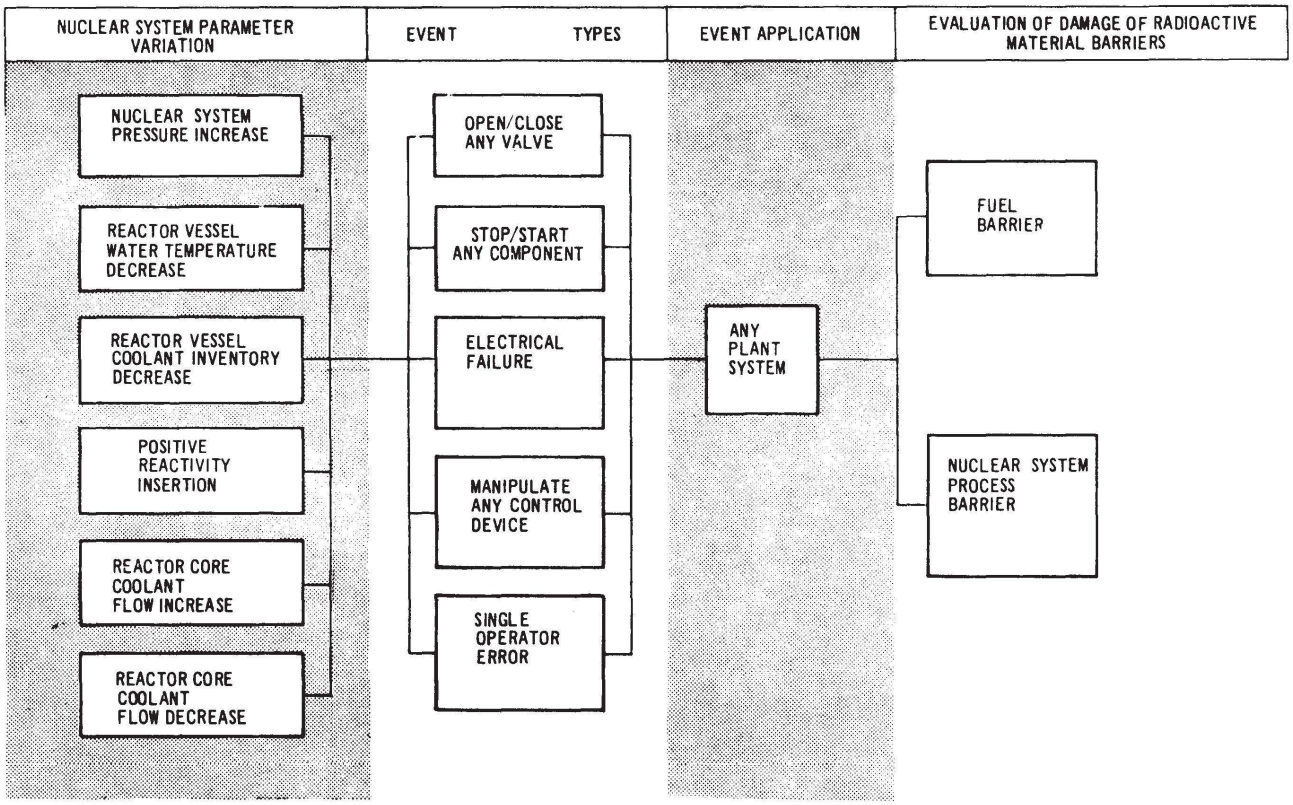


PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

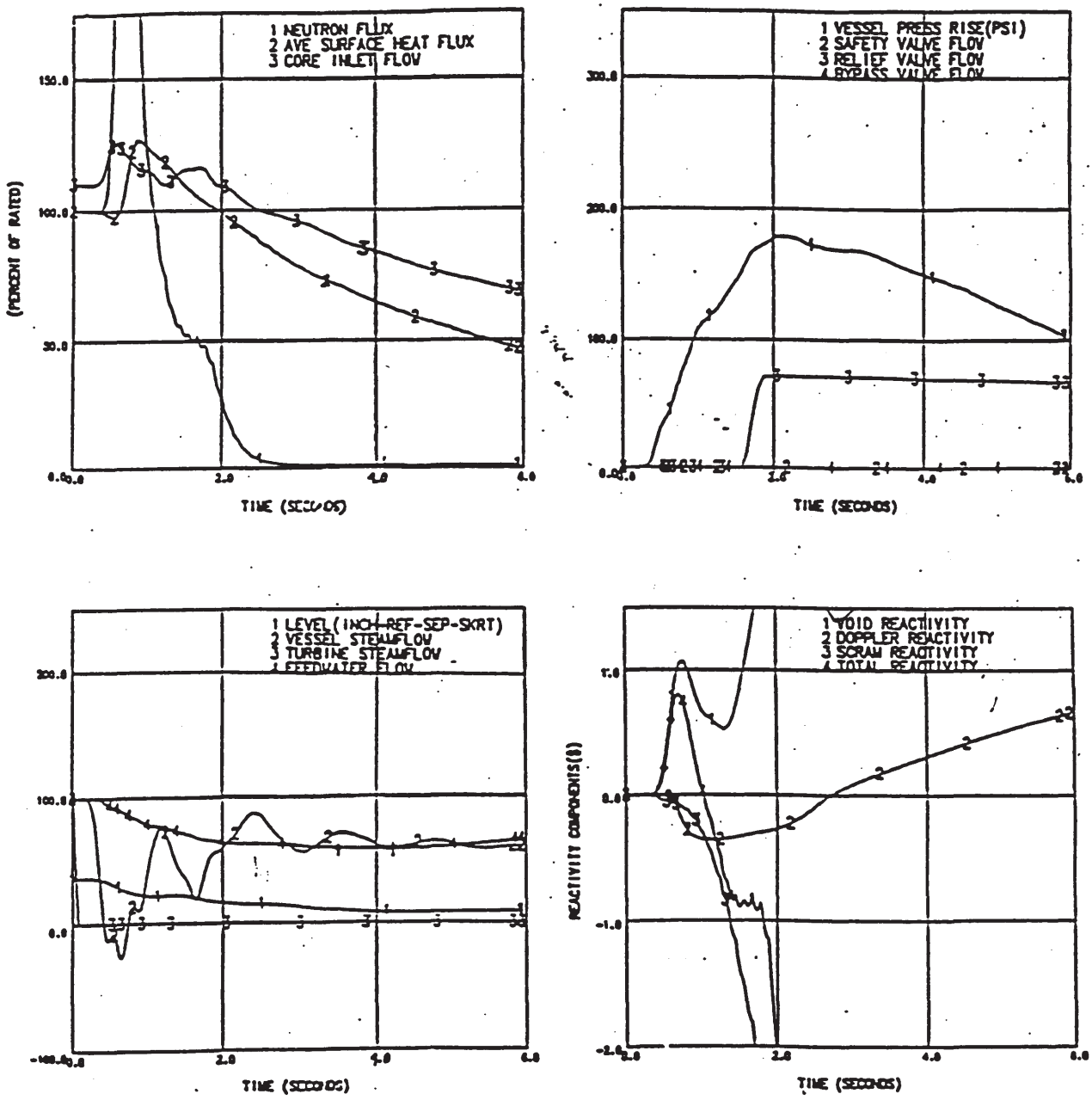
PLANT SAFETY ANALYSIS METHOD FOR IDENTIFYING AND EVALUATING ABNORMAL OPERATIONAL TRANSIENTS

FIGURE 14.4.1

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

PLANT SAFETY ANALYSIS METHOD FOR IDENTIFYING AND EVALUATING ACCIDENTS

FIGURE 14.4.2



PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

Unit 3

TRANSIENT RESULTS
ELECTRICAL GENERATOR LOAD
REJECTION WITHOUT BYPASS

FIGURE 14.5.1A

Rev. 25 04/15

FIGURE 14.5.1AA

PEACH BOTTOM, UNIT 2

UFSAR Figure 14.5.1AA for Unit 2 is represented by Figure 3-6, *"Peach Bottom Response to LRNBP,"* from GEH Document 0000-0100-9751-R0 Task Report T0900, Page 3-44, as provided in support of the Peach Bottom, Units 2 and 3, Extended Power Update License Amendment Request dated September 28, 2012, as approved by the NRC on August 25, 2014 (Amendment Nos. 293/296).

The information provided in the referenced figure is GEH *Proprietary Information*

FIGURE 14.5.1B

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UFSAR Figure 14.5.1B is presented by Figure 1, "Plant Response to MSIV Closure (Direct SCRAM) – ICF (HBB) – Nominal Inputs," from GEH Document 002N5709-R0), "Peach Bottom 3 Cycle 21 Spring Safety Valve Lift Margin Evaluation," April 15, 2015.

The information provided in the referenced figure is GEH Proprietary Information.

FIGURE 14.5.1BB

PEACH BOTTOM, UNIT 2

UFSAR Figure 14.5.1AA for Unit 2 is represented by Figure 3-7, *"Peach Bottom Response to TTNBP,"* from GEH Document 0000-0100-9751-R0 Task Report T0900, Page 3-45, as provided in support of the Peach Bottom, Units 2 and 3, Extended Power Update License Amendment Request dated September 28, 2012, as approved by the NRC on August 25, 2014 (Amendment Nos. 293/296).

The information provided in the referenced figure is GEH *Proprietary Information*

Figure 14.5.2

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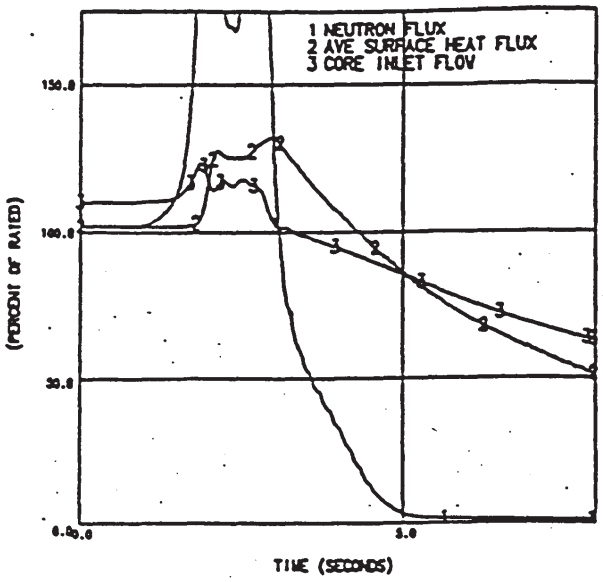

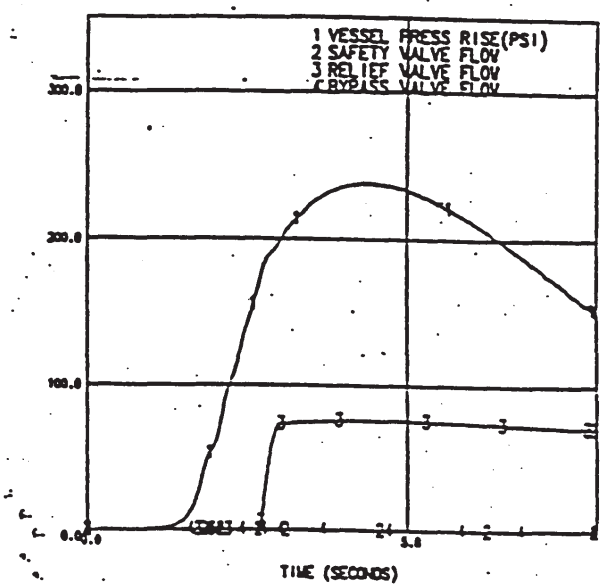

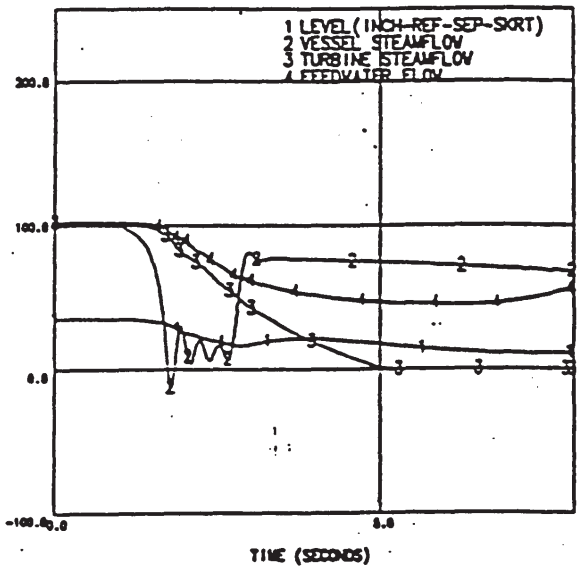

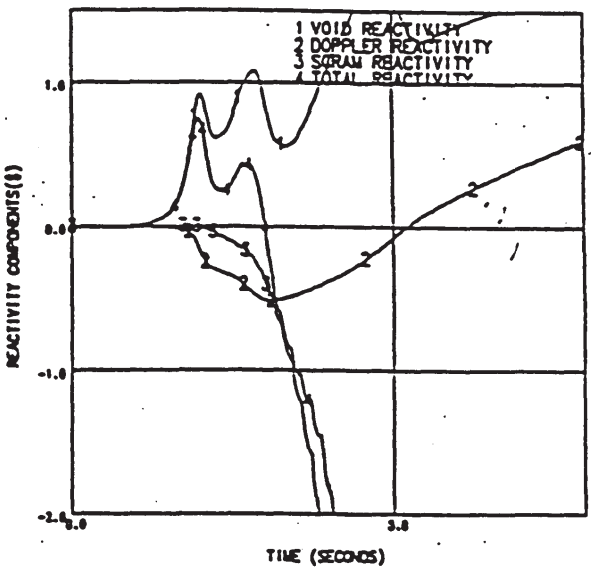

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

Unit 3

TRANSIENT RESULTS -
CLOSURE OF ALL MAIN
STEAM ISOLATION VALVES

FIGURE 14.5.3

Rev. 25 04/15

FIGURE 14.5.3A

PEACH BOTTOM, UNIT 2

UFSAR Figure 14.5.3A for Unit 2 is represented by Figure 2.8-23, *"Response to MSIV Closure with Flux Scram,"* from GEH Document NEDC-33566P, Revision 0, Page 2-470 (as noted in PUSAR Section 2.2.4.2, Page 2-383), as provided in support of the Peach Bottom, Units 2 and 3, Extended Power Update License Amendment Request dated September 28, 2012, as approved by the NRC on August 25, 2014 (Amendment Nos. 293/296).

