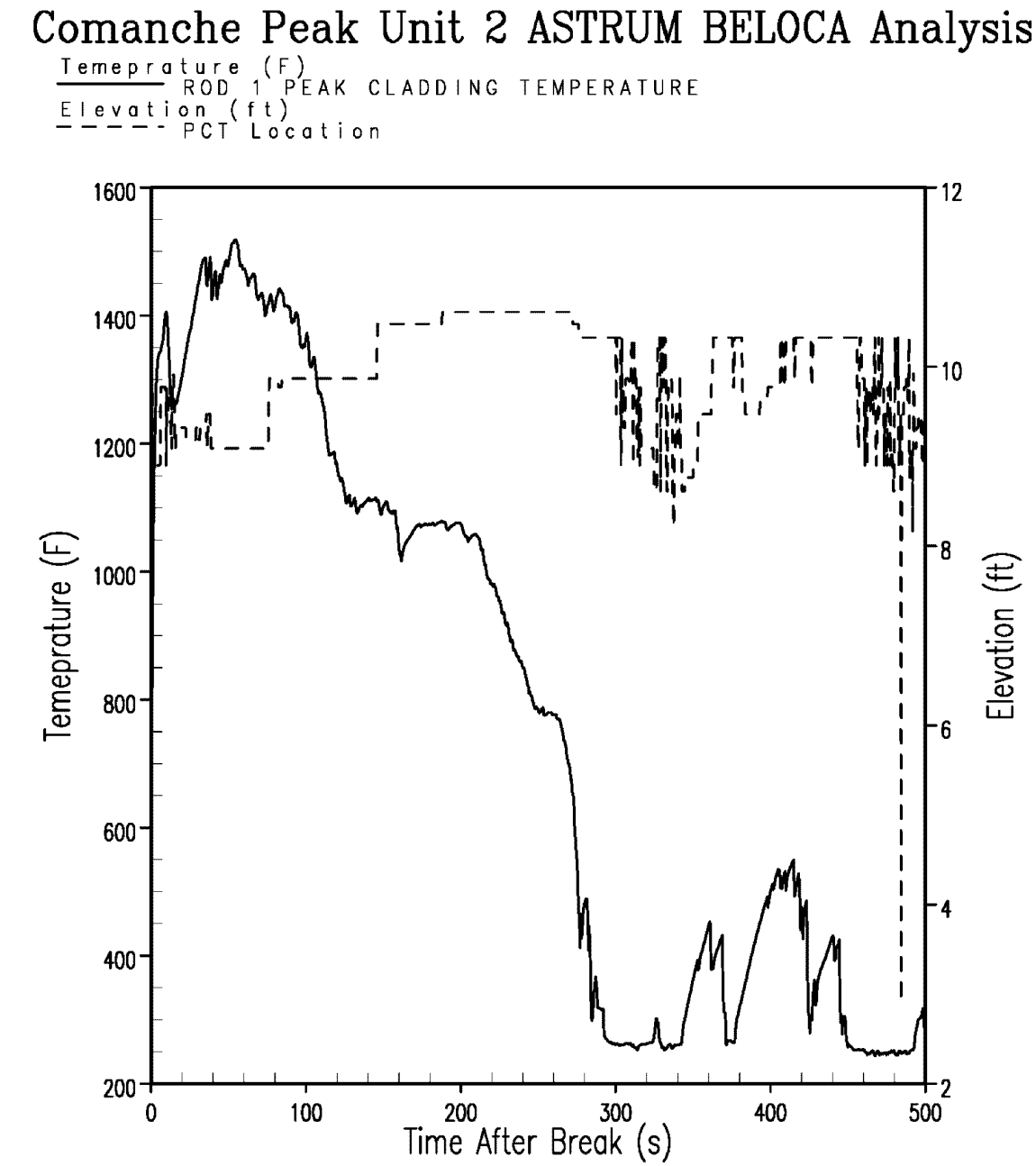
PBOT = integrated power fraction in the bottom third of the core

PMID = integrated power fraction in the middle third of the core

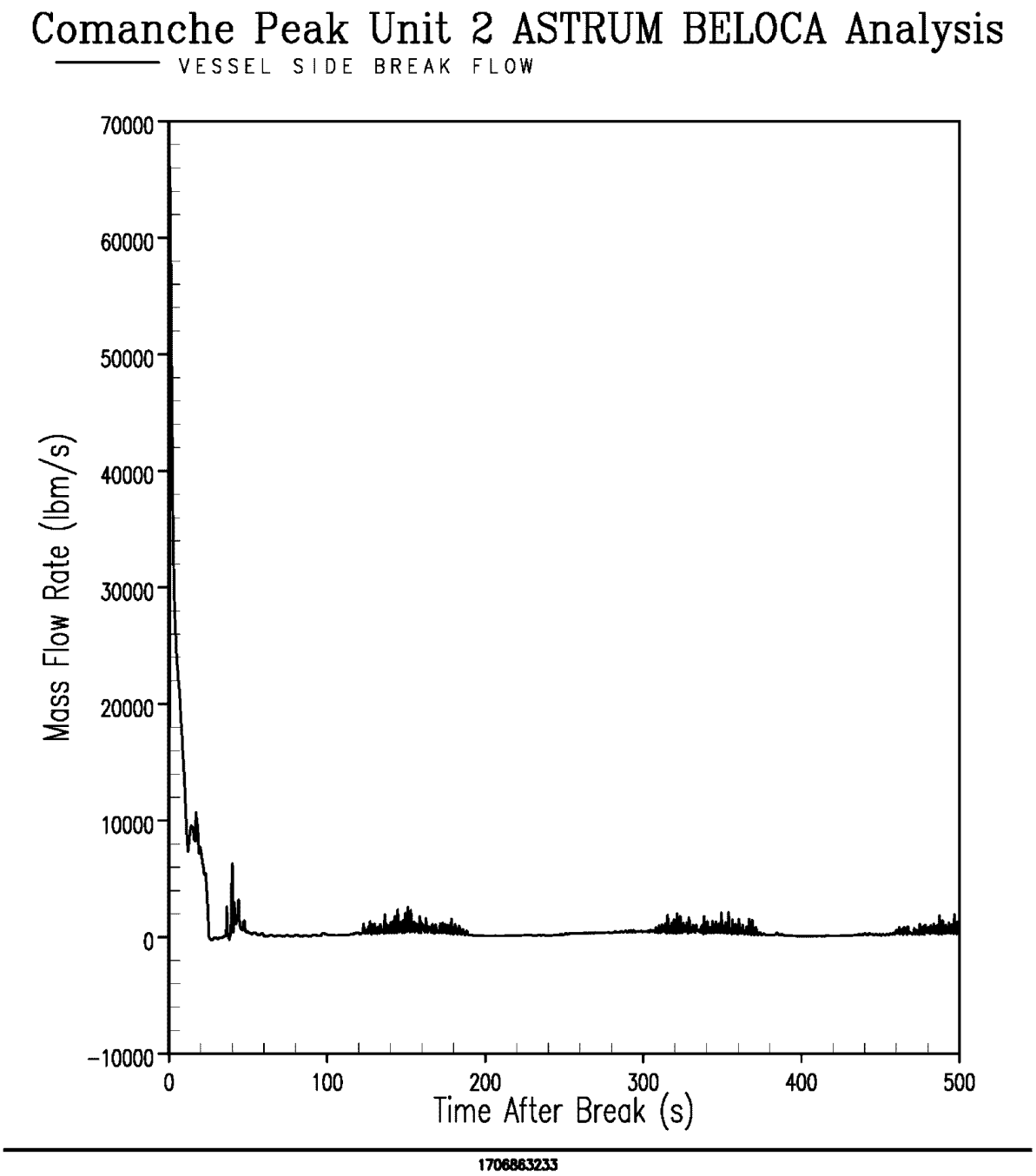
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 BELOCA Analysis Axial Power Shape Operating Space Envelope
Figure 15.6-13



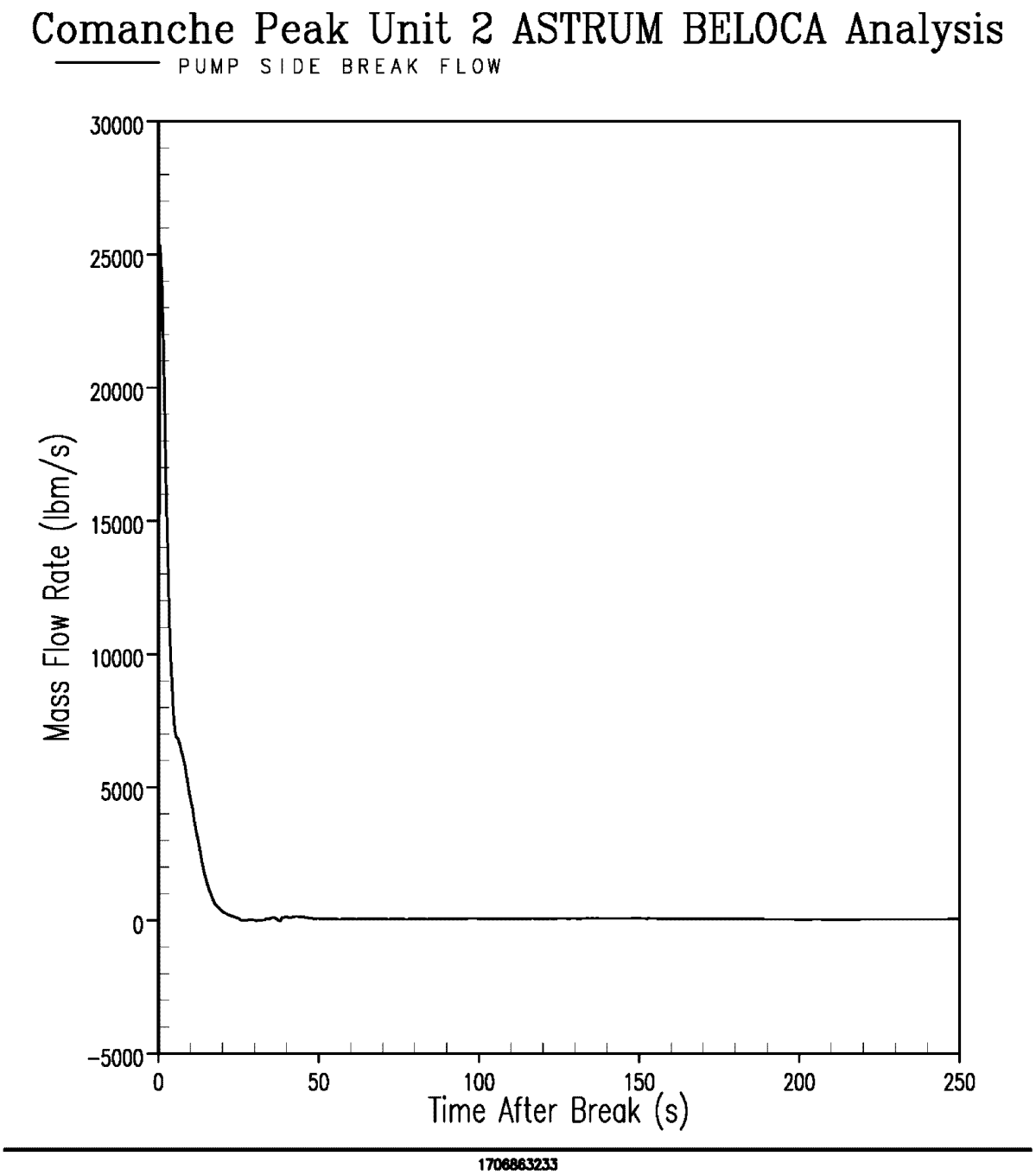
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 1 Lower Bound Containment Pressure
Figure 15.6-14



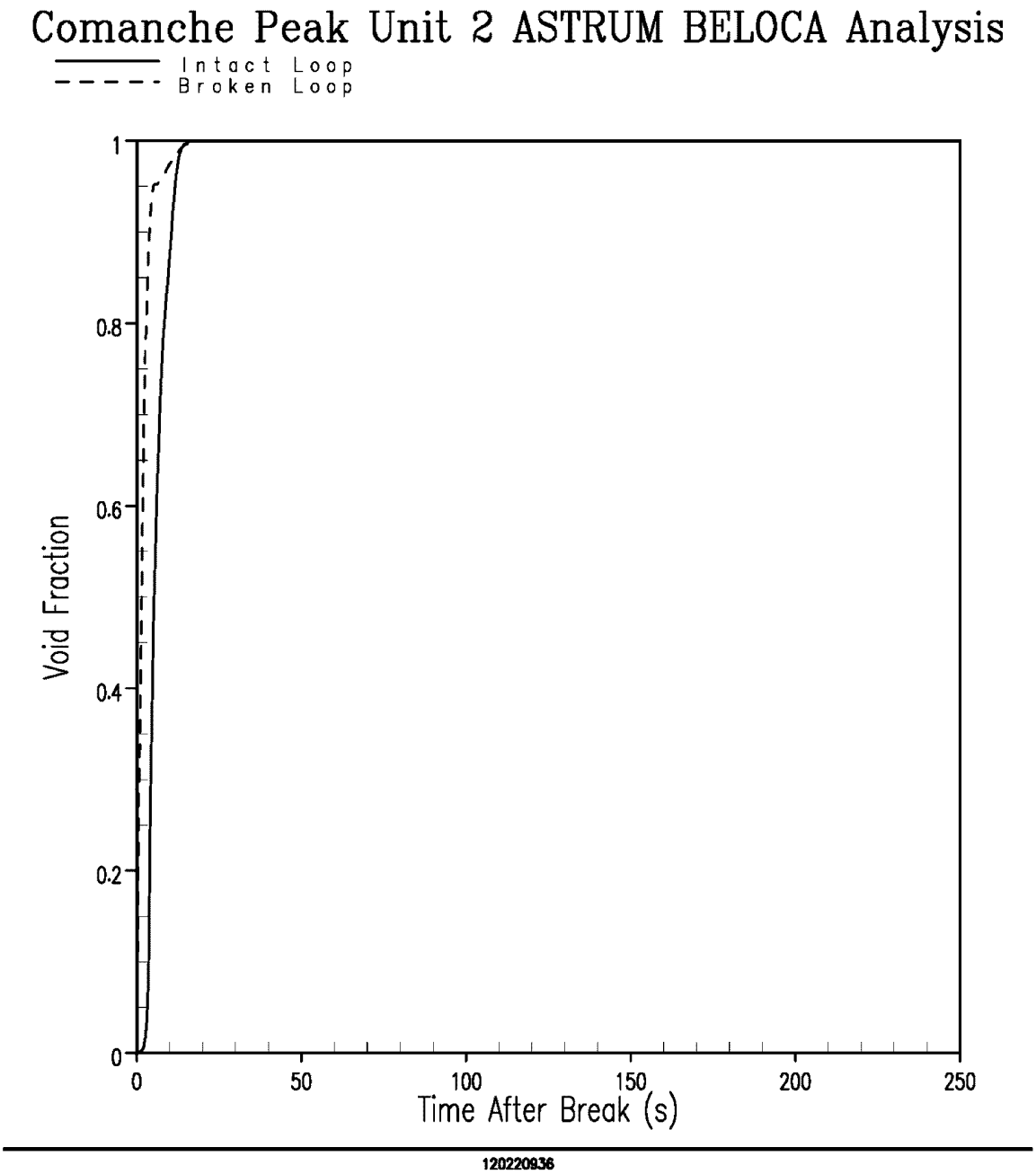
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case PCT and PCT Location
Figure 15.6-15



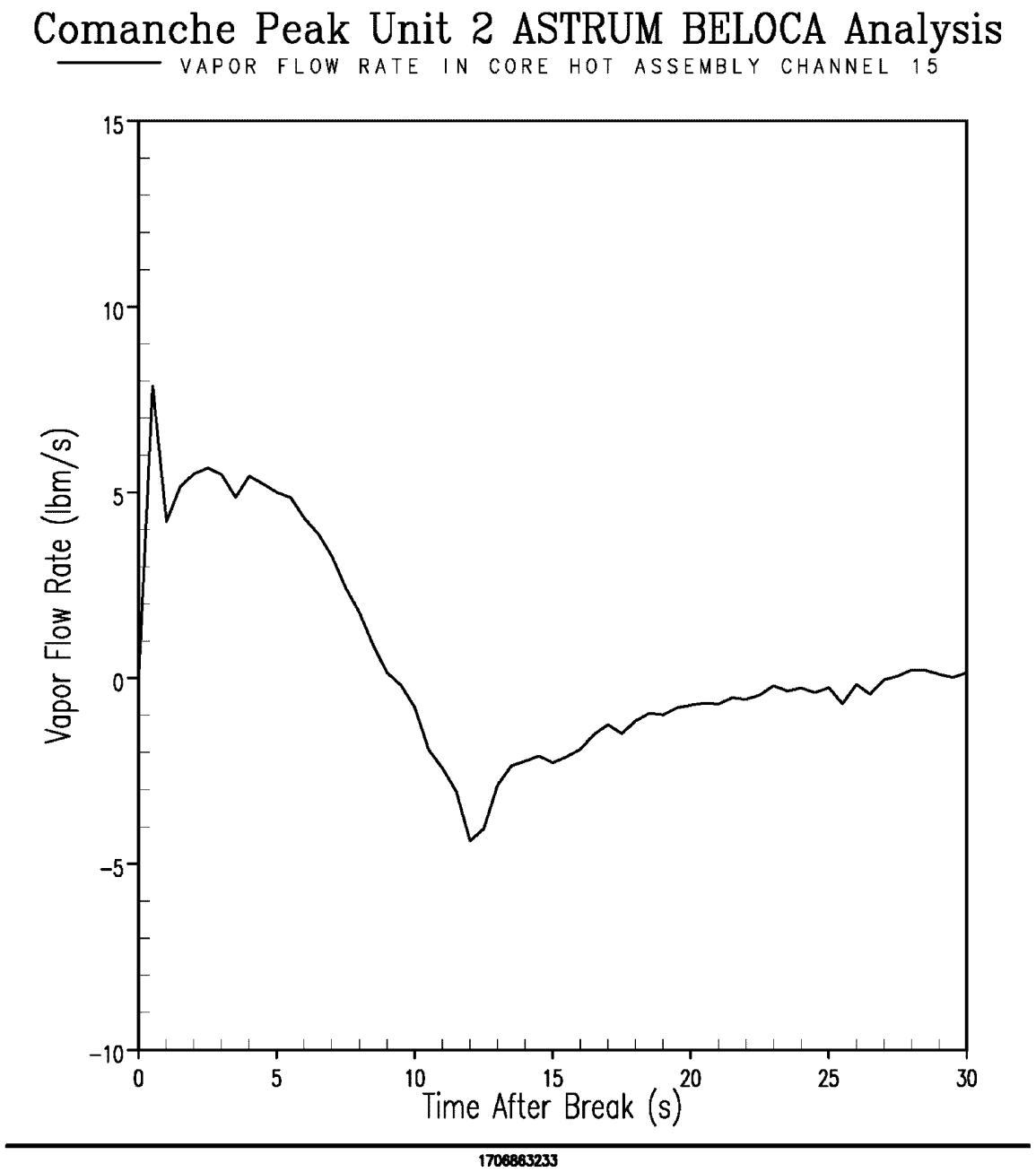
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Vessel Side Break Flow
Figure 15.6-16



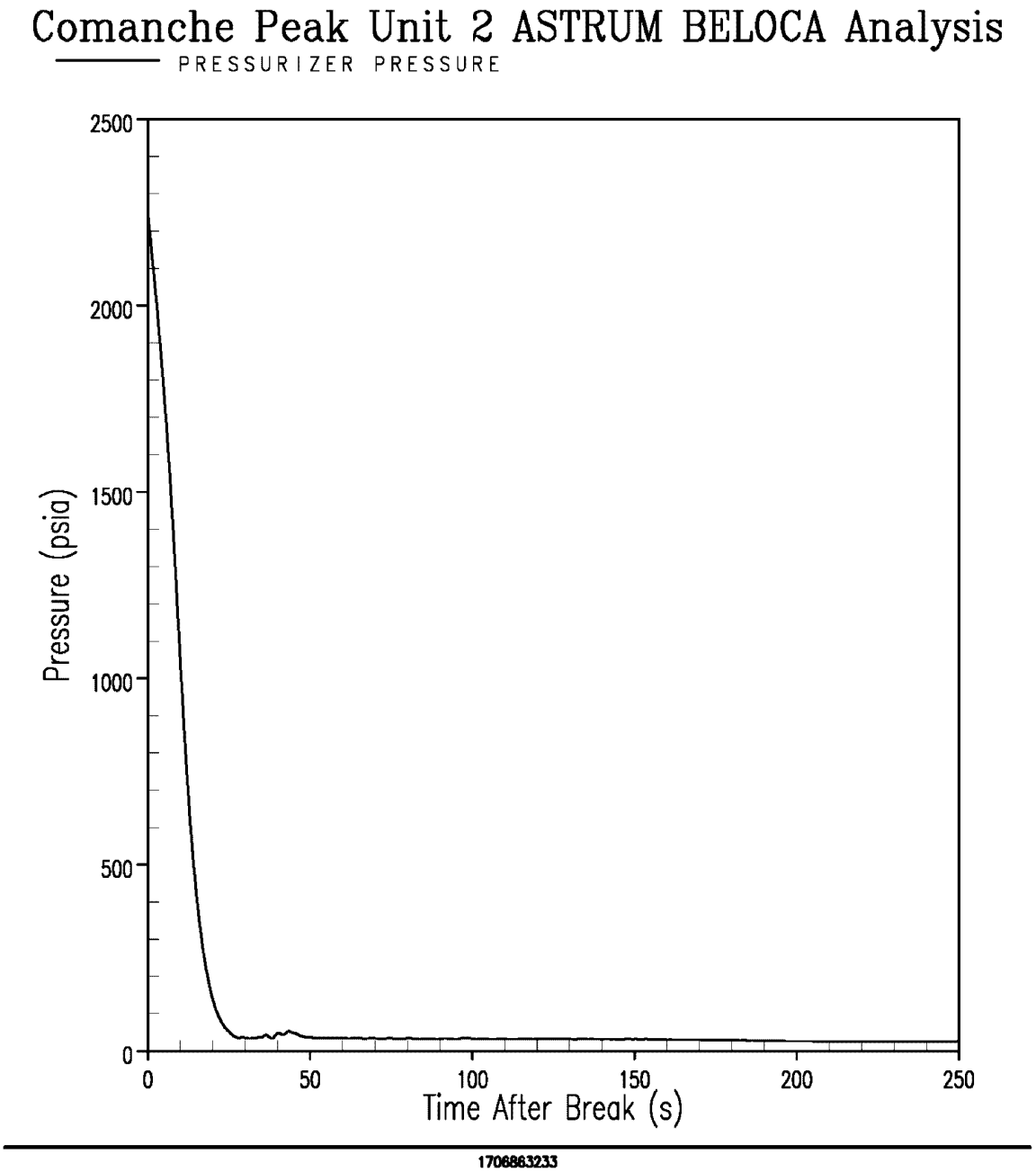
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Loop Side Break Flow
Figure 15.6-17



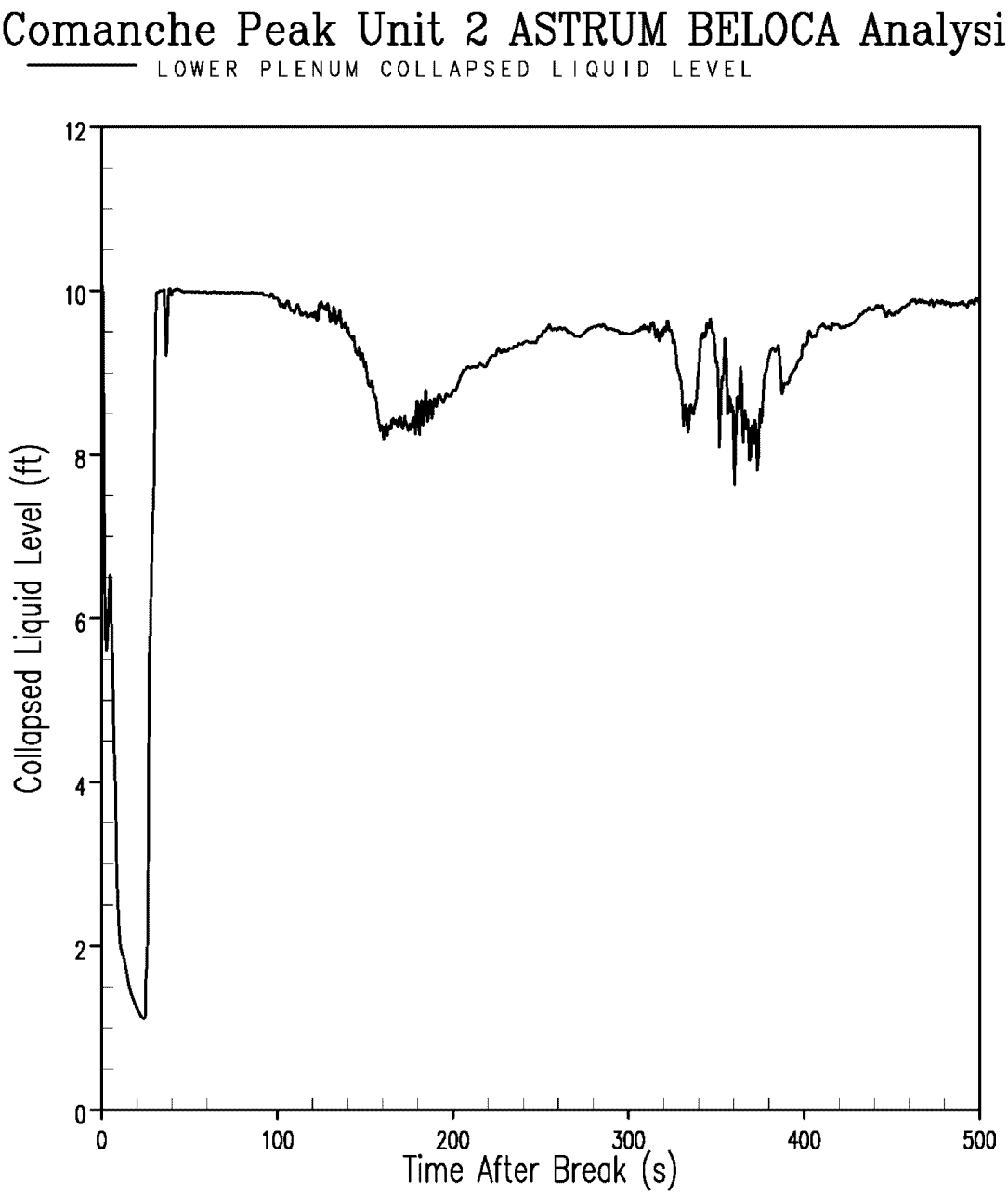
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Broken and Intact Loop Pump Void Fraction
Figure 15.6-18



Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Hot Assembly Top Third of Core Vapor Flow
Figure 15.6-19



Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Pressurizer Pressure
Figure 15.6-20



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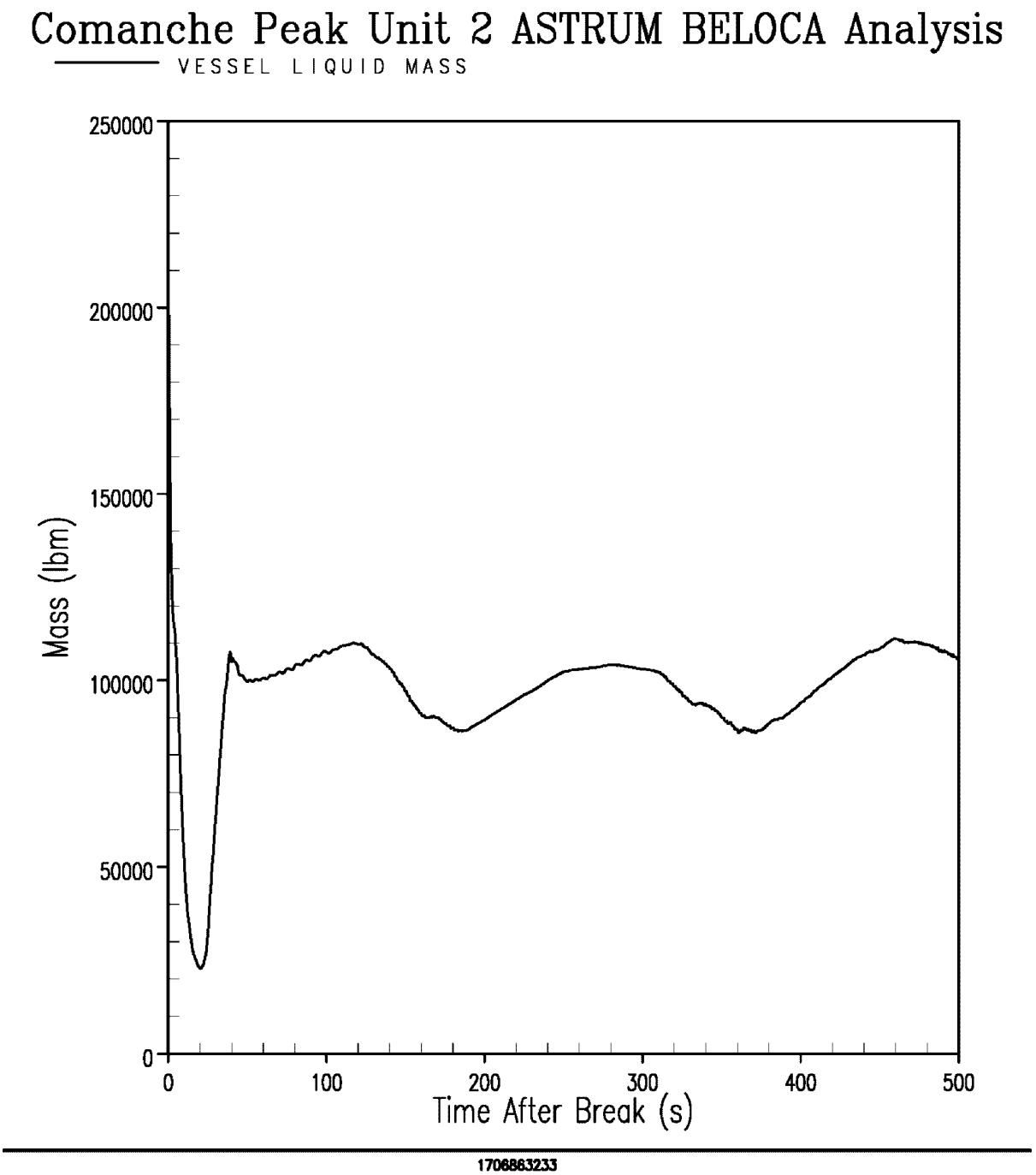
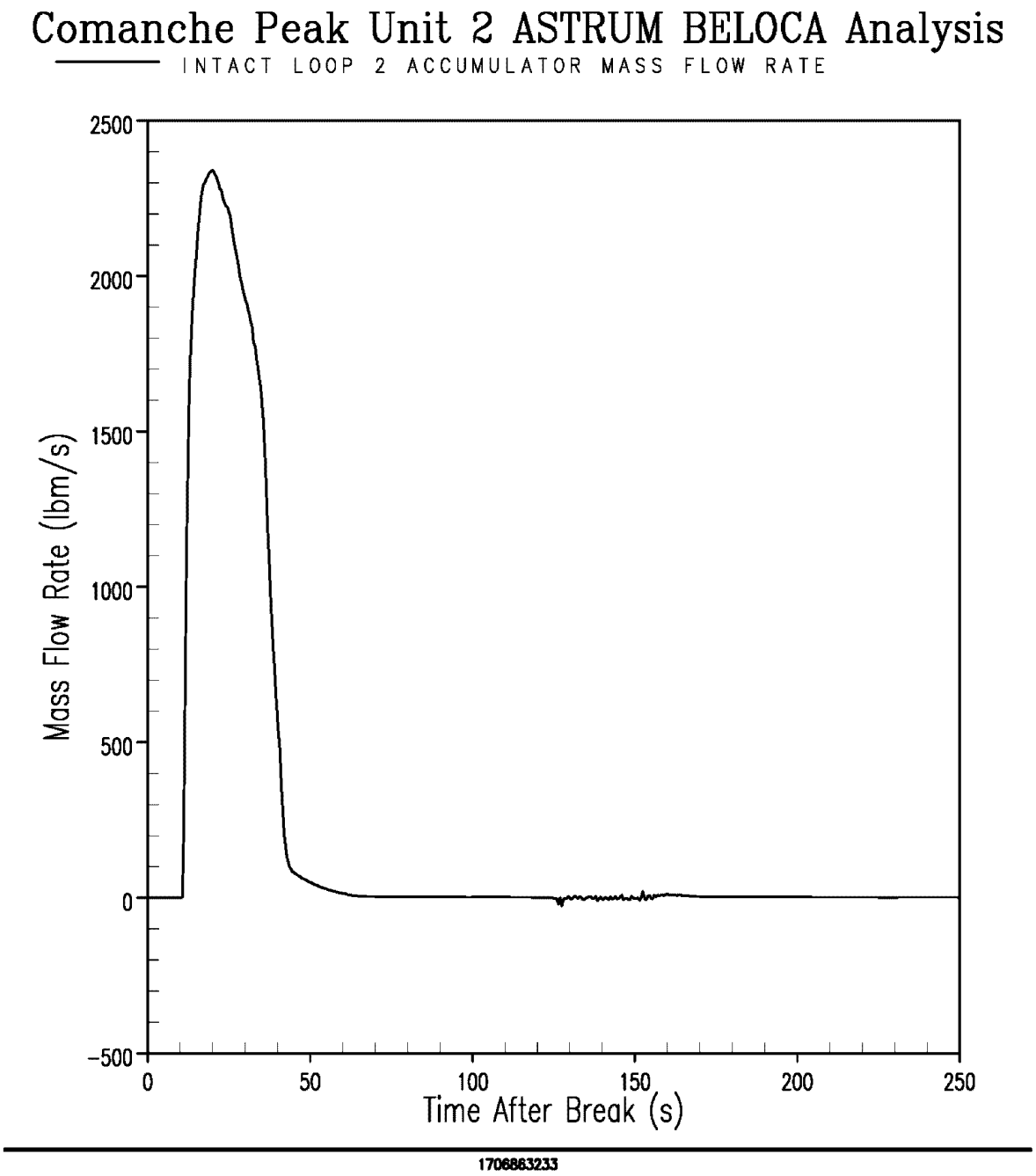
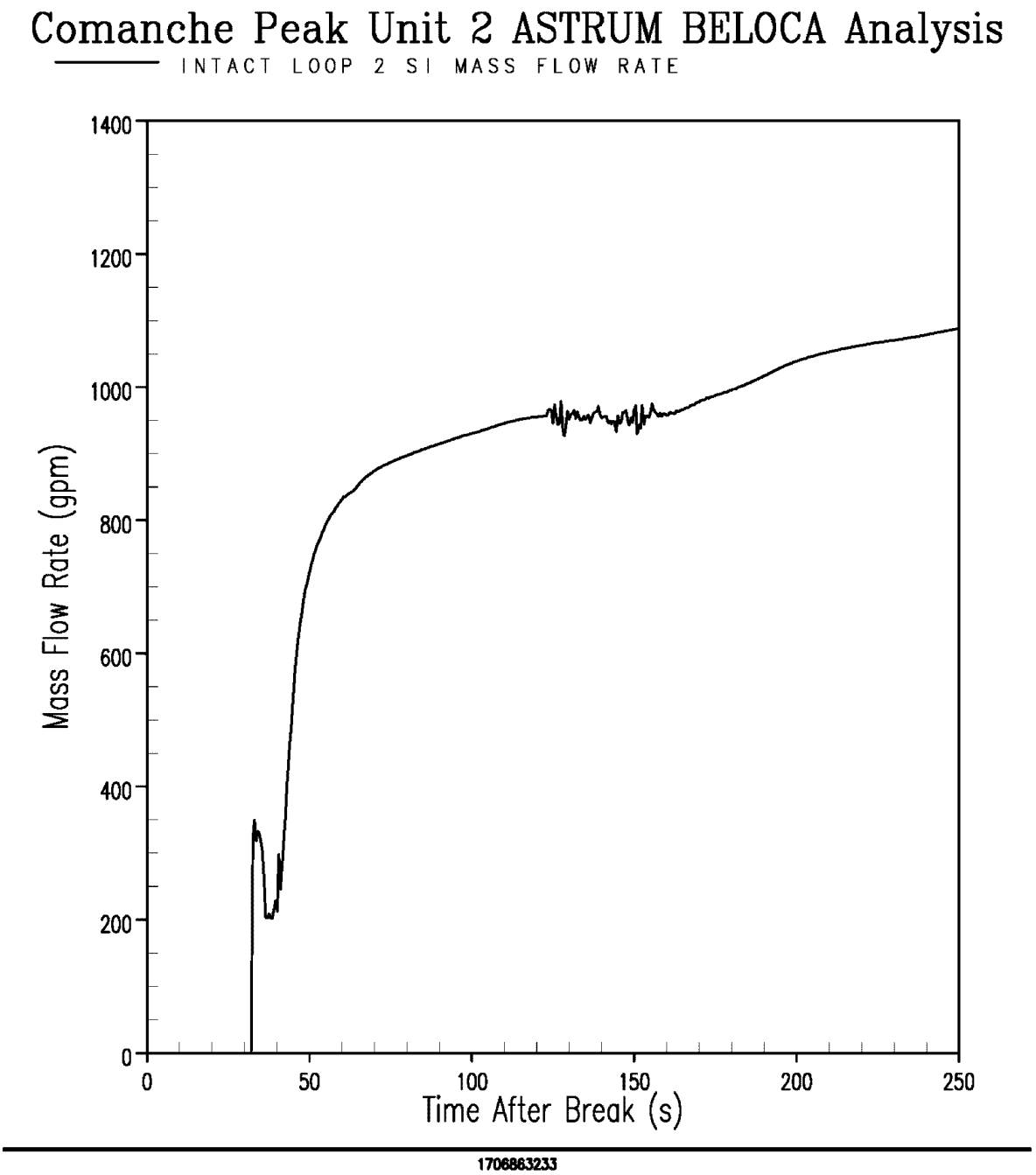
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Lower Plenum Collapsed Liquid Level
Figure 15.6-21