The information provided in the referenced figure is GEH *Proprietary Information*

FIGURE 14.5.3B

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FIGURE 14.5.4

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FIGURE 14.5.4A

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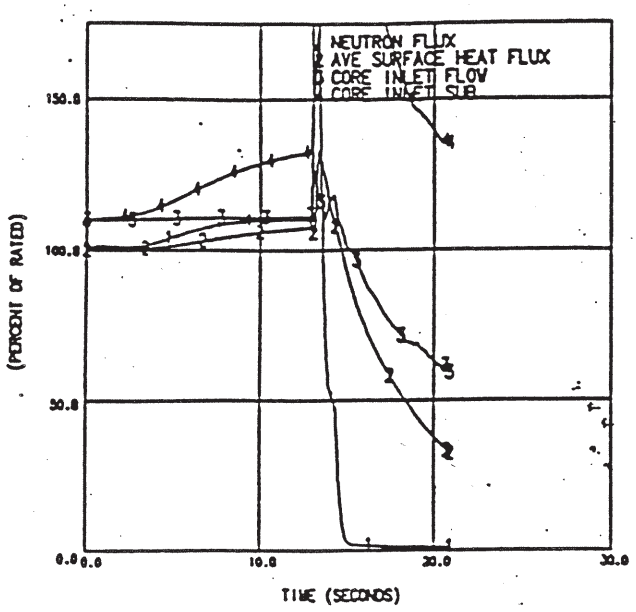

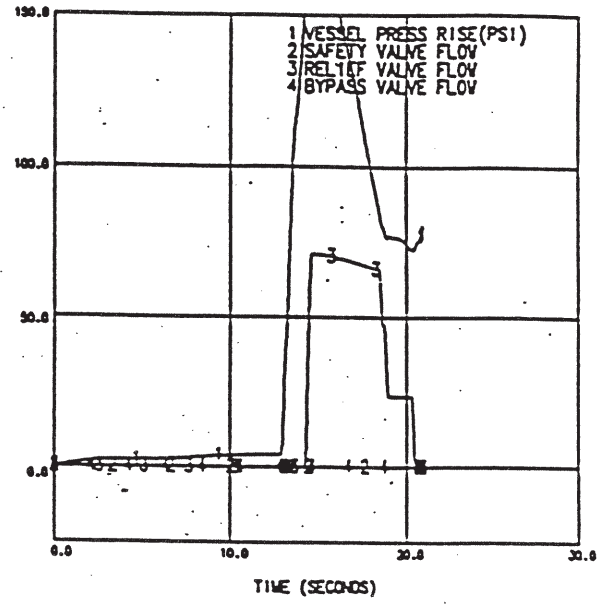

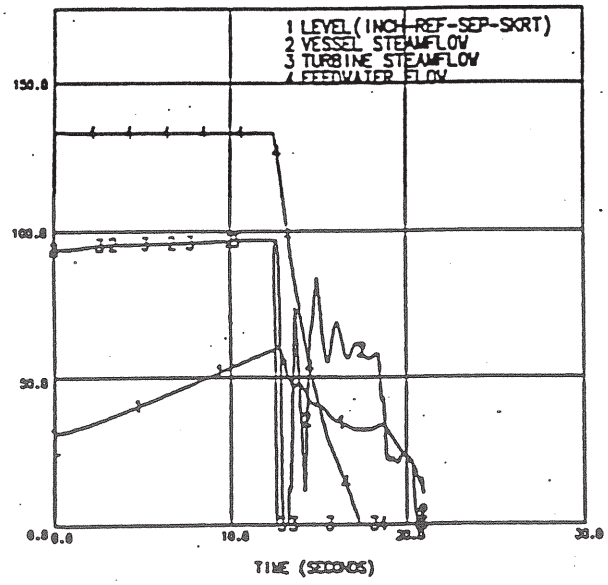

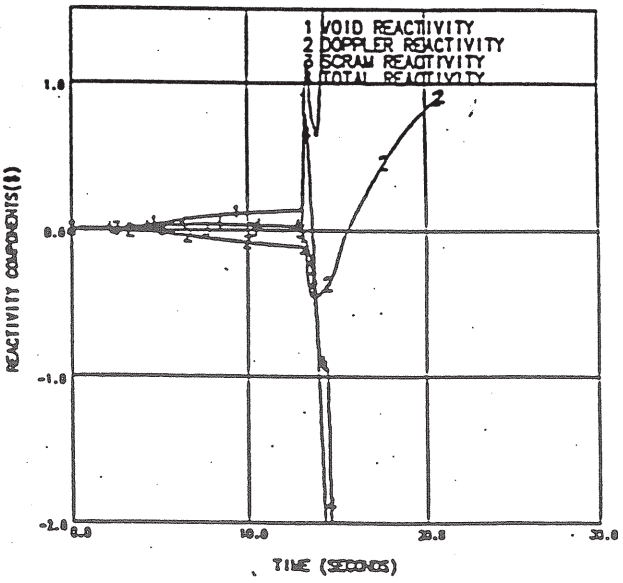

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

Unit 3

TRANSIENT RESULTS -
FEEDWATER CONTROLLER
FAILURE, MAXIMUM DEMAND

FIGURE 14.5.5 Rev. 25 04/15

FIGURE 14.5.5A

PEACH BOTTOM, UNIT 2

UFSAR Figure 14.5.5A for Unit 2 is represented by Figure 3-5, *"Peach Bottom Response to FWCU,"* from GEH Document 0000-0100-9751-R0 Task Report T0900, Page 3-43, as provided in support of the Peach Bottom, Units 2 and 3, Extended Power Update License Amendment Request dated September 28, 2012, as approved by the NRC on August 25, 2014 (Amendment Nos. 293/296).

The information provided in the referenced figure is GEH *Proprietary Information*

Figure 14.5.6

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Figure 14.5.7A thru 14.5.7B

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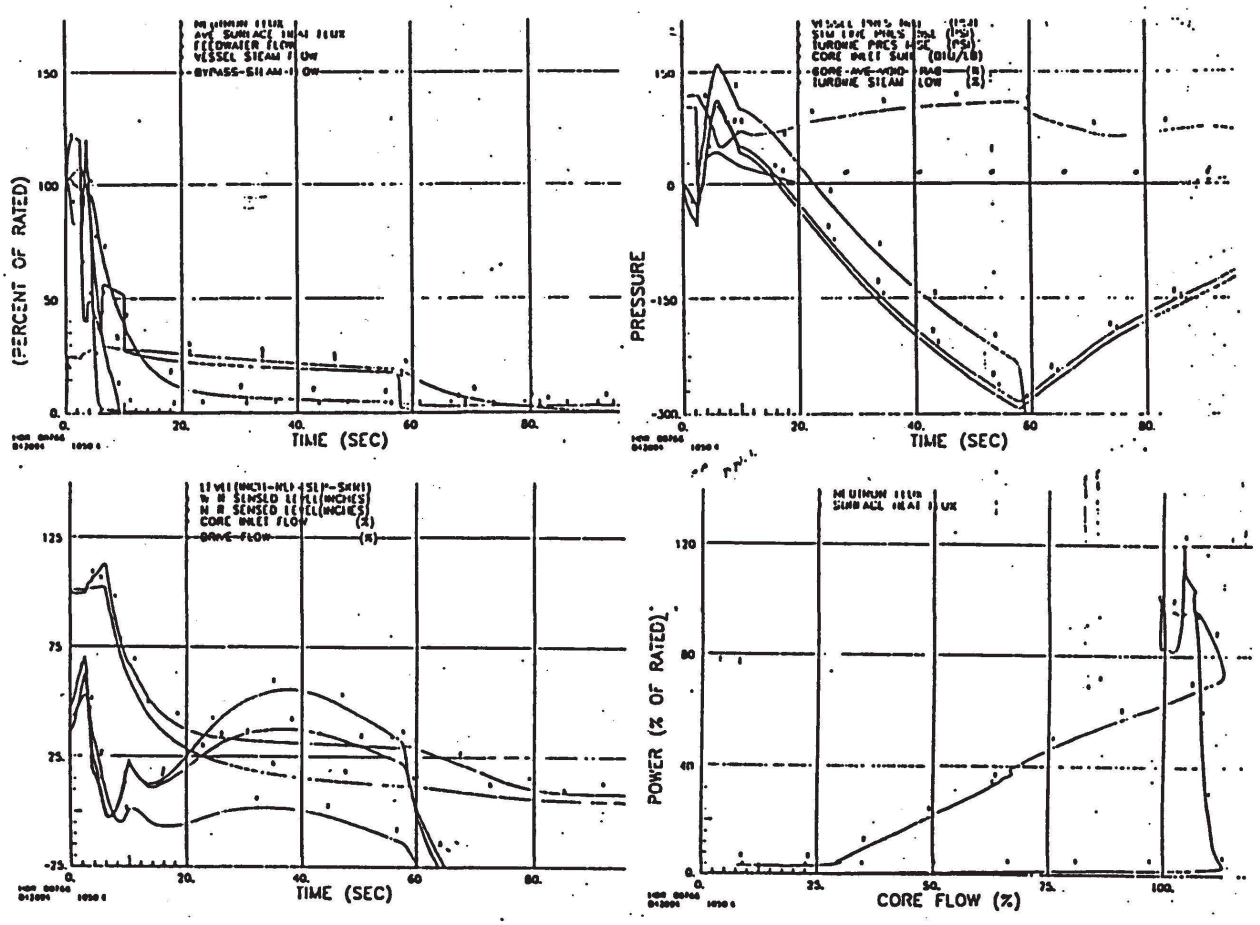
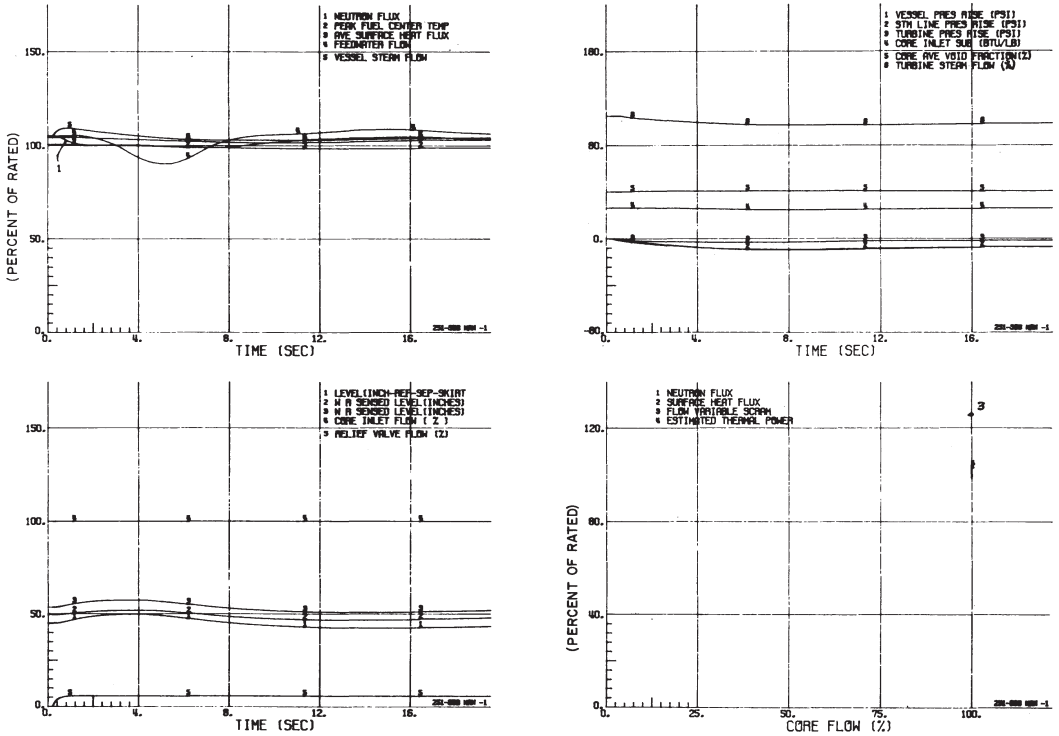


PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

TRANSIENT RESULTS -
PRESSURE REGULATOR
FAILURE - OPEN

FIGURE 14.5.8 REV. 13 01/95



Note: Historical for Unit 2

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

Unit 3

TRANSIENT RESULTS – INADVERTENT OPENING OF A RELIEF VALVE OR SAFETY VALVE

FIGURE 14.5.9 Rev. 25 04/15

FIGURE 14.5.10

PEACH BOTTOM, UNIT 2

UFSAR Figure 14.5.10 for Unit 2 is represented by Figure 2.8-24, *"Loss of Feedwater Flow,"* from GEH Document NEDC-33566P, Revision 0, Page 2-471 (noted in PUSAR), as provided in support of the Peach Bottom, Units 2 and 3, Extended Power Update License Amendment Request dated September 28, 2012, as approved by the NRC on August 25, 2014 (Amendment Nos. 293/296).

The information provided in the referenced figure is GEH *Proprietary Information*

Figures 14.5.11A thru 14.5.11C

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Figures 14.5.12a through 14.5.13

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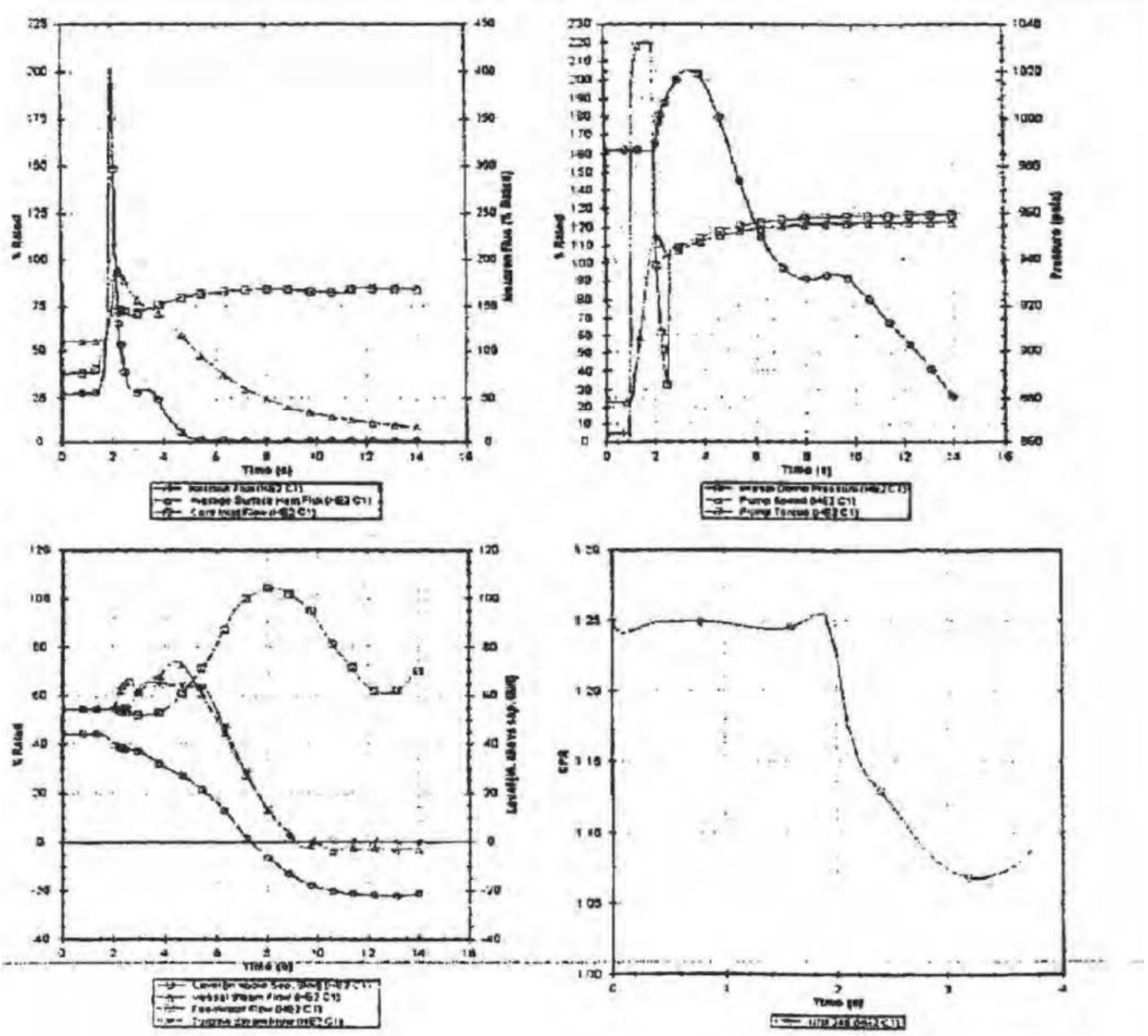

PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3

TRANSIENT RESULTS
Single Recirculation Flow Controller Failure
Increasing Flow

FIGURE 14.5.14 **REV. 26 04/17**

Figures 14.5.15 through 14.5.19

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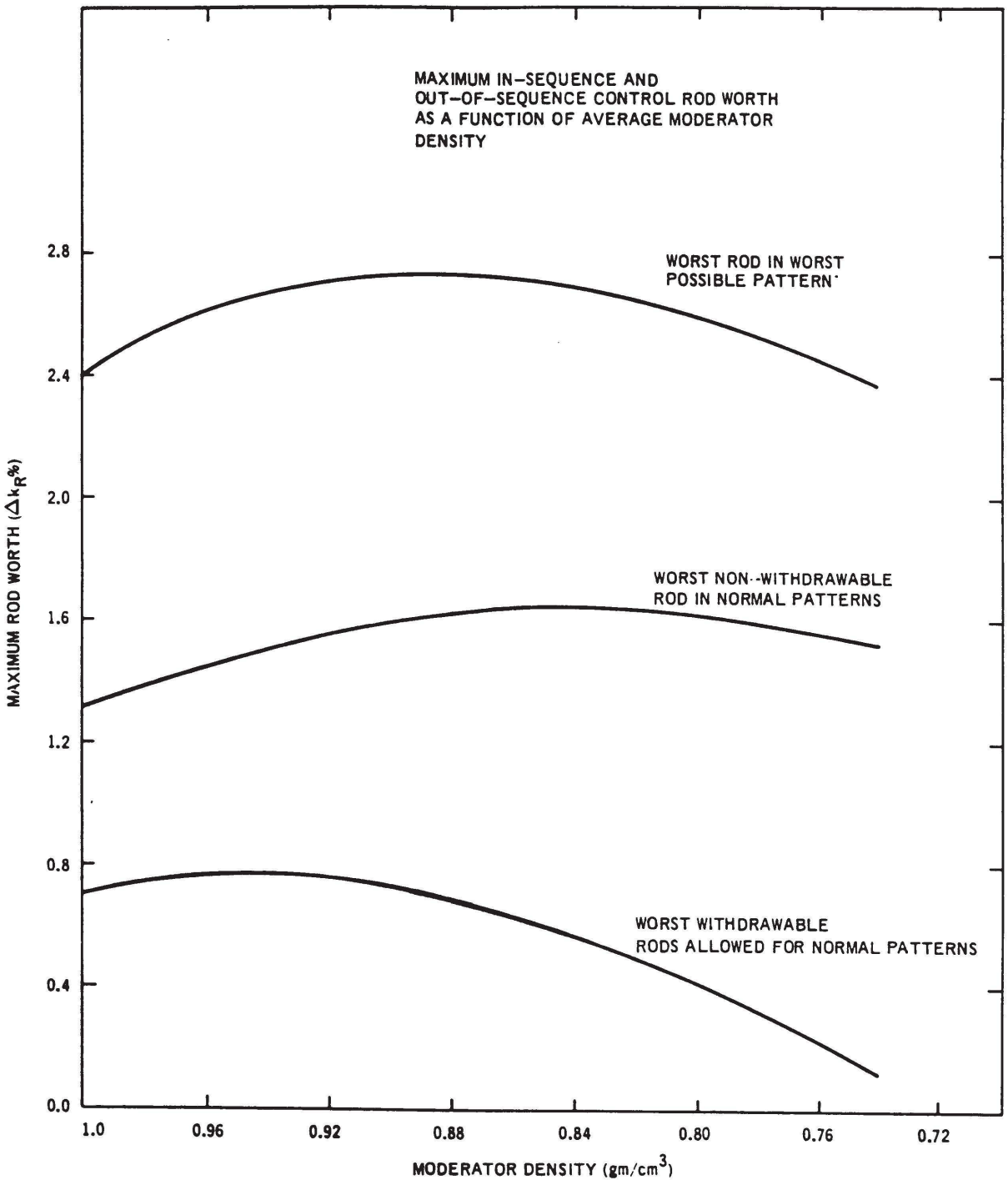
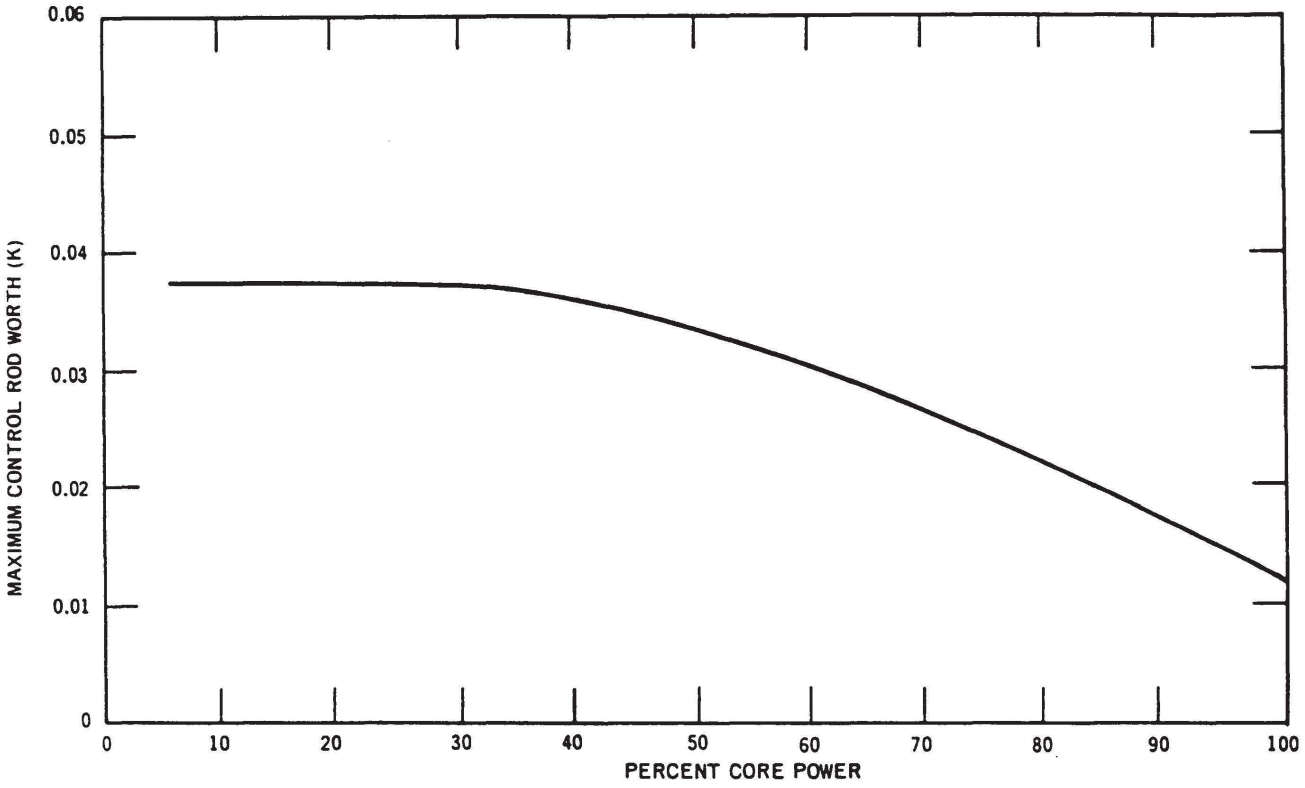


NOTE: Historical Information not accurate for current plant conditions

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

MAXIMUM ROD WORTH VERSUS MODERATOR DENSITY

FIGURE 14.6.1 REV. 13 01/95

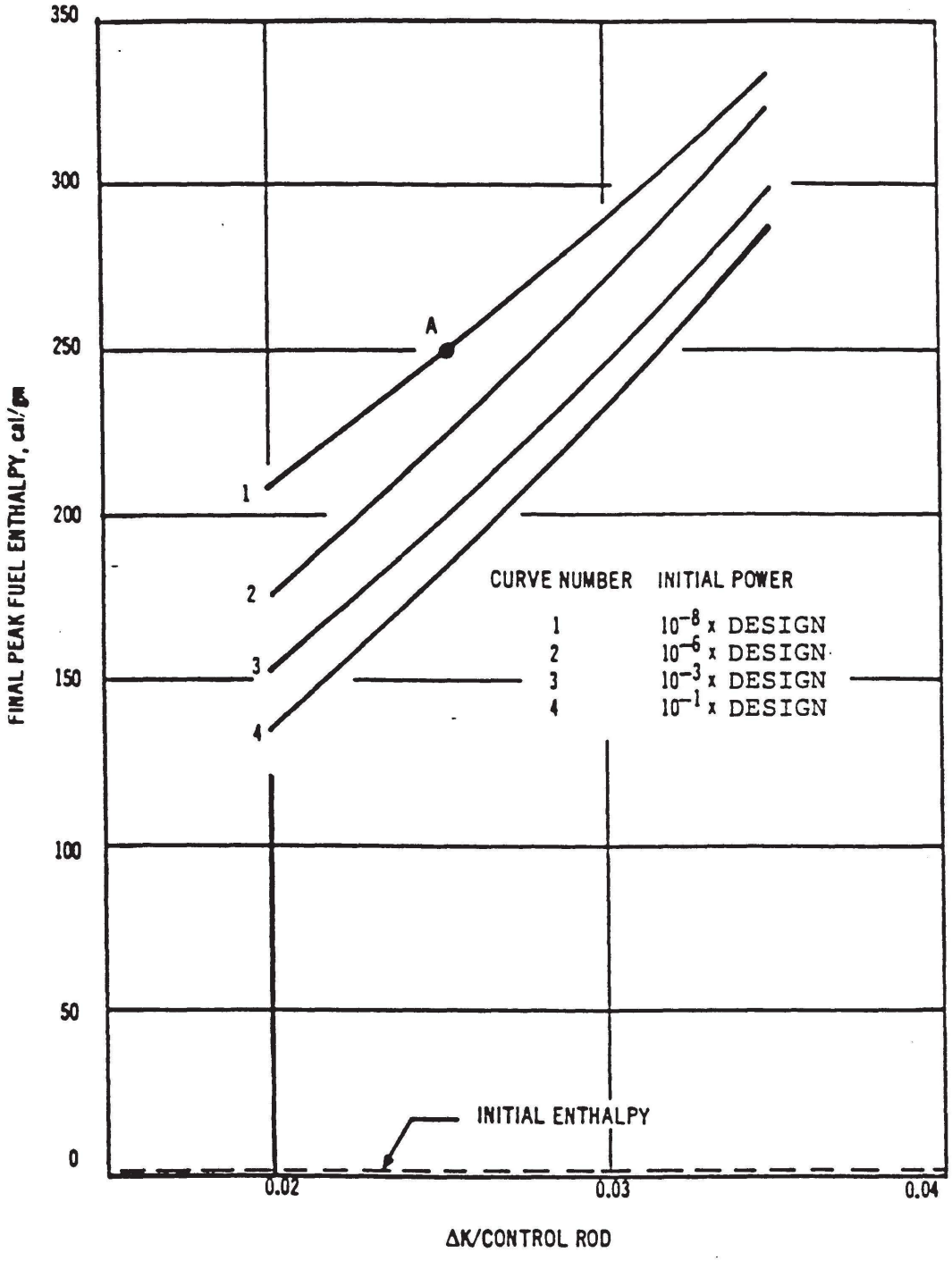


NOTE: Historical Information not accurate for current plant conditions

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

CONTROL ROD WORTH AS A FUNCTION OF CORE POWER

FIGURE 14.6.2 REV. 13 01/95

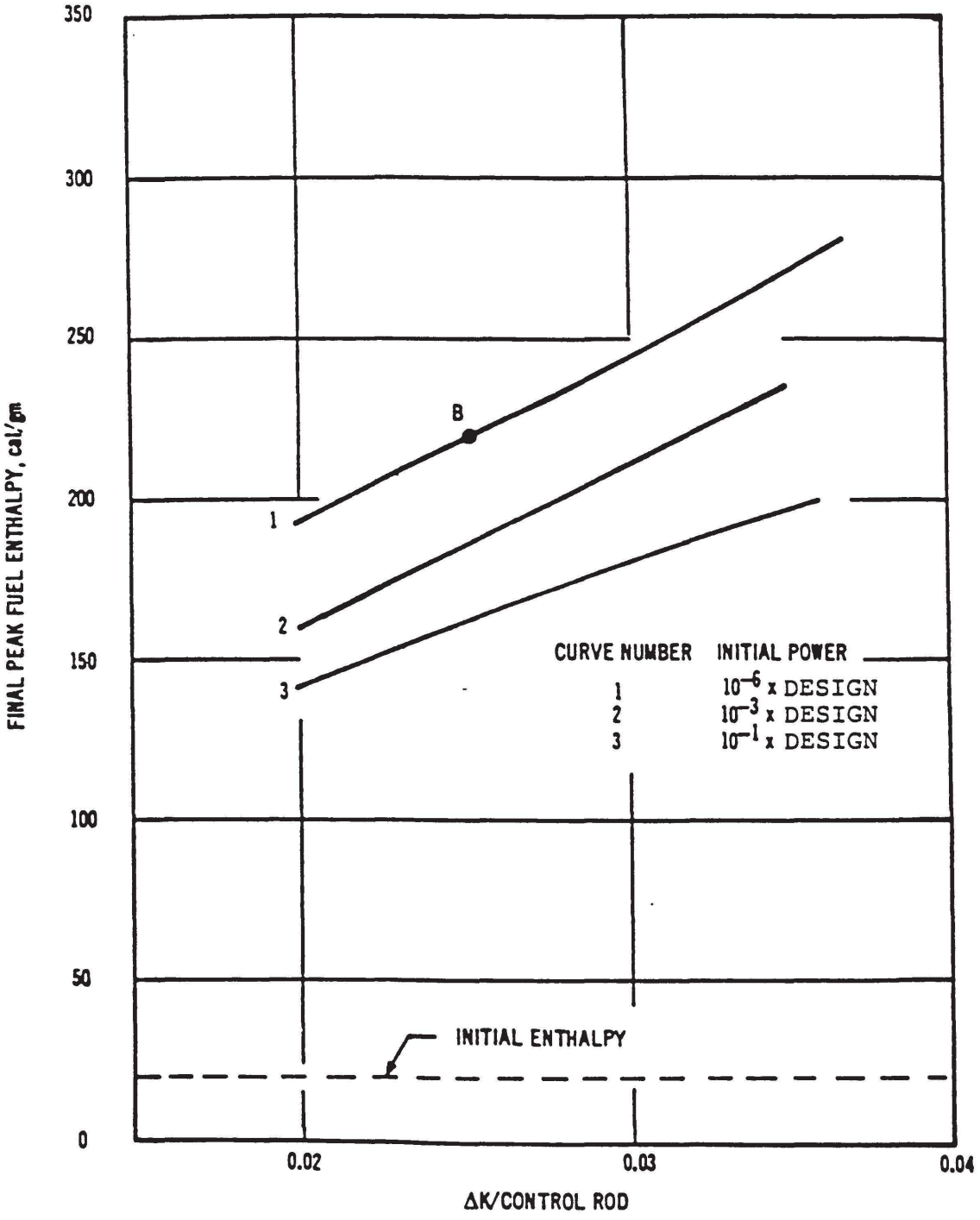


NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

ROD DROP ACCIDENT (COLD, CRITICAL)
PEAK FUEL ENTHALPY

FIGURE 14.6.3 REV. 14 05/97

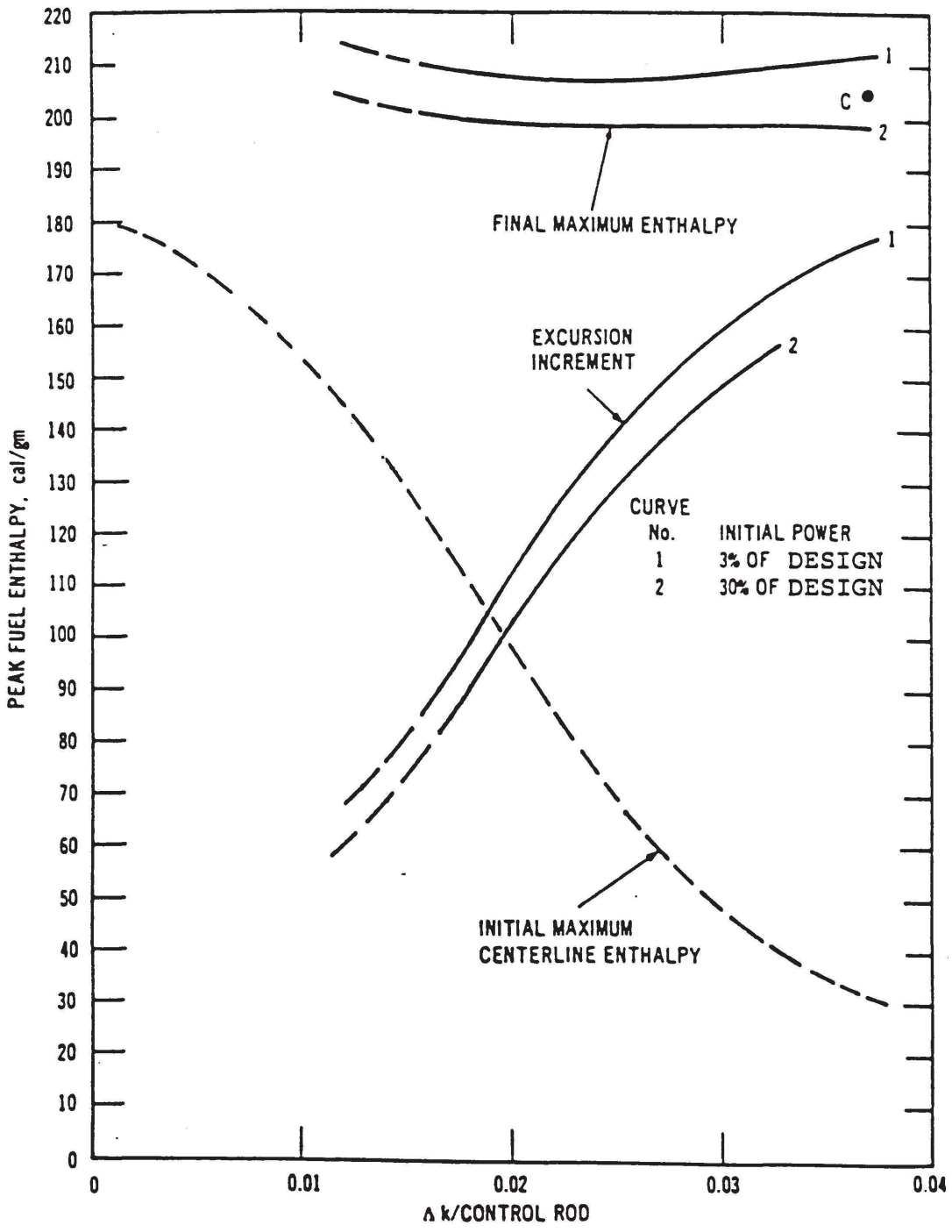


NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

ROD DROP ACCIDENT (HOT, CRITICAL)
PEAK FUEL ENTHALPY

FIGURE 14.6.4 REV. 14 05/97

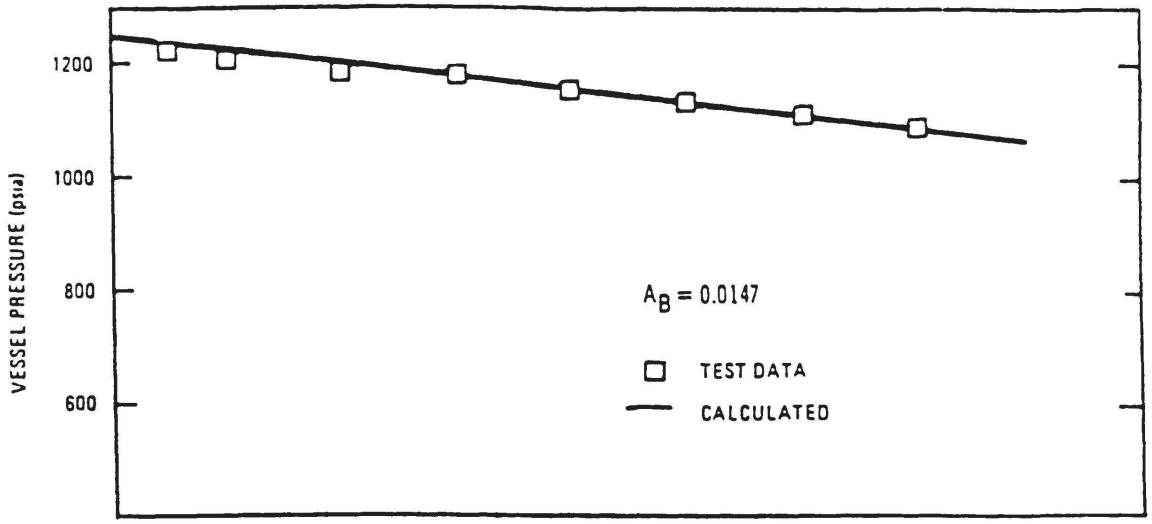


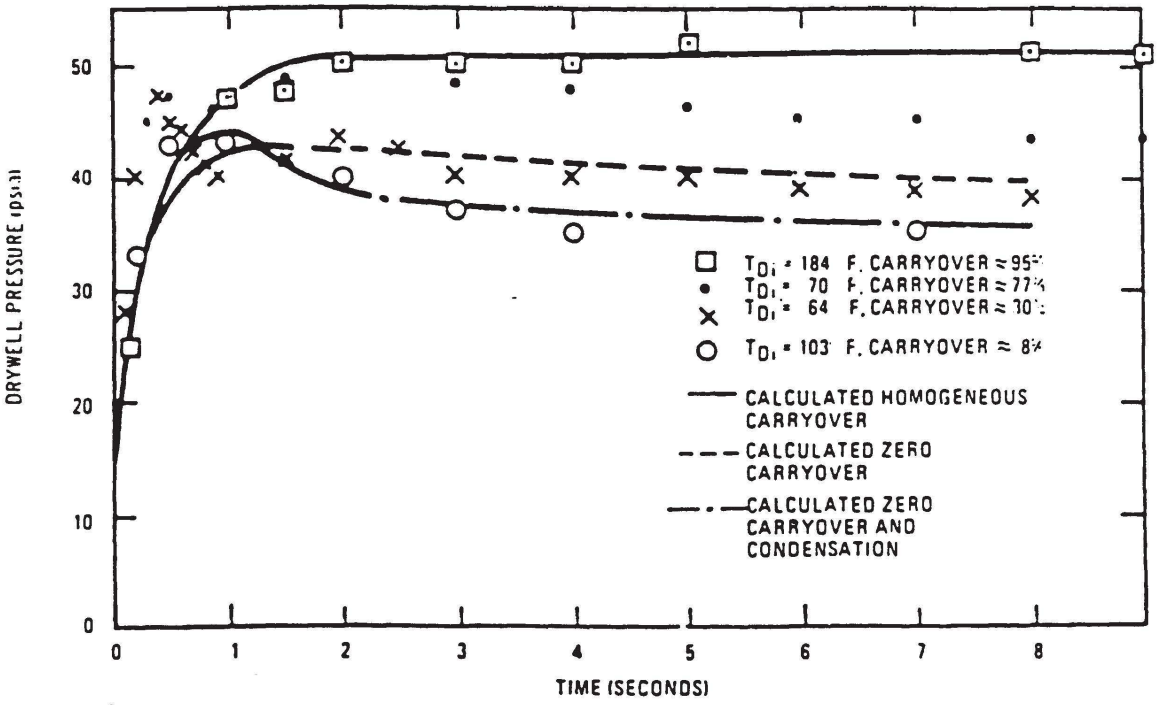
NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