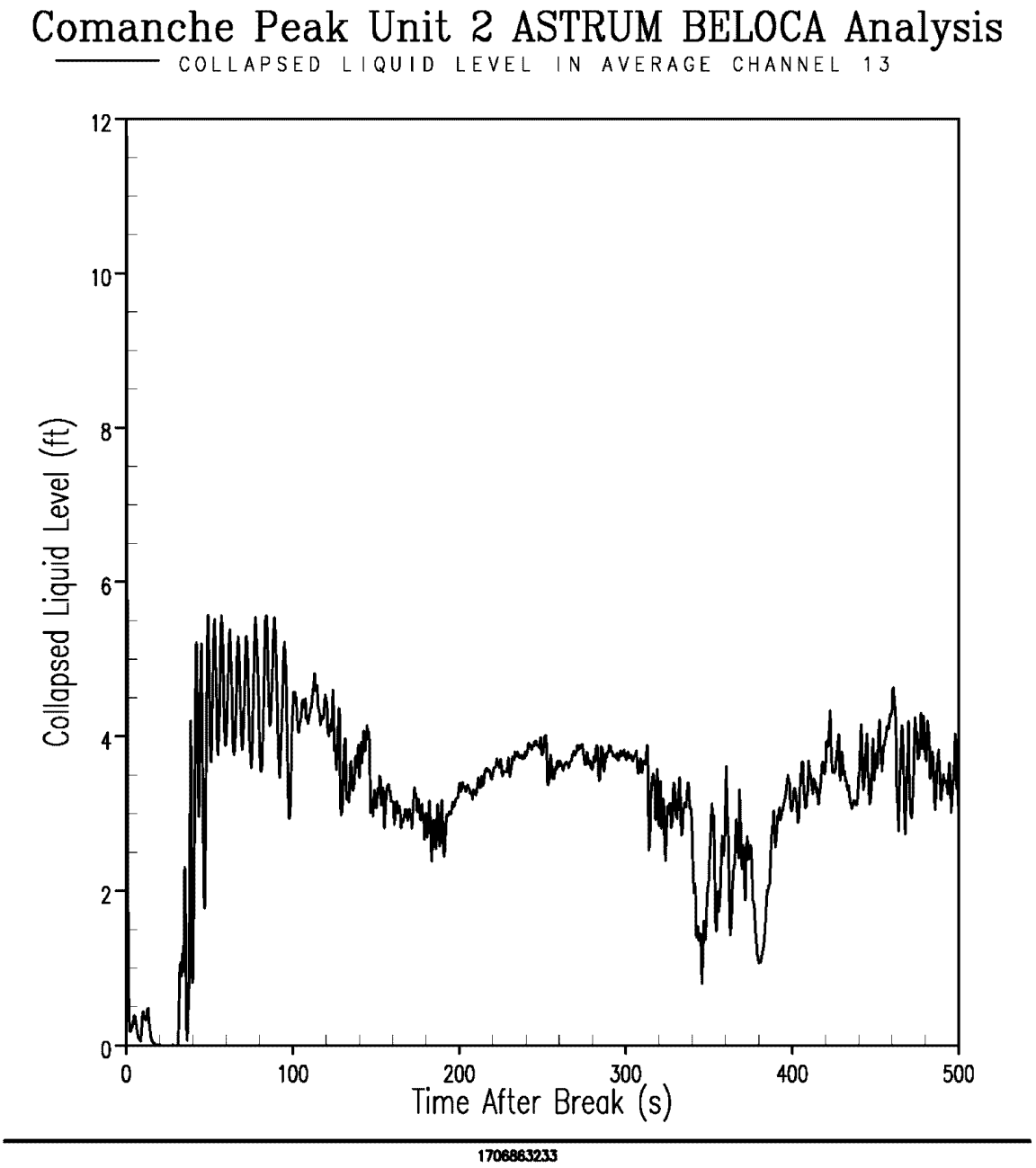
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Vessel Fluid Mass
Figure 15.6-22



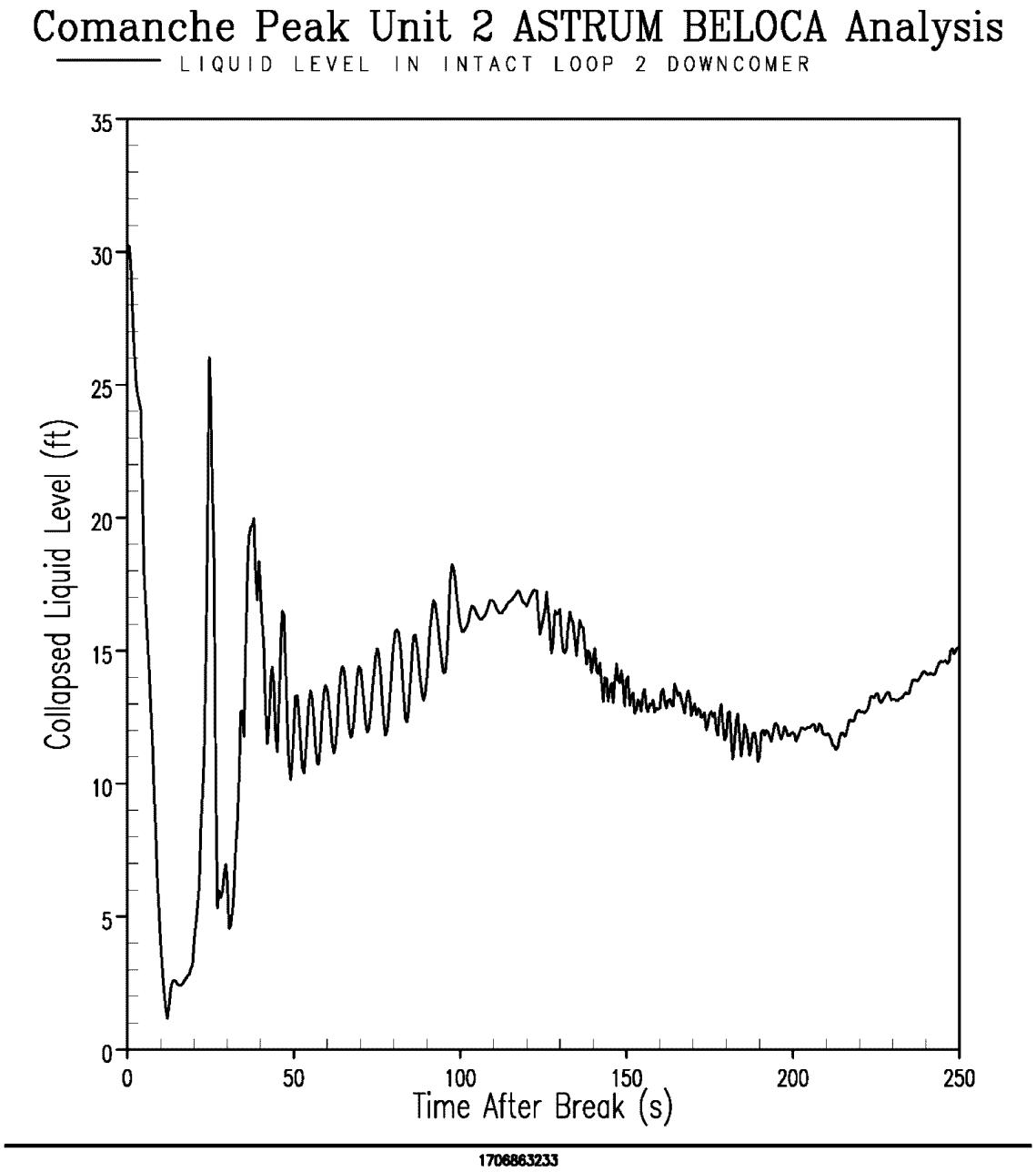
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Loop 2 Accumulator Flow
Figure 15.6-23



Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Loop 2 Safety Injection Flow
Figure 15.6-24

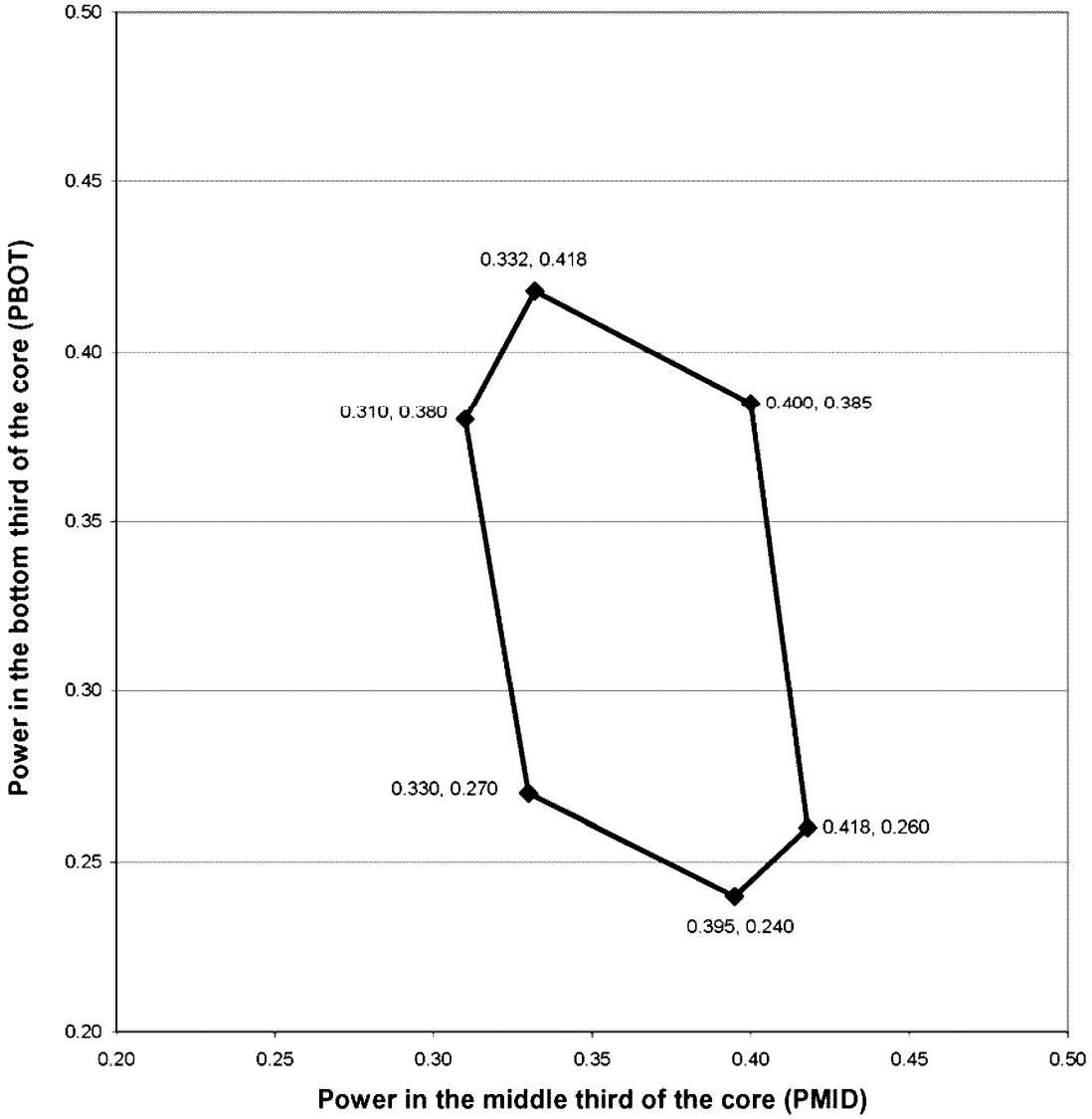


Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Core Average Channel Collapsed Liquid Level
Figure 15.6-25



Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Limiting PCT Case Loop 2 Downcomer Collapsed Liquid Level
Figure 15.6-26

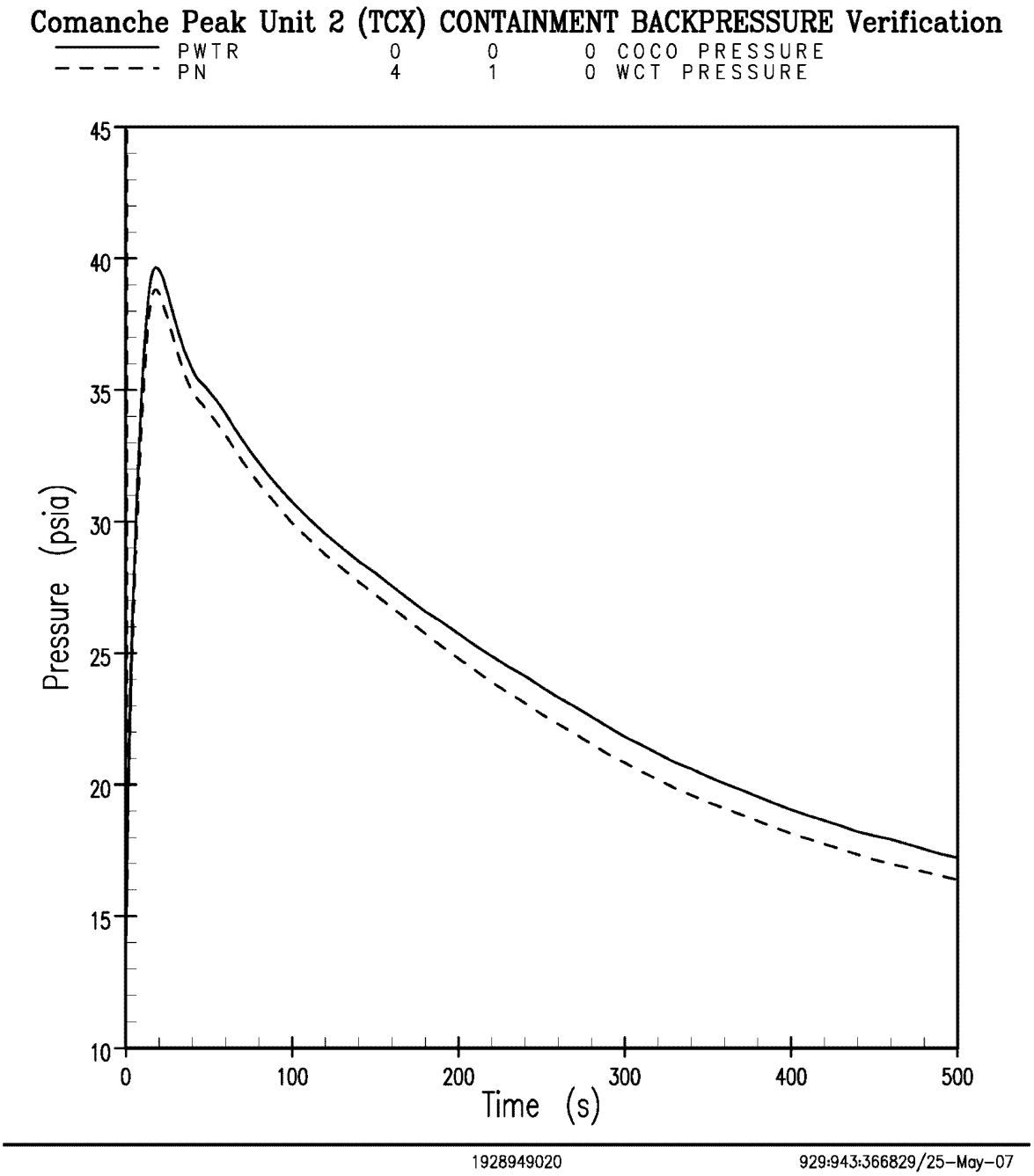
PBOT/PMID Box for the Comanche Peak Units 1 and 2 BELOCA Project



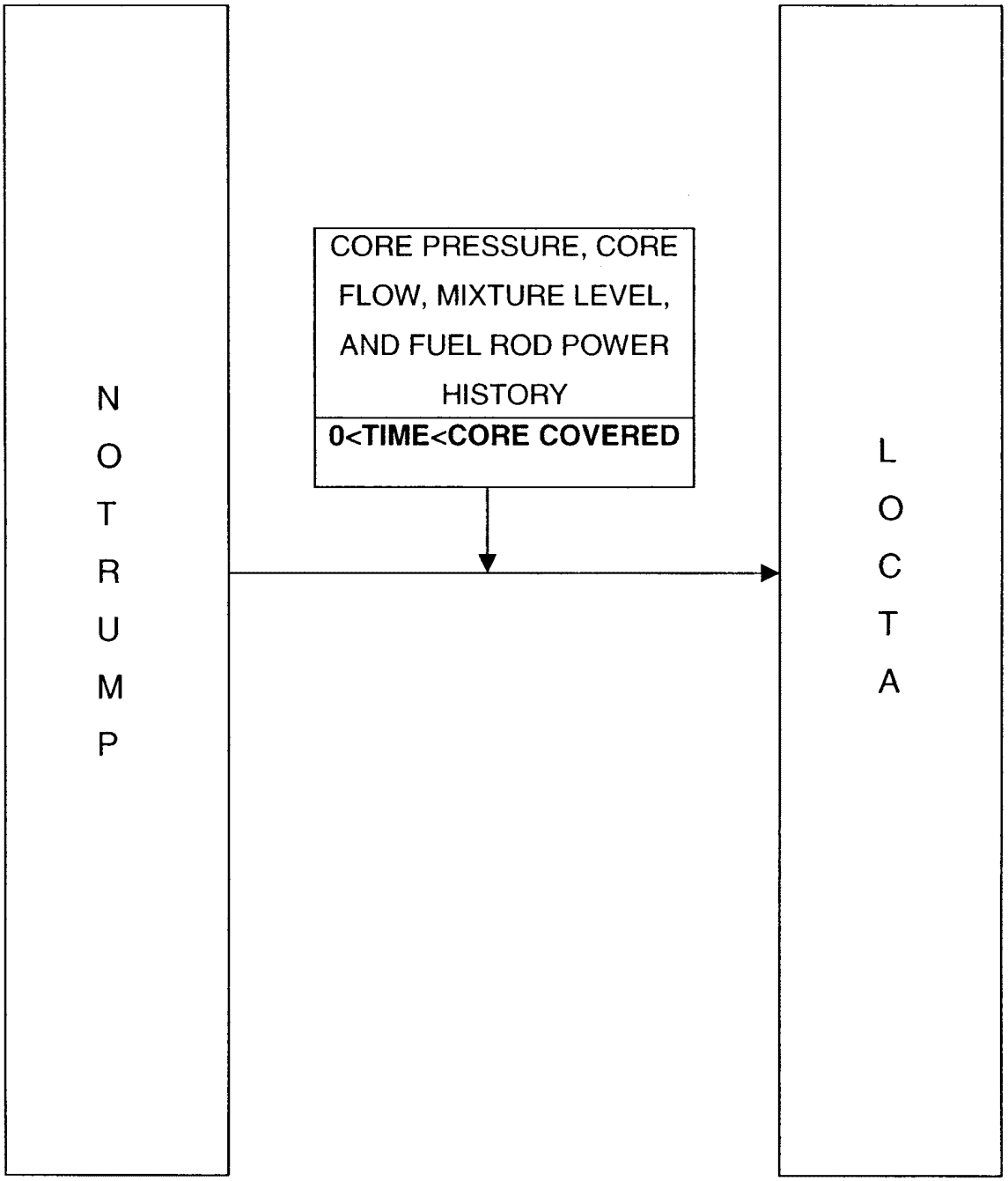
PBOT = integrated power fraction in the bottom third of the core

PMID = integrated power fraction in the middle third of the core

Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 BELOCA Analysis Axial Power Shape Operating Space Envelope
Figure 15.6-27



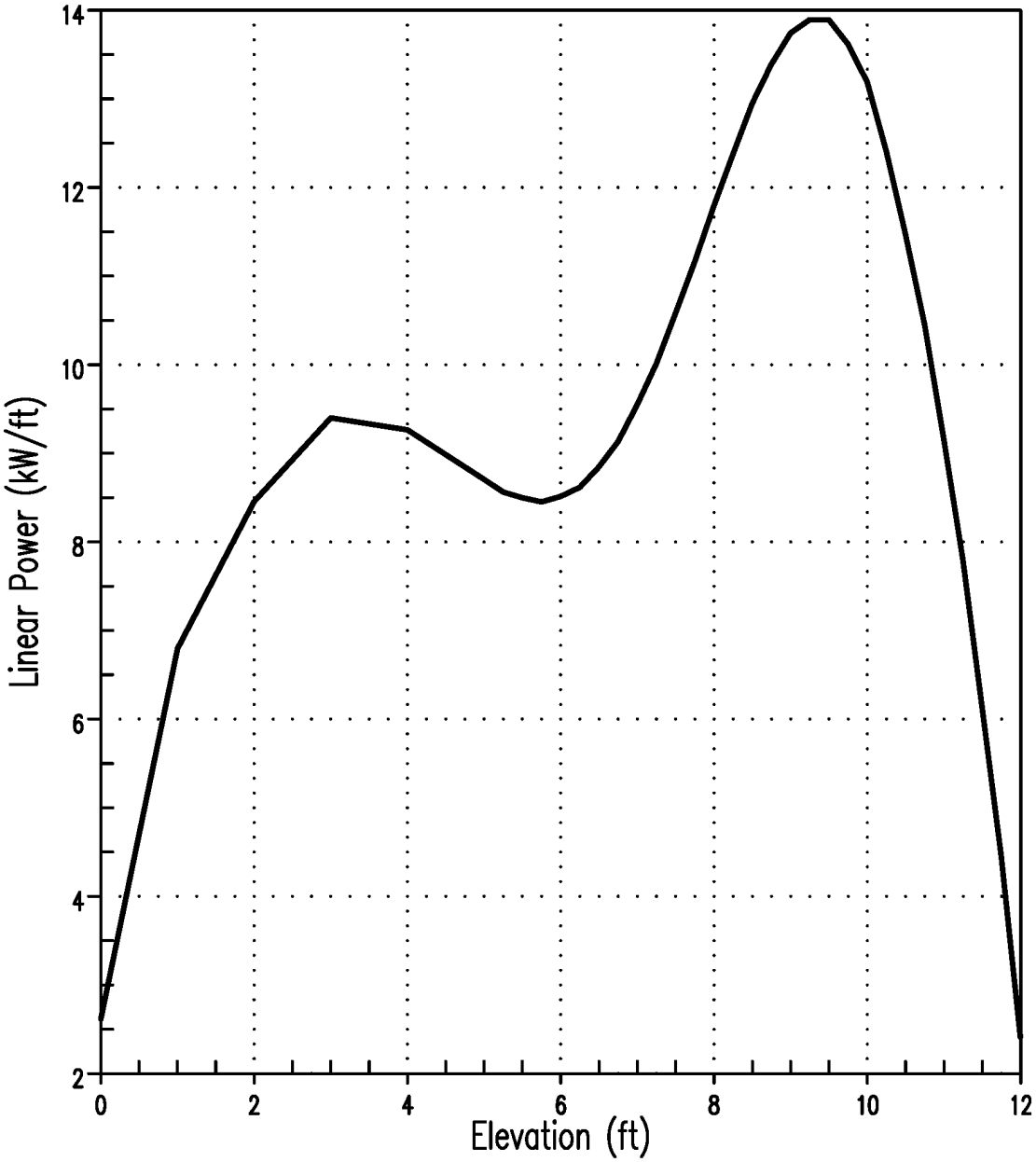
Comanche Peak Final Safety Analysis Report Units 1 and 2
Comanche Peak Unit 2 Lower Bound Containment Pressure
Figure 15.6-28



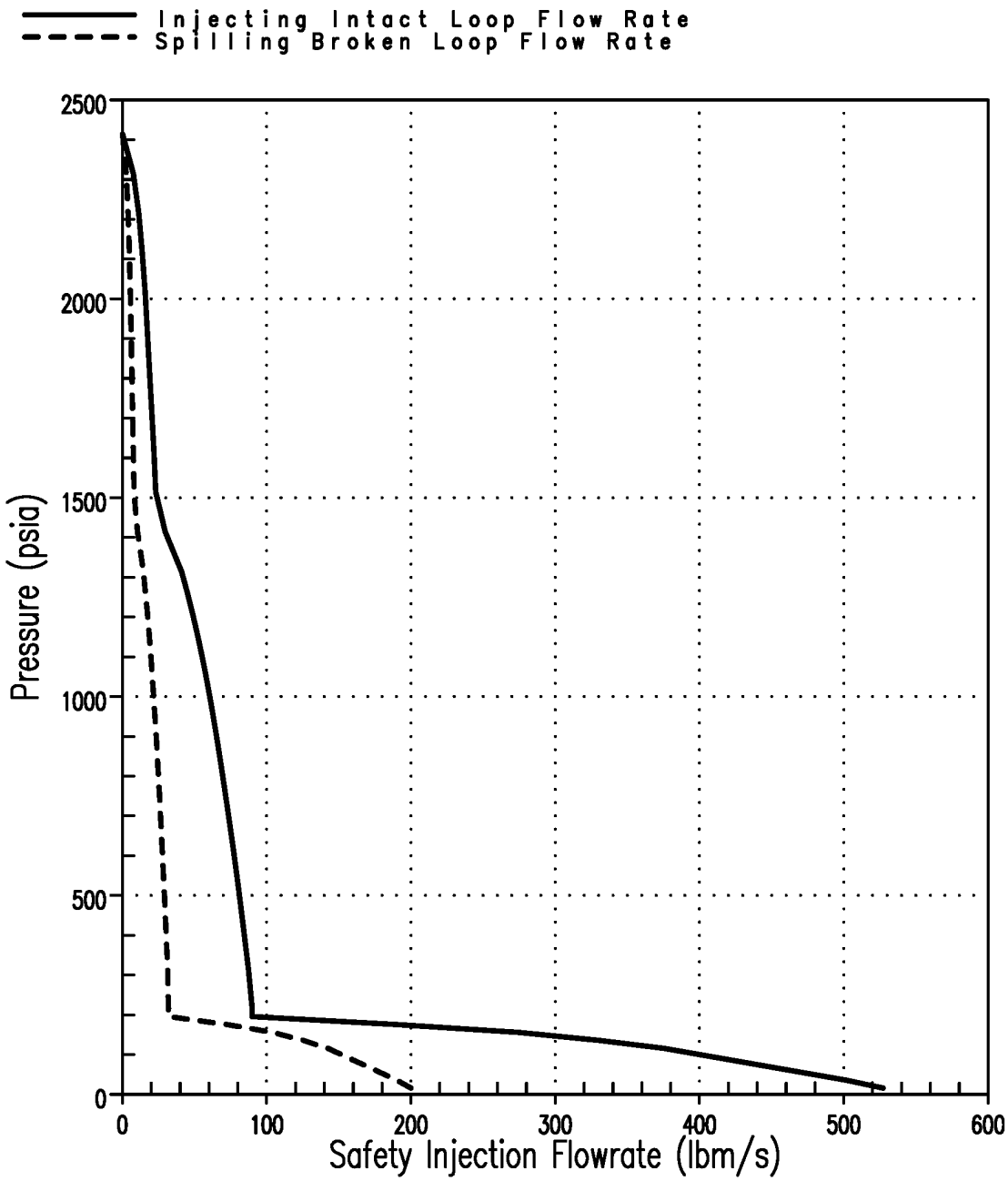
COMANCHE PEAK
FINAL SAFETY ANALYSIS REPORT

FIGURE 15.6-29

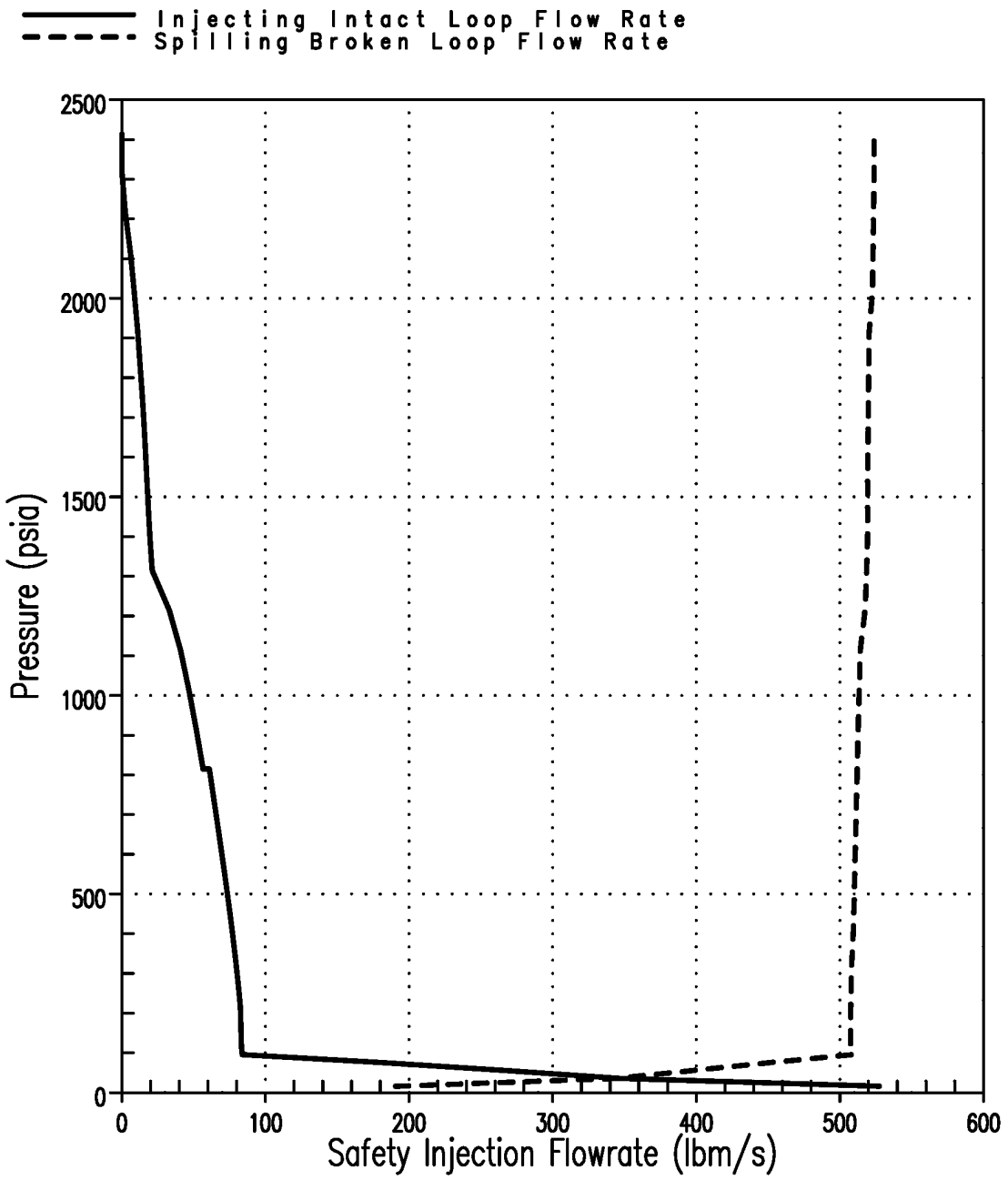
CODE INTERFACE DESCRIPTION FOR SMALL BREAK MODEL



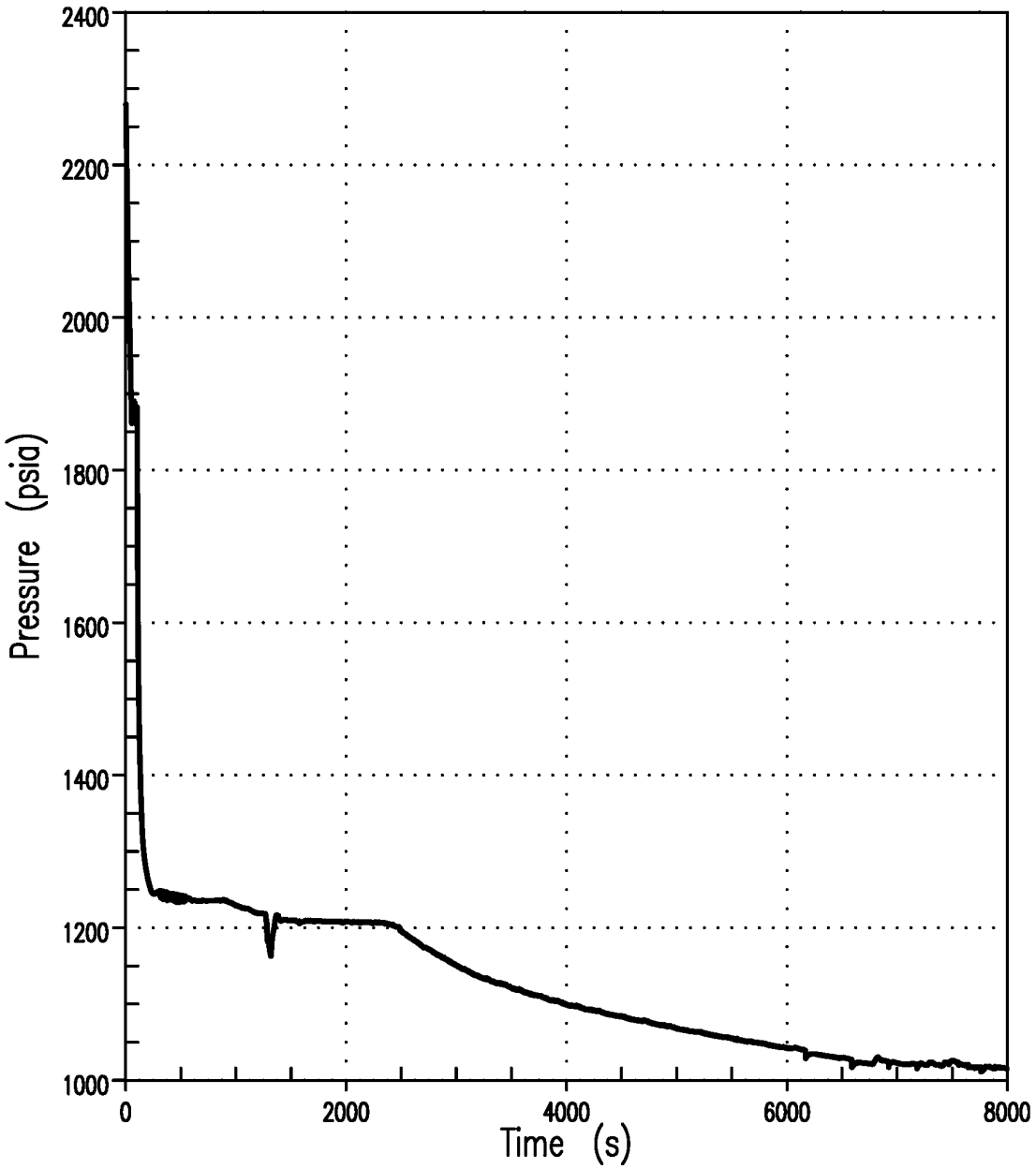
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-30
HOT ROD AXIAL POWER SHAPE UNIT 1 AND 2



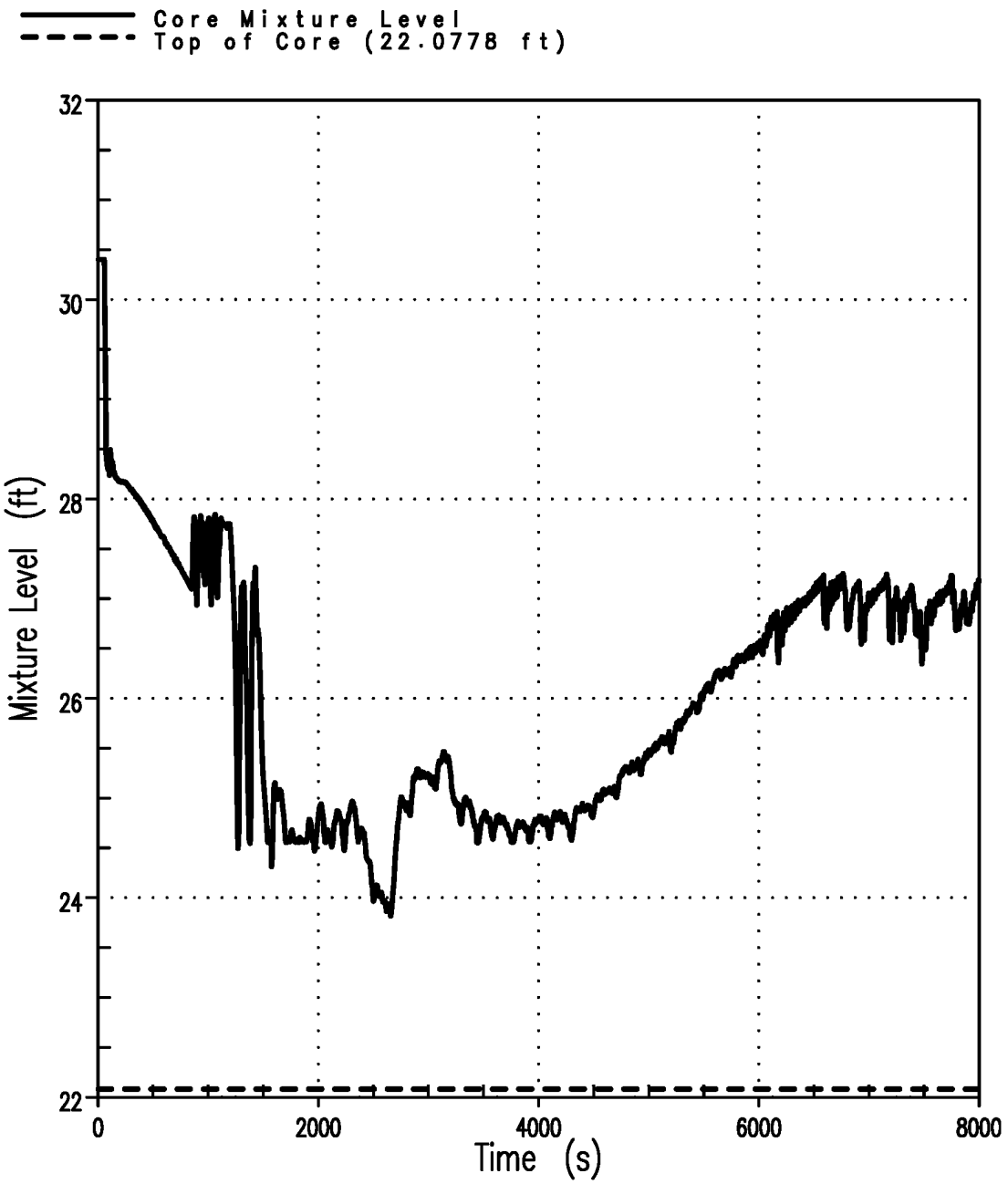
COMANCHE PEAK **FINAL SAFETY ANALYSIS REPORT**
FIGURE 15.6-31
PUMPED SAFETY INJECTION FLOW RATE, FAULTED LOOP SPILL TO RCS PRESSURE **UNITS 1 AND 2**



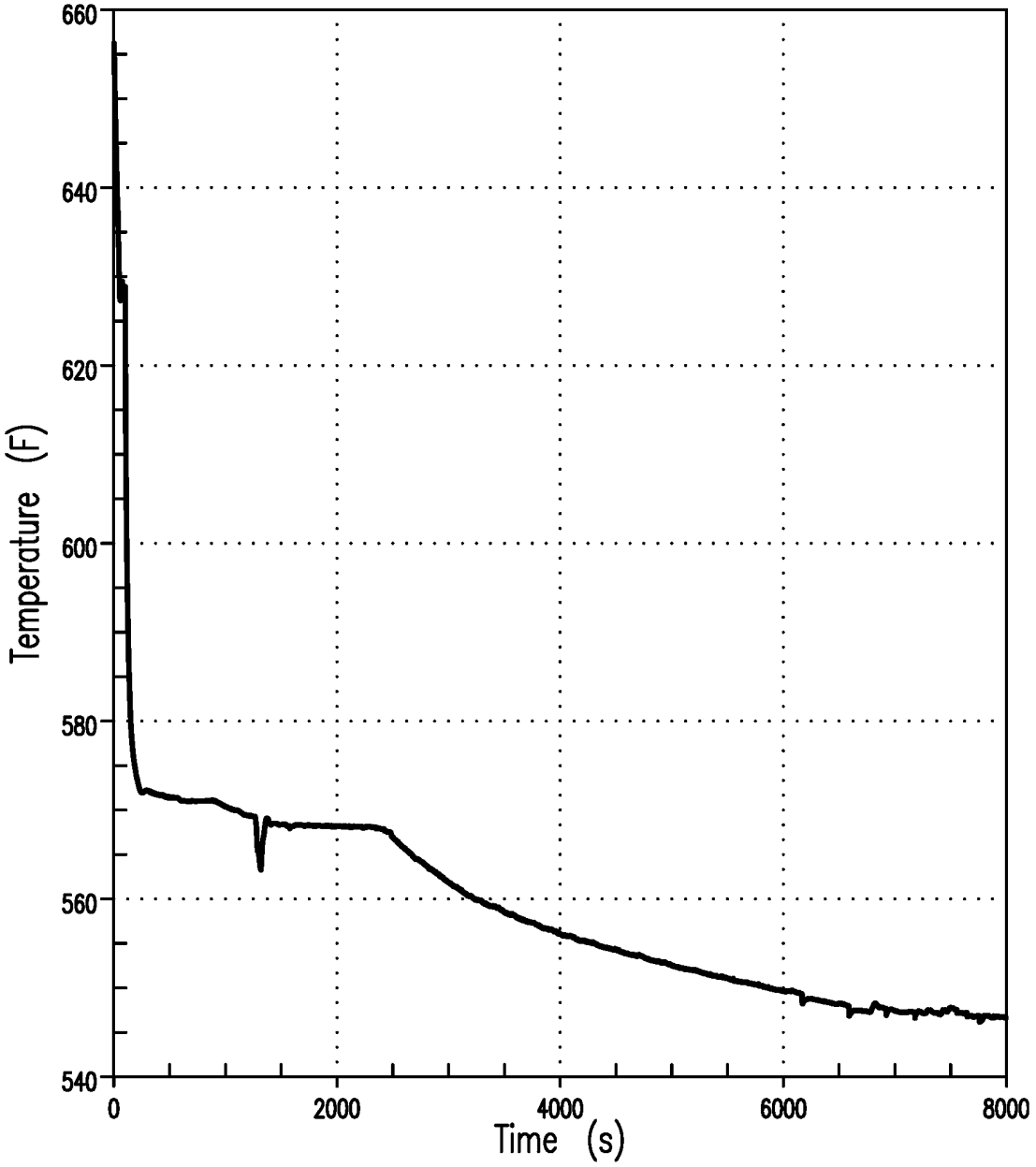
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-32
PUMPED SAFETY INJECTION FLOW RATE, FAULTED LOOP SPILL TO CONTAINMENT PRESSURE UNIT 1 AND 2



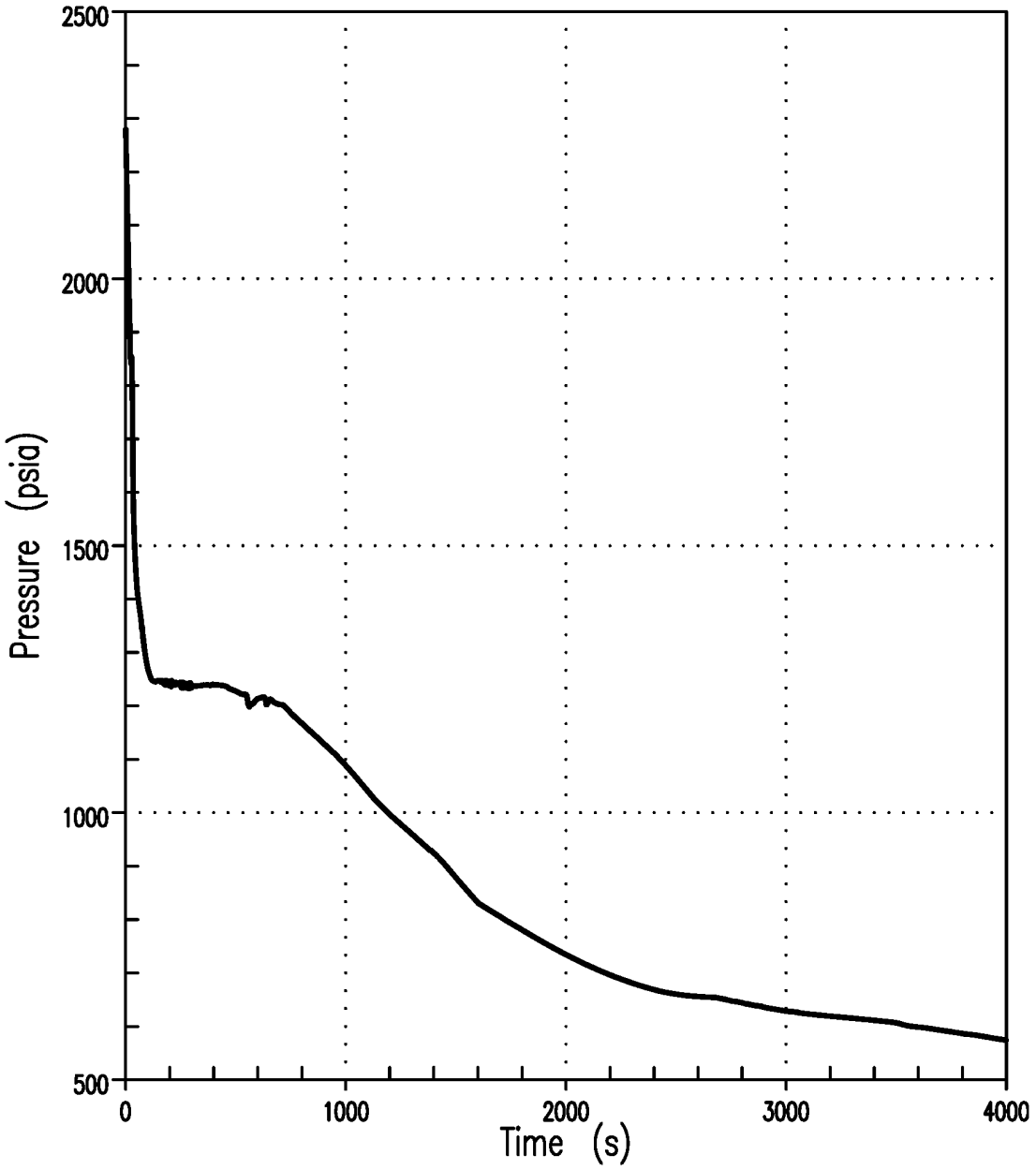
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-33
REACTOR COOLANT SYSTEM PRESSURE UNIT 1: 2-INCH BREAK



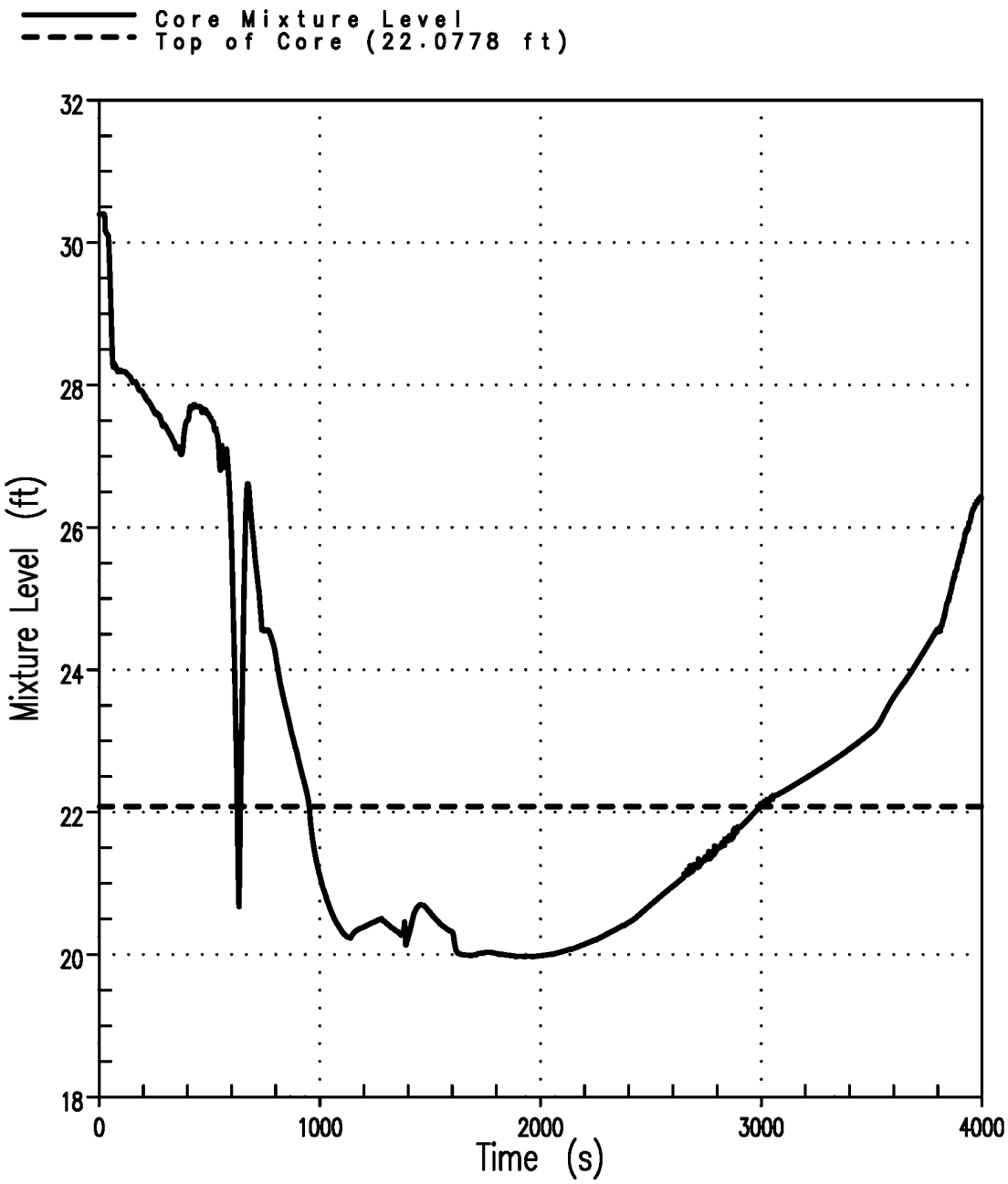
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-34
CORE MIXTURE HEIGHT AND TOP OF CORE UNIT 1: 2-INCH BREAK



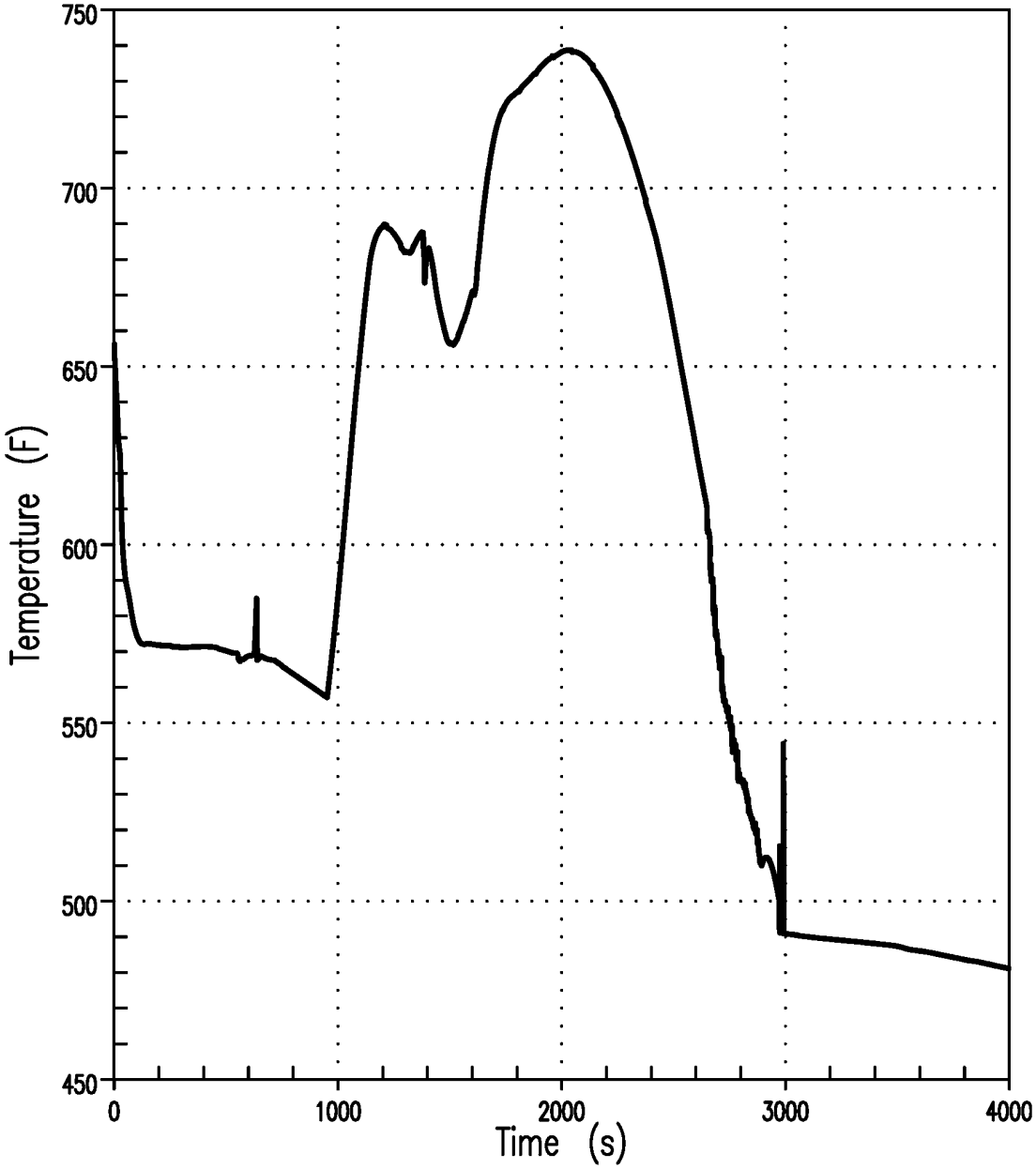
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-35
TOP CORE EXIT VAPOR TEMPERATURE UNIT 1: 2-INCH BREAK



COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-36
REACTOR COOLANT SYSTEM PRESSURE UNIT 1: 3-INCH BREAK

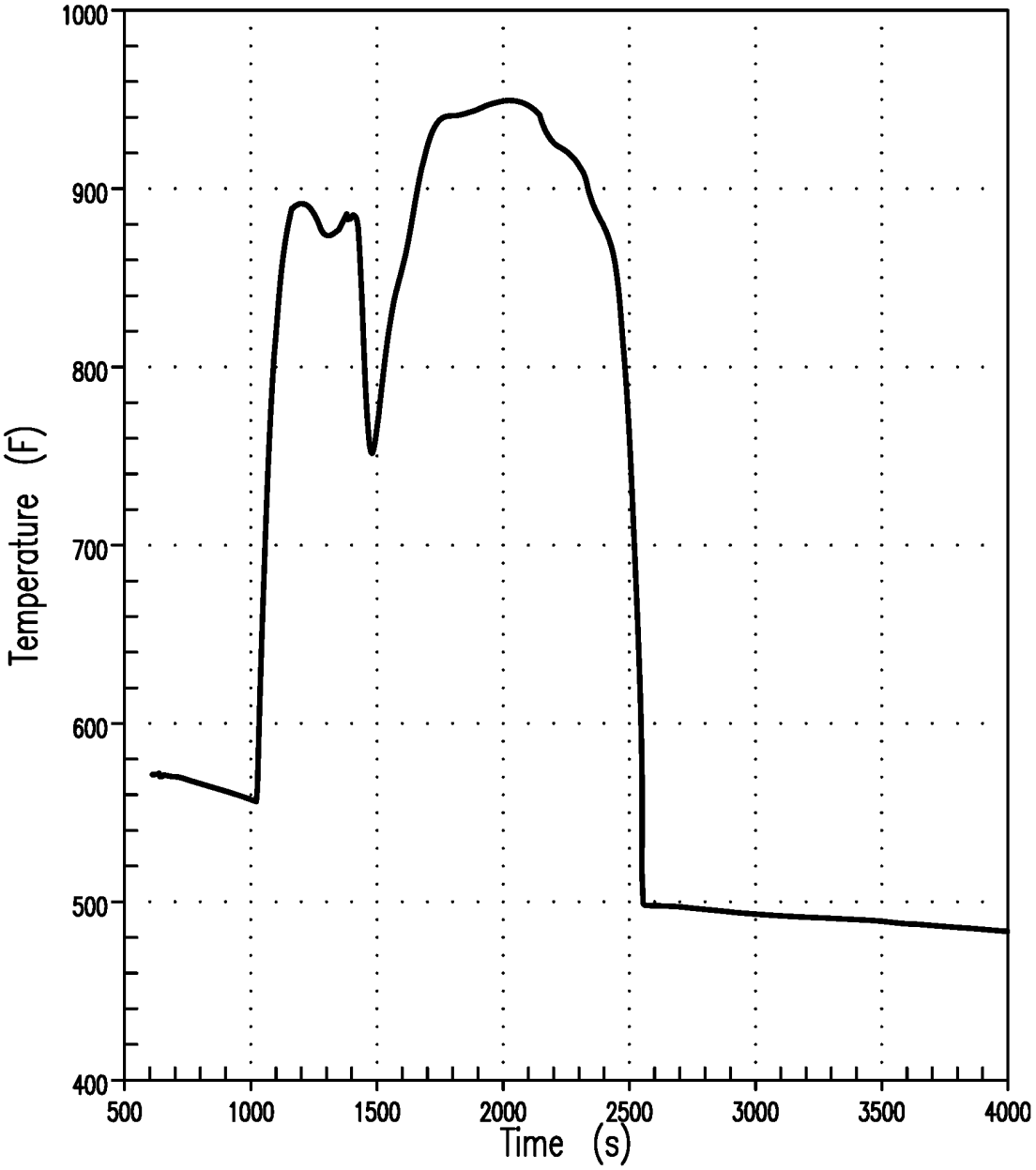


COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-37
CORE MIXTURE HEIGHT AND TOP OF CORE UNIT 1: 3-INCH BREAK

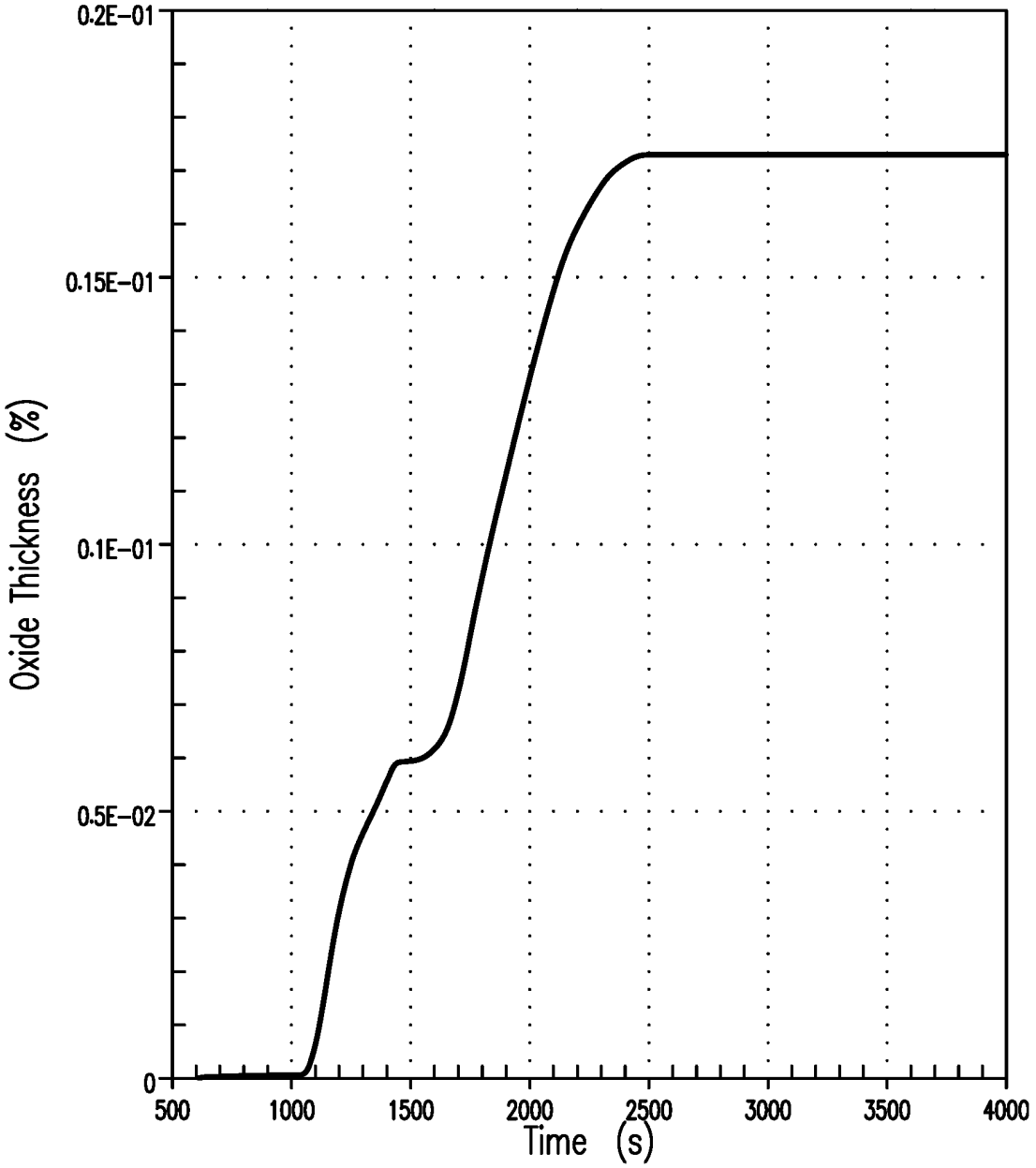


COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-38
TOP CORE EXIT VAPOR TEMPERATURE UNIT 1: 3-INCH BREAK

Amendment No. 103

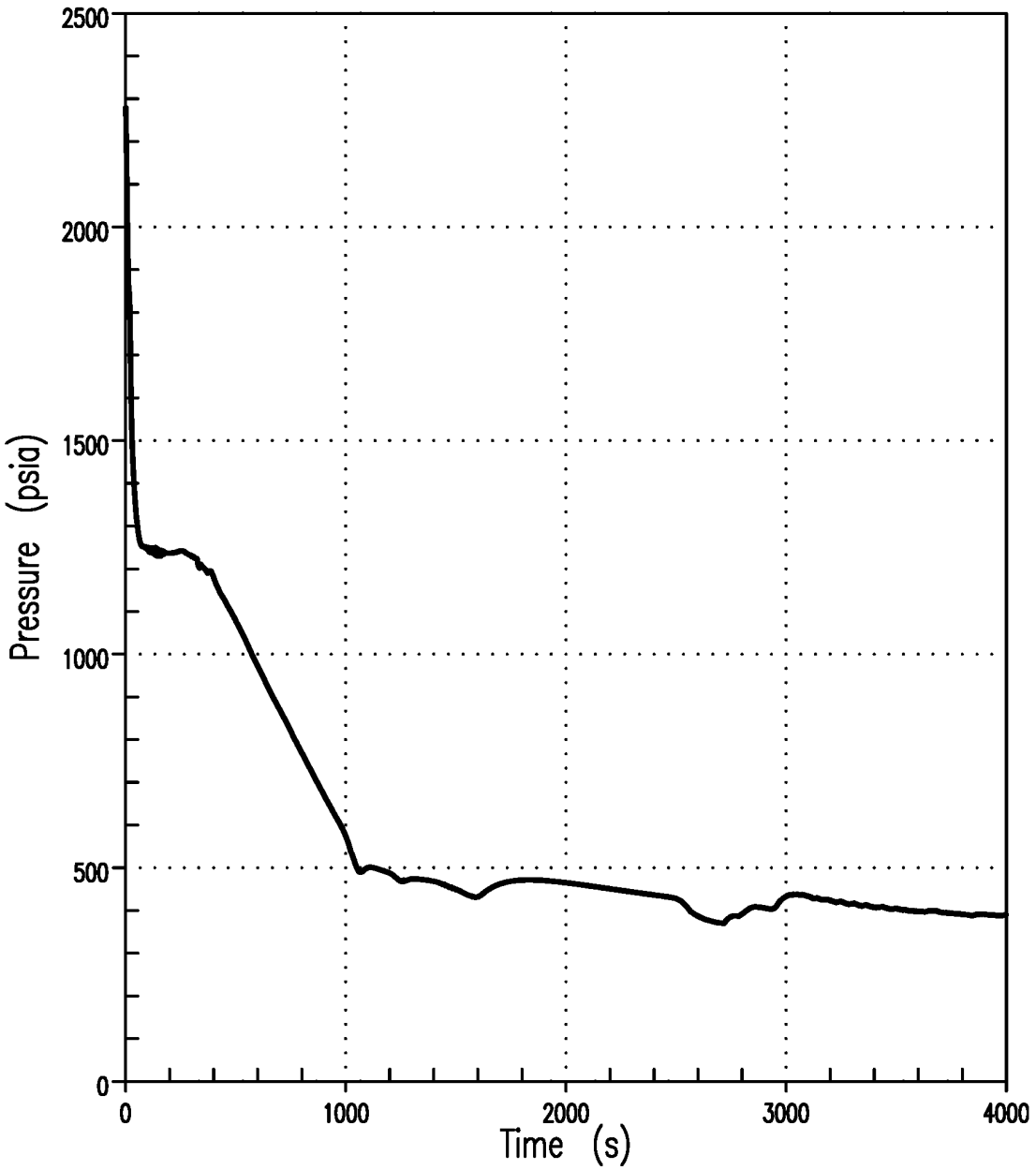


COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-39
CLAD TEMPERATURE TRANSIENT AT PEAK CLAD TEMPERATURE ELEVATION UNIT 1: 3-INCH BREAK



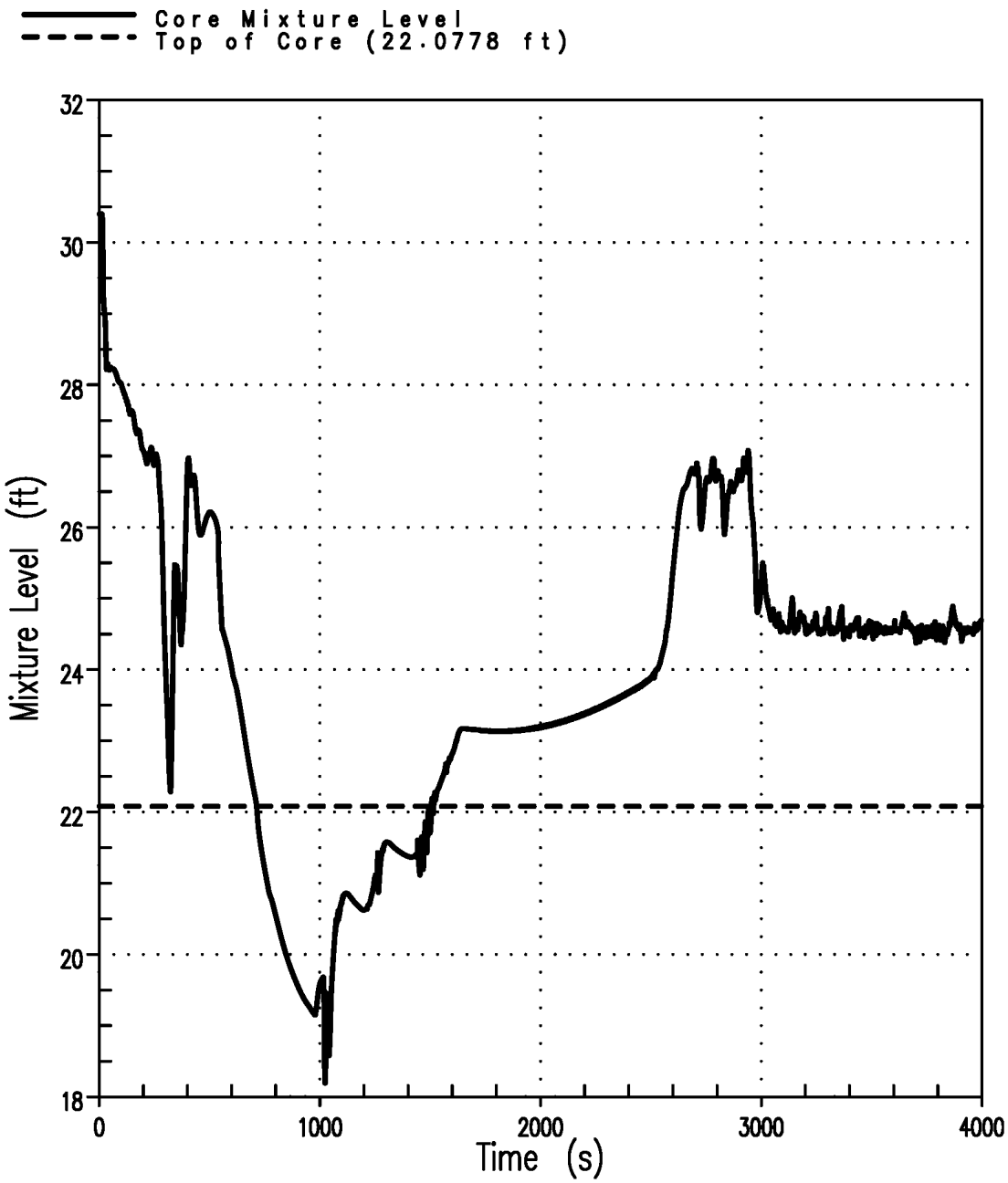
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-40
MAXIMUM LOCAL ZRO_2 THICKNESS UNIT 1: 3-INCH BREAK