ROD DROP ACCIDENT (POWER RANGE)
PEAK FUEL ENTHALPY

FIGURE 14.6.5 REV. 14 05/97





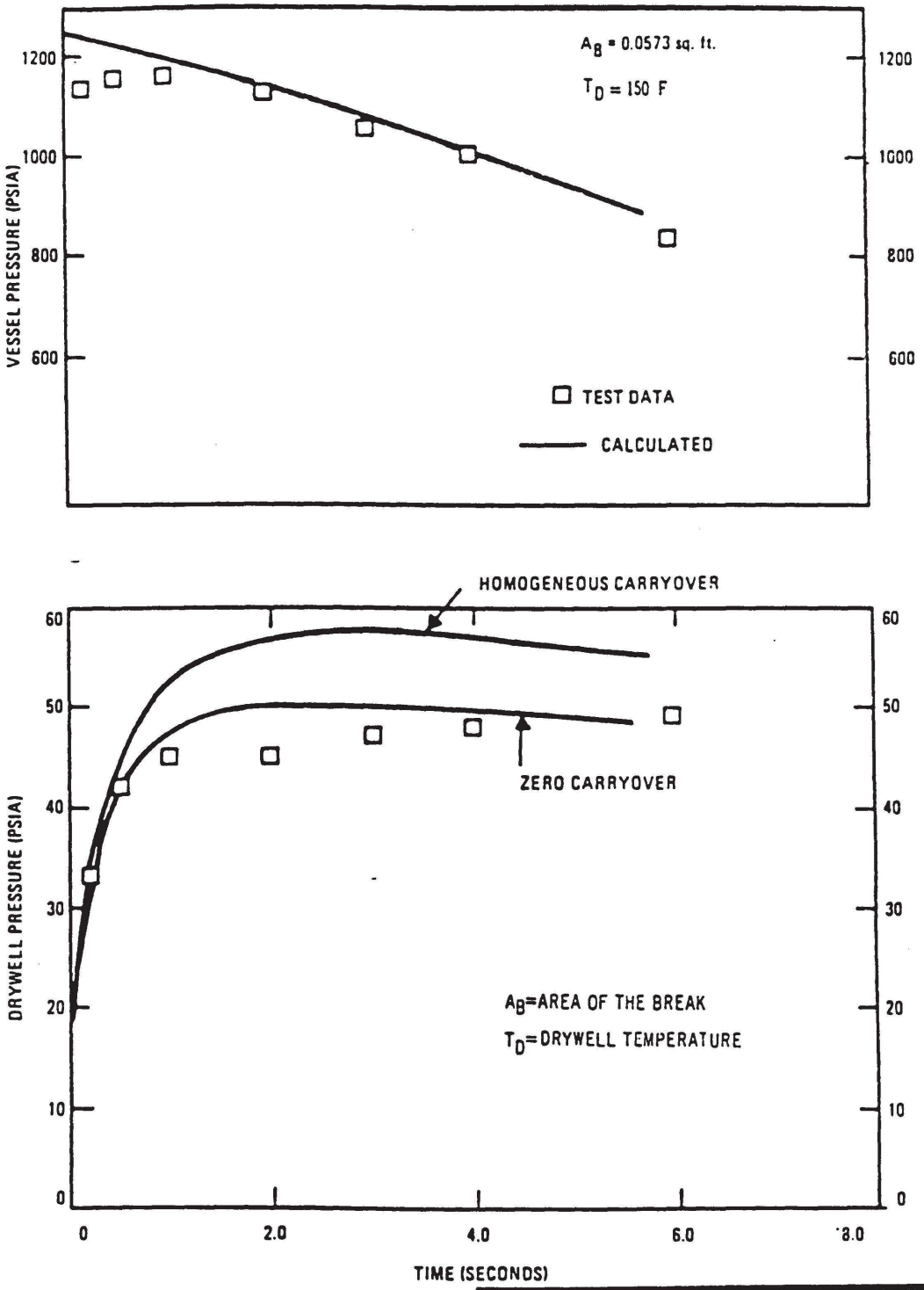
A_B = AREA OF THE BREAK

T_D = INITIAL DRYWELL TEMPERATURE

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

LOCA – HUMBOLDT PRIMARY CONTAINMENT PRESSURE RESPONSE

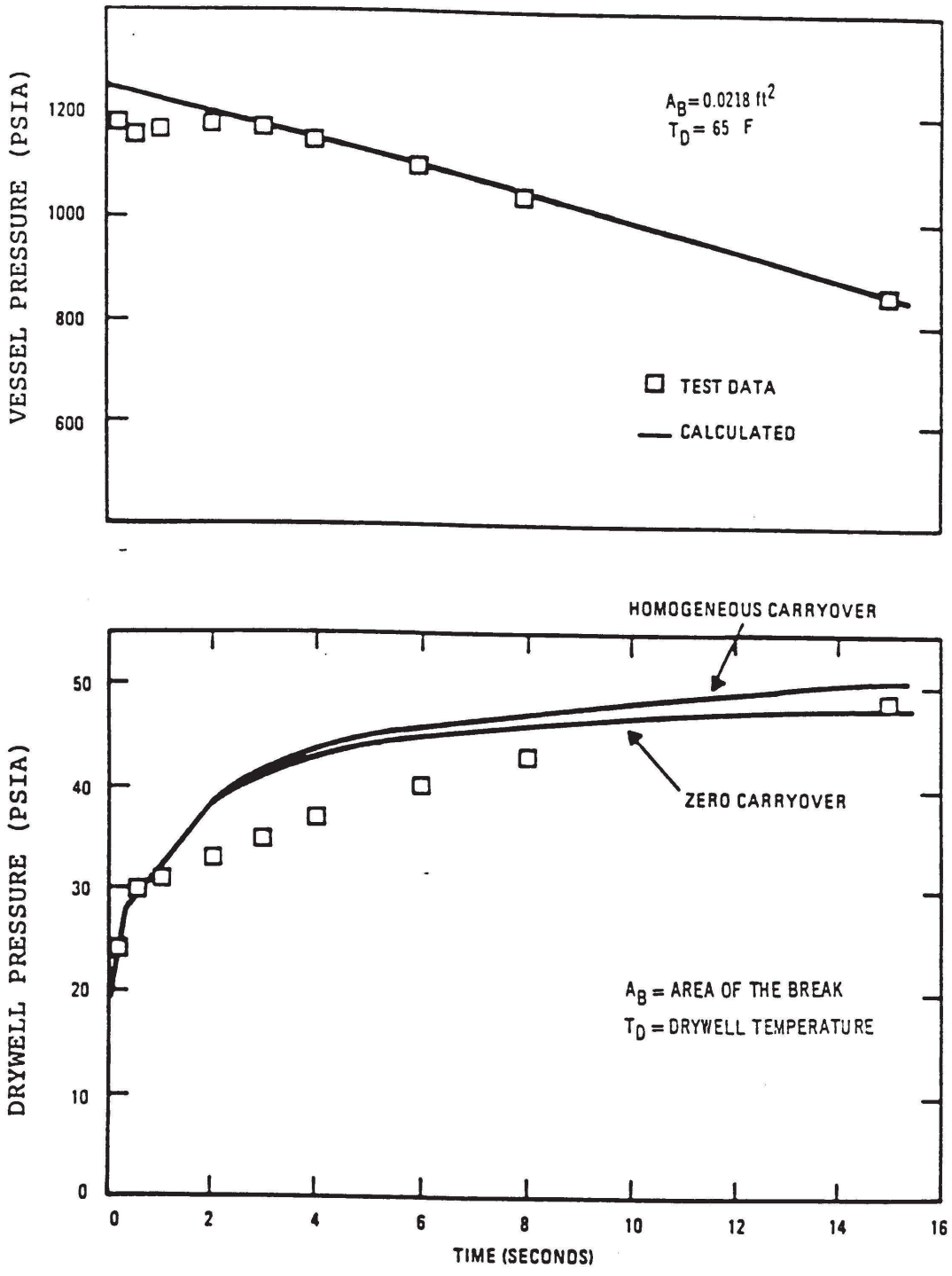
FIGURE 14.6.6 REV. 14 05/97



PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

LOCA – BODEGA BAY
PRIMARY CONTAINMENT PRESSURE
RESPONSE

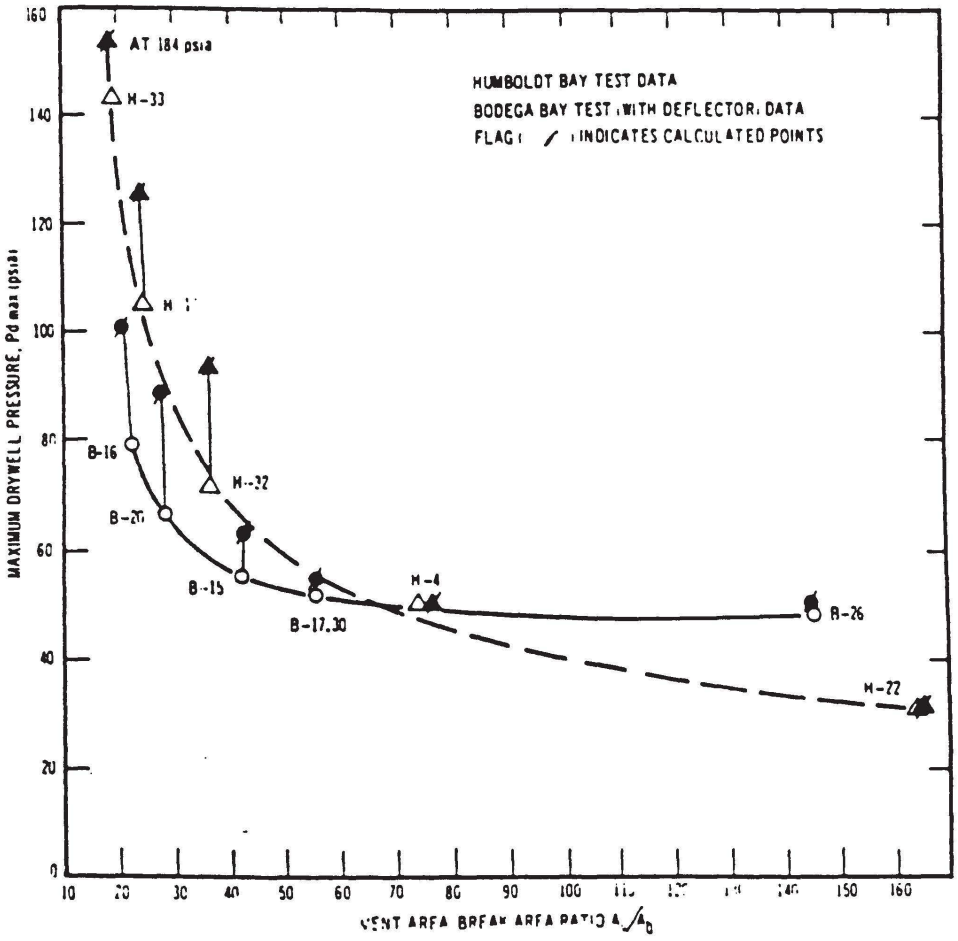
FIGURE 14.6.7 REV. 14 05/97



PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

LOCA – BODEGA BAY
PRIMARY CONTAINMENT PRESSURE
RESPONSE

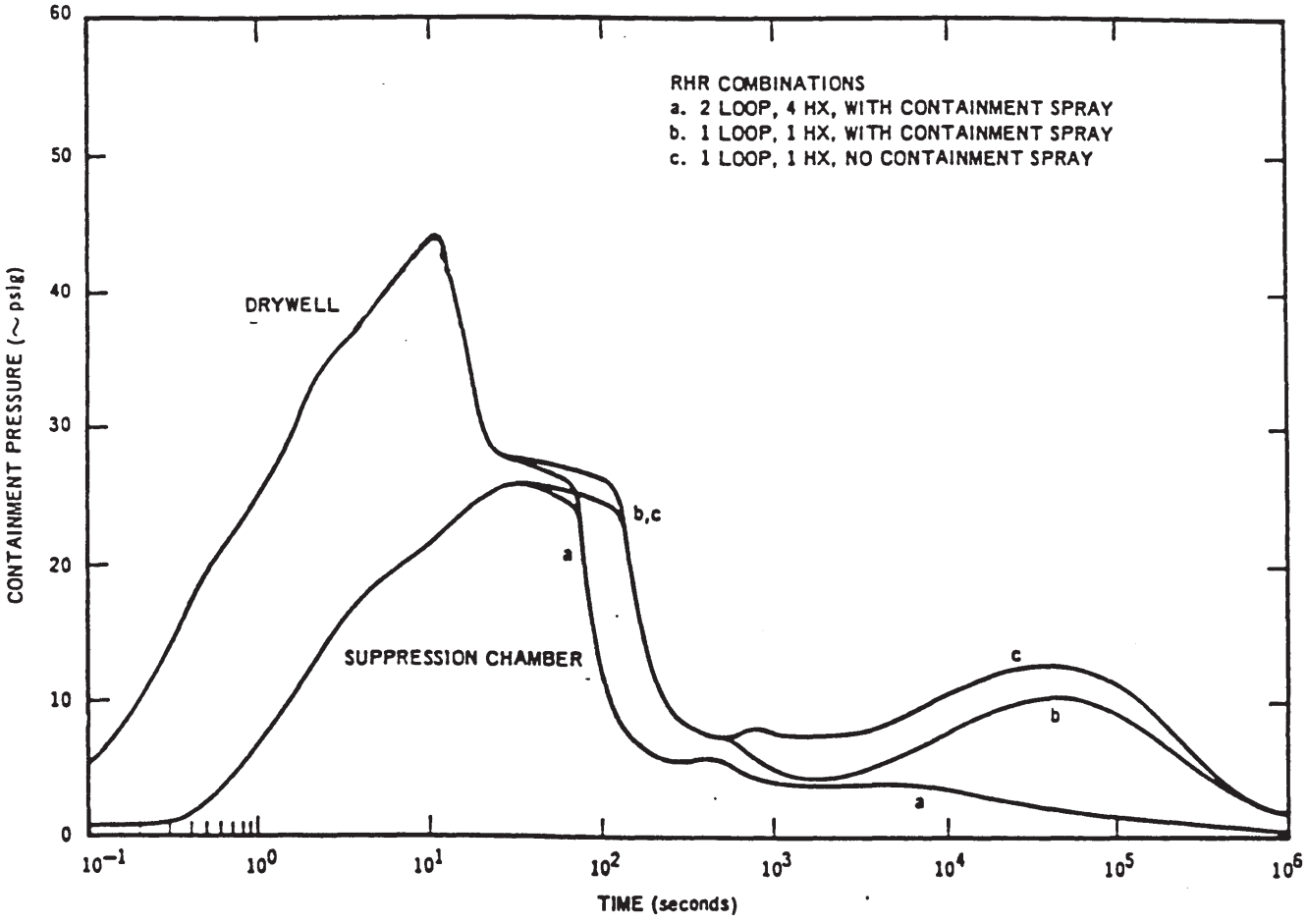
FIGURE 14.6.8 REV. 14 05/97



PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

LOCA – COMPARISON OF CALCULATED AND MEASURED PEAK DRYWELL PRESSURE FOR BODEGA BAY AND HUMBOLDT TESTS

FIGURE 14.6.9 REV. 14 05/97



Unit 2

NOTE: For current plant conditions see Figures 14.10.1 14.10.3, and 14.10.5

Unit 3

NOTE: Historical information not accurate for current plant condition, however, these results continue to provide a reasonable representation of the general trends and characteristics. For current plant conditions see Figures 14.6-10A & B.

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

LOCA — PRIMARY CONTAINMENT PRESSURE RESPONSE

FIGURE 14.6.10 Rev. 25 04/15

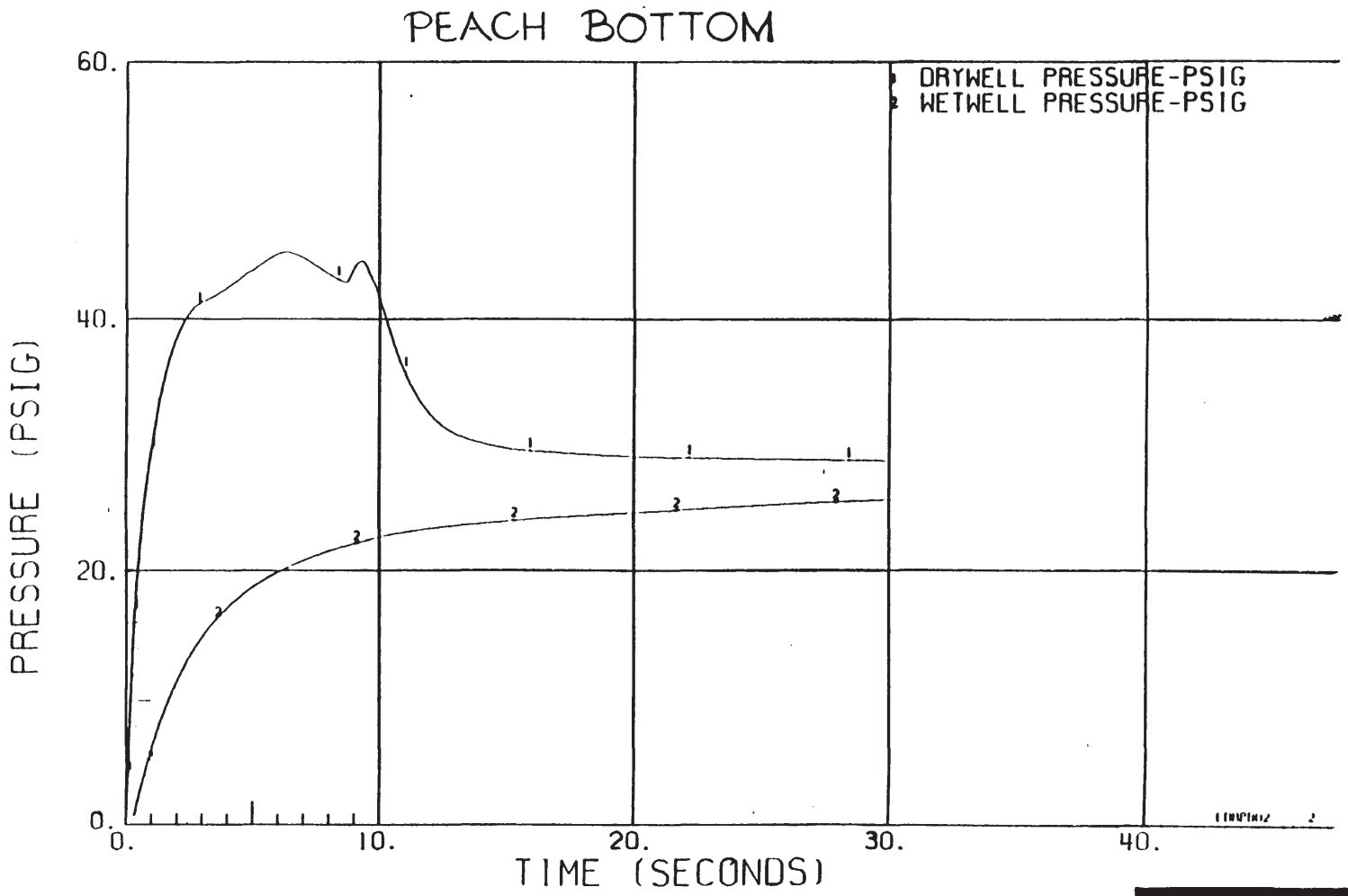


Figure 14.6.10A Pressure Response as a Function of Time at 3696 MWt and 100% Core Flow - 55°F FFTR

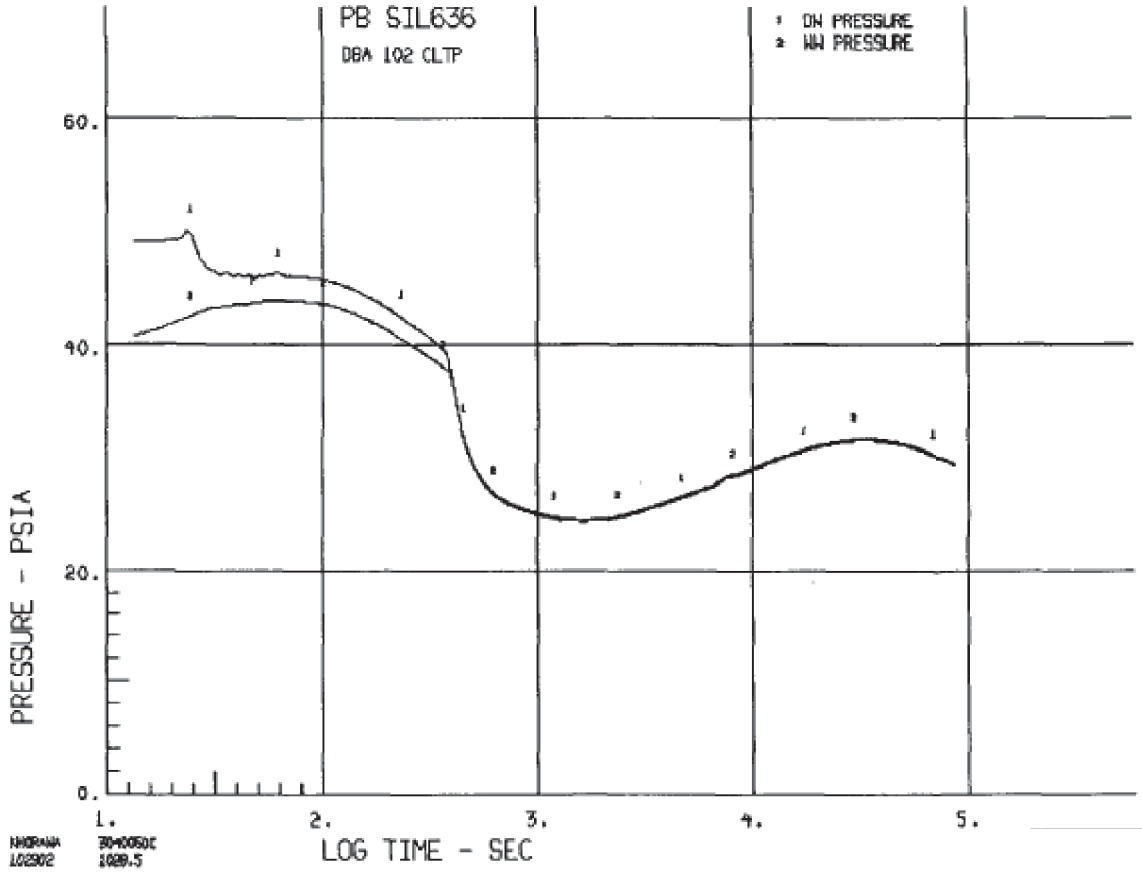
Historical information for Unit 2 not accurate for current plant conditions.

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

Unit 3

PRESSURE RESPONSE AS A FUNCTION OF TIME AT 3696 MWt AND 100% CORE FLOW

FIGURE 14.6.10A Rev. 25 04/15

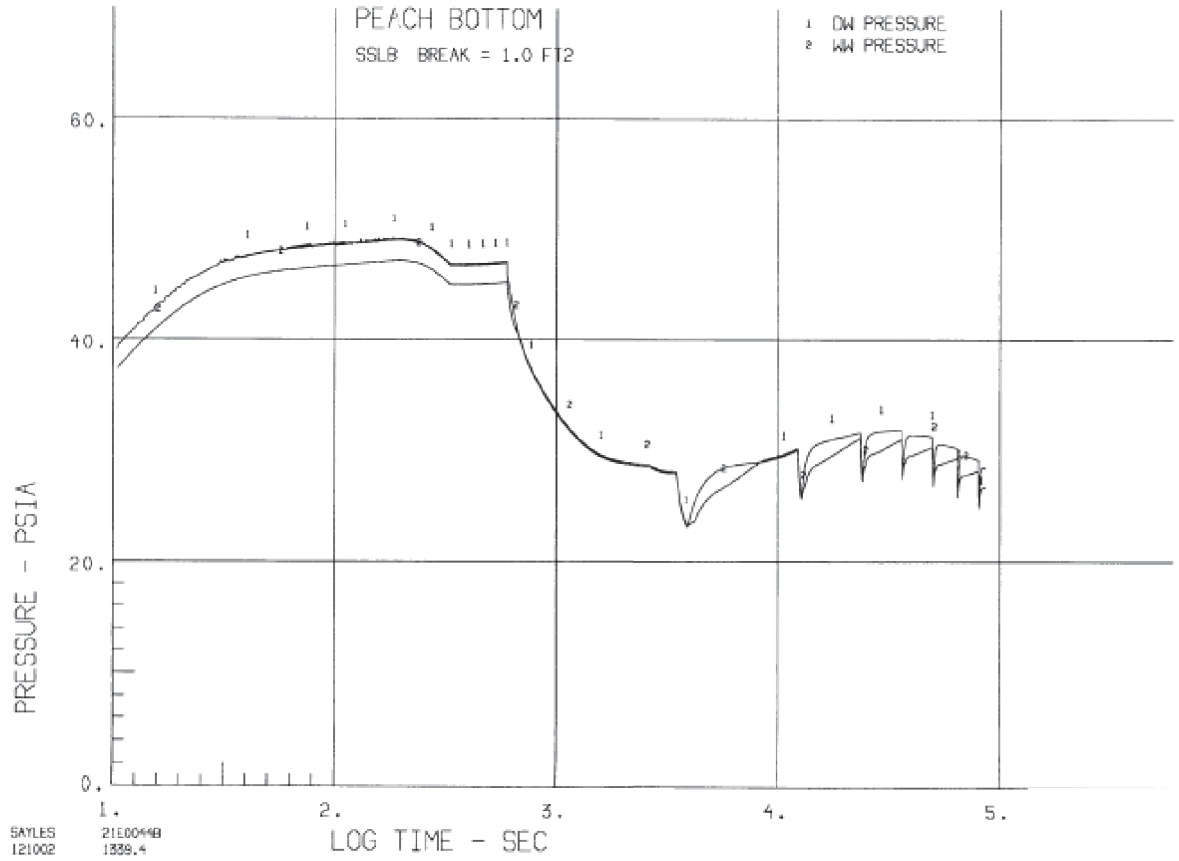


Historical information for Unit 2 not accurate for current plant conditions.

PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

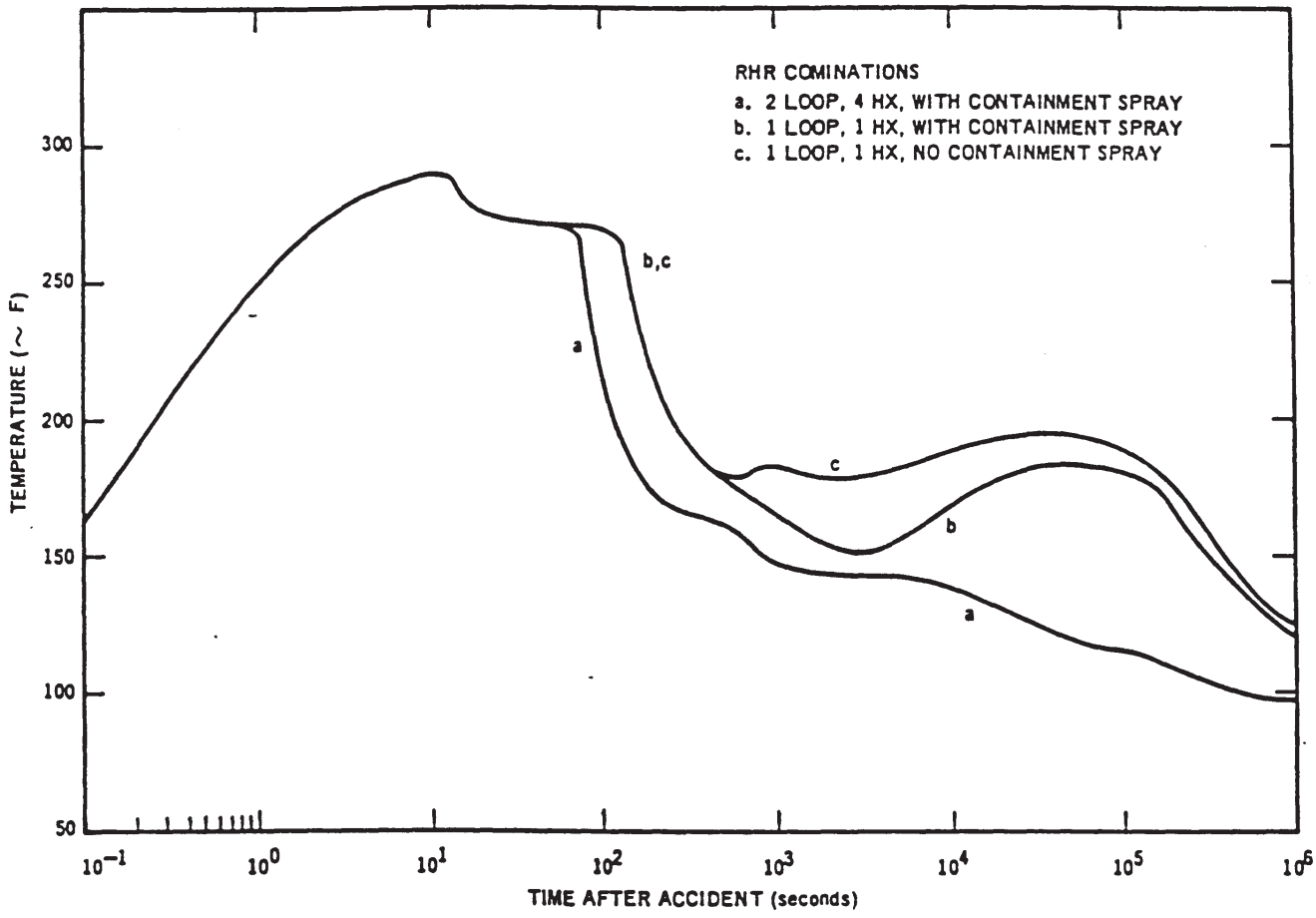
LONG TERM CONTAINMENT
PRESSURE RESPONSE -
NORMAL ECCS FLOW

FIGURE 14.6.10B REV. 25 04/15



Historical information for Unit 2 not accurate for current plant conditions.

PEACH BOTTOM ATOMIC POWER STATION UNITS 2 AND 3 UPDATED FINAL SAFETY ANALYSIS REPORT
CONTAINMENT PRESSURE RESPONSE - SMALL STEAM LINE BREAK (1.00 SQFT)
FIGURE 14.6.10C (Unit 3) REV. 25 04/15



Unit 2

NOTE: For current plant conditions see Figures 14.10.2, 14.10.4, and 14.10.6.

Unit 3

NOTE: Historical information not accurate for current plant condition, however, these results continue to provide a reasonable representation of the general trends and characteristics. For current plant conditions see Figures 14.6-11A & B.

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

LOCA – DRYWELL
TEMPERATURE RESPONSE

FIGURE 14.6.11 Rev. 25 04/15

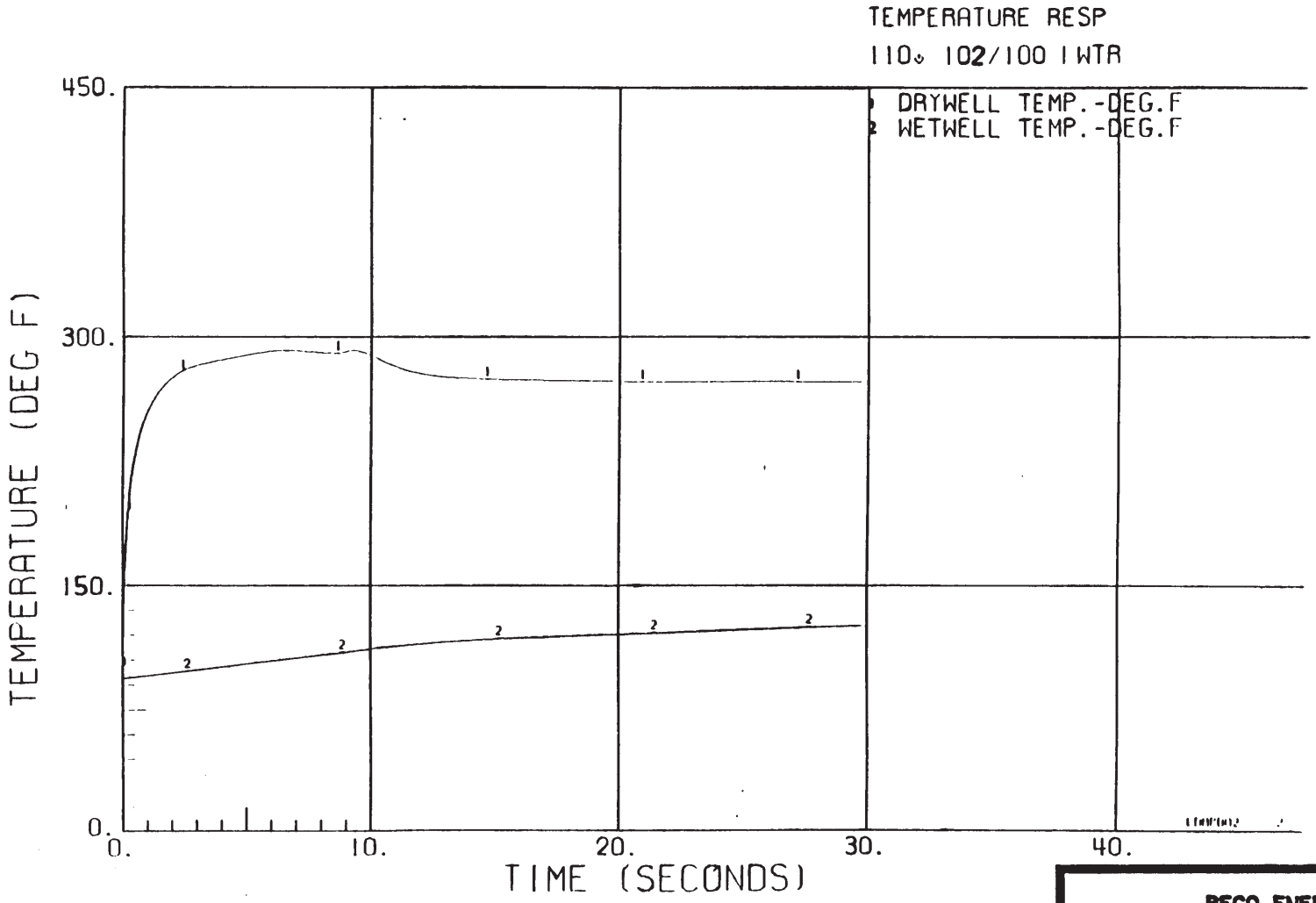


Figure 14.6.11A Temperature Response as a Function of Time at 102% Power and 100% Core Flow - EFTR Peach Bottom 2/3 Power Rerate (LAMB Blowdown)

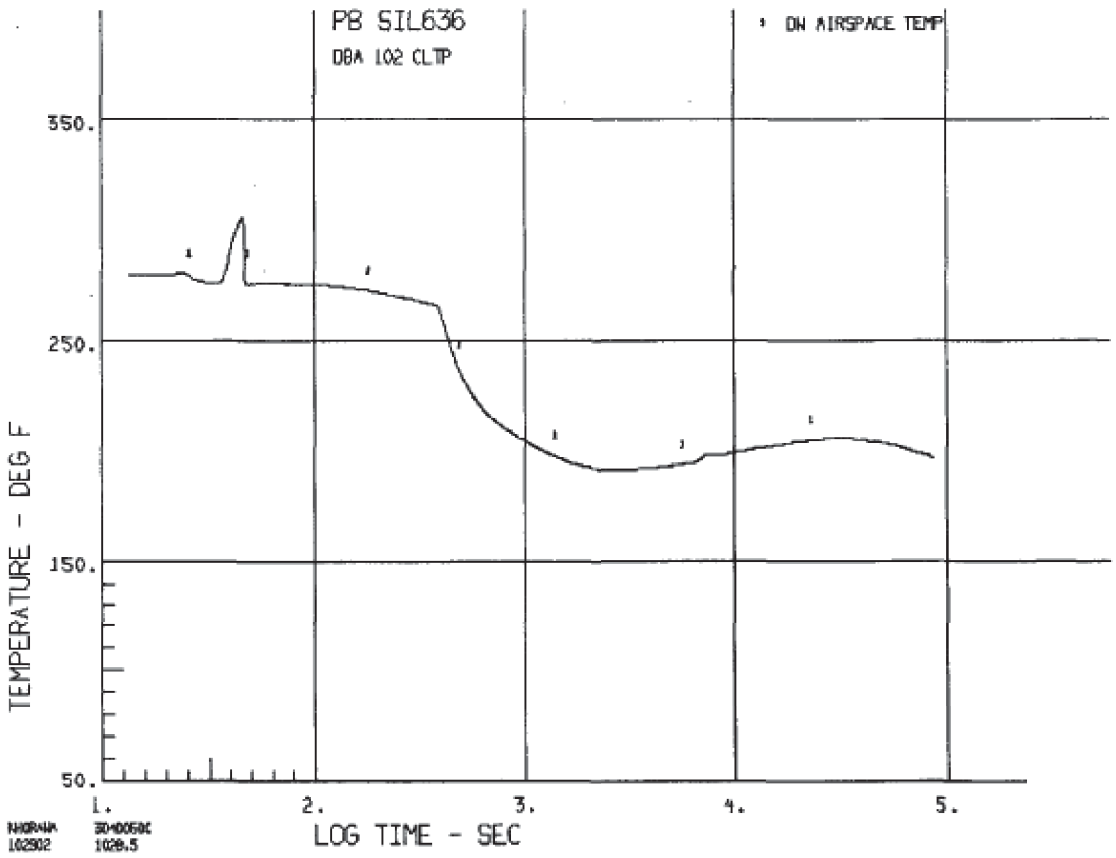
PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

Unit 3

TEMPERATURE RESPONSE AS A FUNCTION OF TIME AT 3696 MWt AND 100% CORE FLOW

FIGURE 14.6.11A Rev. 25 04/15

Historical information for Unit 2 not accurate for current plant conditions.

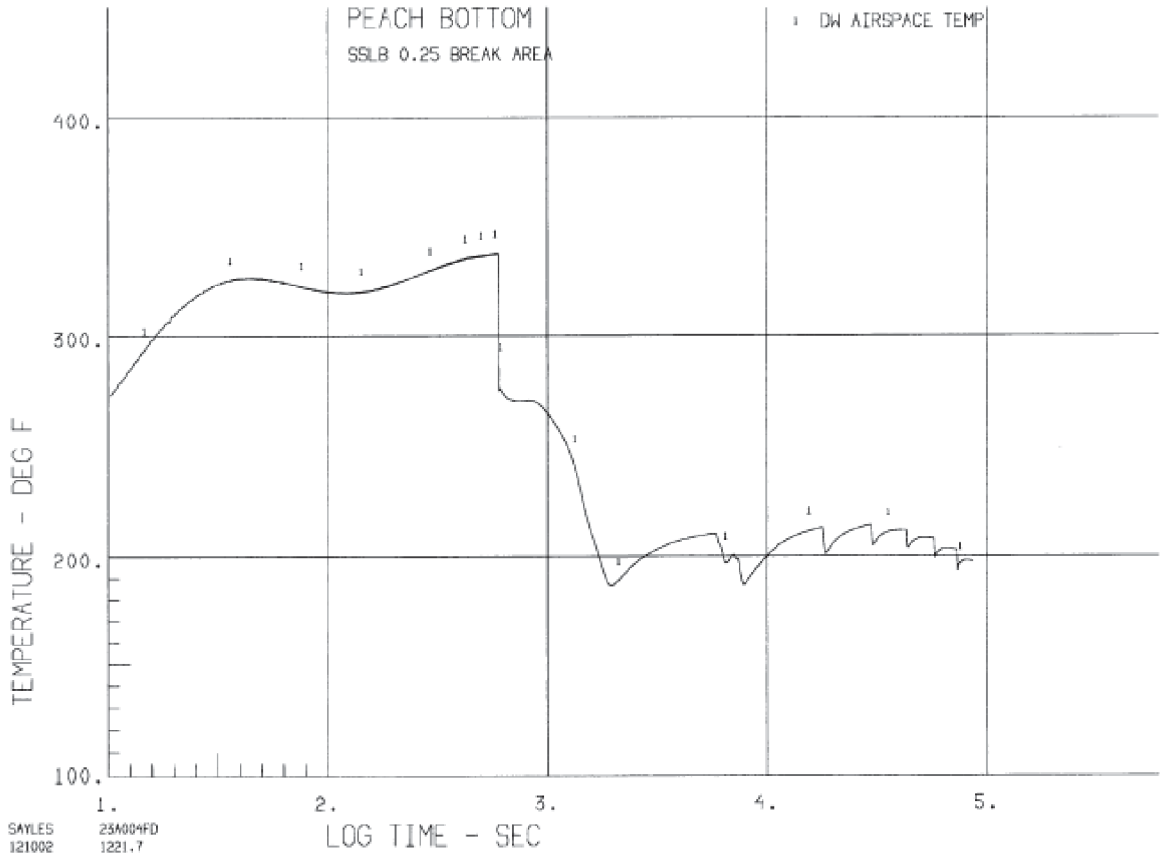


Historical information for Unit 2 not accurate for current plant conditions.

PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

LONG TERM DRYWELL AIRSPACE
TEMPERATURE RESPONSE -
NORMAL ECCS FLOW

FIGURE 14.6.11B REV. 25 04/15
Unit 3



Historical information for Unit 2 not accurate for current plant conditions.

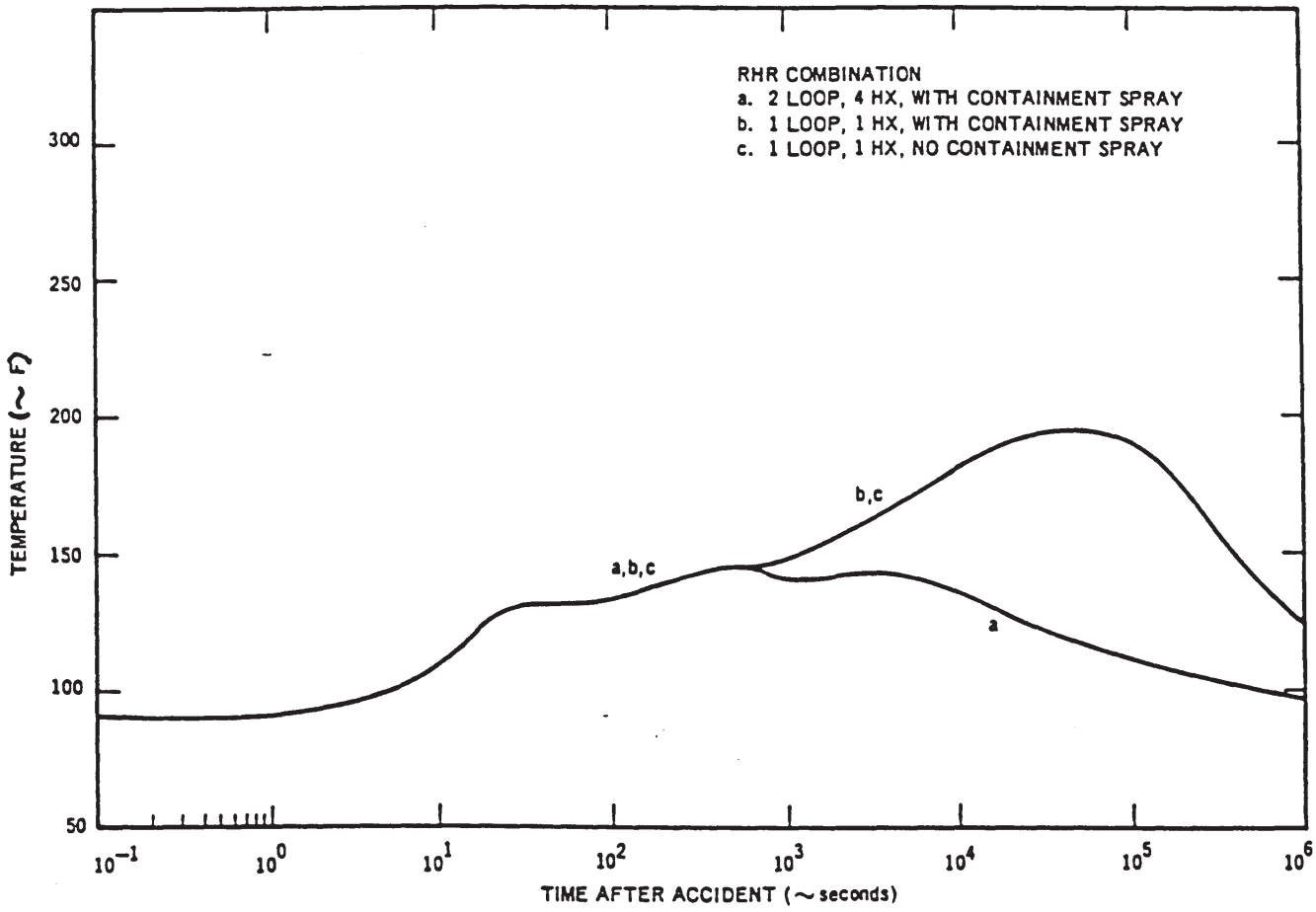
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

DRYWELL AIRSPACE TEMPERATURE
RESPONSE - SMALL STEAM
LINE BREAK (0.25 SQFT)

FIGURE 14.6.11C

Unit 3

REV. 25 04/15



Unit 2

NOTE: For current plant conditions see Figures 14.10.8 and 14.10.8a.