Amendment No. 103

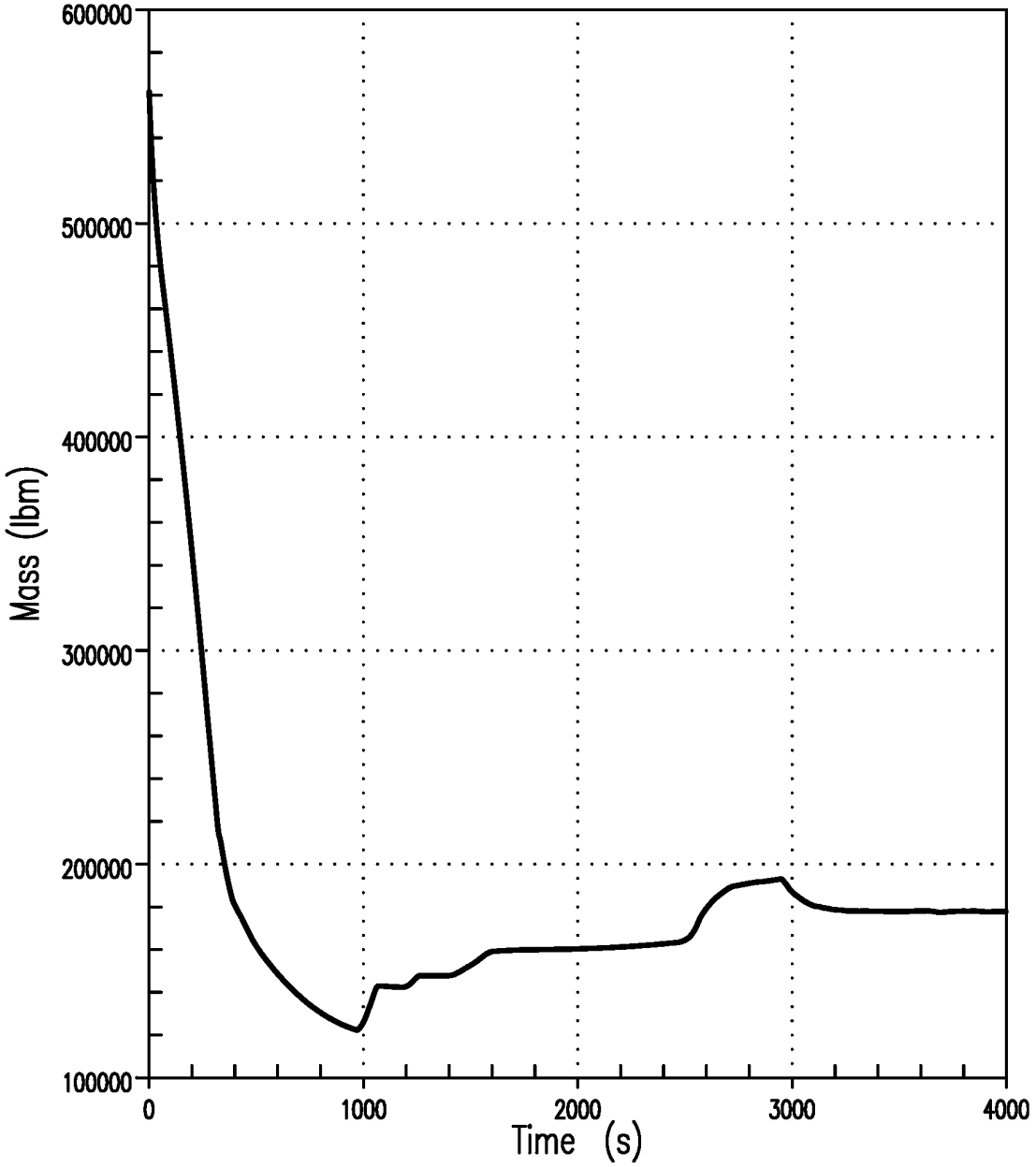


COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-41
REACTOR COOLANT SYSTEM PRESSURE UNIT 1: 4-INCH BREAK

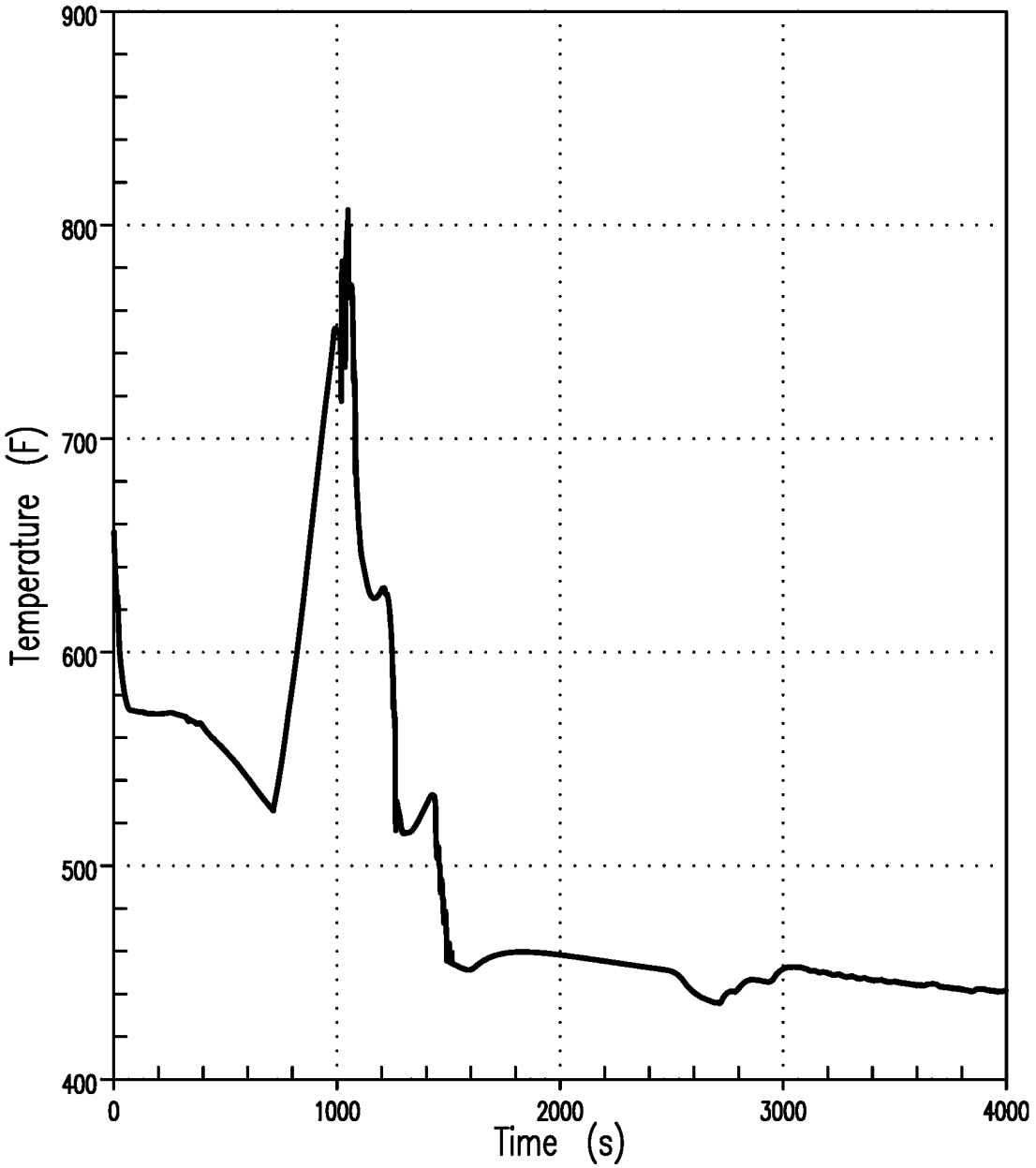
Amendment No. 103



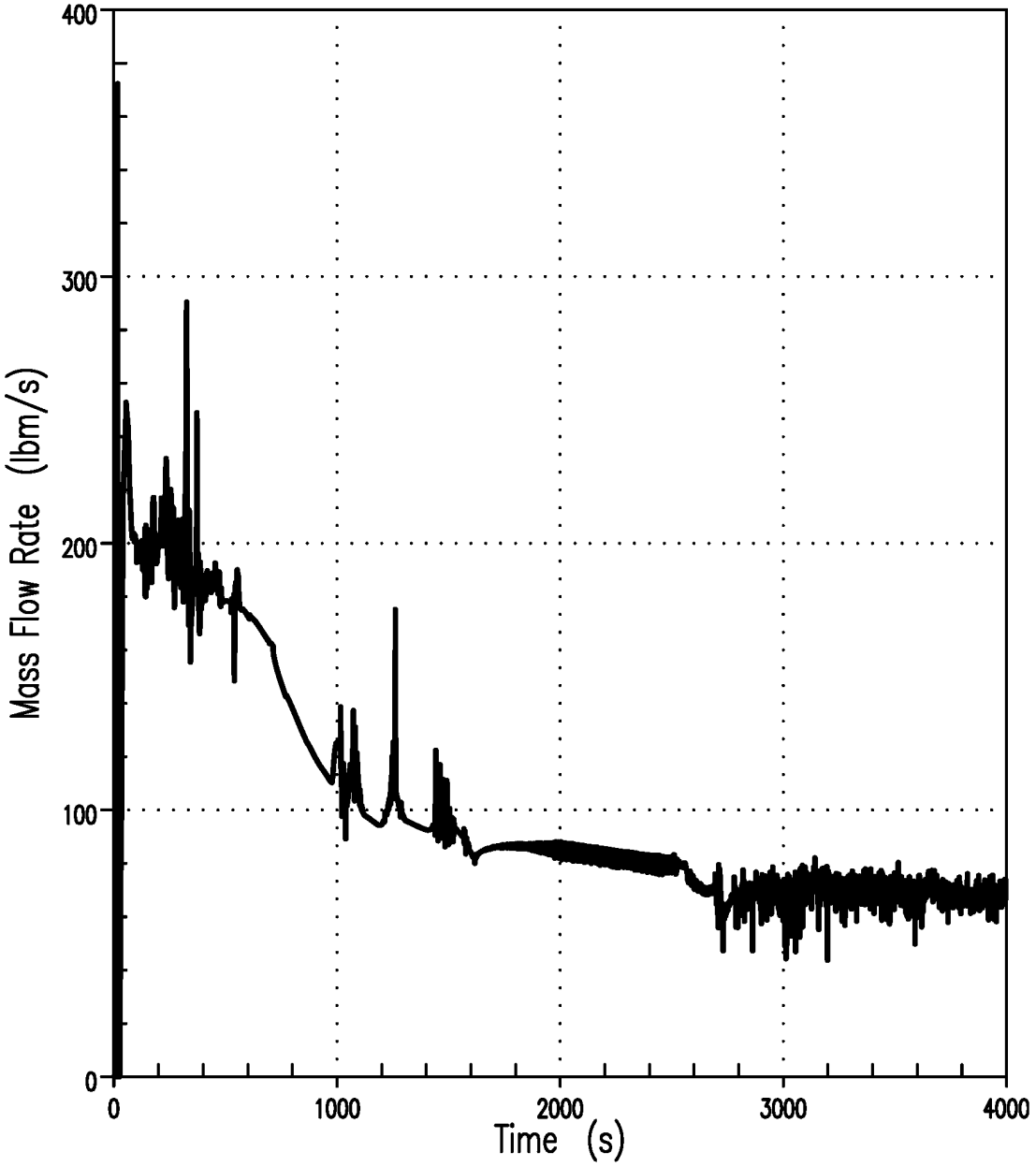
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-42
CORE MIXTURE HEIGHT AND TOP OF CORE UNIT 1: 4-INCH BREAK



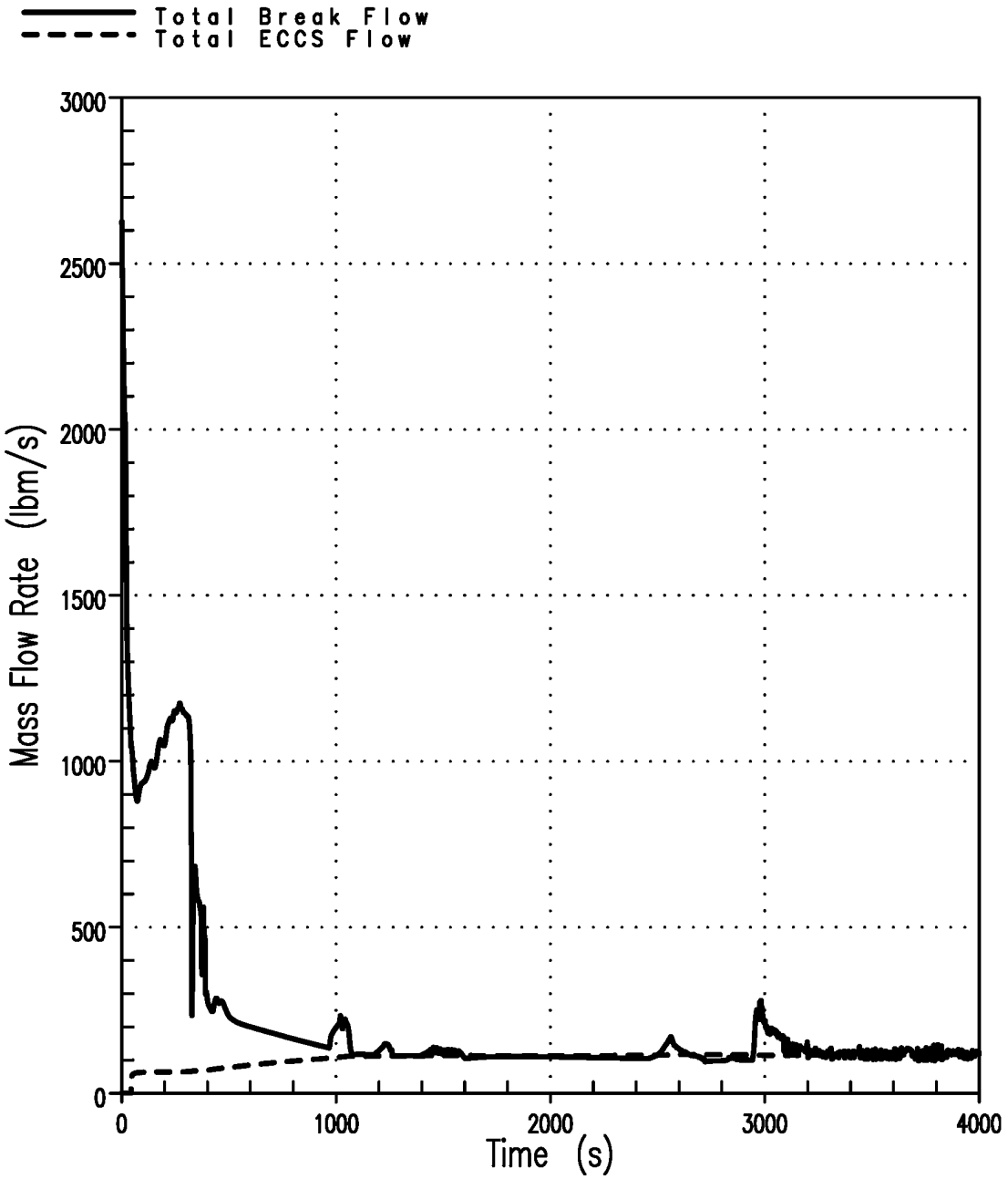
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-43
TOTAL REACTOR COOLANT SYSTEM MASS UNIT 1: 4-INCH BREAK



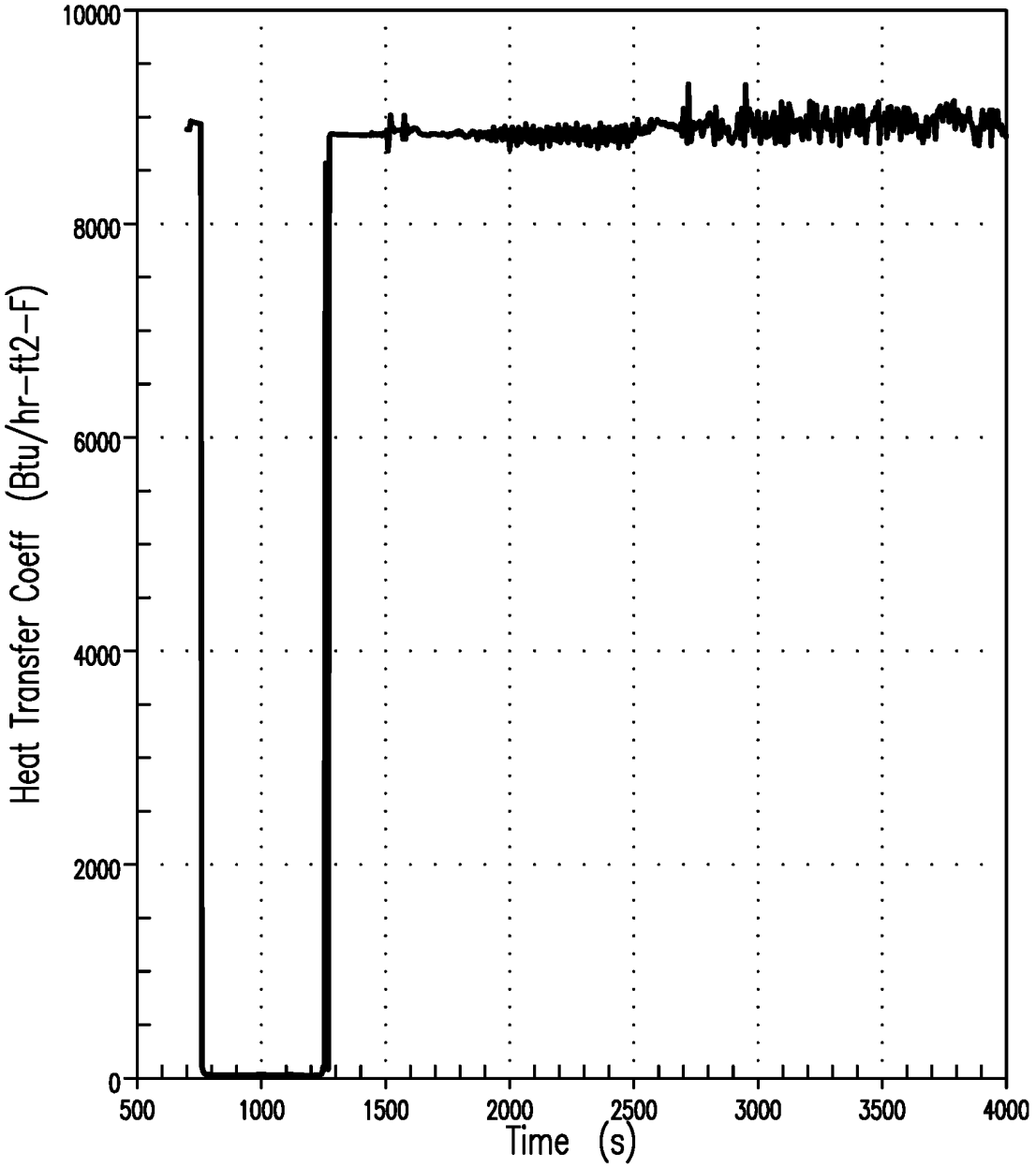
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-44
TOP CORE EXIT VAPOR TEMPERATURE UNIT 1: 4-INCH BREAK



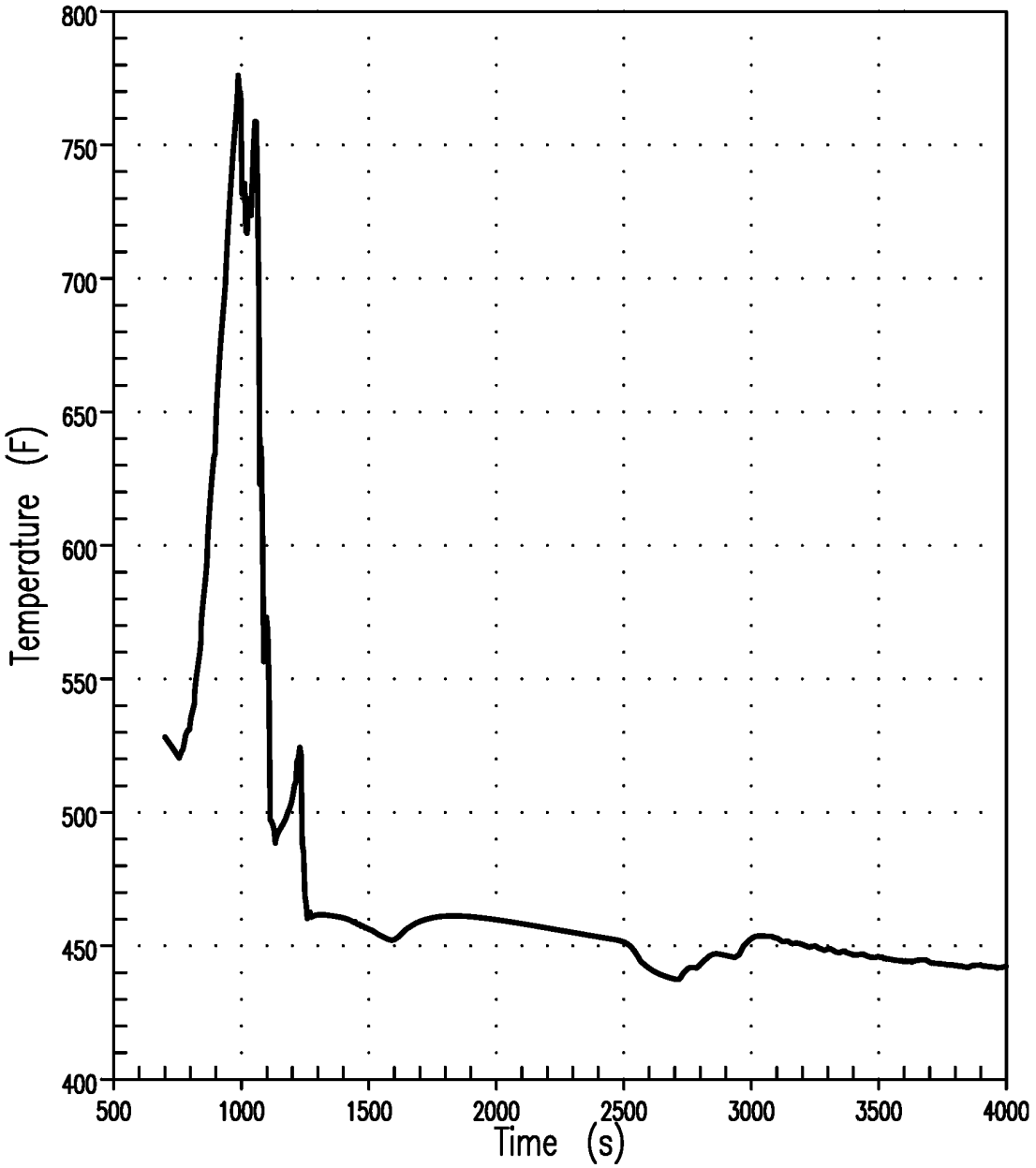
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-45
TOP CORE STEAM MASS FLOW RATE UNIT 1: 4-INCH BREAK



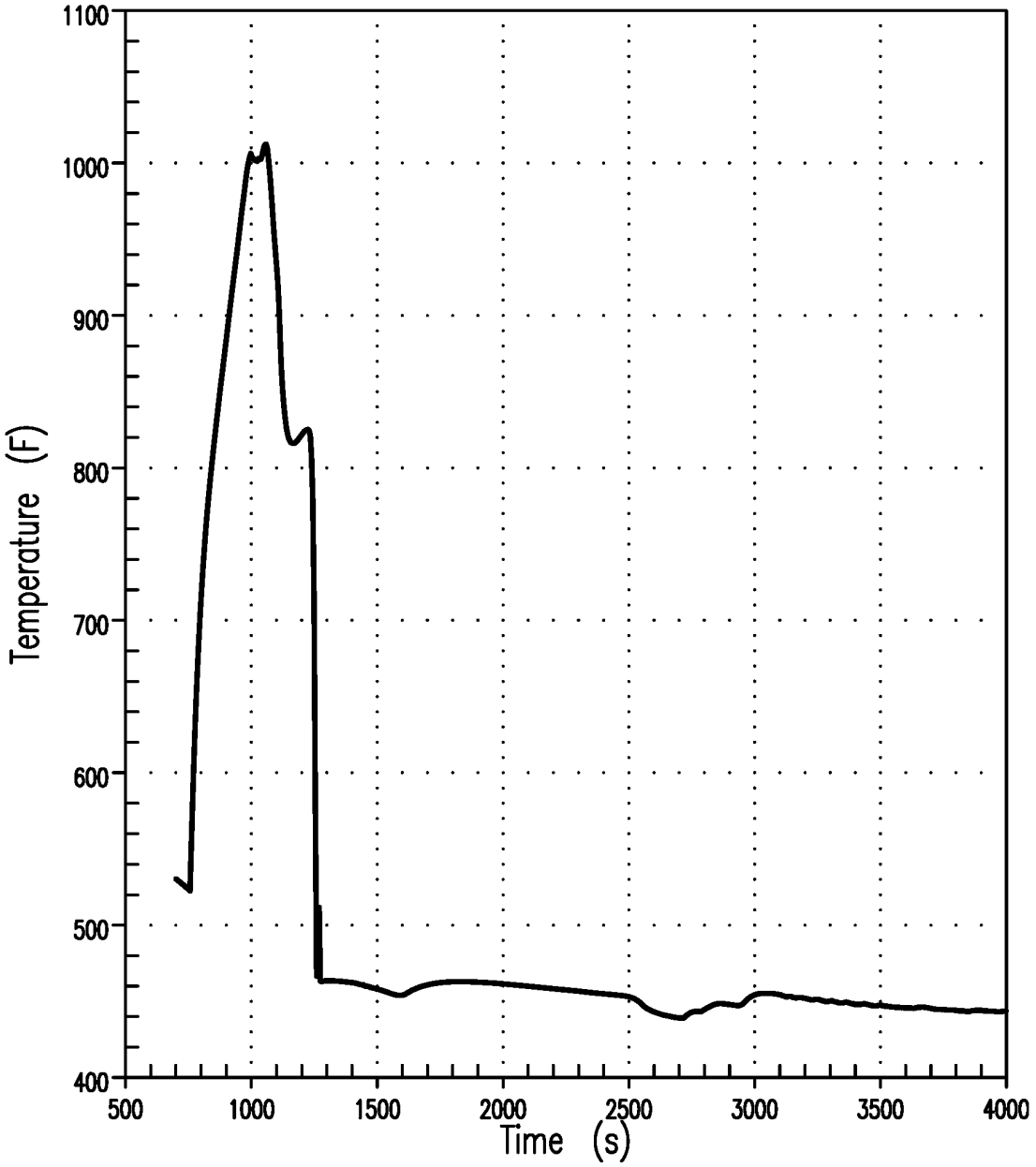
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-46
TOTAL BREAK FLOW AND TOTAL SAFETY INJECTION FLOW UNIT 1: 4-INCH BREAK



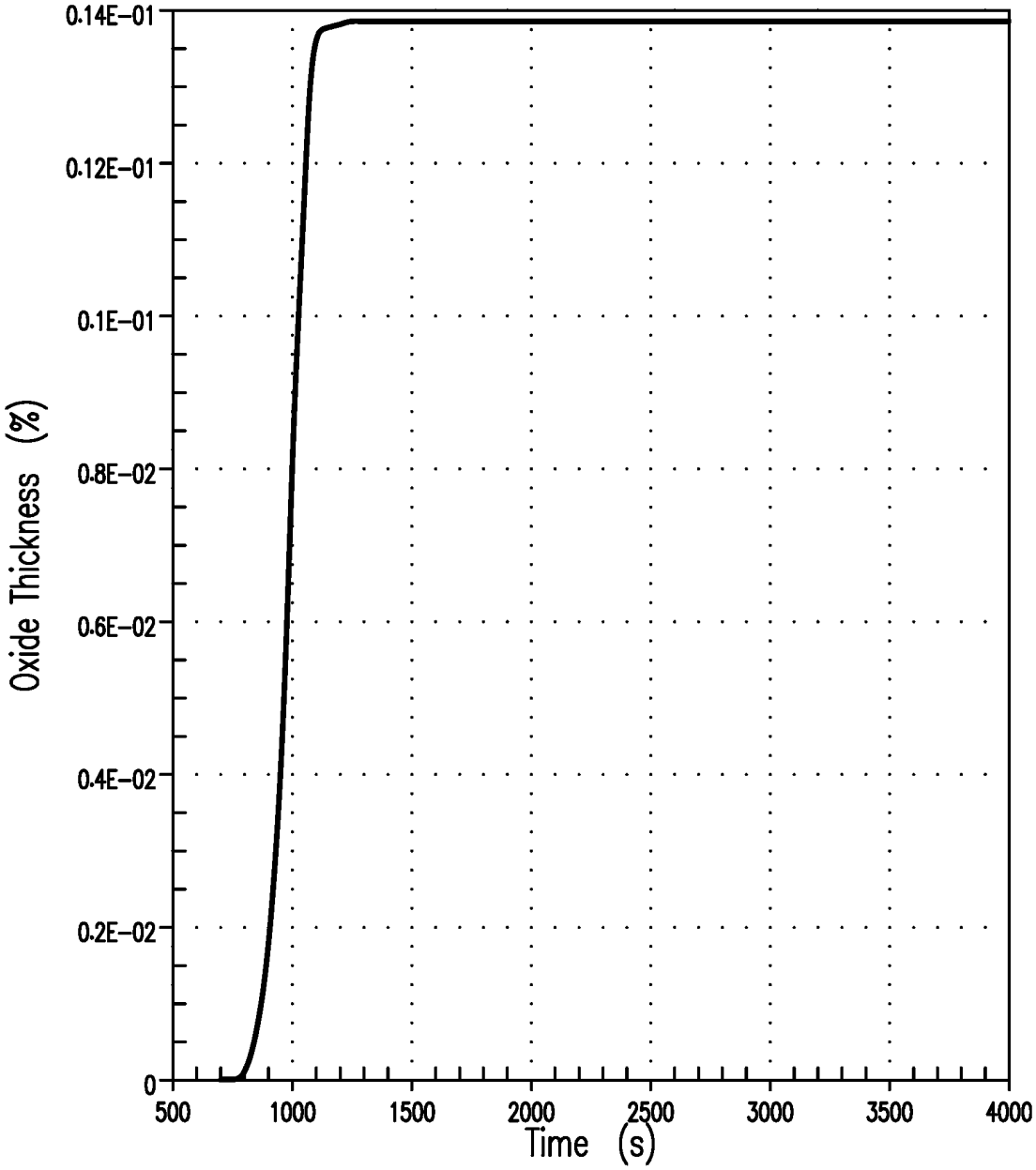
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-47
CLAD SURFACE HEAT TRANSFER COEFFICIENT AT PEAK CLAD TEMPERATURE ELEVATION UNIT 1: 4-INCH BREAK



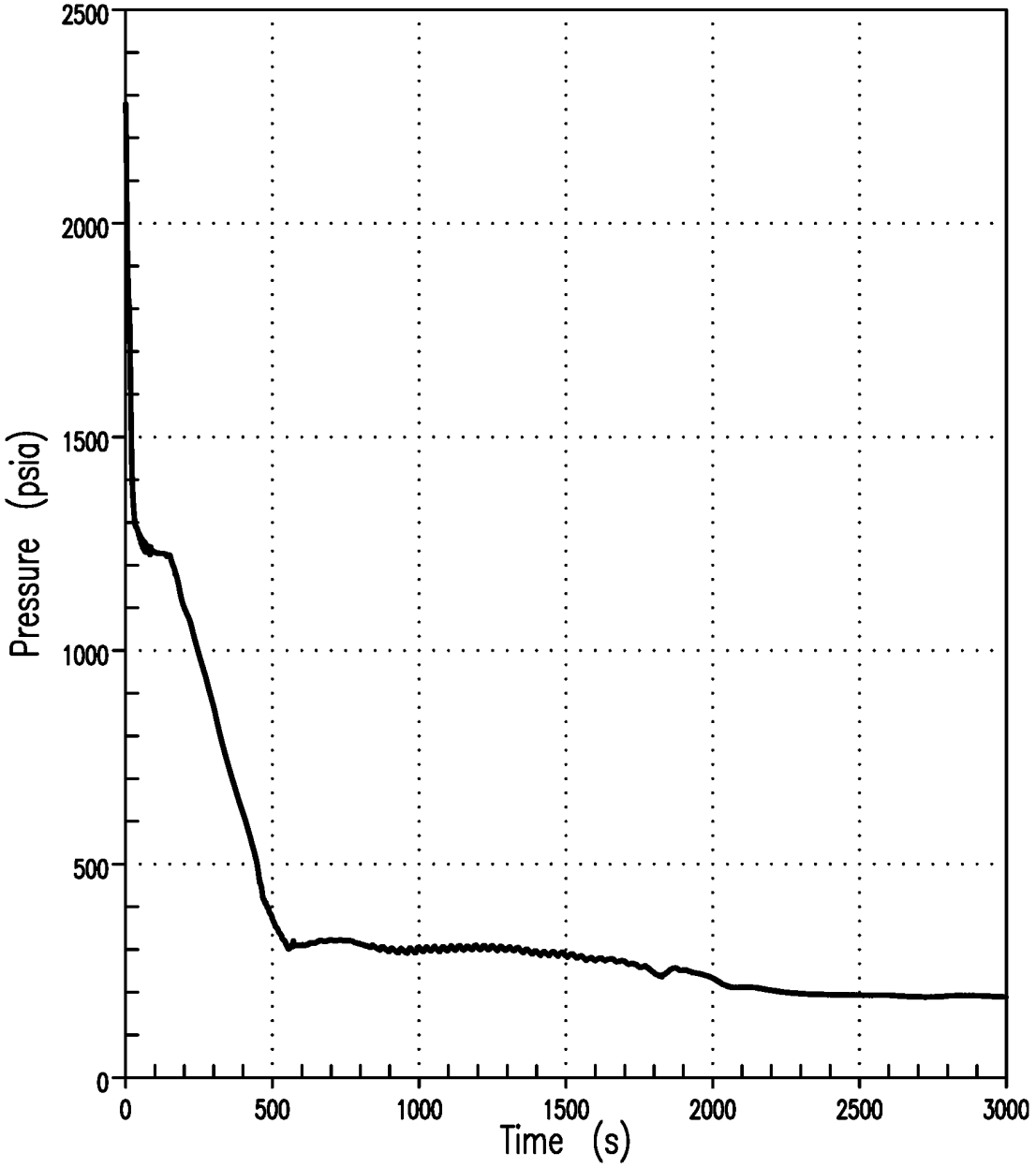
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-48
FLUID TEMPERATURE AT PEAK CLAD TEMPERATURE ELEVATION UNIT 1: 4-INCH BREAK



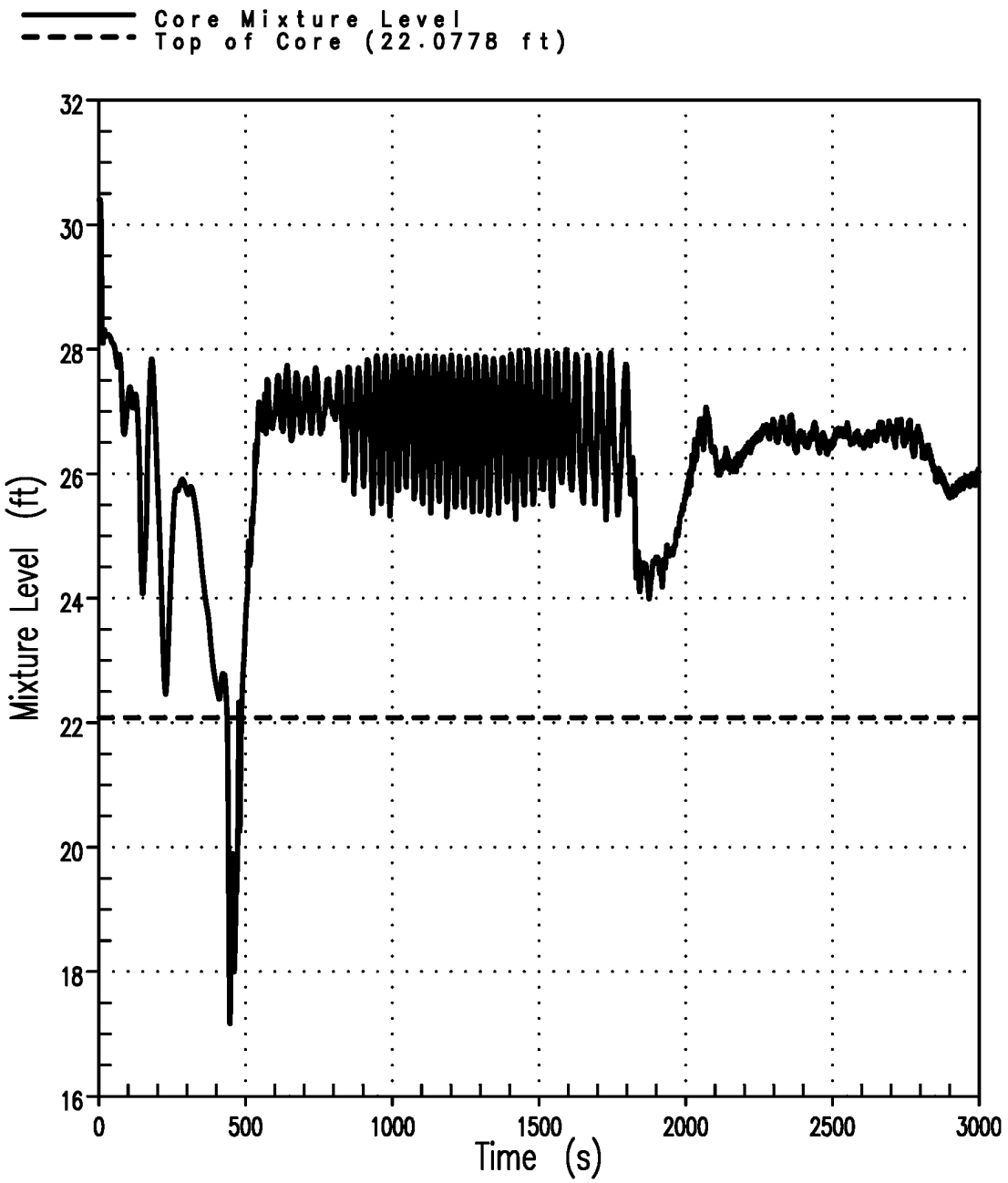
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-49
CLAD TEMPERATURE TRANSIENT AT PEAK TEMPERATURE ELEVATION UNIT 1: 4-INCH BREAK



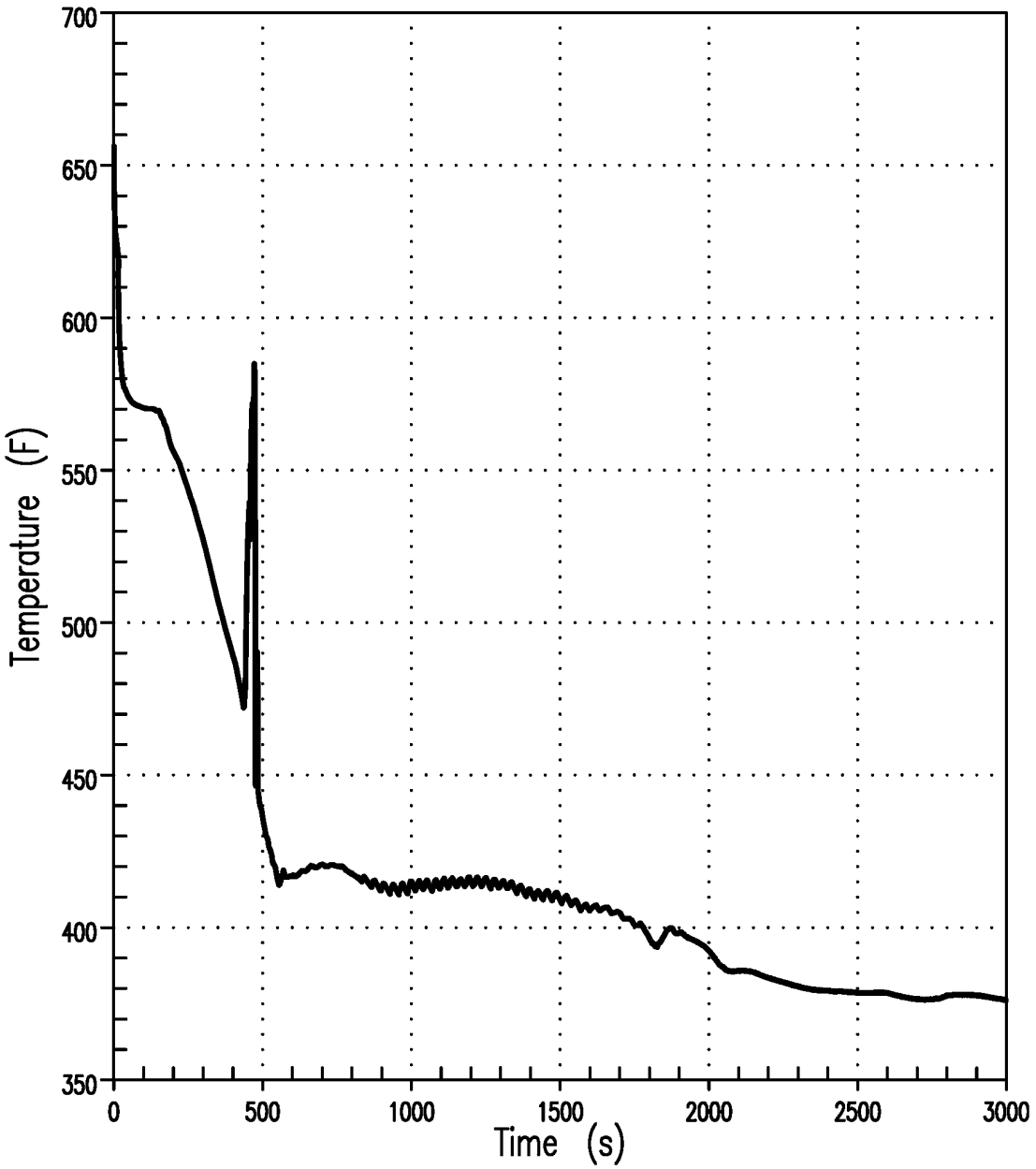
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-50
MAXIMUM LOCAL ZRO_2 THICKNESS UNIT 1: 4-INCH BREAK



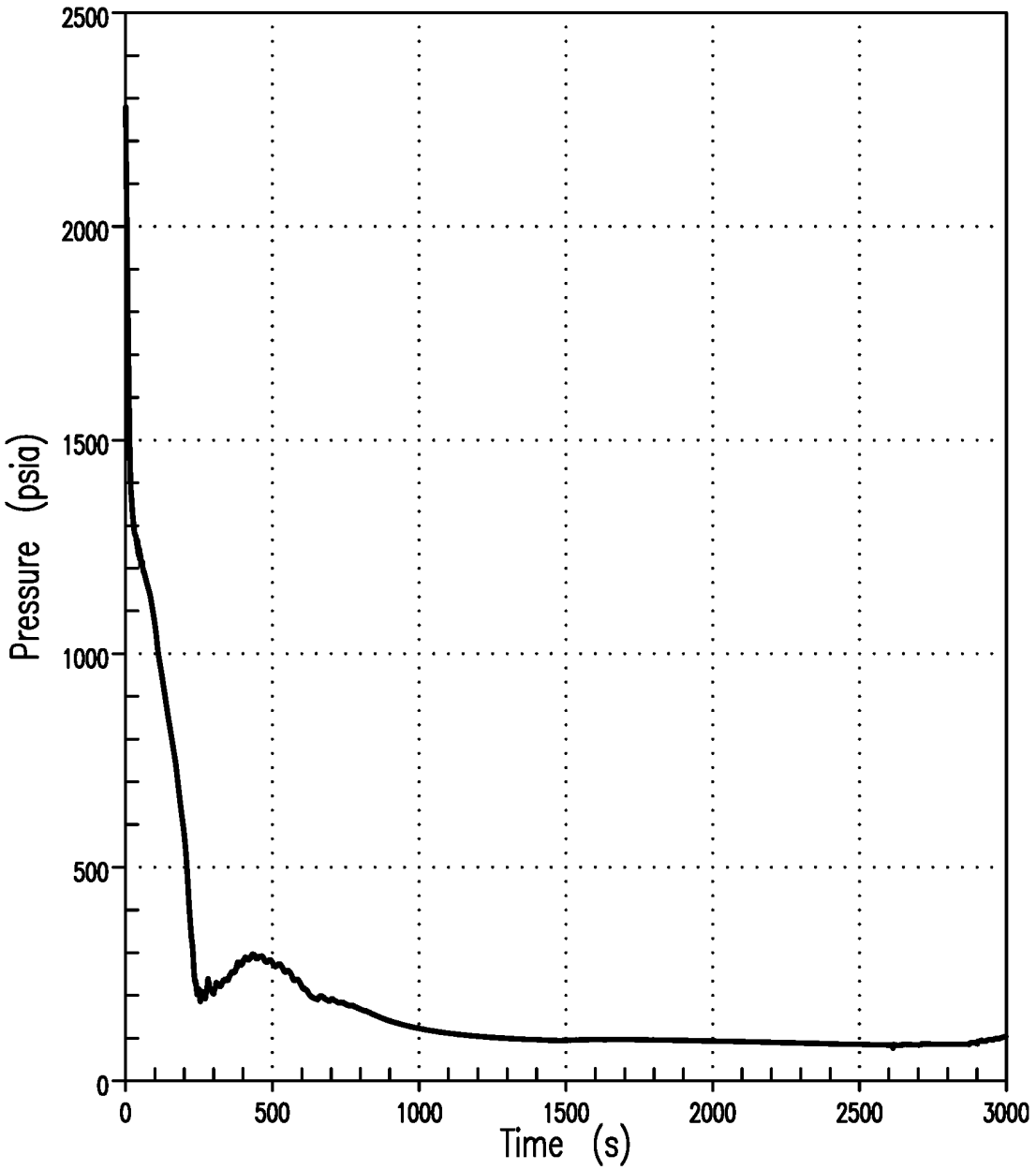
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-51
REACTOR COOLANT SYSTEM PRESSURE UNIT 1: 6-INCH BREAK



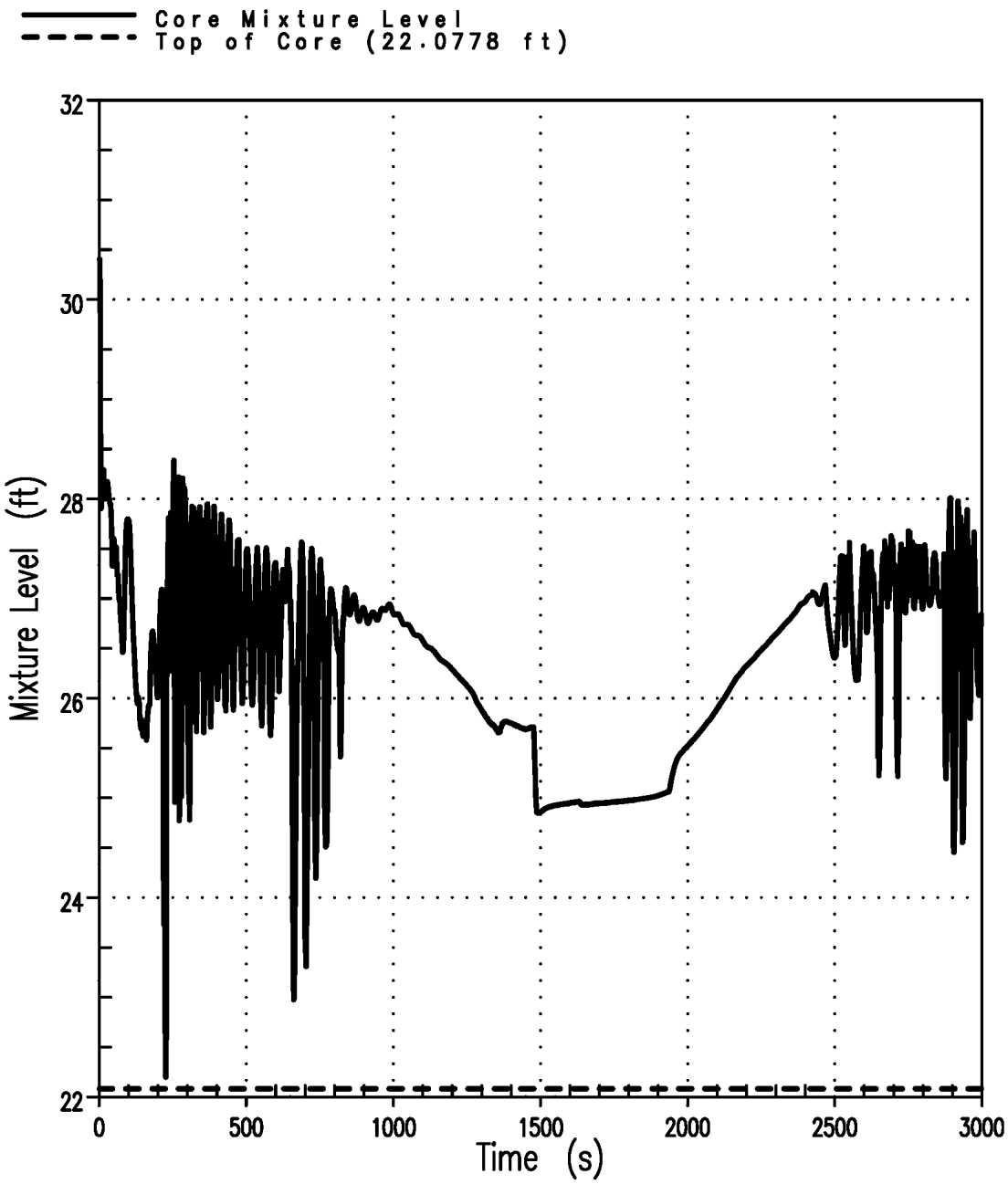
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-52
CORE MIXTURE HEIGHT AND TOP OF CORE UNIT 1: 6-INCH BREAK



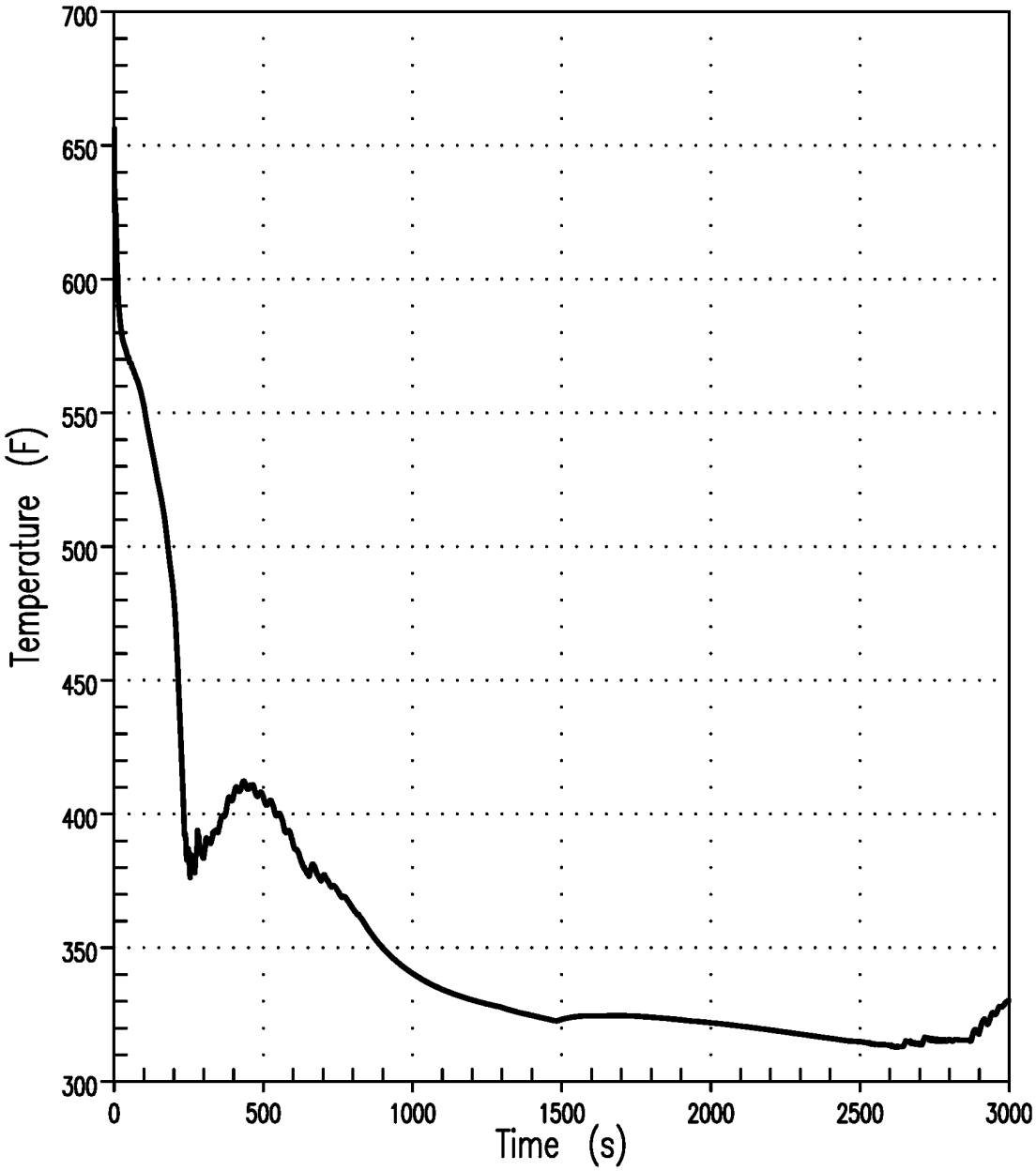
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-53
TOP CORE EXIT VAPOR TEMPERATURE UNIT 1: 6-INCH BREAK



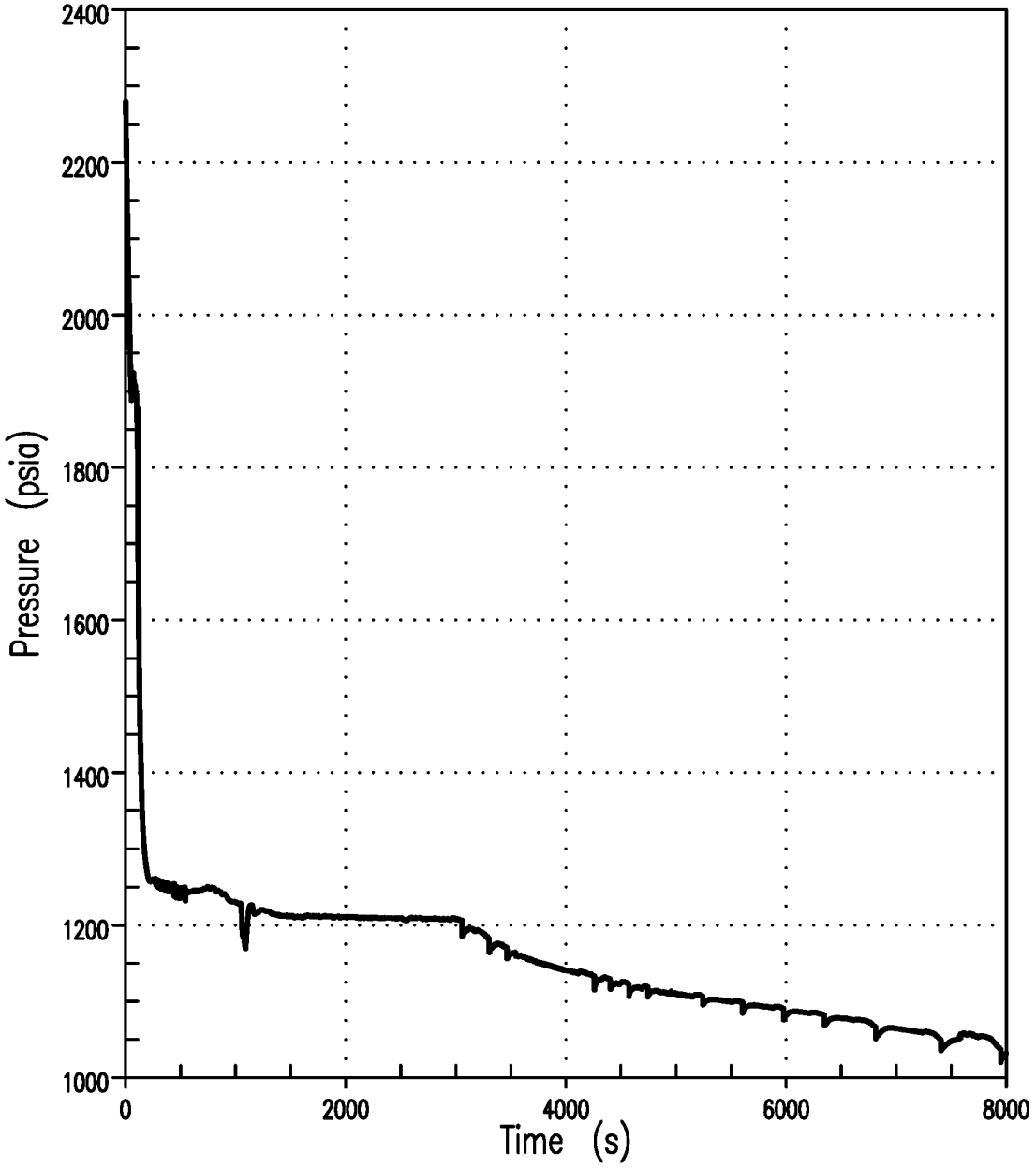
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-54
REACTOR COOLANT SYSTEM PRESSURE UNIT 1: 8.75-INCH BREAK



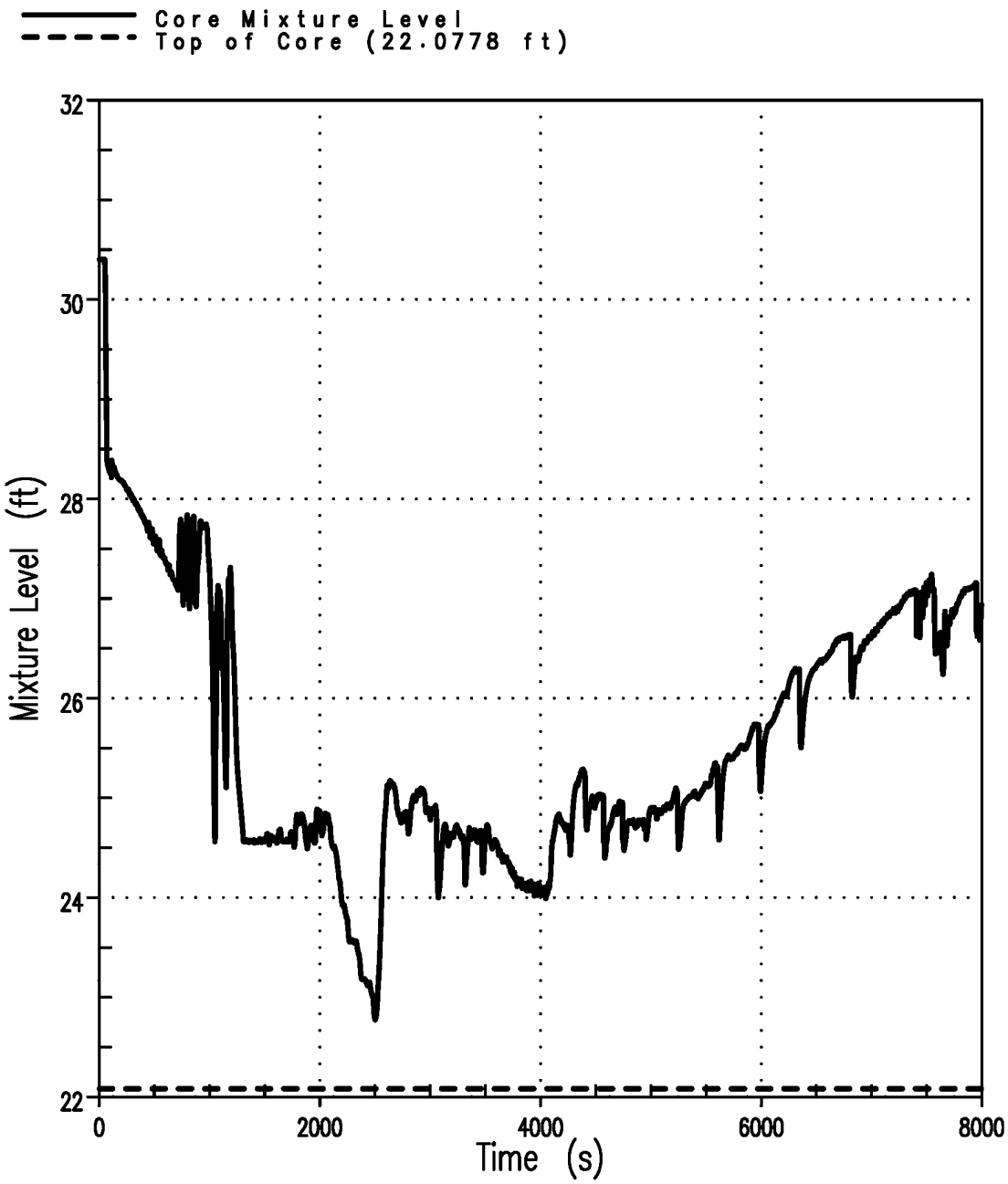
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-55
CORE MIXTURE HEIGHT AND TOP OF CORE UNIT 1: 8.75-INCH BREAK



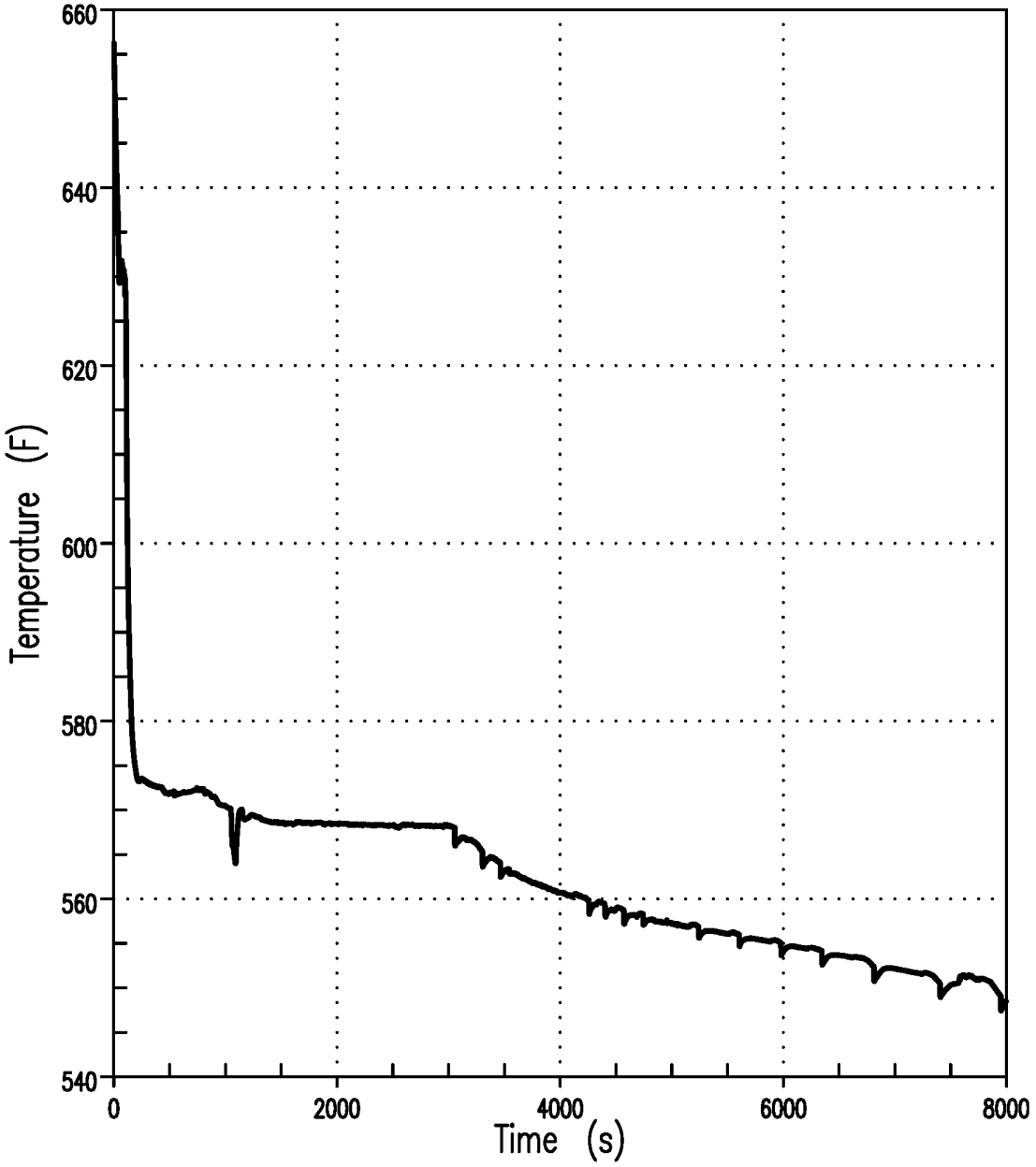
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-56
TOP CORE EXIT VAPOR TEMPERATURE UNIT 1: 8.75-INCH BREAK



COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-57
REACTOR COOLANT SYSTEM PRESSURE UNIT 2: 2-INCH BREAK

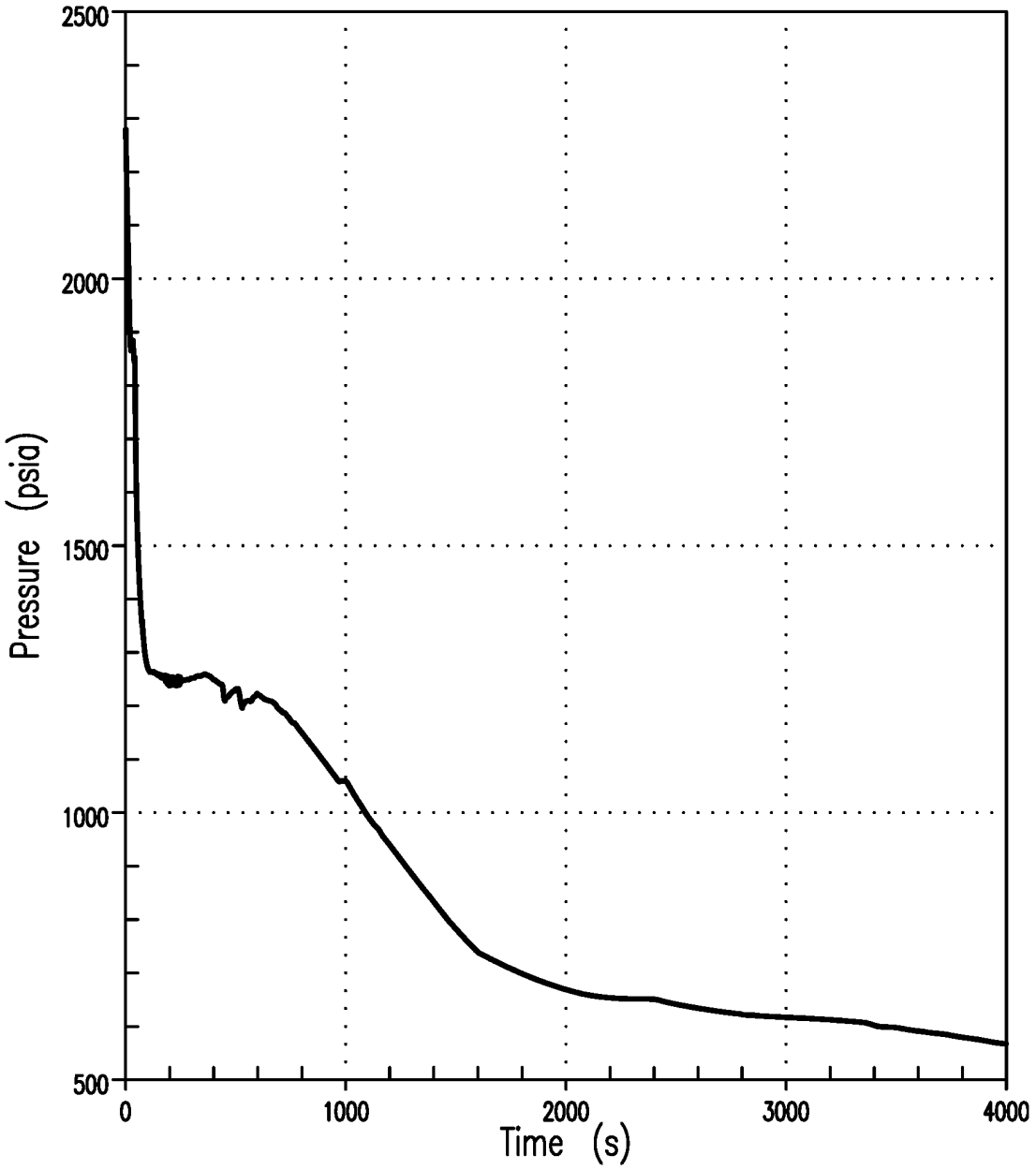


COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-58
CORE MIXTURE HEIGHT AND TOP OF CORE UNIT 2: 2-INCH BREAK



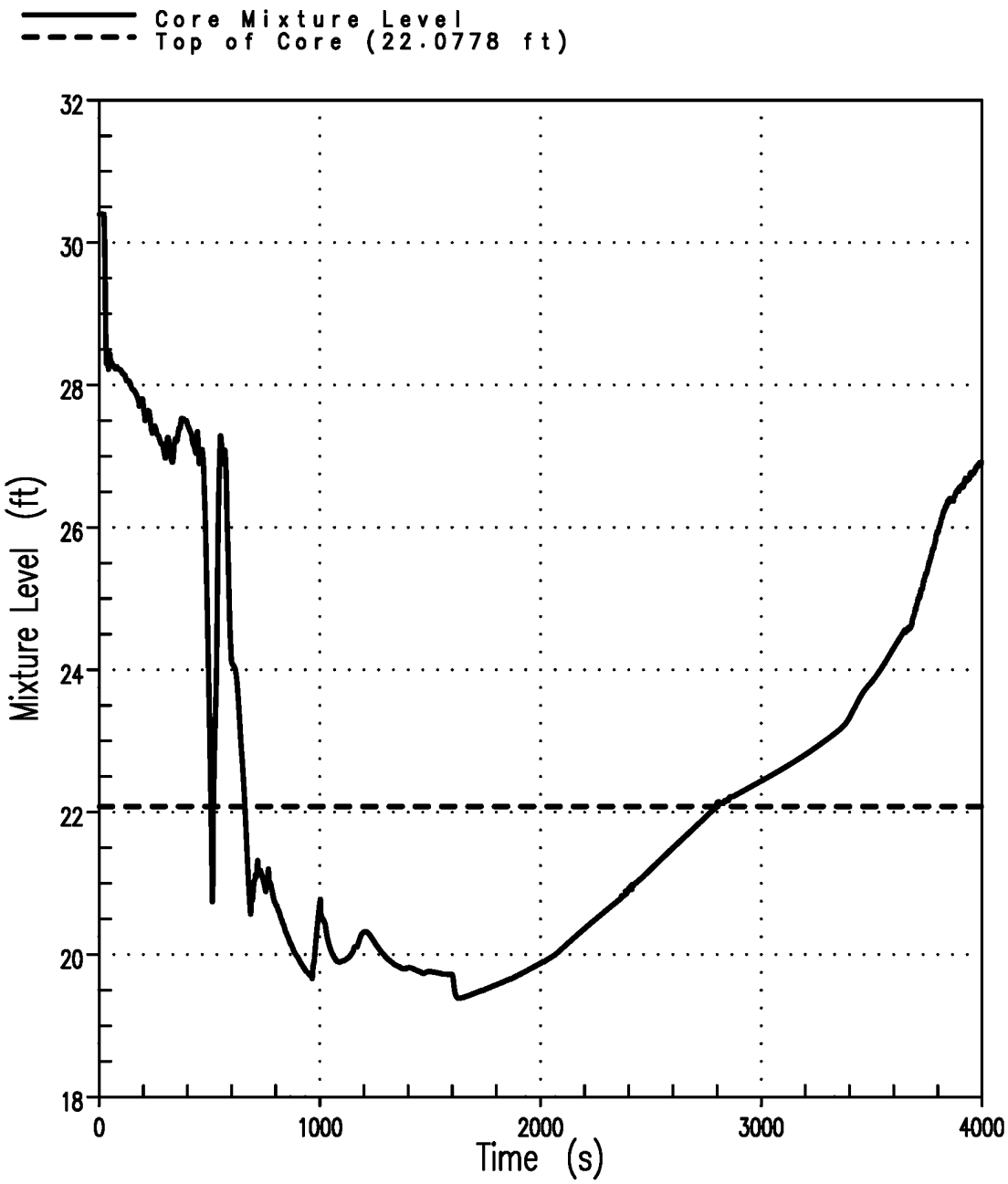
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-59
TOP CORE EXIT VAPOR TEMPERATURE UNIT 2: 2-INCH BREAK

Amendment No. 103

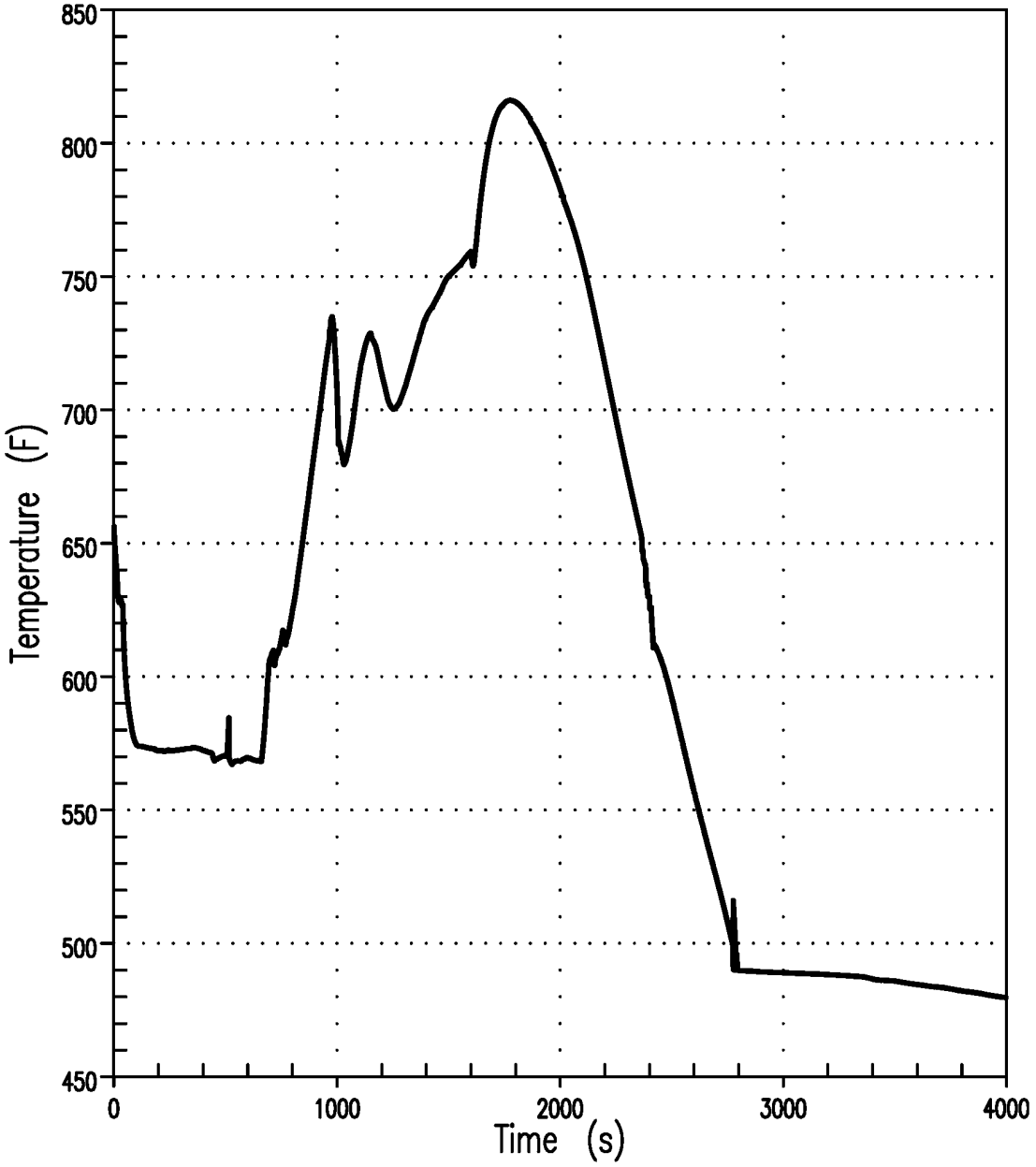


COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-60
REACTOR COOLANT SYSTEM PRESSURE UNIT 2: 3-INCH BREAK

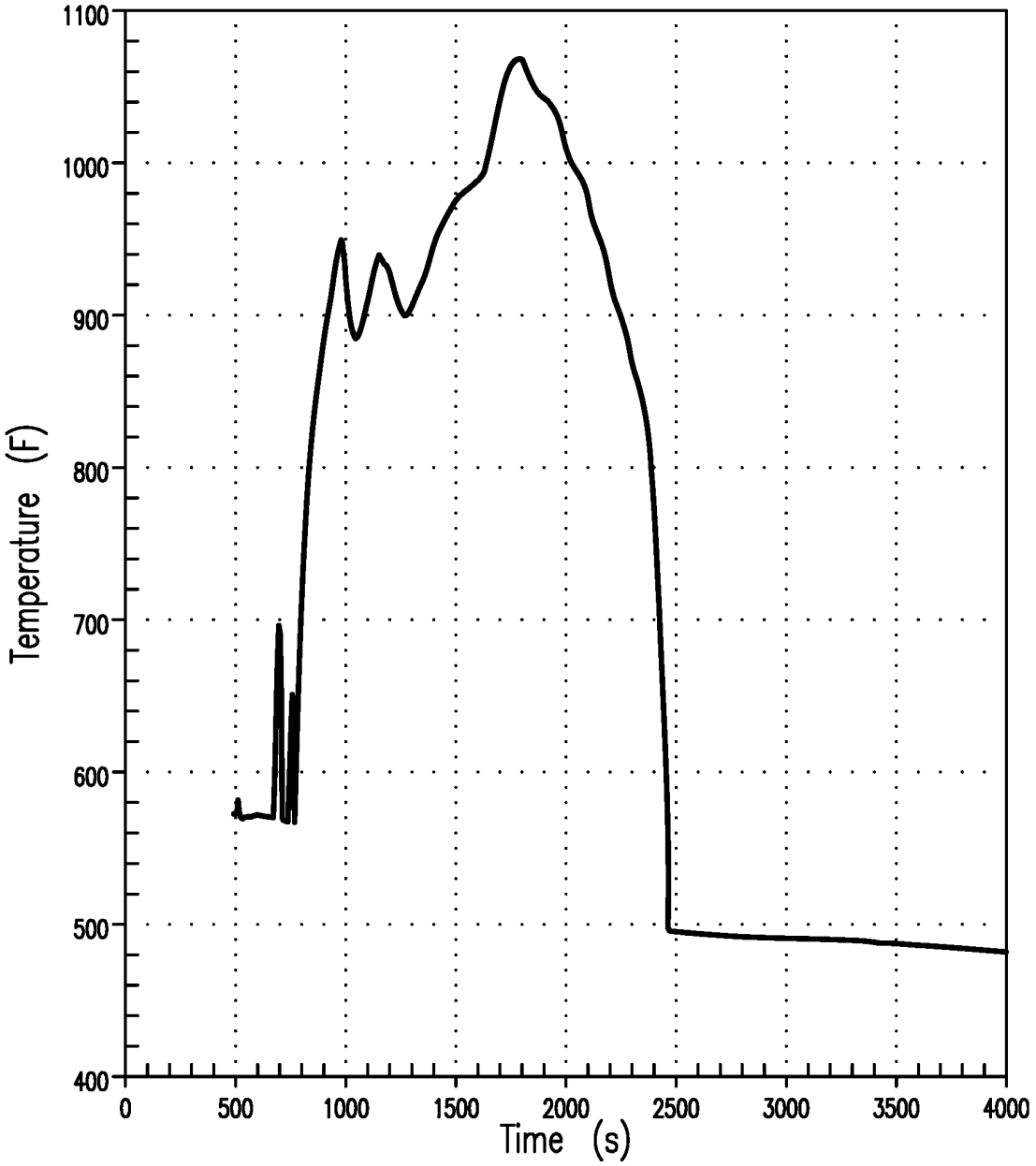
Amendment No. 103



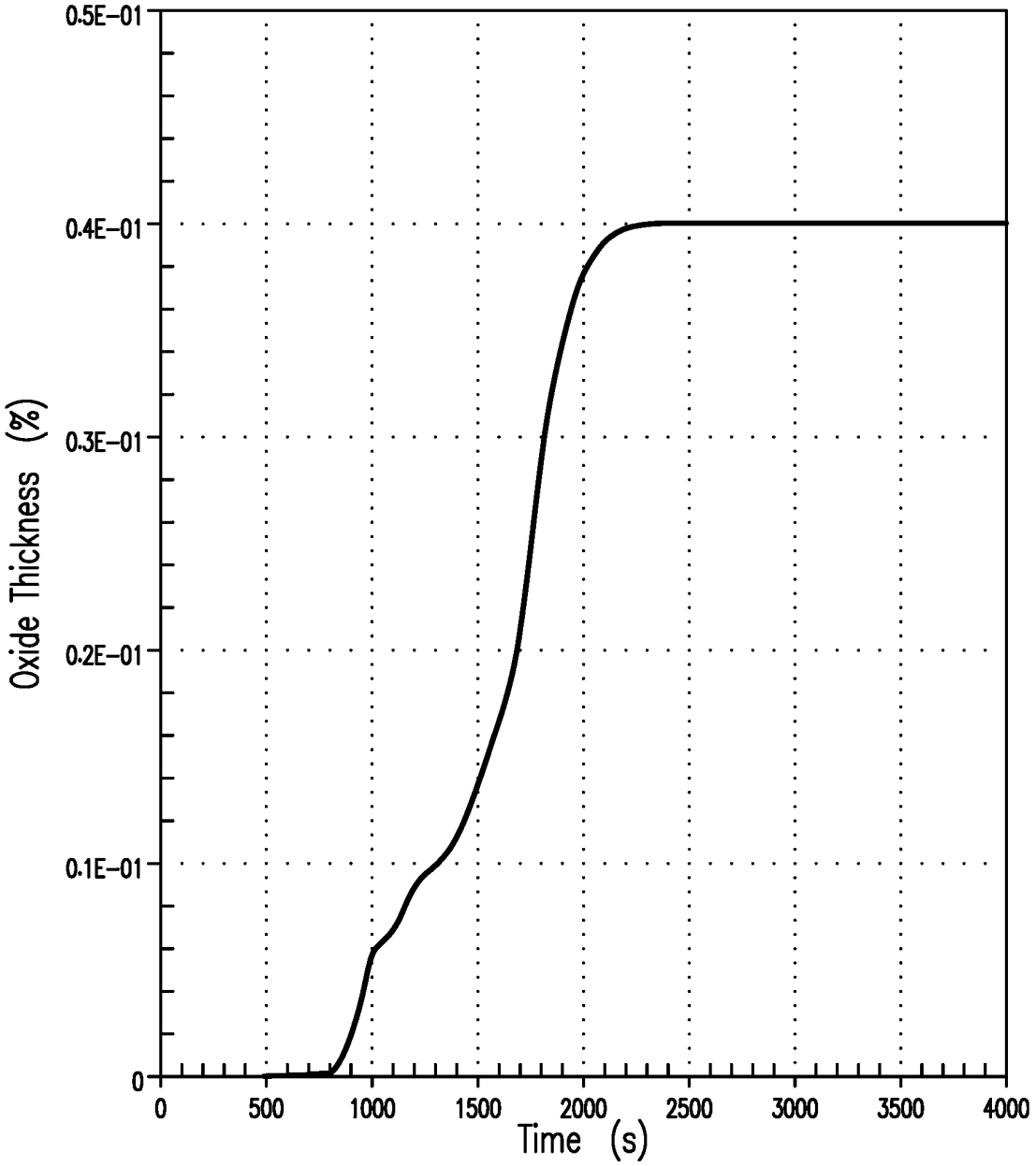
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-61
CORE MIXTURE HEIGHT AND TOP OF CORE UNIT 2: 3-INCH BREAK



COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-62
TOP CORE EXIT VAPOR TEMPERATURE UNIT 2: 3-INCH BREAK

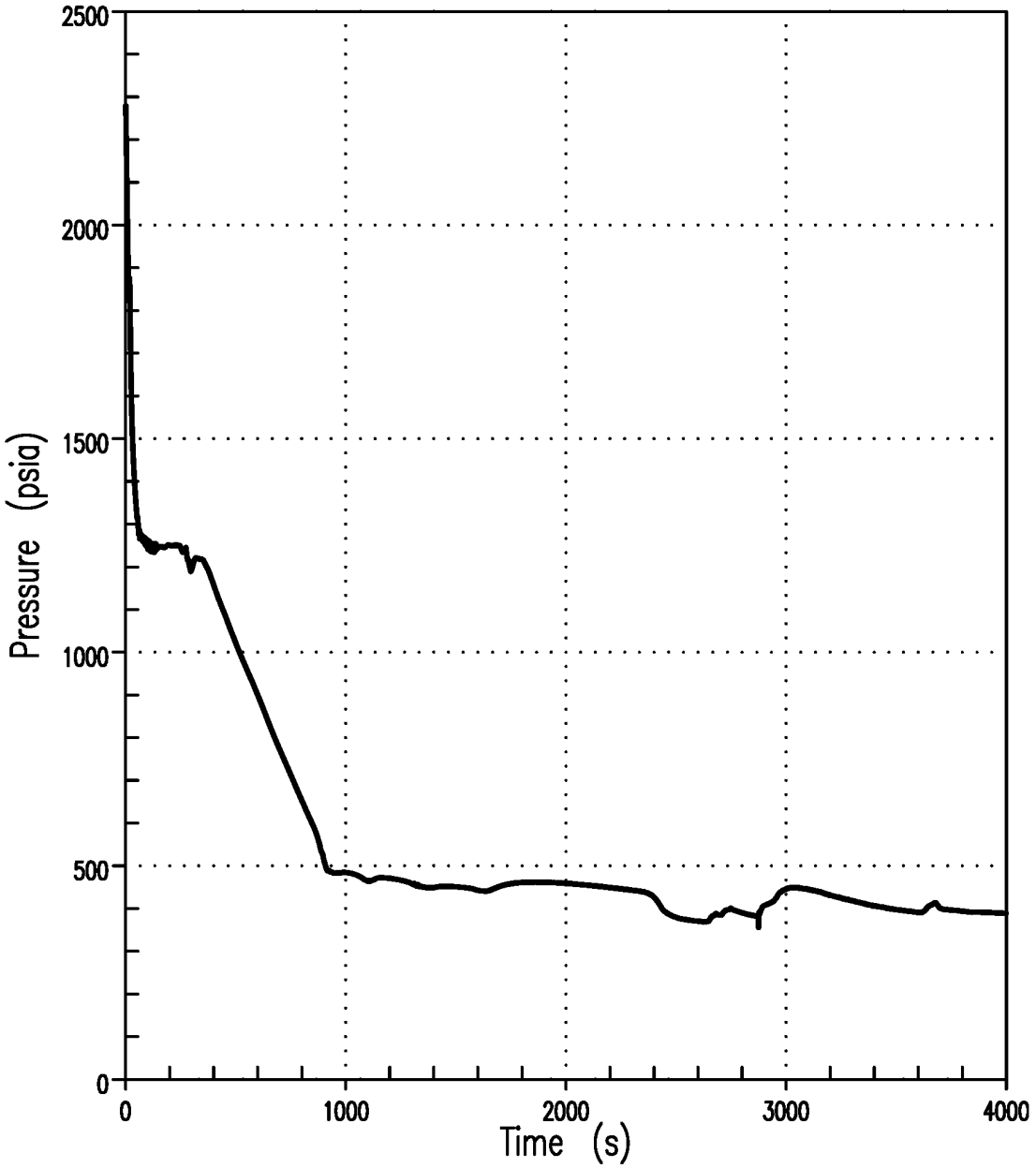


COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-63
CLAD TEMPERATURE TRANSIENT AT PEAK CLAD TEMPERATURE ELEVATION UNIT 2: 3-INCH BREAK

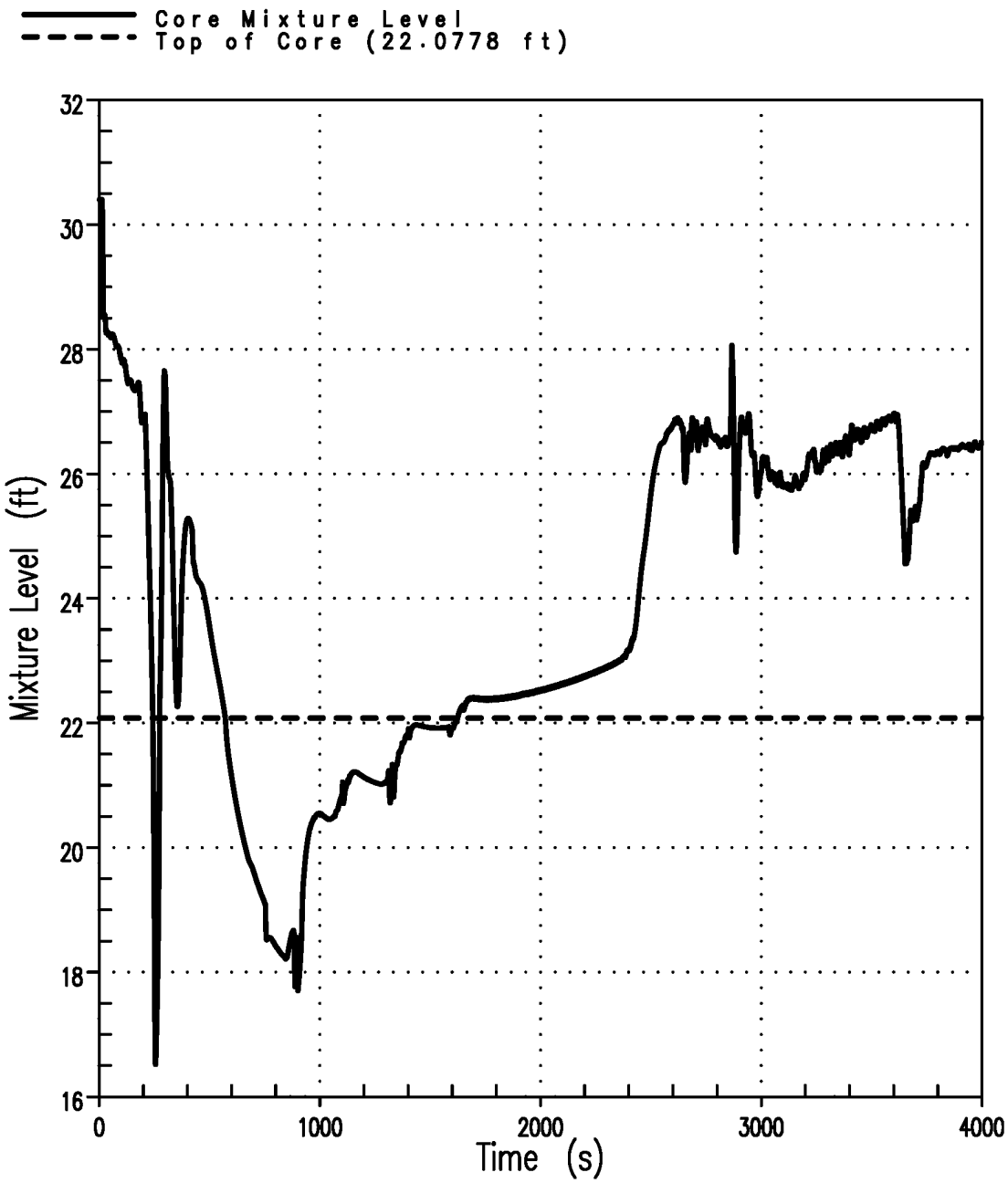


COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-64
MAXIMUM LOCAL ZRO_2 THICKNESS UNIT 2: 3-INCH BREAK

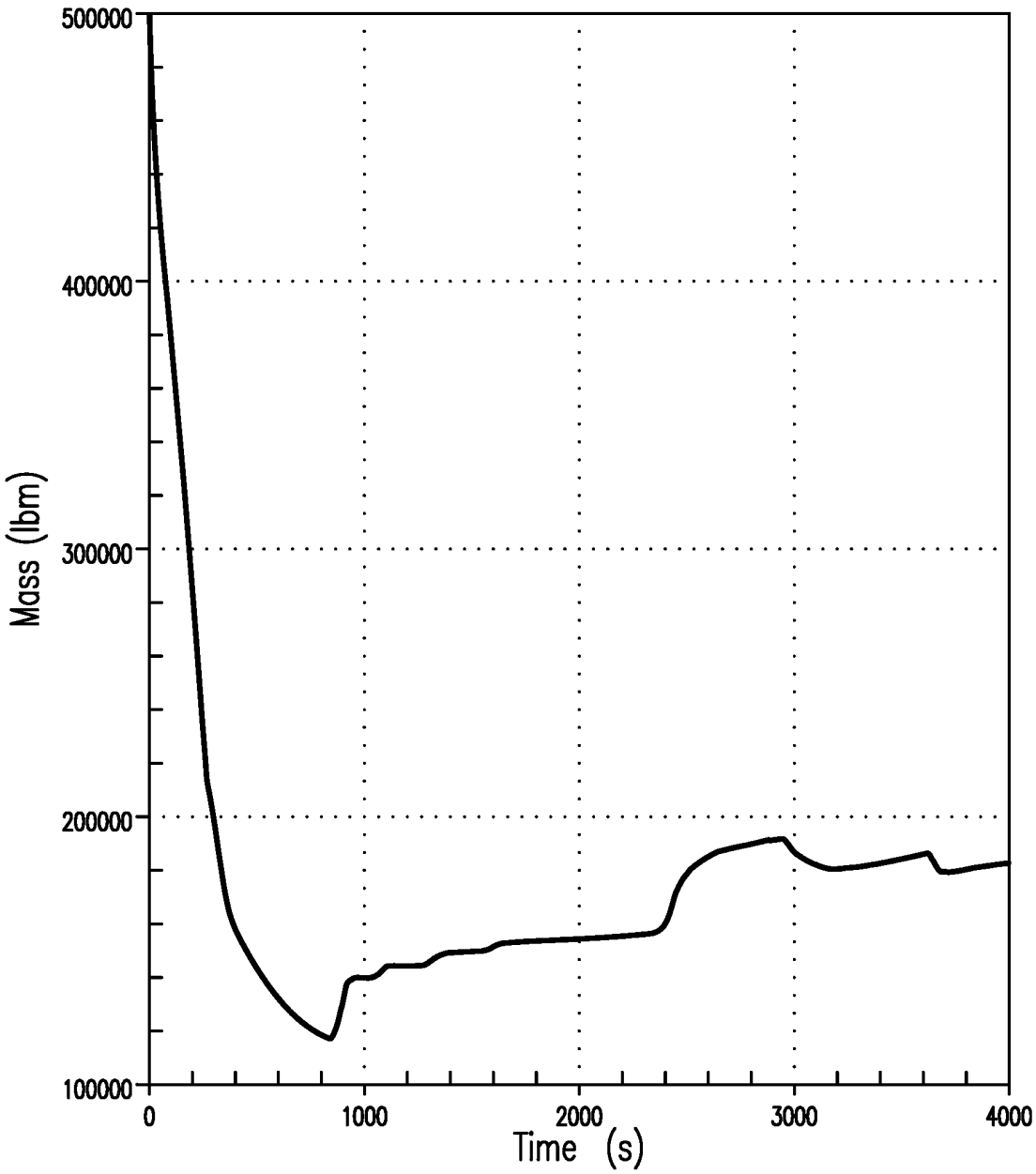
Amendment No. 103



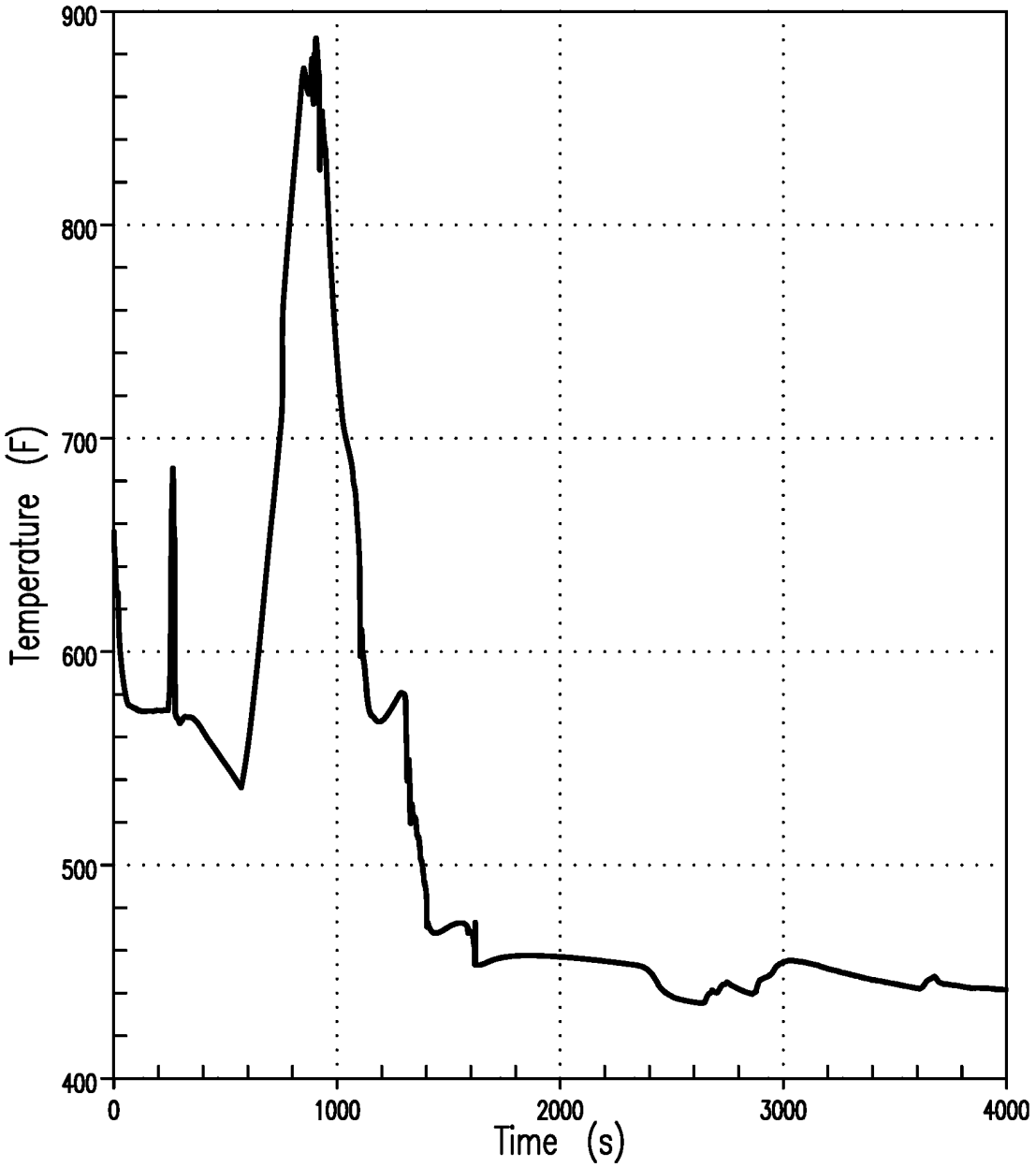
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-65
REACTOR COOLANT SYSTEM PRESSURE UNIT 2: 4-INCH BREAK



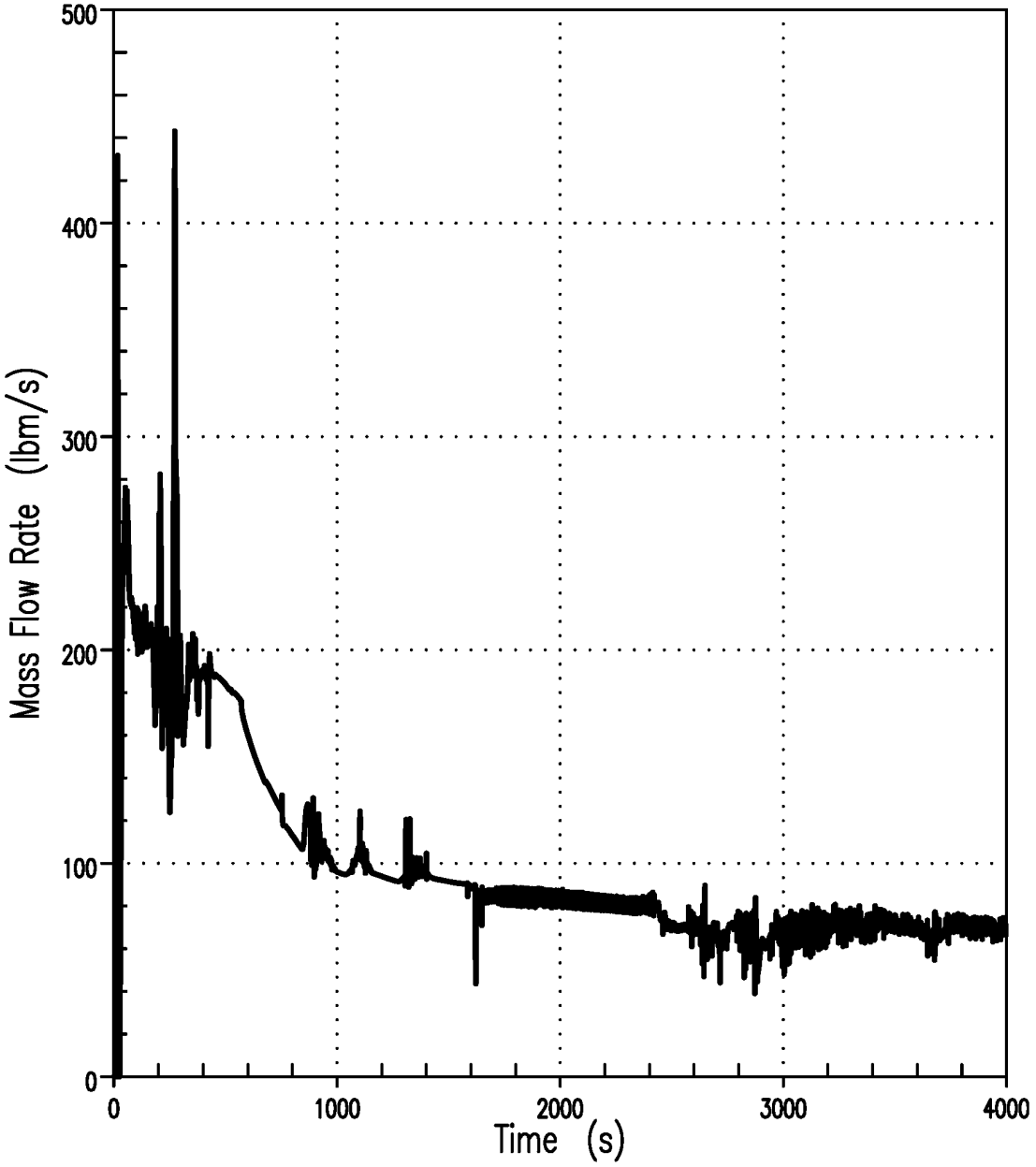
COMANCHE PEAK **FINAL SAFETY ANALYSIS REPORT**
FIGURE 15.6-66
CORE MIXTURE HEIGHT AND TOP OF CORE **UNIT 2: 4-INCH BREAK**



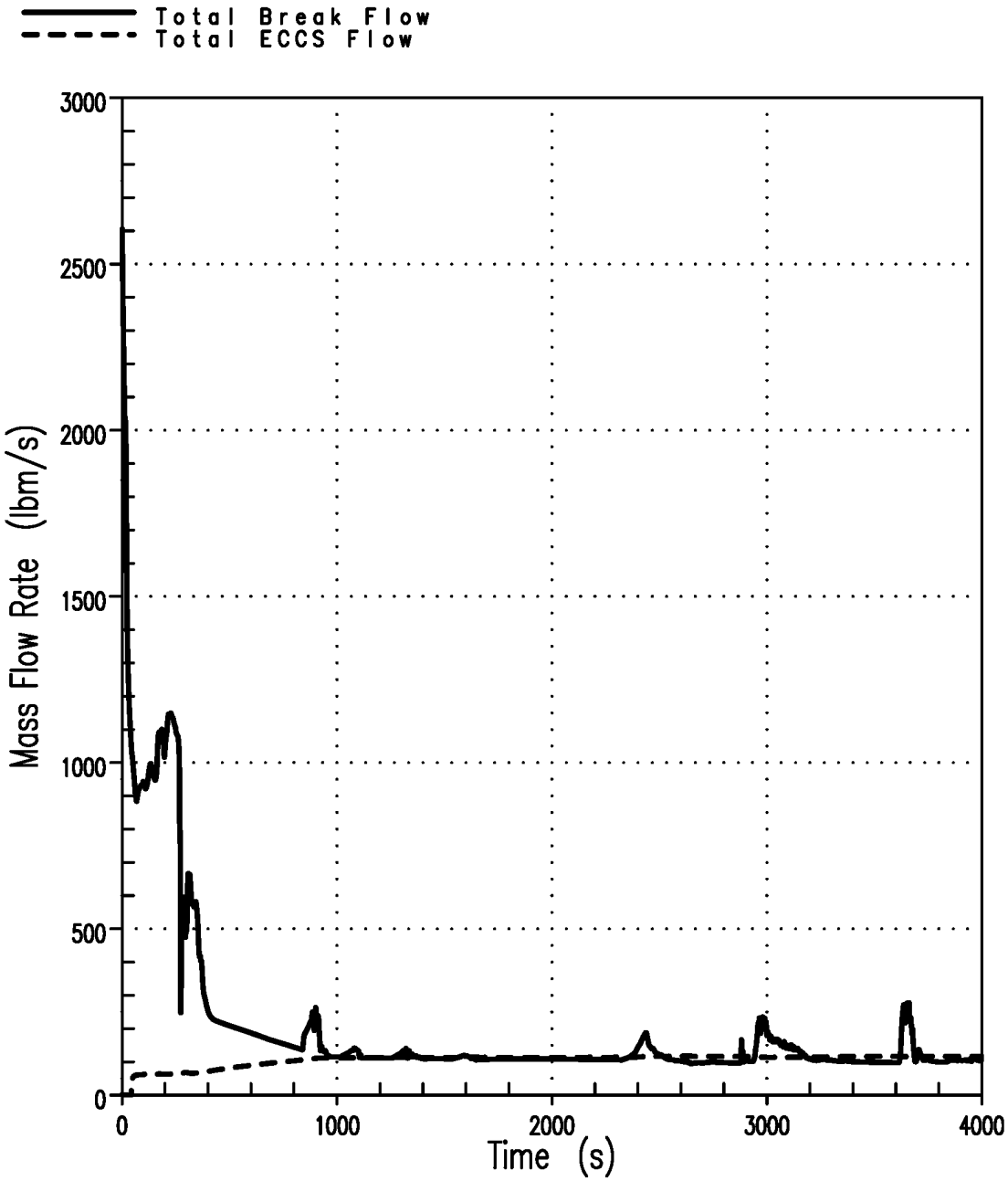
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-67
TOTAL REACTOR COOLANT SYSTEM MASS UNIT 2: 4-INCH BREAK



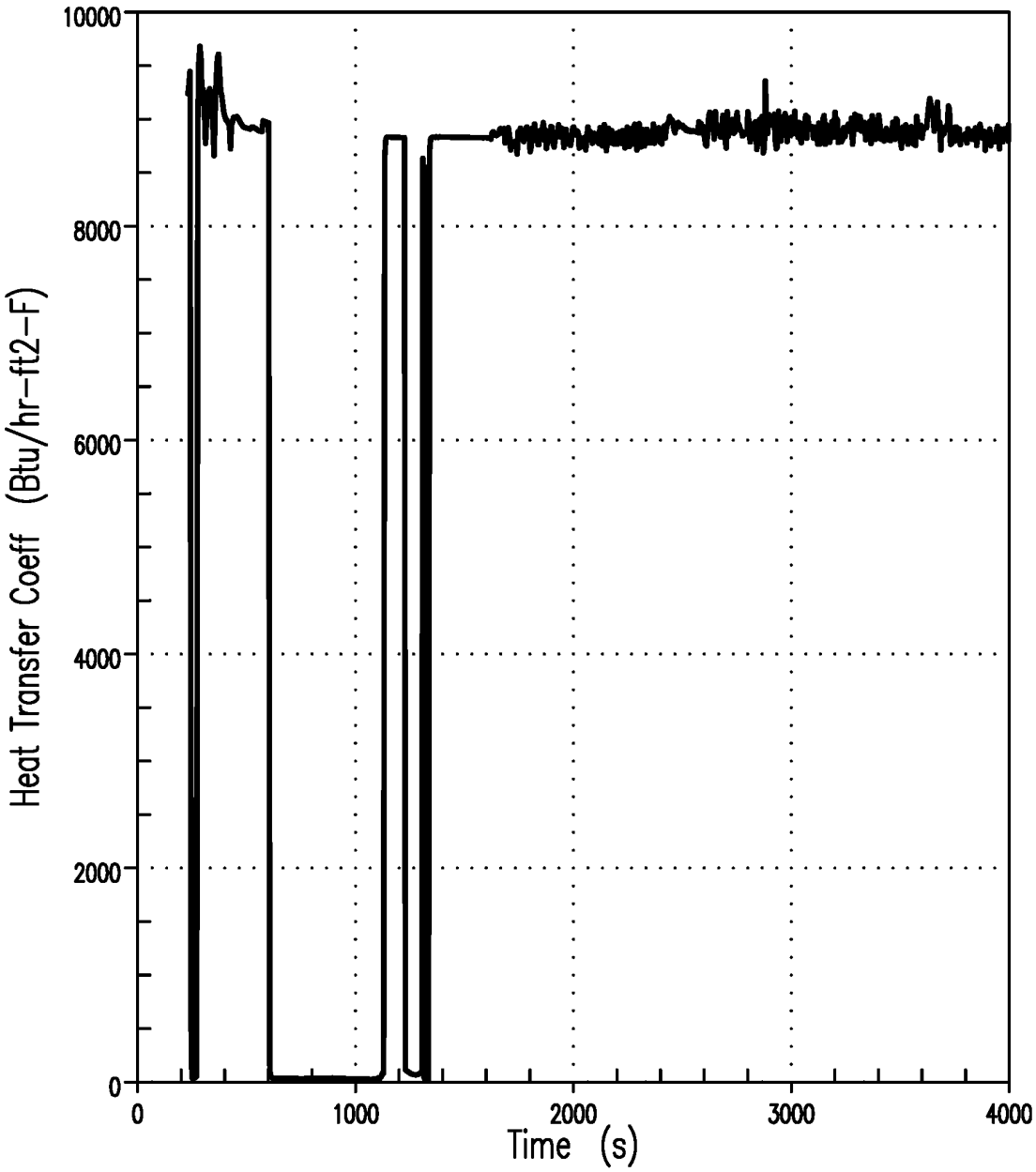
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-68
TOP CORE EXIT VAPOR TEMPERATURE UNIT 2: 4-INCH BREAK



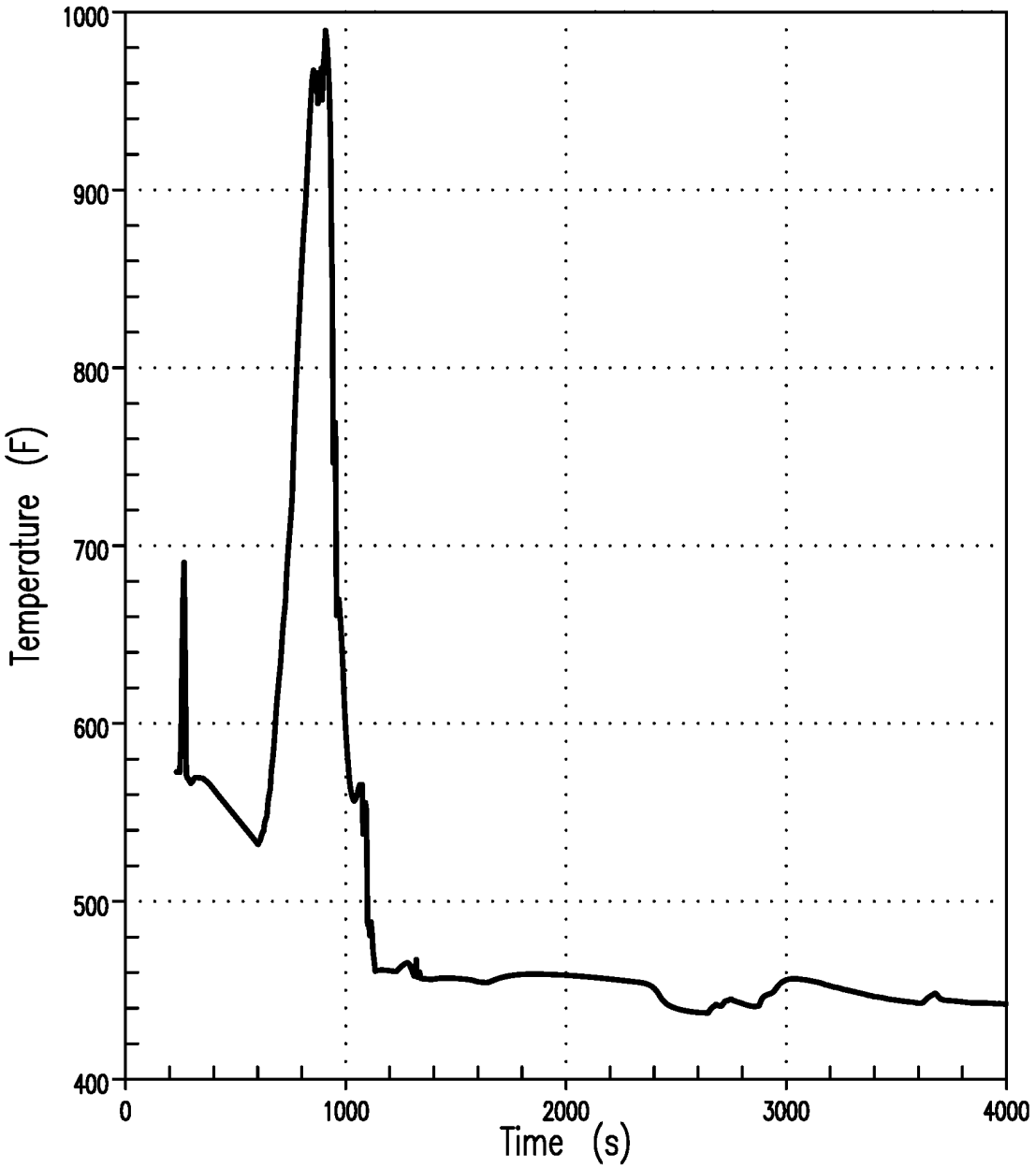
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-69
TOP CORE STEAM MASS FLOW RATE UNIT 2: 4-INCH BREAK



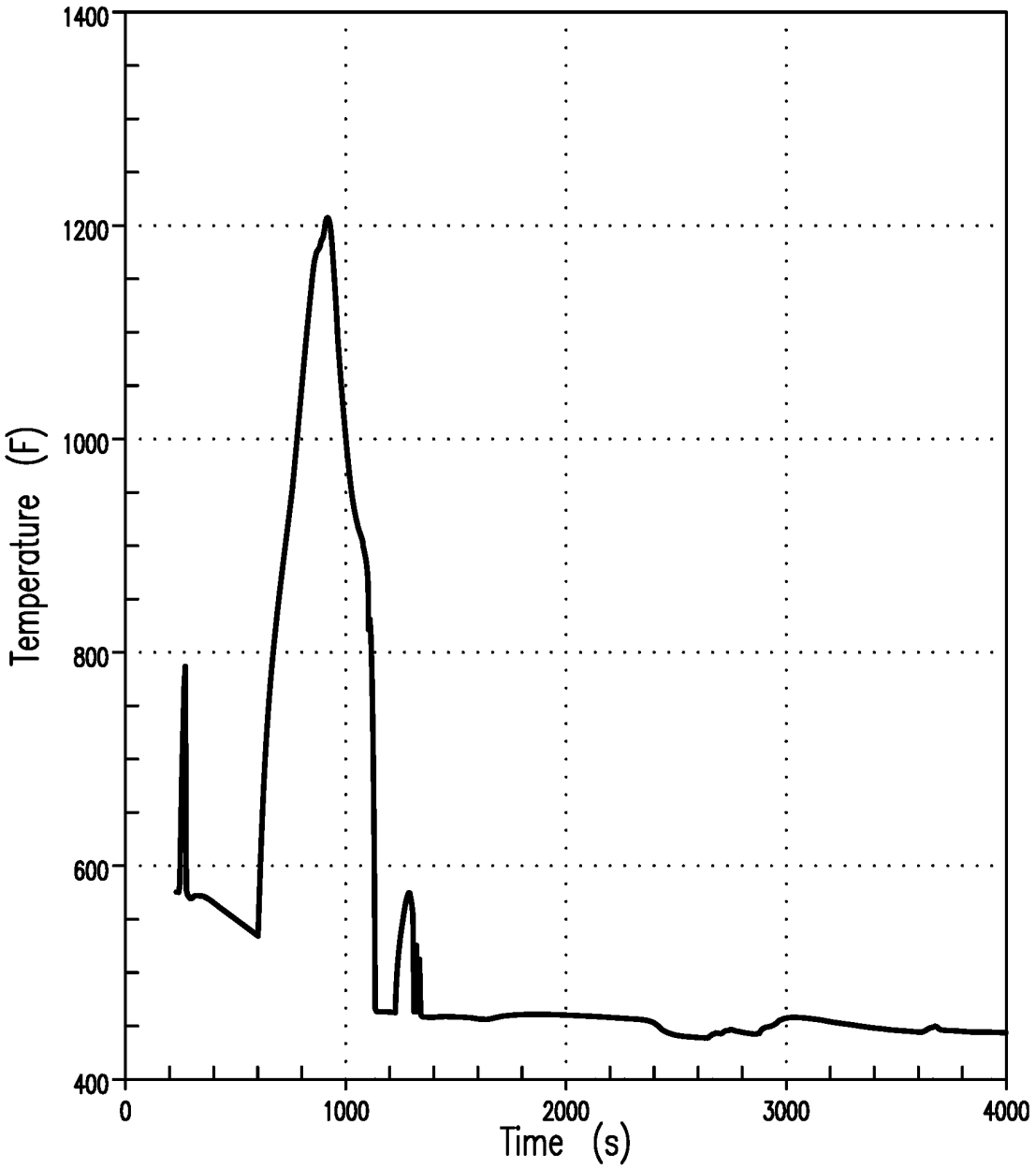
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-70
TOTAL BREAK FLOW AND TOTAL SAFETY INJECTION FLOW UNIT 2: 4-INCH BREAK