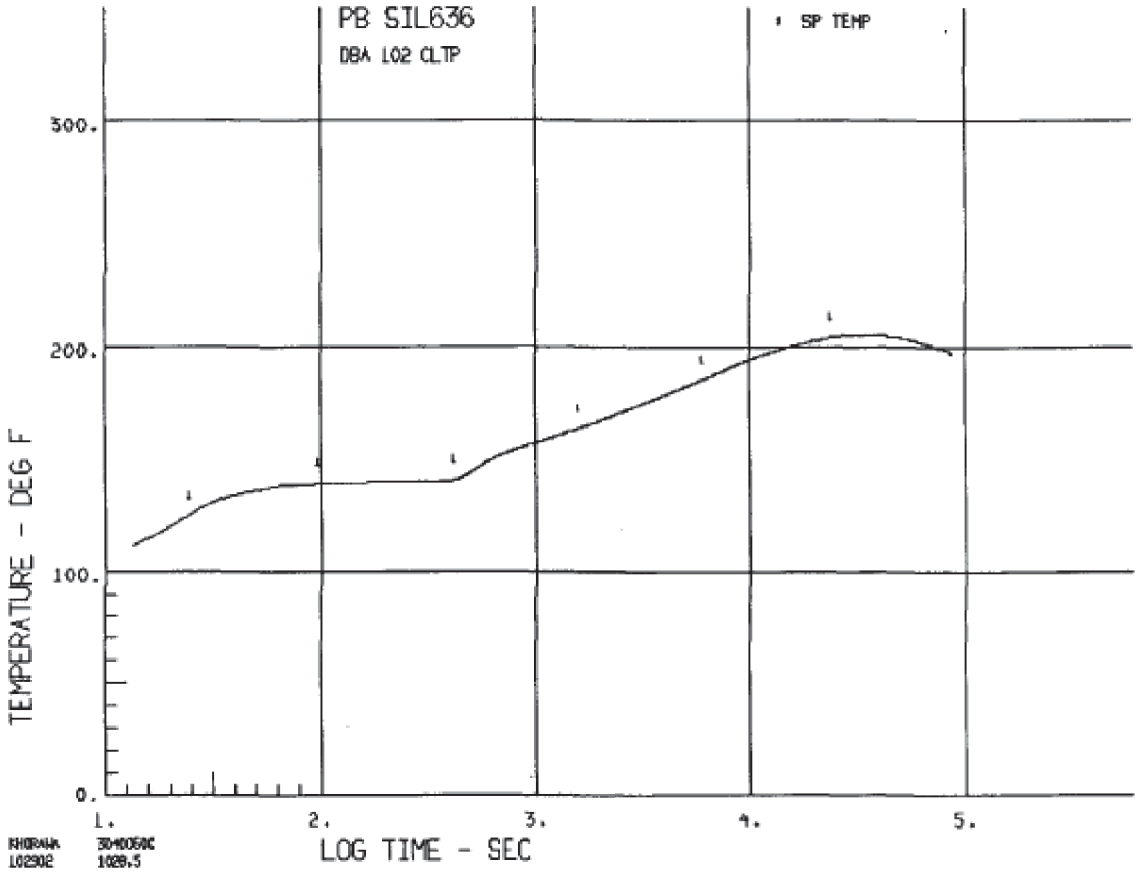
Unit 3

NOTE: Historical information not accurate for current plant condition, however, these results continue to provide a reasonable representation of the general trends and characteristics. For current plant conditions see Figures 14.6-12A.

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

LOCA – SUPPRESSION POOL TEMPERATURE RESPONSE

FIGURE 14.6.12 Rev. 25 04/15



Historical information for Unit 2 not accurate for current plant conditions.

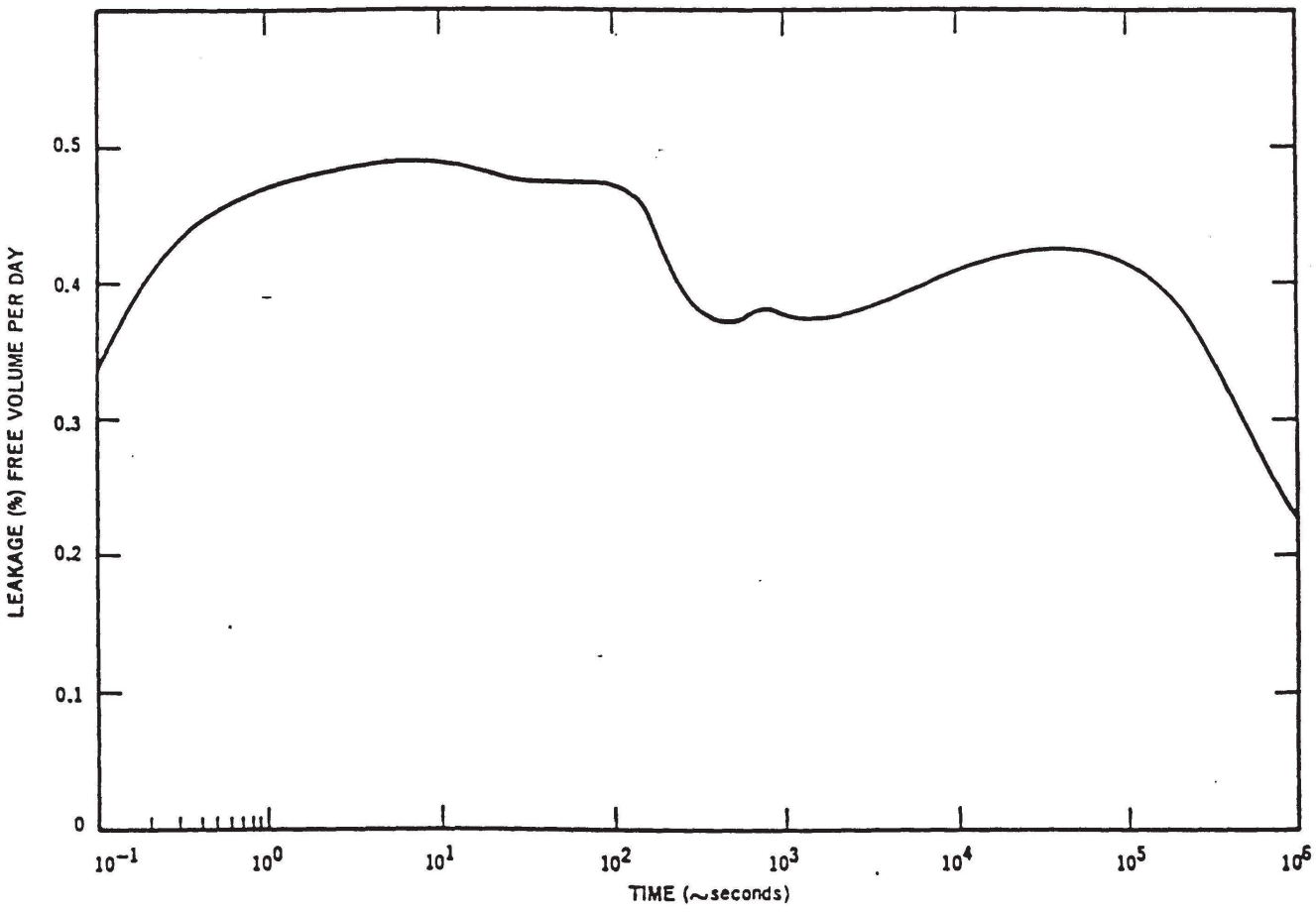
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

LONG TERM SUPPRESSION
POOL TEMPERATURE RESPONSE -
NORMAL ECCS FLOW

FIGURE 14.6.12A

Unit 3

REV. 25 04/15



NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

PECO ENERGY COMPANY
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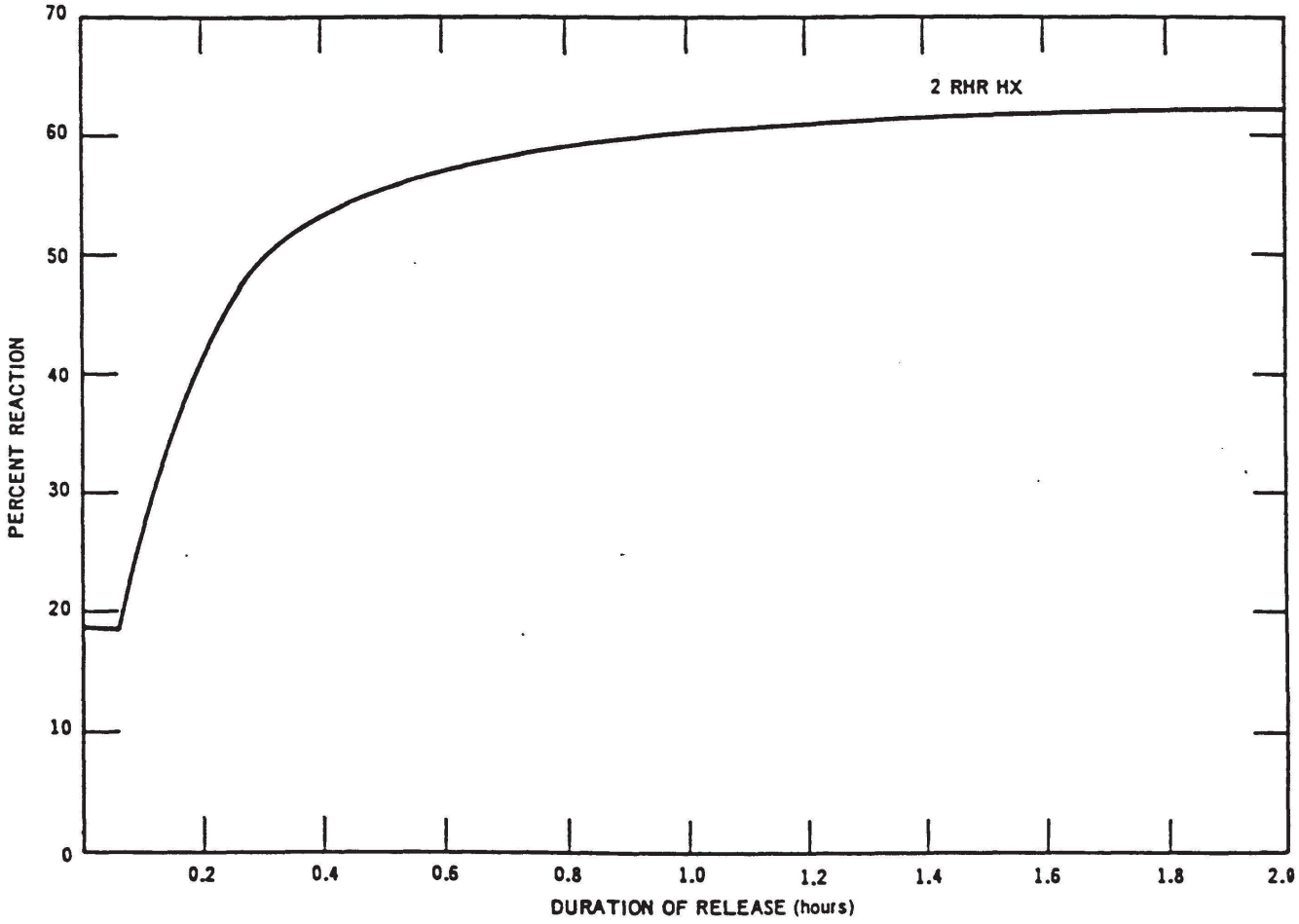
PRIMARY CONTAINMENT LEAK RATE

FIGURE 14.6.13 REV. 14 05/97



NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

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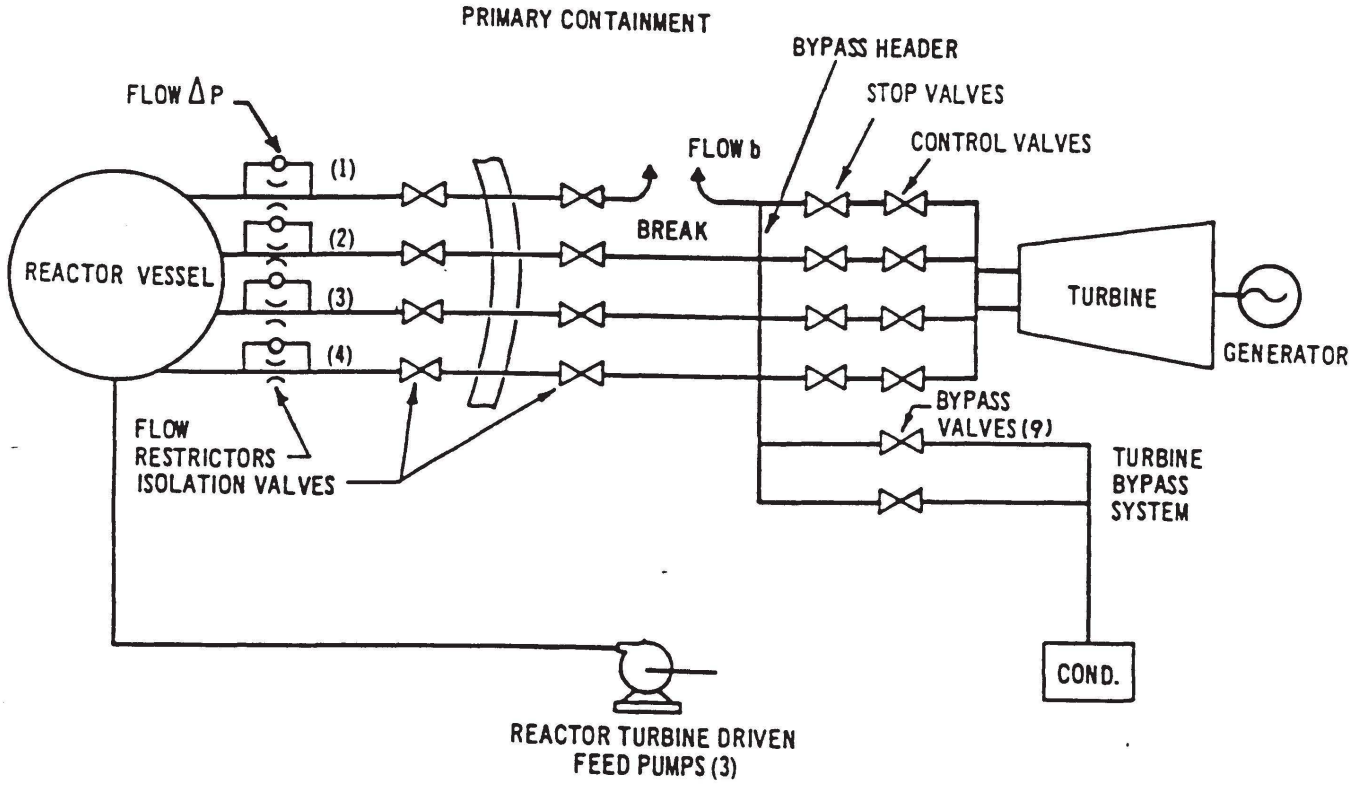
PRIMARY CONTAINMENT CAPABILITY INDEX FOR METAL-WATER REACTION