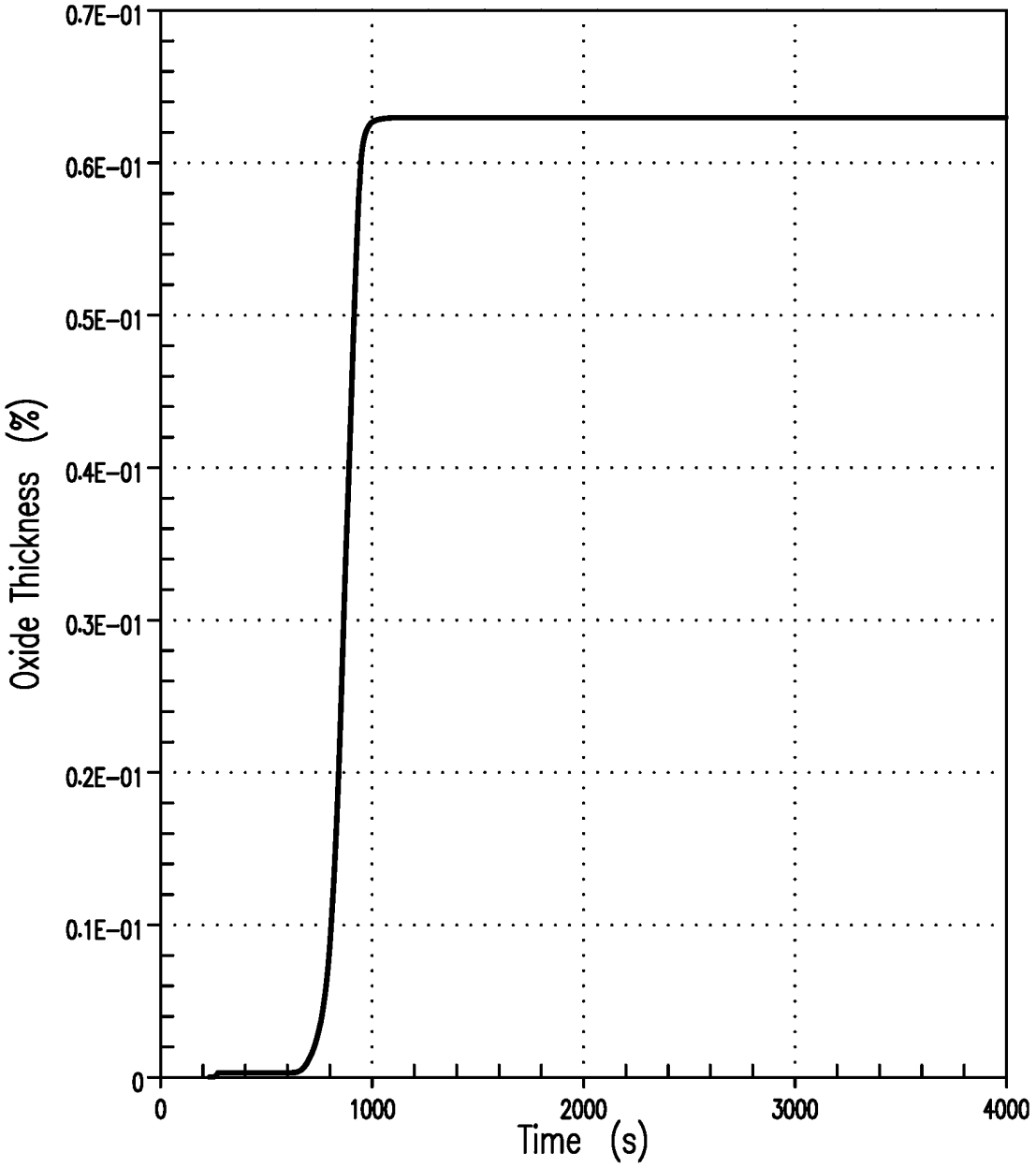
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-71
CLAD SURFACE HEAT TRANSFER COEFFIENT AT PEAK TEMPERATURE ELEVATION UNIT 2: 4-INCH BREAK



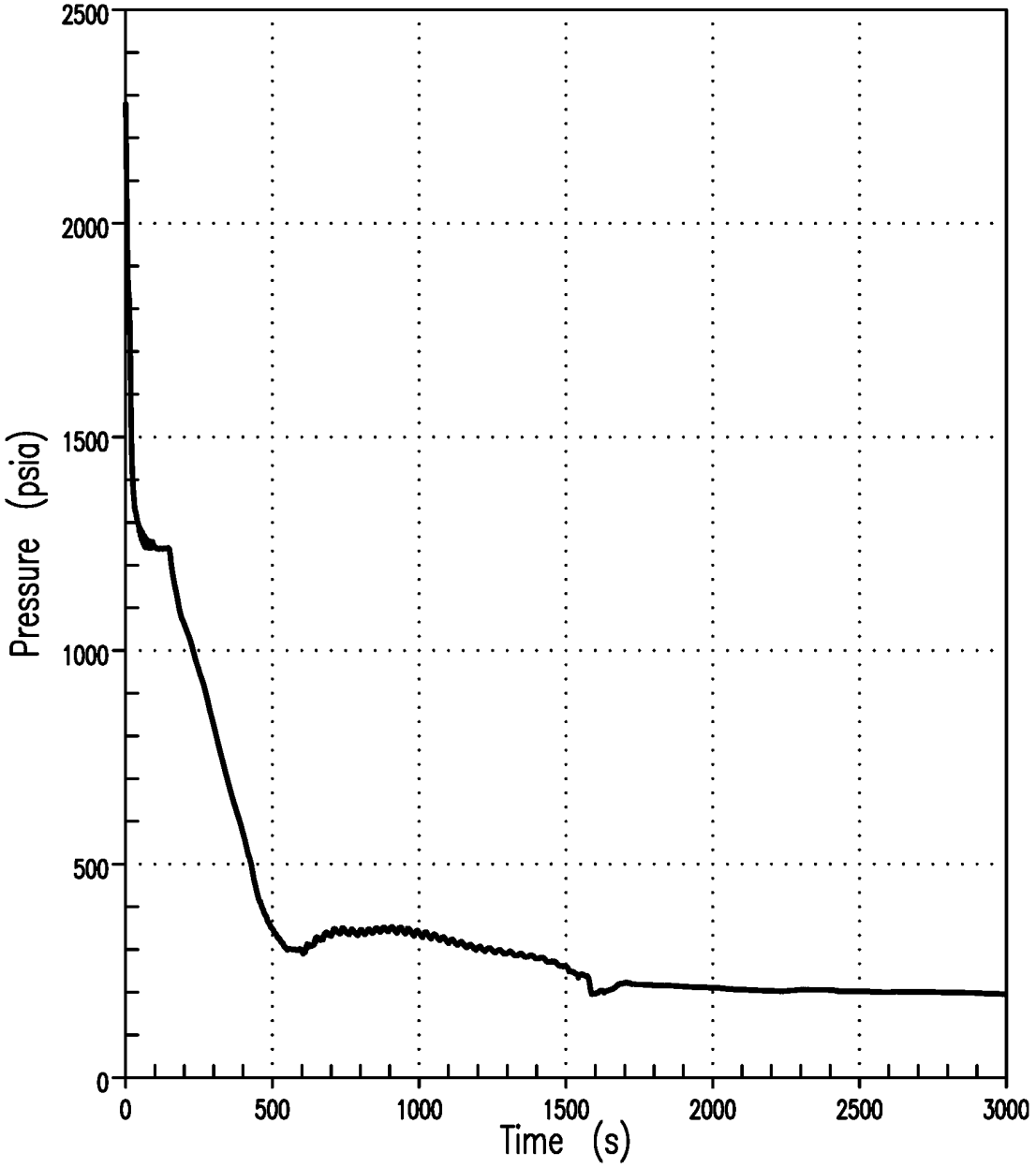
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-72
FLUID TEMPERATURE AT PEAK CLAD TEMPERATURE ELEVATION UNIT 2: 4-INCH BREAK



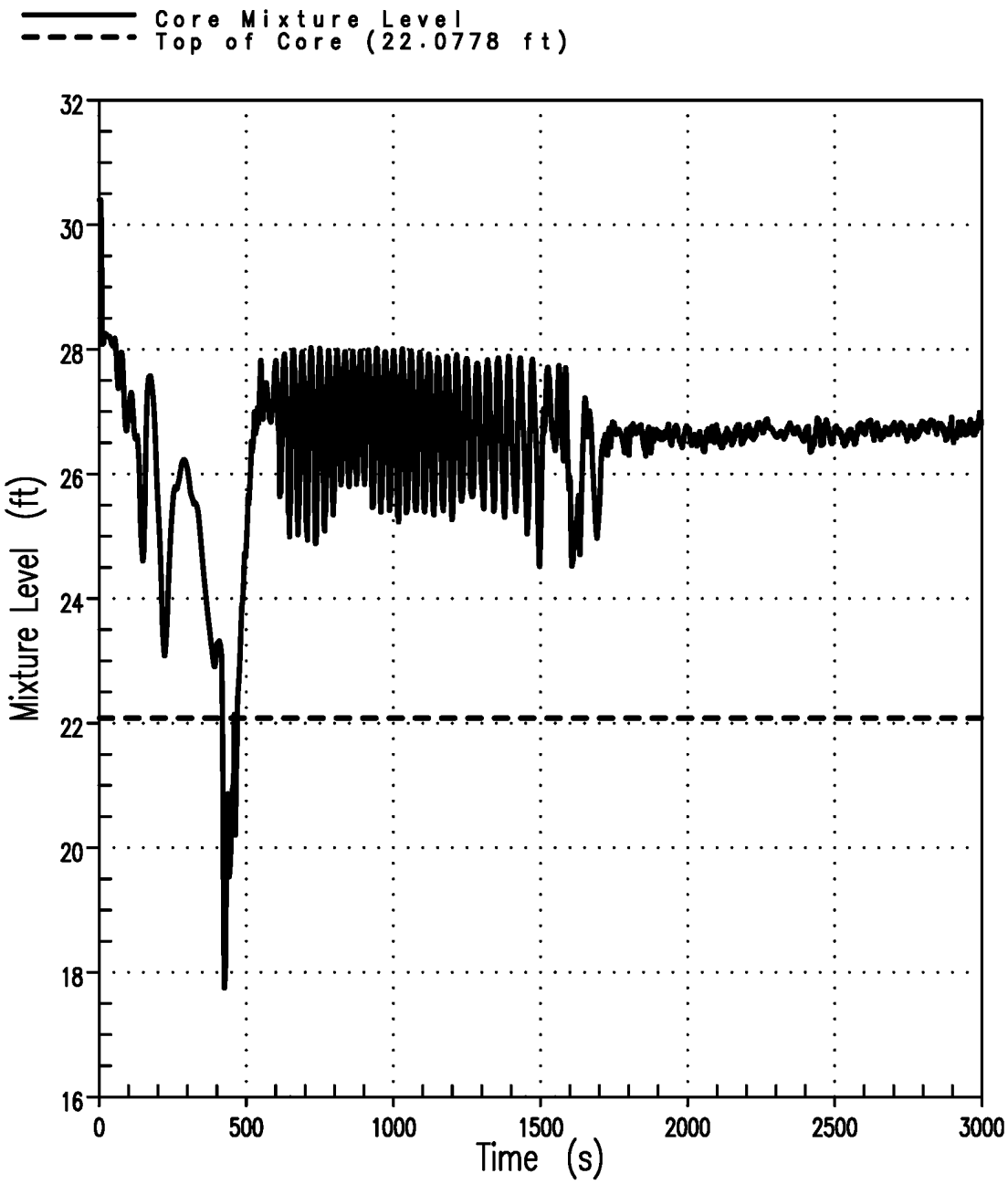
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-73
CLAD TEMPERATURE TRANSIENT AT PEAK CLAD TEMPERATURE ELEVATION UNIT 2: 4-INCH BREAK



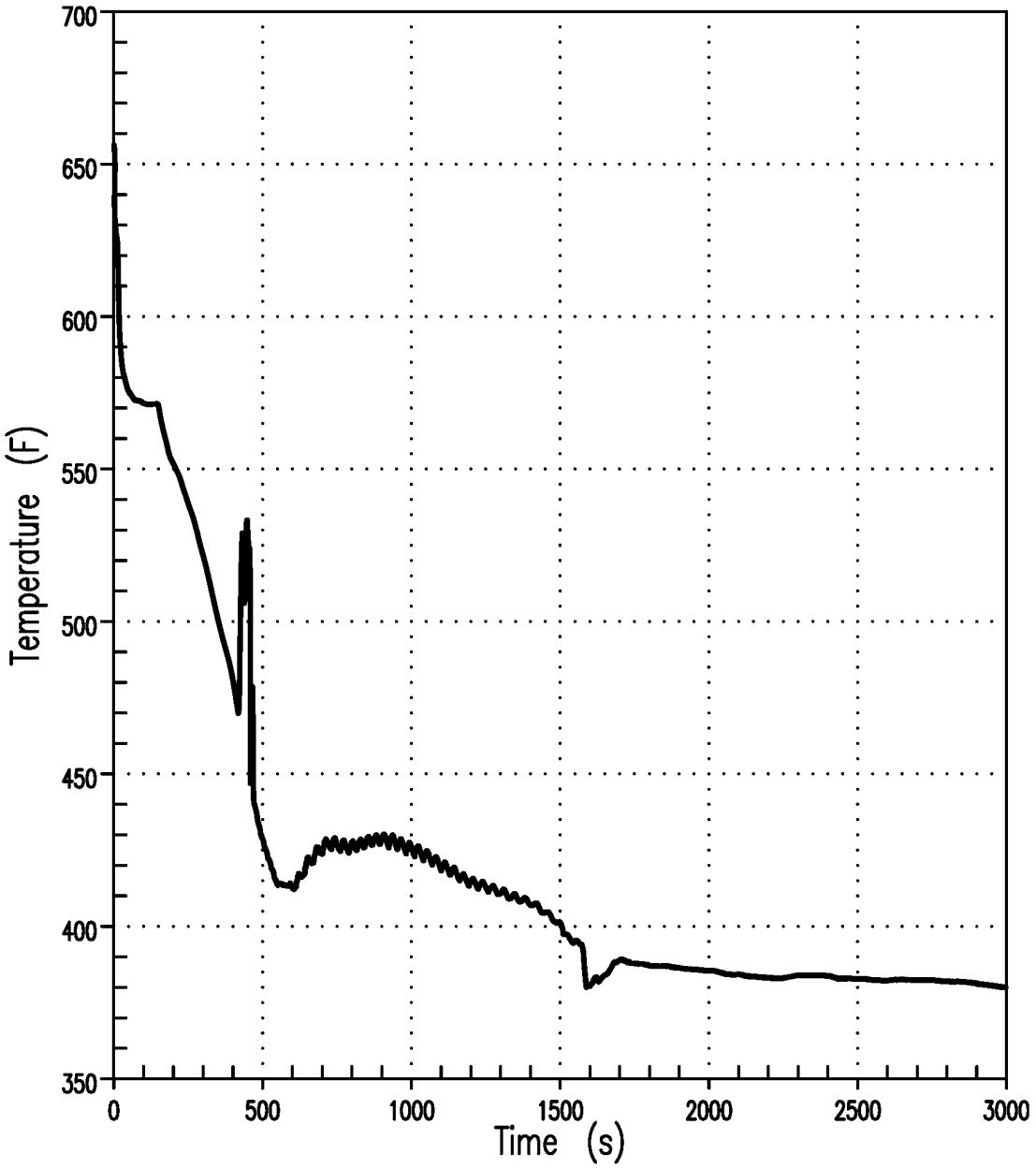
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-74
MAXIMUM LOCAL ZRO_2 THICKNESS UNIT 2: 4-INCH BREAK



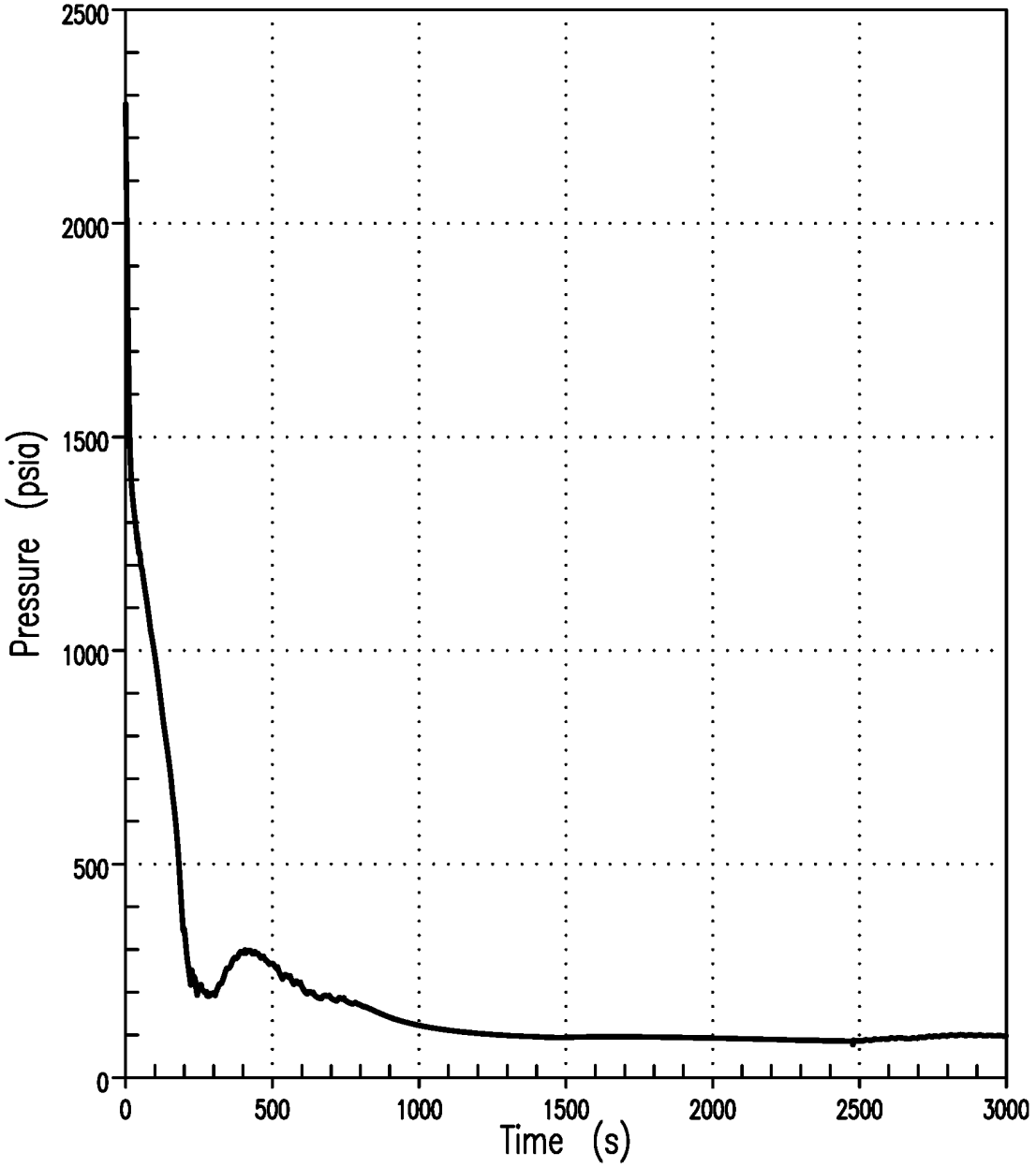
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-75
REACTOR COOLANT SYSTEM PRESSURE UNIT 2: 6-INCH BREAK



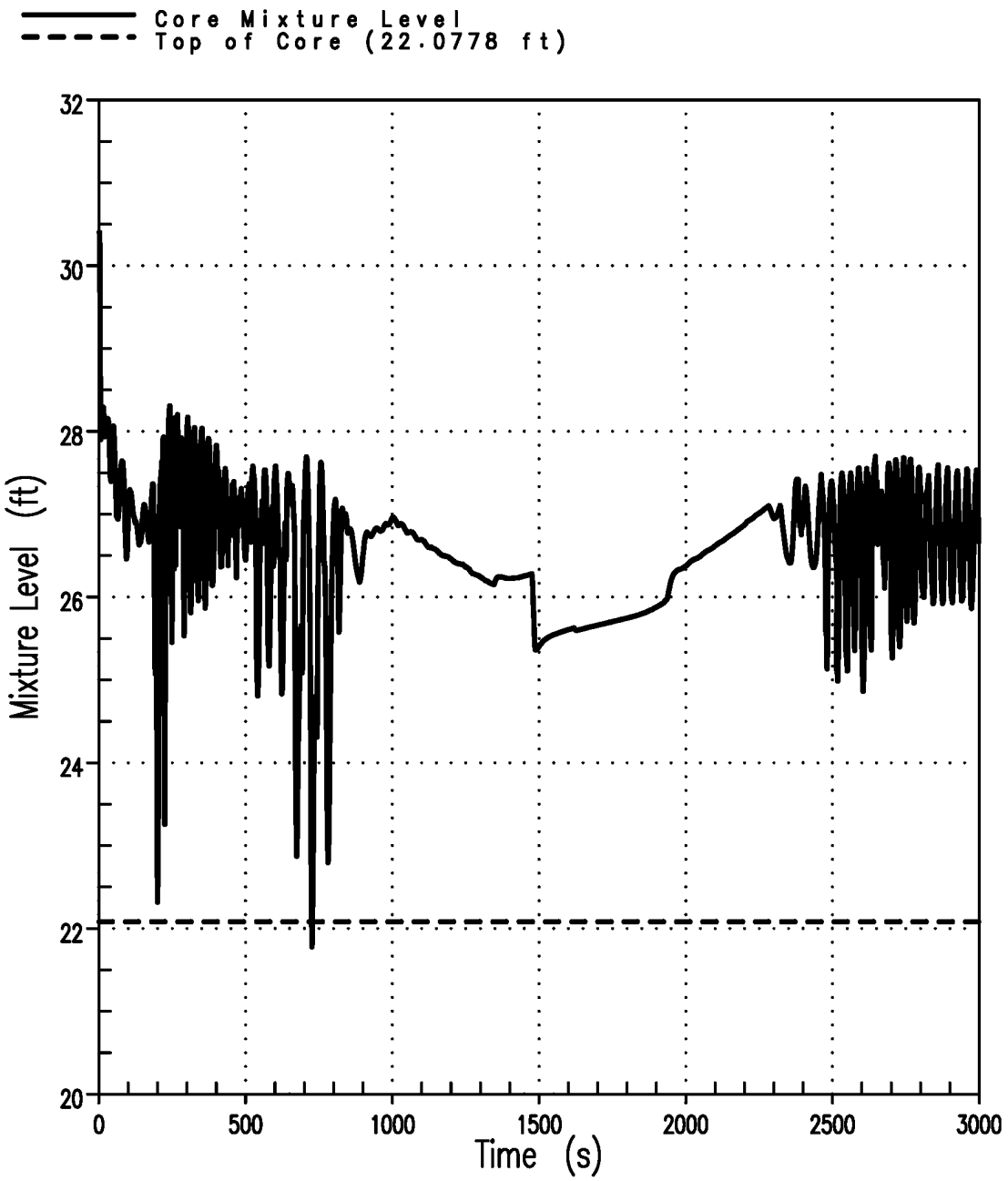
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-76
CORE MIXTURE HEIGHT AND TOP OF CORE UNIT 2: 6-INCH BREAK



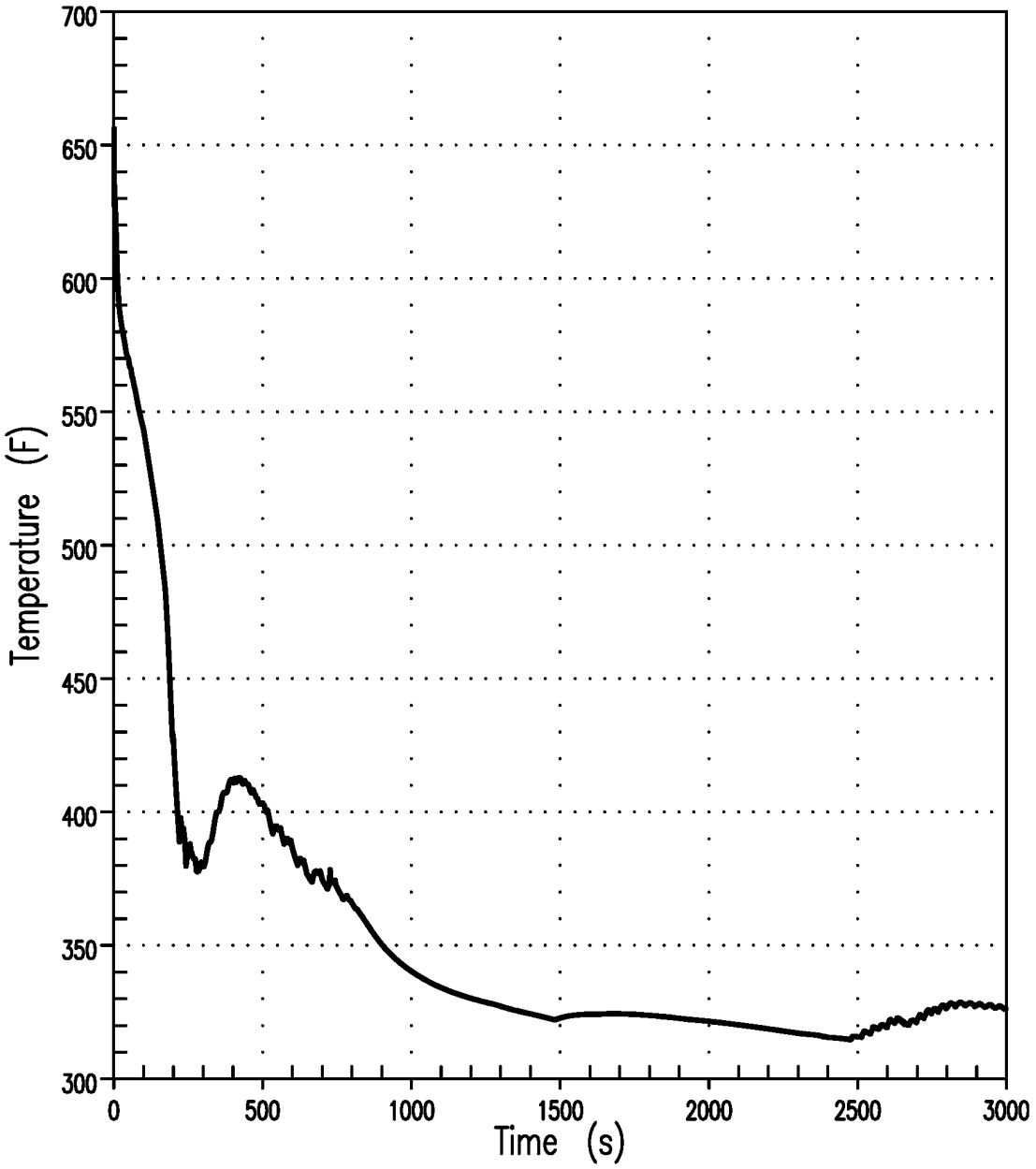
COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-77
TOP CORE EXIT VAPOR TEMPERATURE UNIT 2: 6-INCH BREAK



COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-78
REACTOR COOLANT SYSTEM PRESSURE UNIT 2: 8.75-INCH BREAK



COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-79
CORE MIXTURE HEIGHT AND TOP OF CORE UNIT 2: 8.75-INCH BREAK



COMANCHE PEAK FINAL SAFETY ANALYSIS REPORT
FIGURE 15.6-80
TOP CORE EXIT VAPOR TEMPERATURE UNIT 2: 8.75-INCH BREAK

Figures 15.6-7A,B,C,D thru 15.6-89 have been deleted | 92

Figures 15.6-7A,B,C,D thru 15.6-89 have been deleted | 92

Figures 15.6-7A,B,C,D thru 15.6-89 have been deleted | 92

Figures 15.6-7A,B,C,D thru 15.6-89 have been deleted | 92

Figures 15.6-7A,B,C,D thru 15.6-89 have been deleted | 92

Figures 15.6-7A,B,C,D thru 15.6-89 have been deleted | 92

Figures 15.6-7A,B,C,D thru 15.6-89 have been deleted | 92

Figures 15.6-7A,B,C,D thru 15.6-89 have been deleted | 92

Figures 15.6-7A,B,C,D thru 15.6-89 have been deleted | 92

APPENDIX 15A HAS BEEN DELETED | 84

APPENDIX 15A HAS BEEN DELETED | 84

Figure 17.2-3 has been deleted.

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

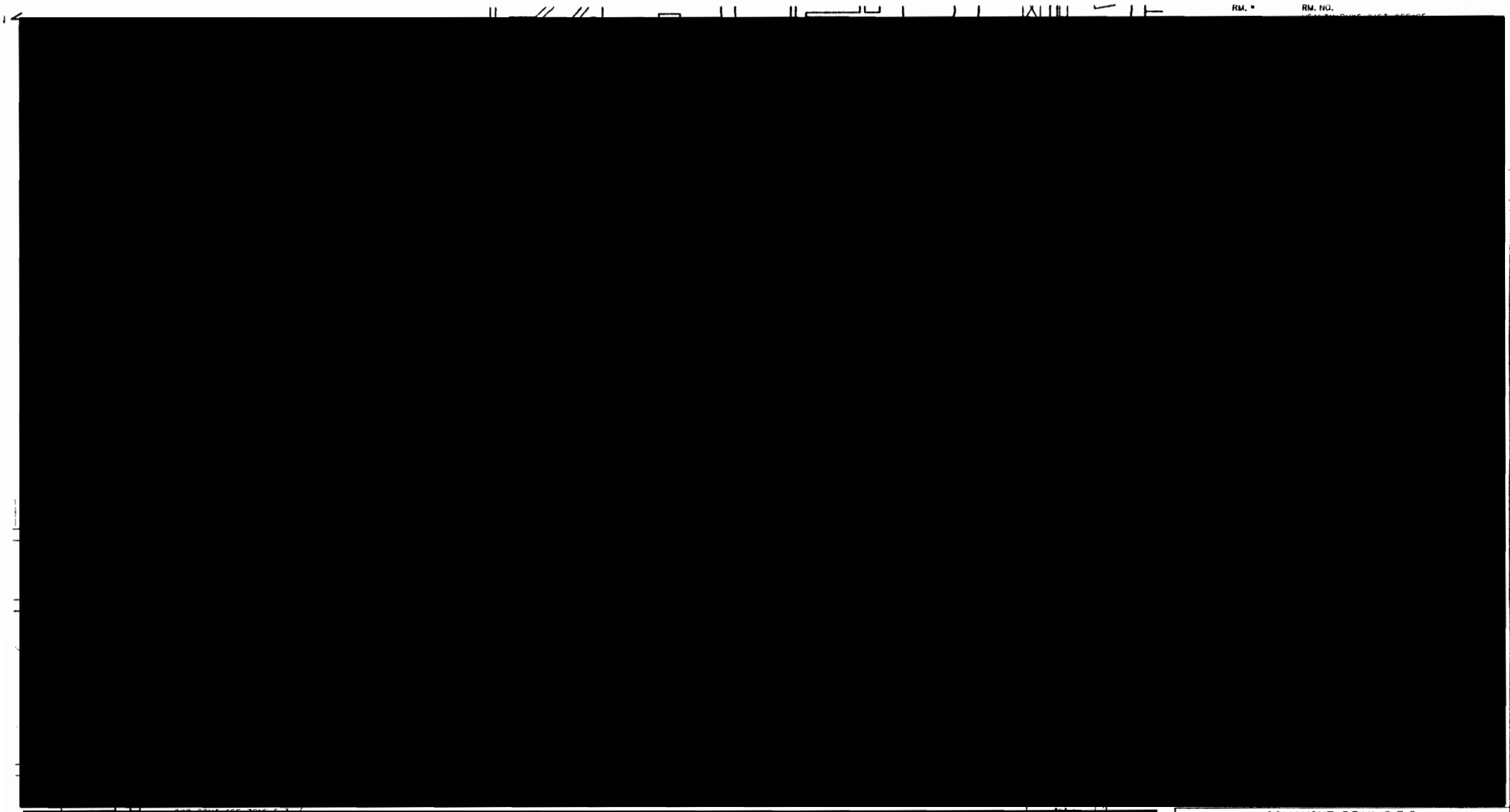
THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77

FIGURES II.B.2-1 THROUGH II.B.2-24

THESE FIGURES HAVE BEEN DELETED | 77



COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 1A

FIGURE 11.B.2-25

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 1B

FIGURE 11.B.2-26

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 1C

FIGURE 11.B.2-27

11B227000

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 2

FIGURE 11.B.2-30

11B230000

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 3 & 4

FIGURE 11.B.2-31

11B231000

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 5

FIGURE 11.B.2-32

11B232000

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 6

FIGURE 11B.2-33

11B233100

[redacted]

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 7 & 8

FIGURE 11.B.2-34

11B234000

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 9

FIGURE 11.B.2-35

11BZ35000

[redacted]

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 10 & 11
SHEET 1 OF 2

FIGURE 11.B.2-36

11B236000

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 10 & 11
SHEET 2 OF 2

FIGURE 11.B.2-36

11B236100

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 12

FIGURE 11.B.2-37

11B237000

FIGURE II.B.2-38

93 THIS FIGURE HAS BEEN DELETED

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 14
SHEET 1 OF 3

FIGURE 11.B.2-39

11B239000

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 14
SHEET 2 OF 3

FIGURE 11.B.2-39

11B239100

[redacted]

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 14
SHEET 3 OF 3

FIGURE II.B.2-39

118239200

[redacted]

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 15
SHEET 1 OF 2

FIGURE 11.B.2-40

11B240100

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 15
SHEET 2 OF 2

FIGURE 11.B.2-40

11B240200

[redacted]

FIGURE GENERATED FOR FSAR ONLY
BASED ON DRAWING

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 16

FIGURE **II.B.2-41**

[redacted]

11B241100.DGN

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 17
SHEET 1 OF 1

FIGURE **II.B.2-42**

RM. # 17

RM. NO.
HEALTH PHYSICIST OFFICE

[redacted]

FOR CON
FIG 11.B.2
ZONE A-5

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 19
SHEET 1 OF 3

FIGURE 11.B.2-42.1

IIB242100.DGN

[redacted]

FOR CO
FIG. 11.B
SH. 1 ZO

[redacted]

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

POST LOCA ACCESS ROUTE 19
SHEET 2 OF 3

FIGURE 11.B.2-42.2

11B242200.DGN

[redacted]

[redacted] PEAK S E S

FINAL SAFETY ANALYSIS REPORT

UNITS 1 AND 2

POST LOCA ACCESS ROUTE 19
SHEET 3 OF 3

FIGURE II.B.2-42.3

[redacted]

[redacted]

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

POST LOCA ACCESS ROUTE 20

FIGURE II.B.2-42.4

[redacted]

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

POST LOCA ACCESS ROUTE 1A

FIGURE 11.B.2-43

11B243000

CPE

[redacted]

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

POST LOCA ACCESS ROUTE 1A

FIGURE 11.B.2-44

[redacted]

11B244000

CPE

[redacted]

[redacted]

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

POST LOCA ACCESS ROUTE 1B

FIGURE 11.B.2-45

11B245000

CPE

[redacted]

[redacted]

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

POST LOCA ACCESS ROUTE 1B

FIGURE 11.B.2-46

11B246000

CPE

[redacted]

[redacted]

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

POST LOCA ACCESS ROUTE 1C

FIGURE 11.B.2-47

11B247000

[redacted]

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

POST LOCA ACCESS ROUTE 2

FIGURE 11.B.2-50

CPE

[redacted]

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

POST LOCA ACCESS ROUTE 2

FIGURE 11.B.2-51

11B251000

CPE

[redacted]

1-013 1-015 1-021 1-020 1-024 1-011A

[redacted]

COMANCHE PEAK S E S
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

POST LOCA ACCESS ROUTE 3 AND 4

FIGURE 11.B.2-52

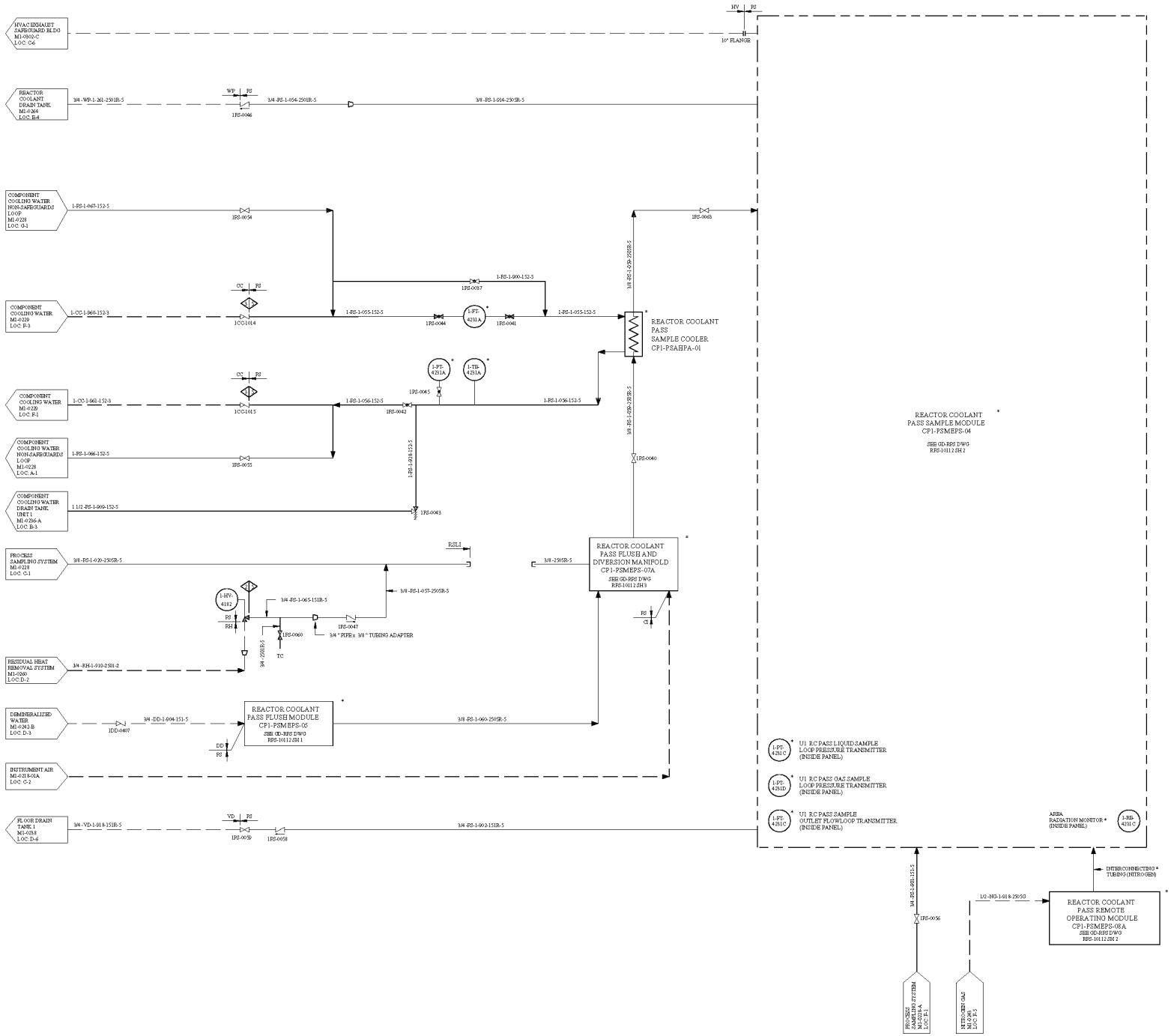
11B252000

FIGURE II.B.2-66

93 THIS FIGURE HAS BEEN DELETED

FIGURE II.B.2-67

93 THIS FIGURE HAS BEEN DELETED



NOTES:

1. THE INTERNAL DETAILS OF THE POST-ACCIDENT SAMPLE SYSTEM ARE SHOWN ON THE GENERAL DYNAMIC REACTOR PLANT SERVICES DRAWING INDICATED.
2. ALL ASTERISKED (*) EQUIPMENT IS SUPPLIED BY GENERAL DYNAMICS - REACTOR PLANT SERVICES.
3. ALL TUBING COMPRESSION FITTINGS ON THE RC PASS SAMPLE LINES WILL BE SEAL WELDED PER WELDING PROCEDURE WPS-8002S. NO VEND OR EQUIPMENT IS AFFECTED. THE AFFECTED LINES ARE AS FOLLOWS:

   3/8-RS-1-020-250SR-5

   3/8-RS-1-057-250SR-5

   3/8-RS-1-059-250SR-5

   3/8-RS-1-914-250SR-5
4. FOR MECHANICAL SYMBOLS AND NOTES SEE DRAWING M1-0200.
5. UNLESS OTHERWISE NOTED ALL DRAINS TO BE COLLECTED BY LOCAL FLOOR DRAIN SYSTEM.