FIGURE 14.6.14 REV. 14 05/97



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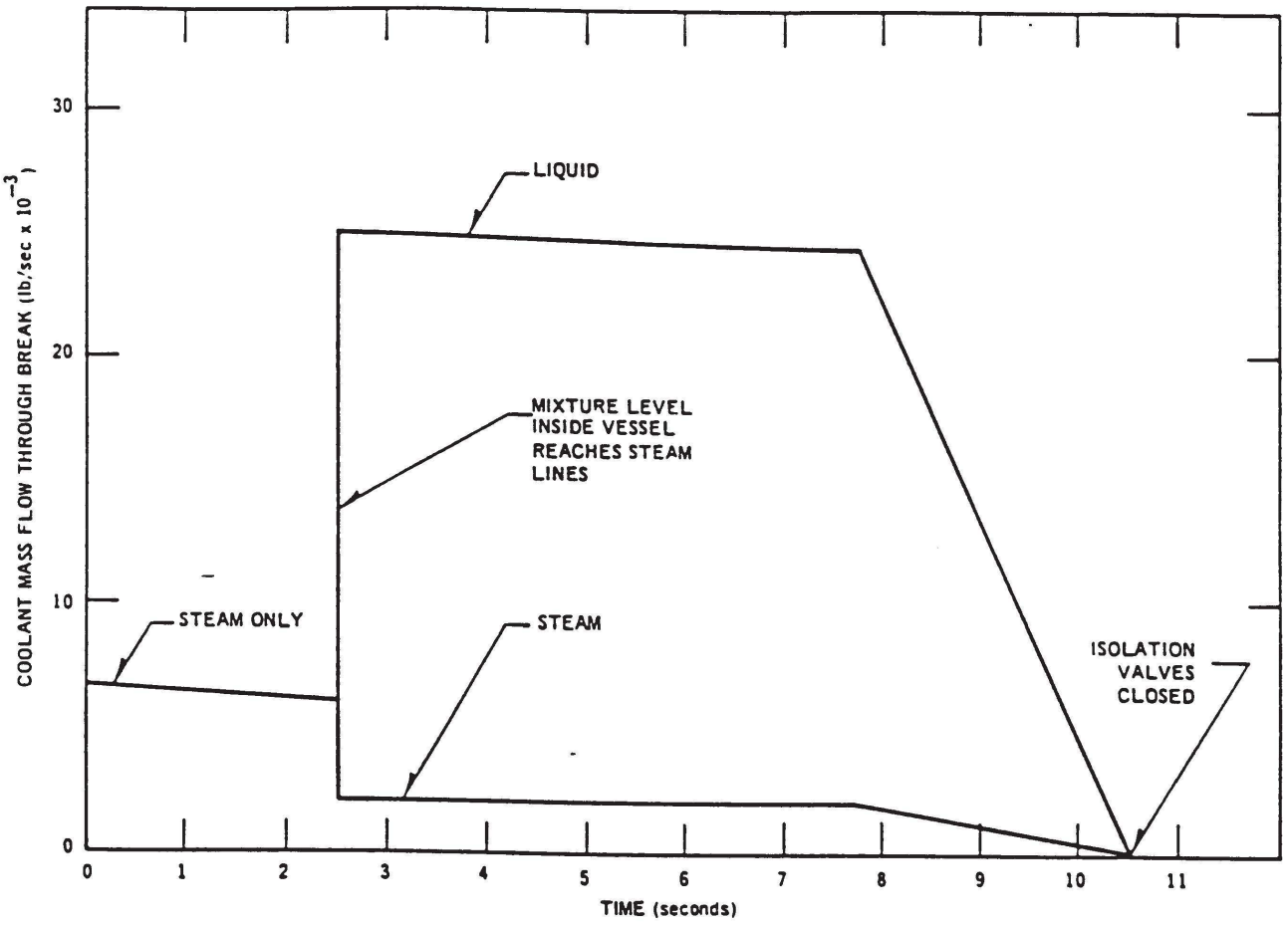
MAIN STEAM LINE BREAK
ACCIDENT – BREAK LOCATION

FIGURE 14.6.15 REV. 14 05/97



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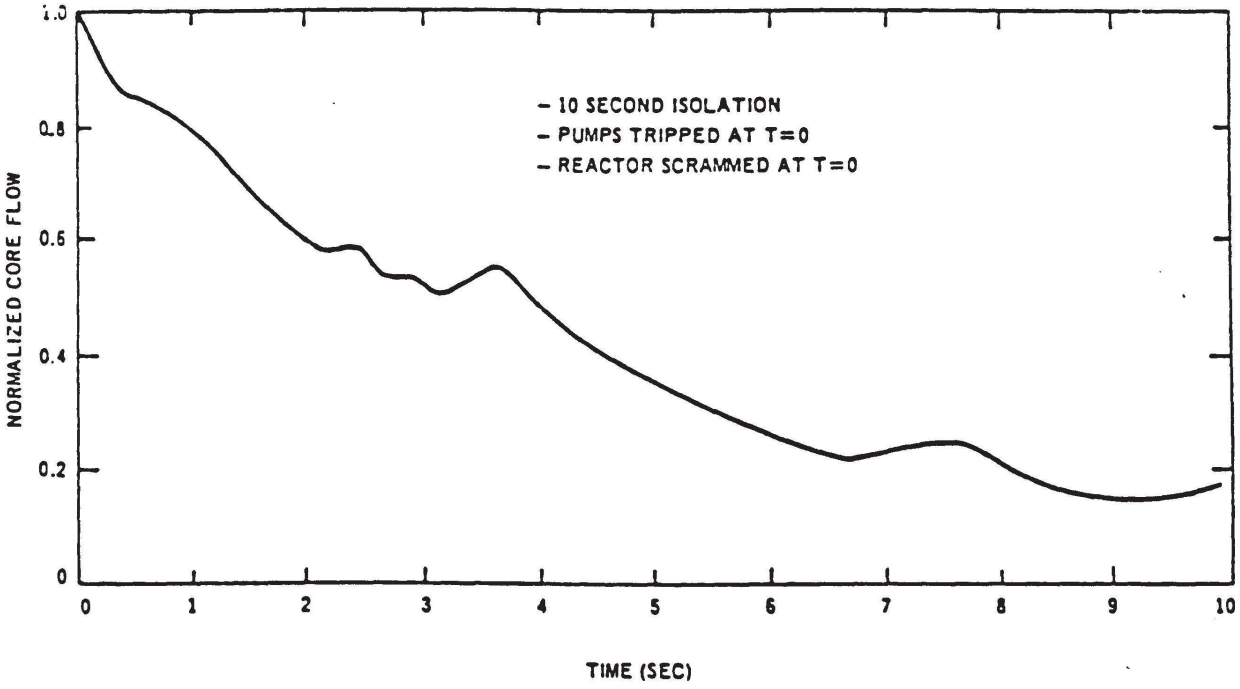
MAIN STEAM LINE BREAK ACCIDENT – MASS OF COOLANT THROUGH BREAK

FIGURE 14.6.16 REV. 14 05/97



NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

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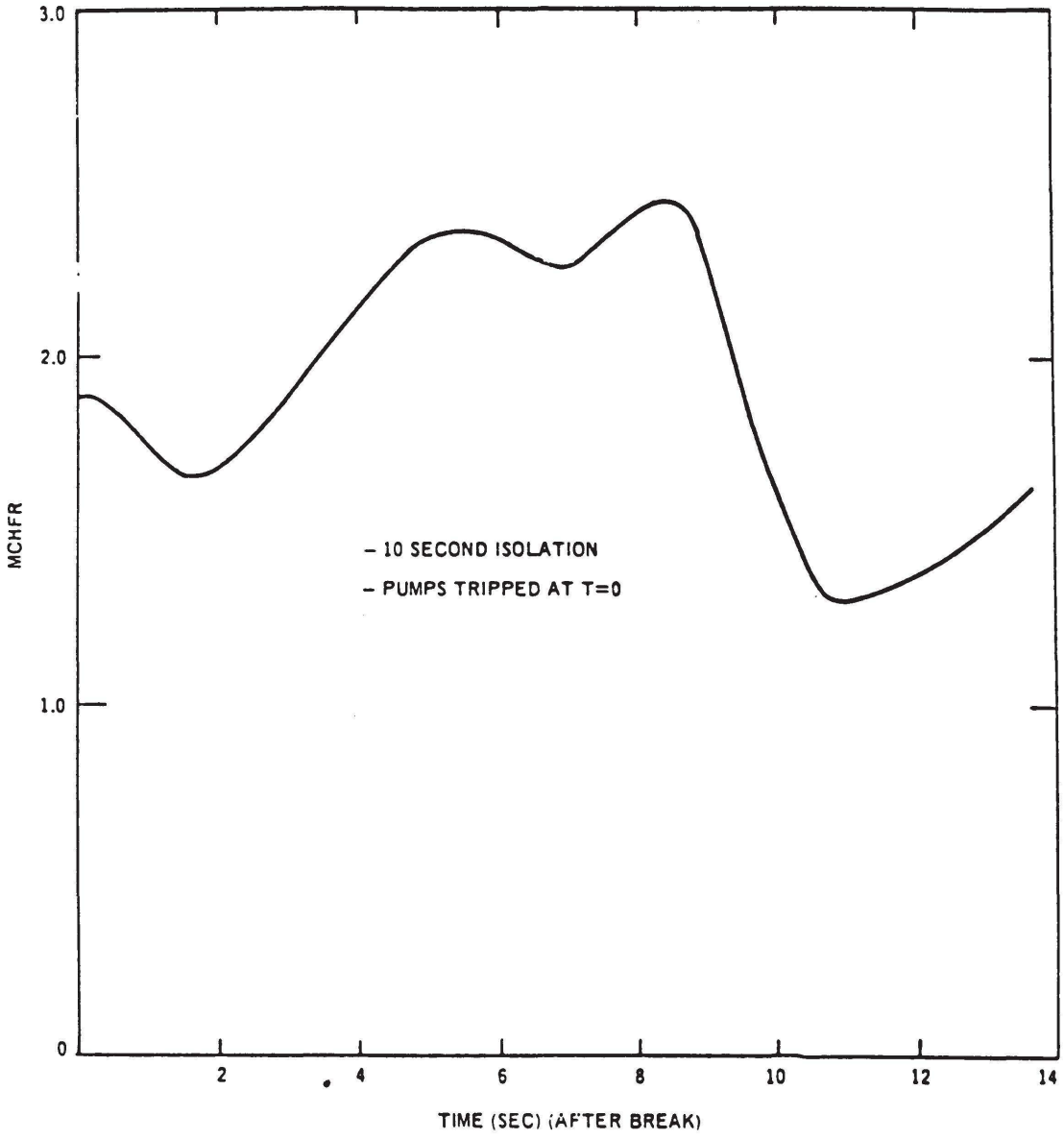
MAIN STEAM LINE BREAK ACCIDENT – NORMALIZED CORE INLET FLOW

FIGURE 14.6.17 REV. 14 05/97



NOTE: Historical Information not accurate for current plant conditions

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MAIN STEAM LINE BREAK ACCIDENT – MINIMUM CRITICAL HEAT FLUX RATIO

FIGURE 14.6.18 REV. 13 01/95

FUEL ROD DETAIL

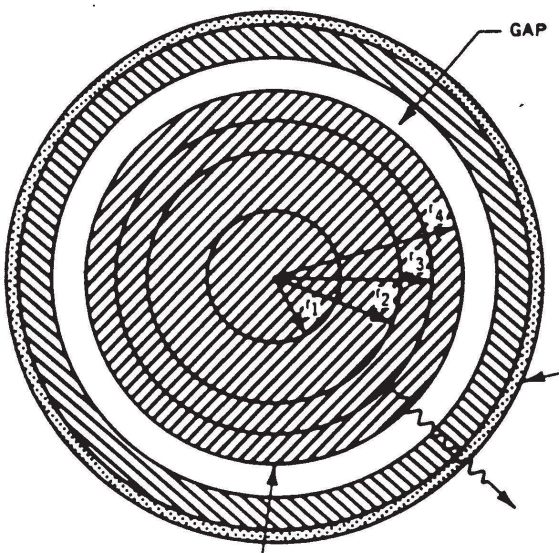
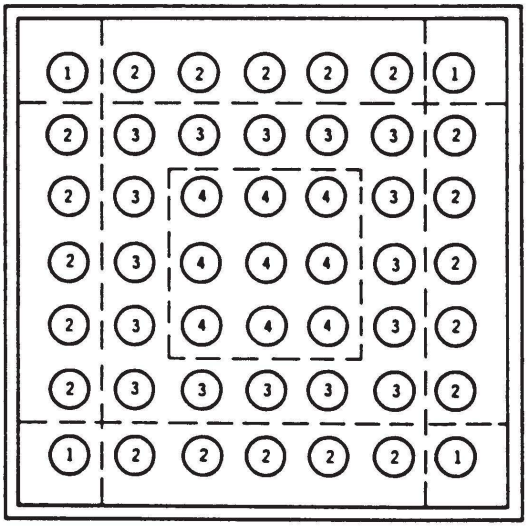


TABLE OF RADIATION HEAT TRANSFER COEFFICIENTS

SOURCE	RECEPTOR	FUEL ROD TYPE 1	FUEL ROD TYPE 2	FUEL ROD TYPE 3	FUEL ROD TYPE 4	CHANNEL SIDE WALL
FUEL ROD TYPE	1	–	0.205	0.0849	0.007	0.2914
	2	0.04;	–	0.177	0.0287	0.1788
	3	0.0212	0.221	–	0.150	0.0235
	4	0.003	0.0637	0.268	–	NIL
CHANNEL SIDE WALL		0.0975	0.299	0.031	NIL	–

CHANNEL CROSS SECTION



FUEL BUNDLE DETAIL

CHANNEL		
ROD TYPE	No. OF RODS	ROD POWER FACTOR
1	4	1.24
2	20	1.09
3	16	0.91
4	9	0.85

NOTE: Historical Information not accurate for current plant conditions

PHILADELPHIA ELECTRIC COMPANY
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FUEL ROD AND
FUEL BUNDLE DETAILS

FIGURE 14.8.1 REV. 13 01/95

FIGURES 14.10.1 thru 14.10.12A

PEACH BOTTOM

UFSAR Figures 14.10.1 thru 14.10.12A are represented by the figures listed below from GEH Document NEDC-33566P, Revision 0, as provided in support of the Peach Bottom, Units 2 and 3, Extended Power Update License Amendment Request dated September 28, 2012, as approved by the NRC on August 25, 2014 (Amendment Nos. 293/296).

The information provided in the referenced figures below are GEH *Proprietary Information.*

14.10.1 (Figure 2.6-4)	Design Case Short-Term RSLB DBLOCA Containment Pressure Response – Design Case
14.10.2 (Figure 2.6-5)	Design Case Short-Term RSLB DBLOCA Containment Temperature Response – Design Case
14.10.3 (Figure 2.6-6)	Bounding Case Short-Term RSLB DBLOCA Containment Pressure Response – Bounding Case
14.10.4 (Figure 2.6-7)	Bounding Case Short-Term RSLB DBLOCA Containment Temperature Response – Bounding Case
14.10.5 (Figure 2.6-8)	Reference Case Short-Term RSLB DBLOCA Containment Pressure Response – Reference Case
14.10.6 (Figure 2.6-9)	Reference Case Short-Term RSLB DBLOCA Containment Temperature Response – Reference Case
14.10.7 (Figure 2.6-10)	Long-Term Small Steam Break LOCA Drywell Temperature Response
14.10.8 (Figure 2.6-1)	SP and WW Temperature Response to RSLB DBLOCA (CIC)
14.10.8A (Figure 2.6-1a)	SP and WW Airspace Temperature Response to RSLB DBLOCA Dual-Unit Interaction (CIC)

FIGURES 14.10.1 thru 14.10.12A (continued)

14.10.9 (Figure 2.6-2)	DW and WW Airspace Temperature Response to DBLOCA (CIC)
14.10.9A (Figure 2.6-2a)	DW and WW Airspace Temperature Response to DBLOCA Dual-Unit Interaction (CIC)
14.10.10 (Figure 2.6-11)	Long-Term Small Break LOCA Suppression Pool Temperature Response
14.10.10A (Figure 2.6-11a)	Long-Term Small Break LOCA Suppression Pool Temperature Response Dual-Unit Interaction
14.10.11 (Figure 2.6-1b)	SP Temperature Response of Non-Accident Unit During Safe Shutdown
14.10.12 (Figure 2.6-3)	SP Temperature Response to Loss of Normal RHR Shutdown Cooling Event (CIC)
14.10.12A (Figure 2.6-3a)	SP Temperature Response to Loss of Normal RHR Shutdown Cooling Event Dual-Unit Interaction (CIC)
14.10.13	Deleted
14.10.14 (Figure 2.5-6)	Deleted

UFSAR Figure 14.10.13
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UFSAR Figure 14.10.14
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