Amendment 100

FIGURE GENERATED FOR FSAR ONLY
BASED ON DRAWING
M1-0228-01

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

FLOW DIAGRAM
POST-ACCIDENT
SAMPLING SYSTEM
REACTOR COOLANT

FIGURE II.B-3-1

f500000p.dgn

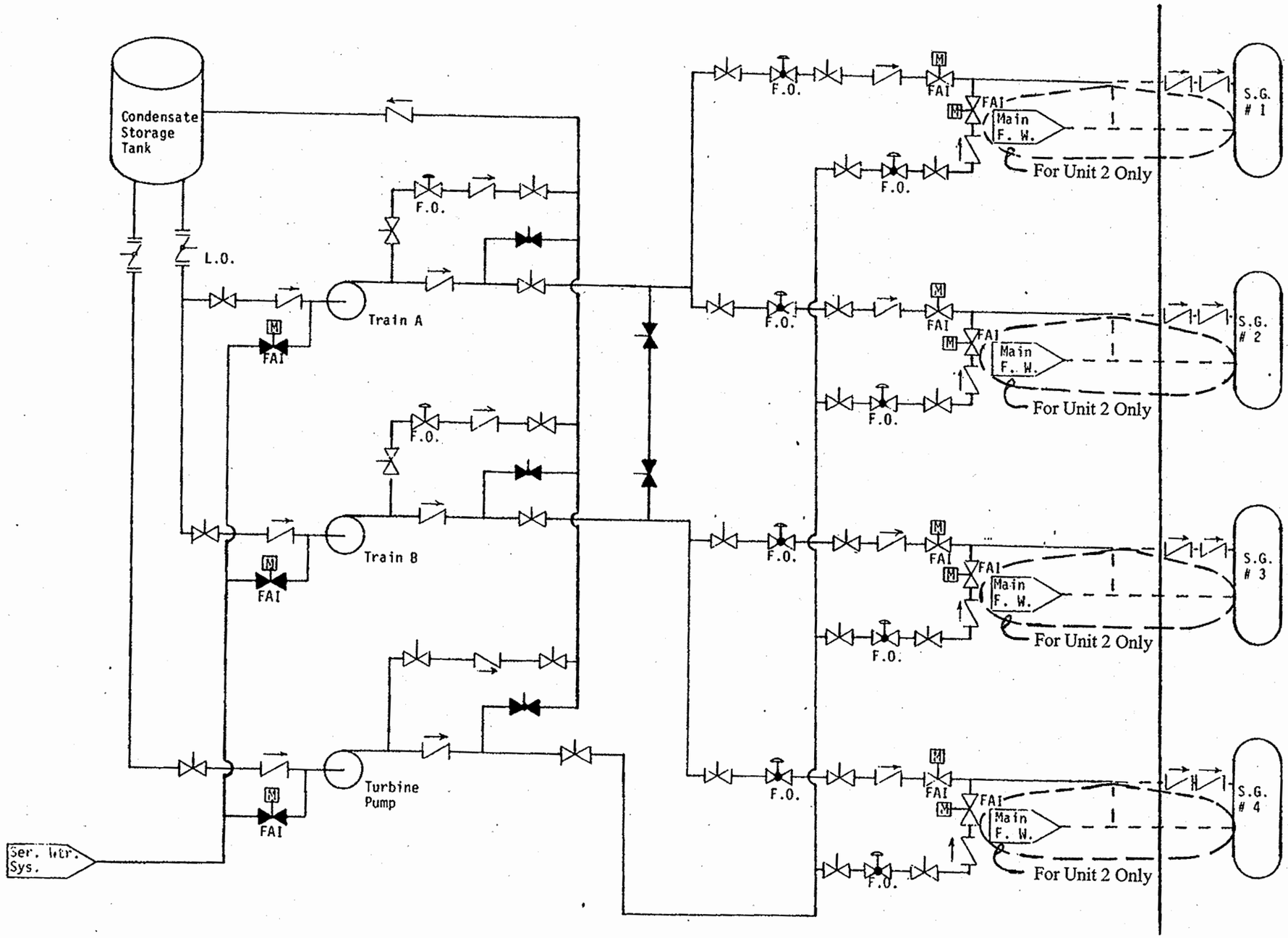
Refer to FSAR Figure 9.4-6

AMENDMENT 52
AUGUST 27, 1984

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

CONTAINMENT VENTILATION AND
CA PASS FLOW DIAGRAM

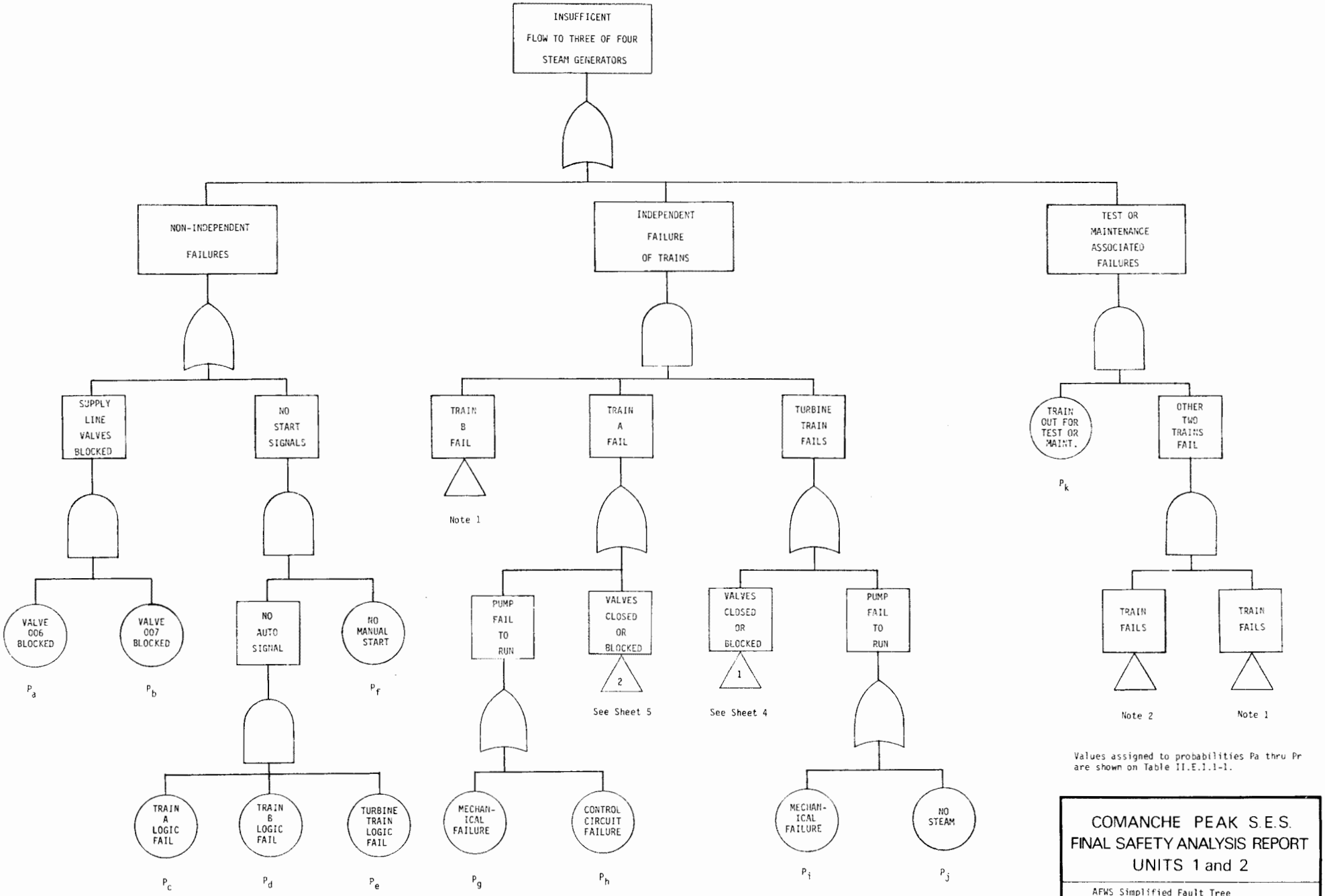
FIGURE II.B.3-2



COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

Auxiliary Feedwater System
Simplified Flow Diagram

FIGURE II.E.1.1-1



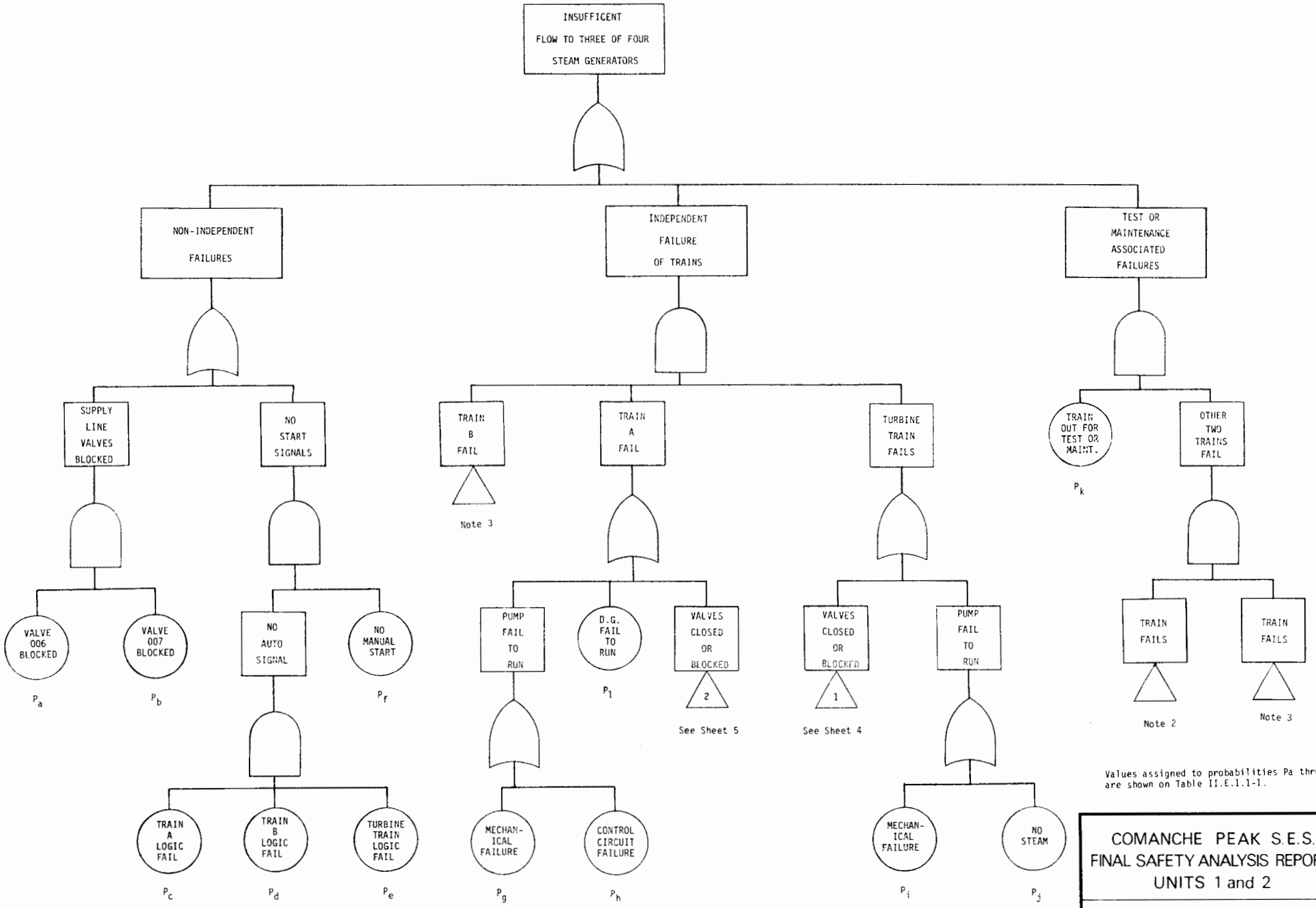
Values assigned to probabilities Pa thru Pr are shown on Table II.E.1.1-1.

JANUARY 30, 1981

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

AFWS Simplified Fault Tree
Loss of Feedwater

FIGURE II.E.1.1-2 (Sheet 1 of 5)



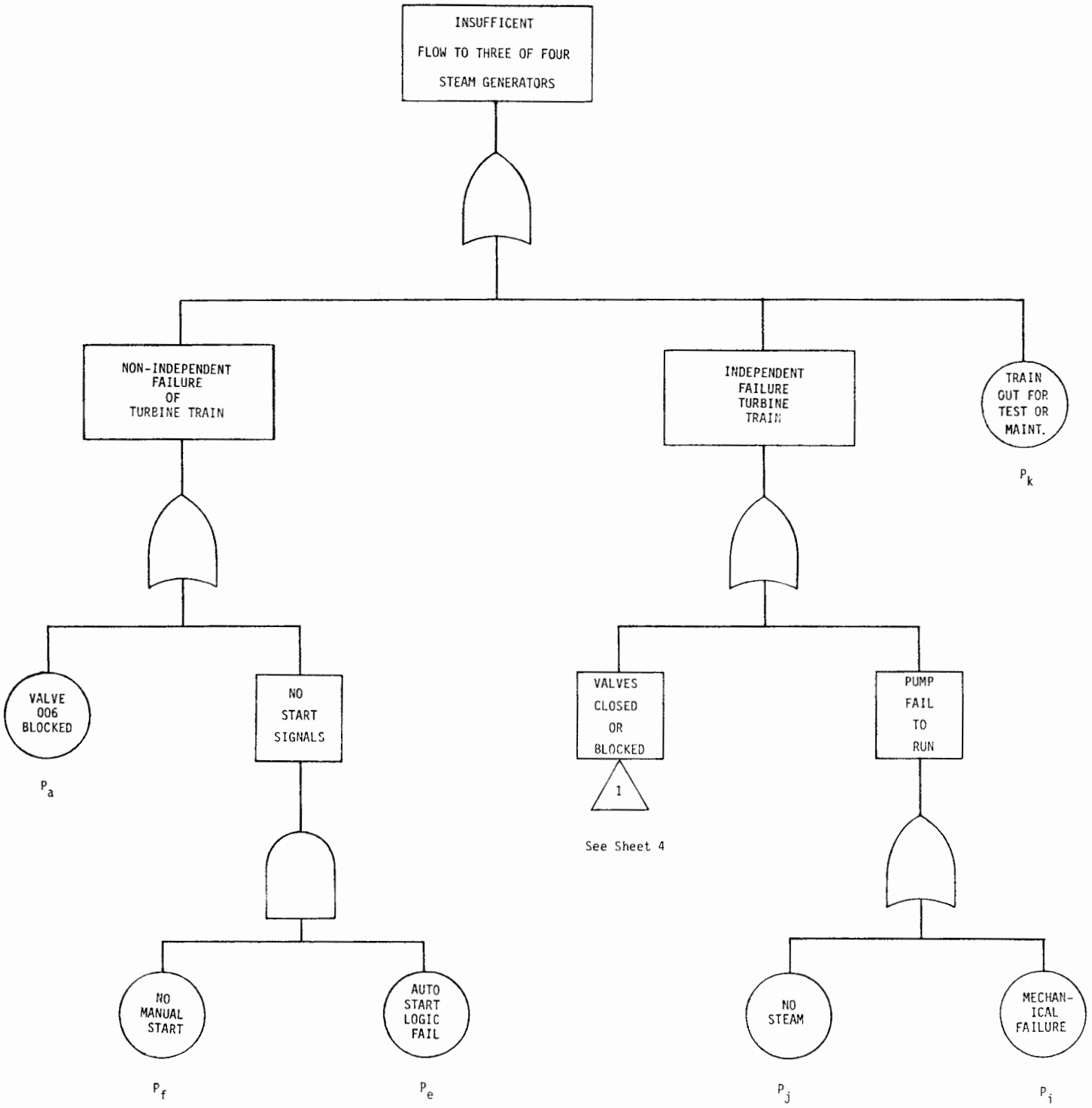
Values assigned to probabilities Pa thru Pr are shown on Table II.E.1.1-1.

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

AFWS Simplified Fault Tree
Loss of Offsite AC

FIGURE II.E.1.1-2 (Sheet 2 of 5)

JANUARY 30, 1981



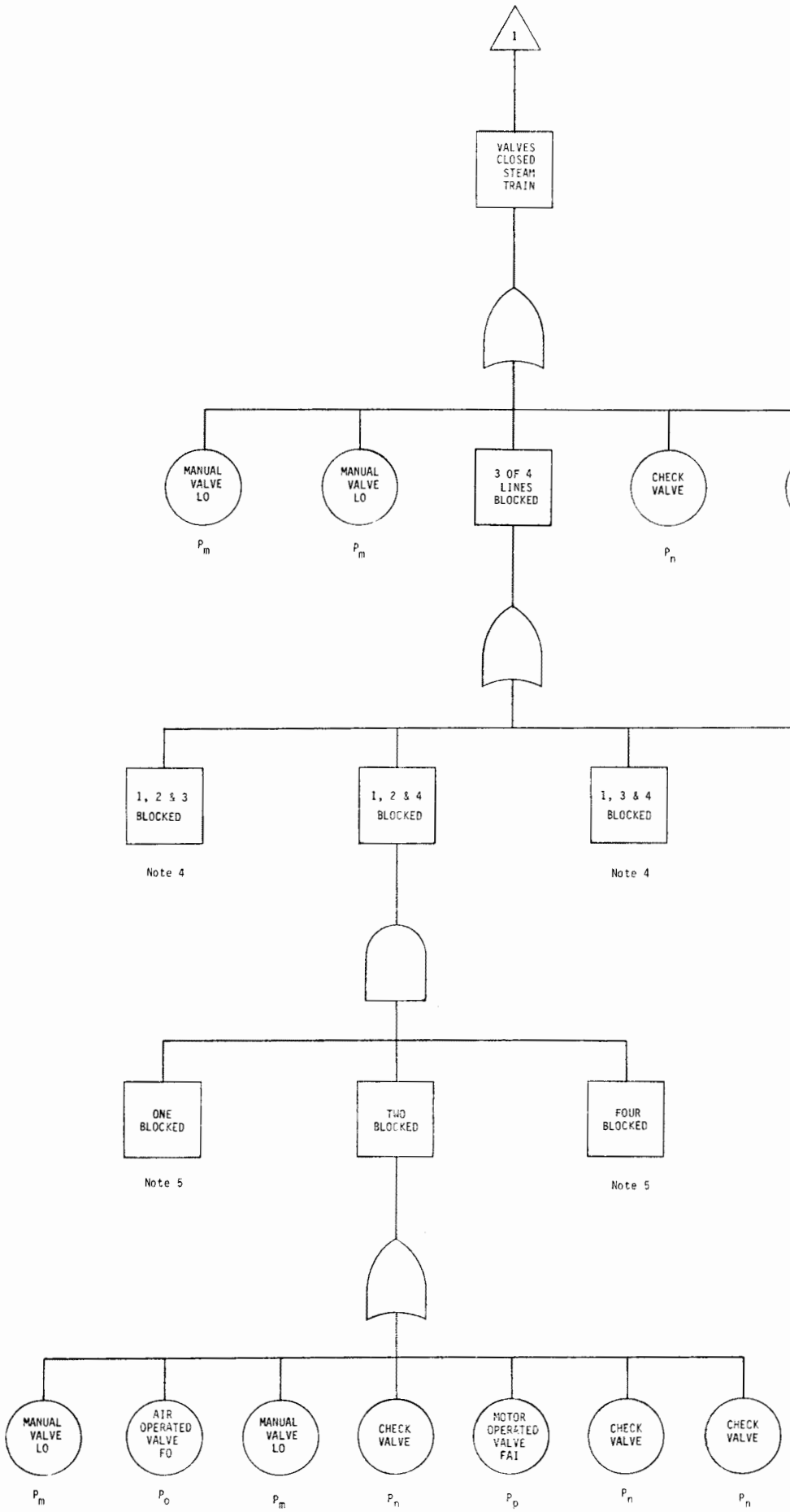
JANUARY 30, 1981

Values assigned to probabilities Pa thru Pr are shown on Table II.E.1.1-1.

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

AFWS Simplified Fault Tree
Loss of All AC

FIGURE I.E.1.1-2 (Sheet 3 of 5)



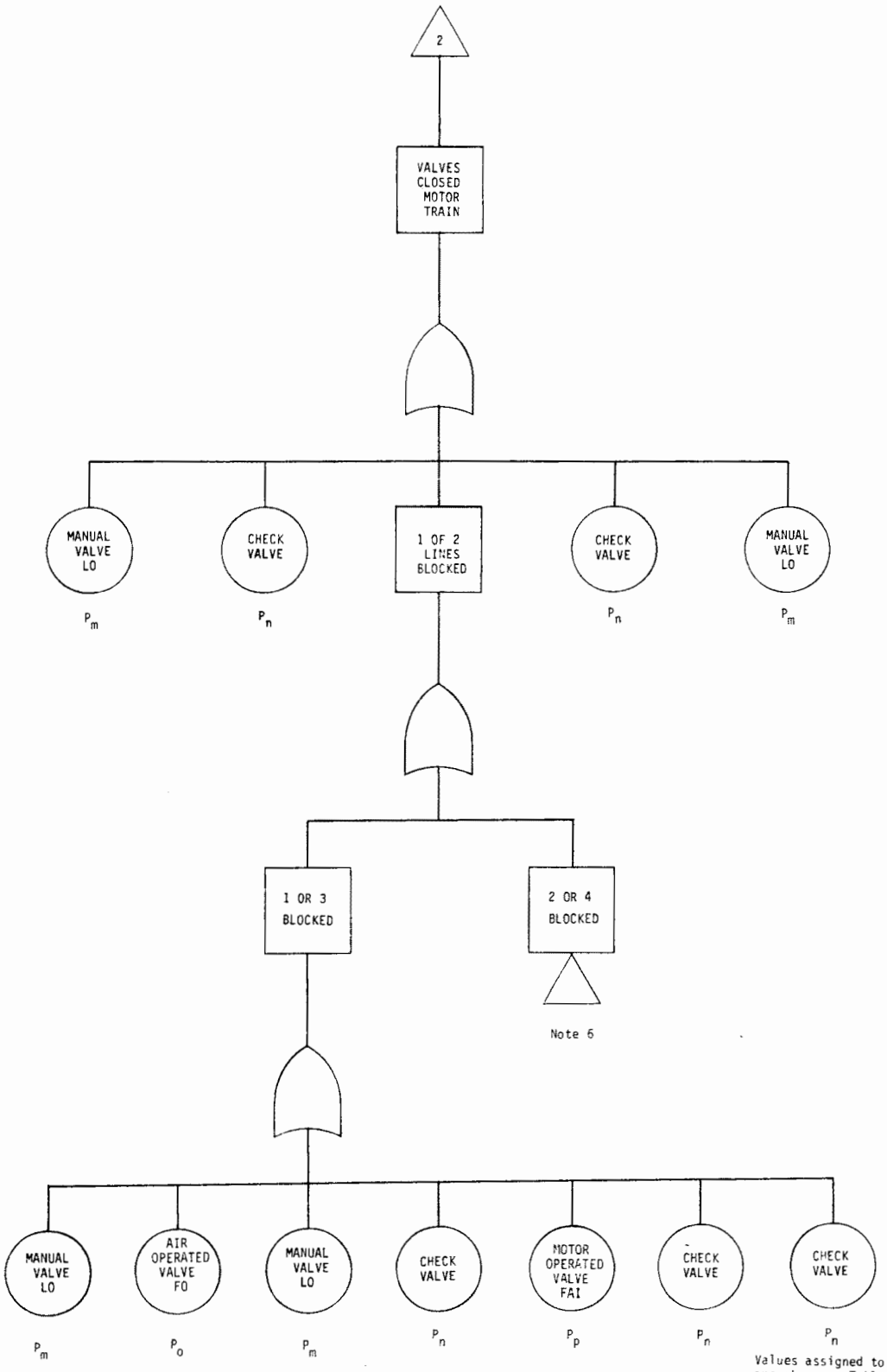
JANUARY 30, 1981

Values assigned to probabilities Pa thru Pr are shown on Table II.E.1.1-1.

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

AFWS Simplified Fault Tree

FIGURE II.E.1.1-2 (Sheet 4 of 5)



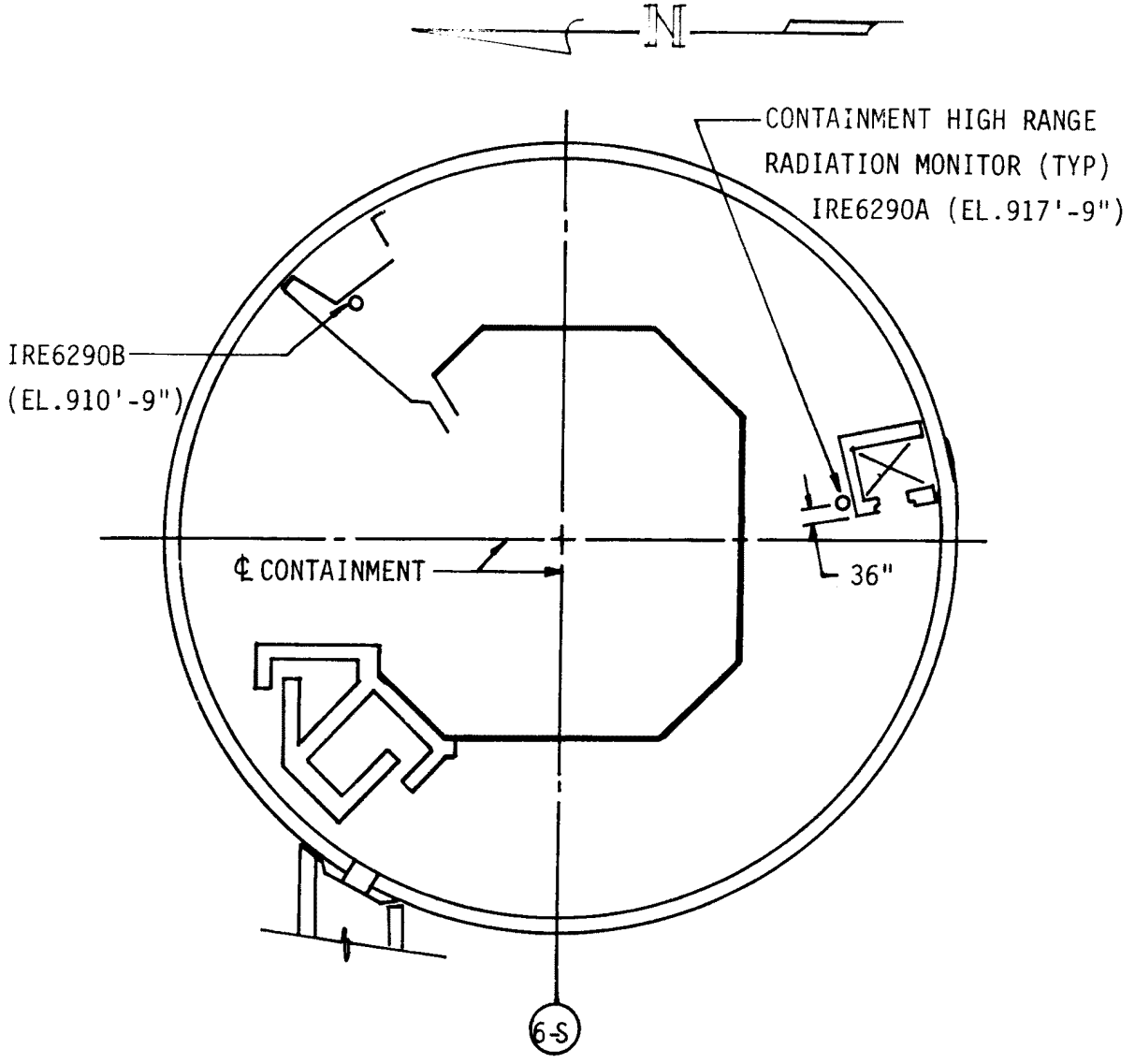
Values assigned to probabilities Pa thru Pr are shown on Table II.E.1.1-1.

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 and 2

AFWS Simplified Fault Tree

FIGURE II.E.1.1-2 (Sheet 5 of 5)

JANUARY 30, 1981



EL. 905'-9"

NOTE: UNIT 1 MONITORS SHOWN
SAME FOR UNIT 2

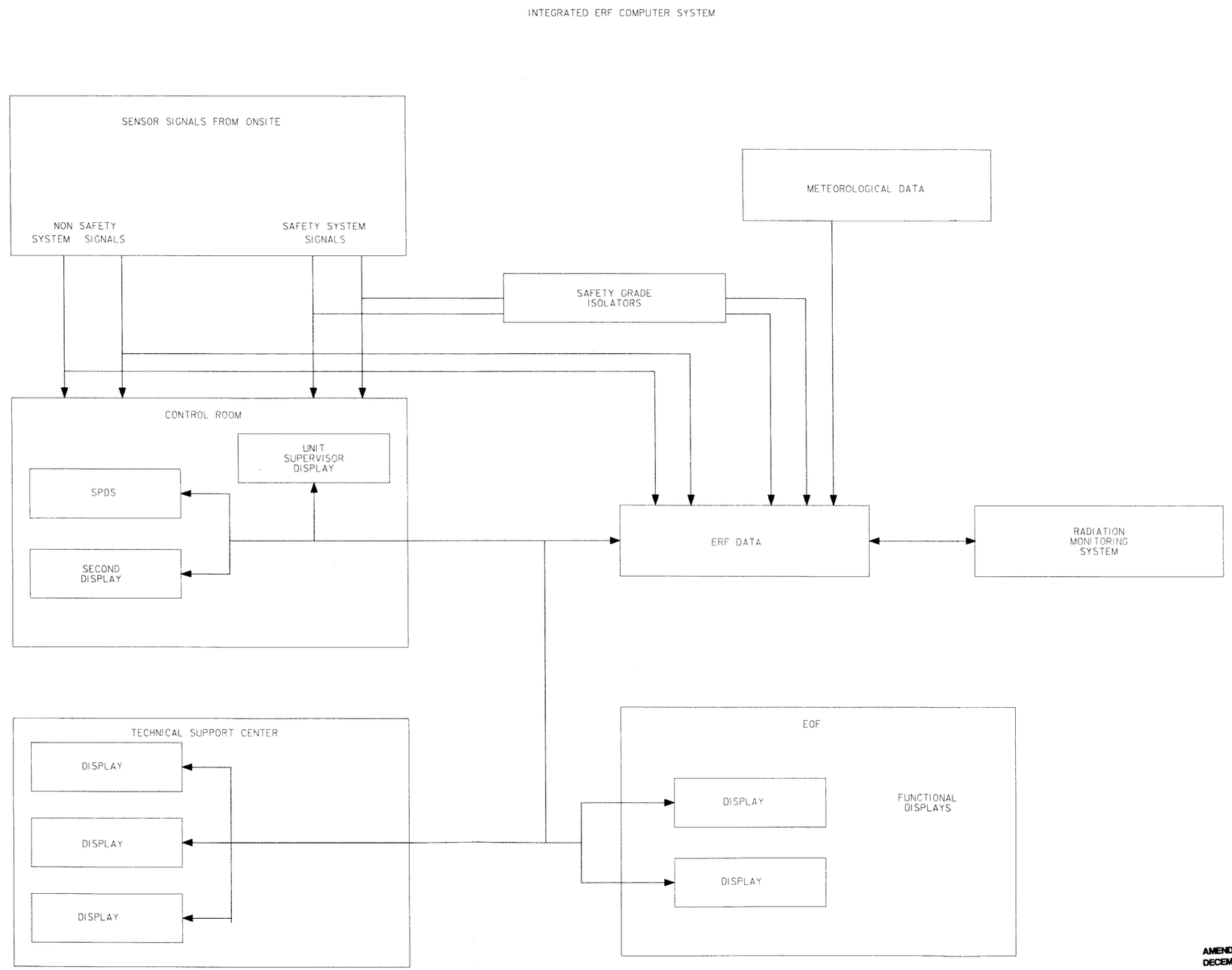
REFERENCE:

1. FSAR FIG. 1.2-15

DECEMBER 10, 1982

COMANCHE PEAK S.E.S. FINAL SAFETY ANALYSIS REPORT UNITS 1 and 2
CONTAINMENT HIGH RANGE RADIATION MONITOR LOCATIONS
FIGURE II.F - 1

Figure III.A.1.2-1 has been deleted | 95



AMENDMENT 83
DECEMBER 13, 1991

FIGURE GENERATED FOR FSAR ONLY
BASED ON DRAWING

COMANCHE PEAK S.E.S.
FINAL SAFETY ANALYSIS REPORT
UNITS 1 AND 2

INTEGRATED ERF
COMPUTER SYSTEM

FIGURE III.A.1.2-2

FIG03A122.DGN

Figure III.A.1.2-3 has been deleted | 95

Figure III.A.1.2-4 has been deleted 95

Notes to Figure II.E.1.1-2

NOTE 1 - The Motor trains are identical a failure probability of 1×10^{-1} is assigned to Train B using coupling.

NOTE 2 - The Turbine Train out for test or maintainence is the most conservative case, so the failure probability is the same as Train A.

NOTE 3 - Train B failure probability is the same as Train A.

NOTE 4 - The probability of any three steam generators being blocked is the same as steam generators 1, 2, and 4 being blocked.

NOTE 5 - Since the valve alignment for each steam generator is the same a failure probability of 1×10^{-1} is assigned using coupling.

NOTE 6 - The probability of steam generator 2 being blocked is the same as that for steam generator 1.