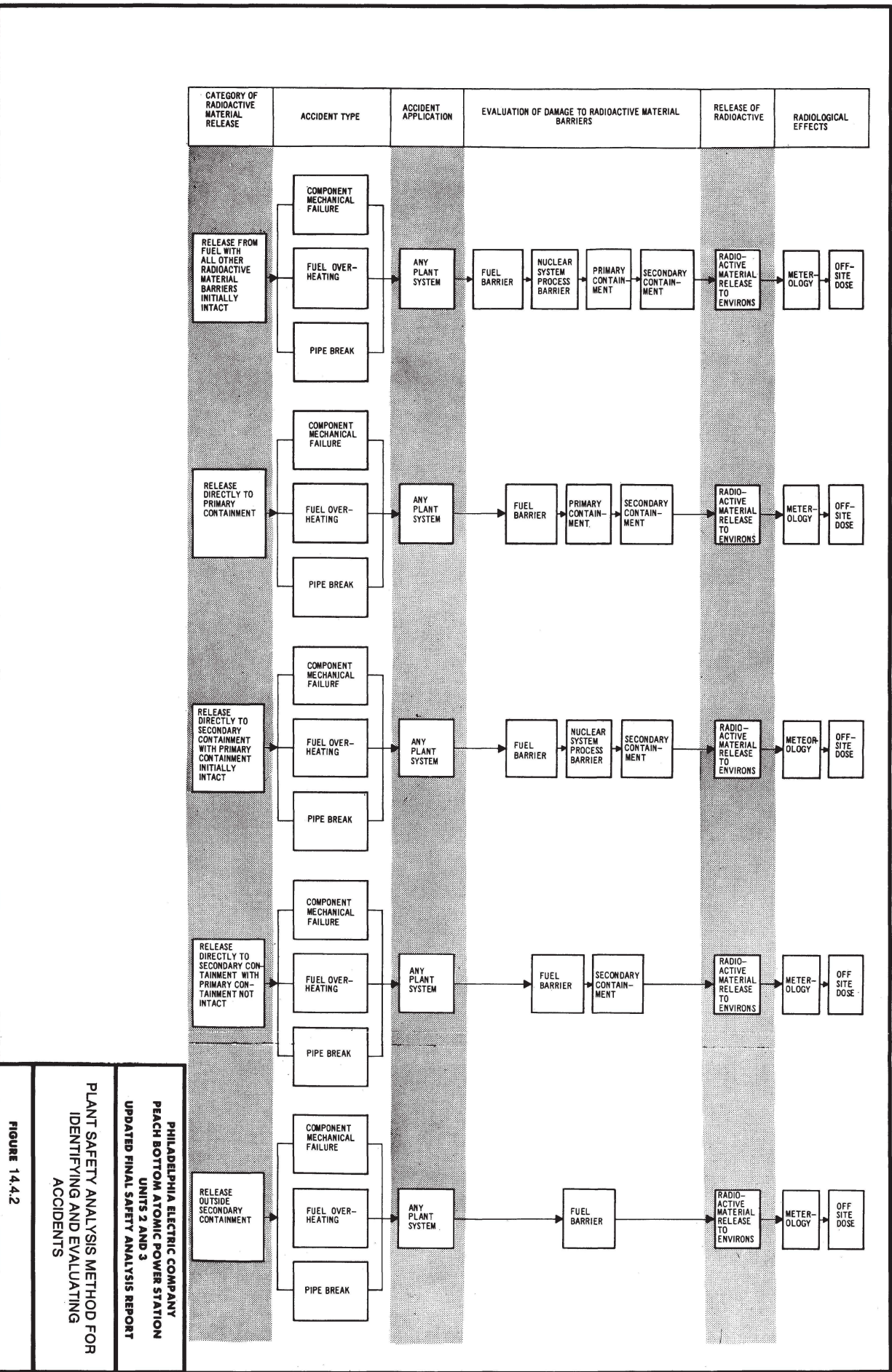
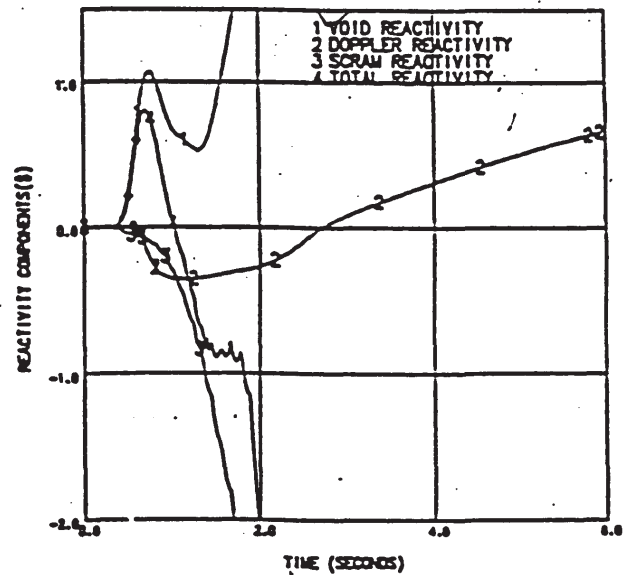
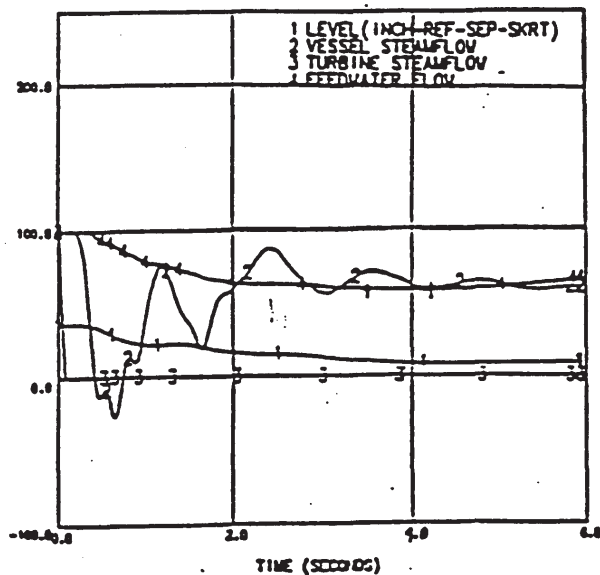
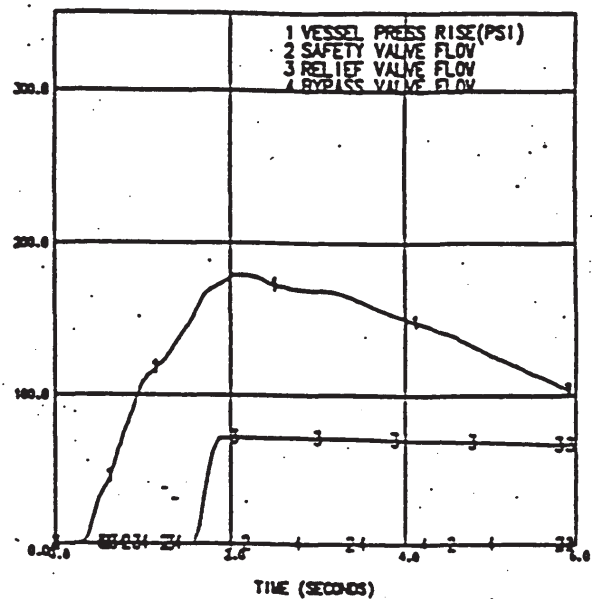
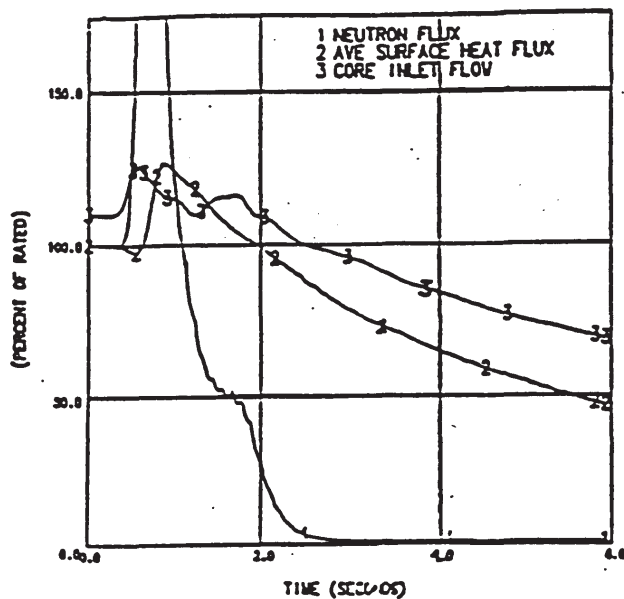


**PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

**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

Unit 3
TRANSIENT RESULTS
ELECTRICAL GENERATOR LOAD
REJECTION WITHOUT BYPASS

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

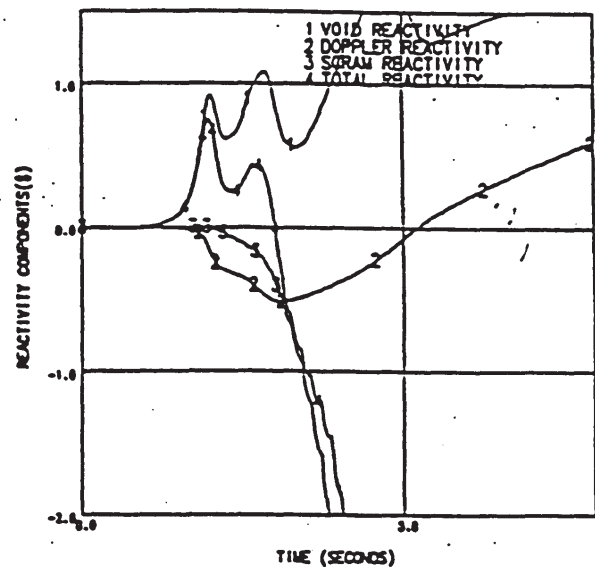
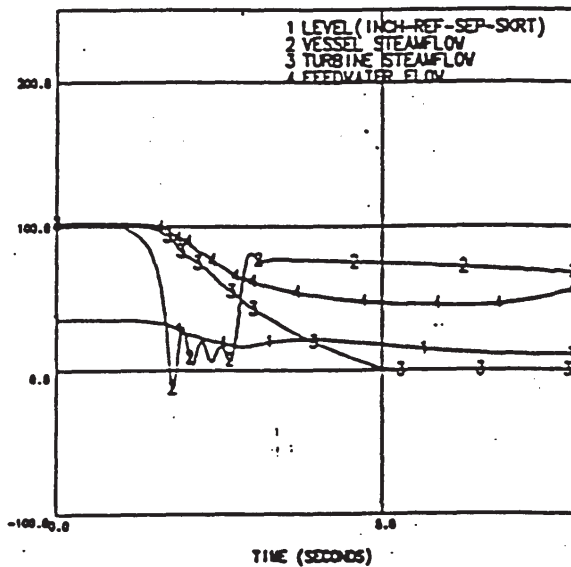
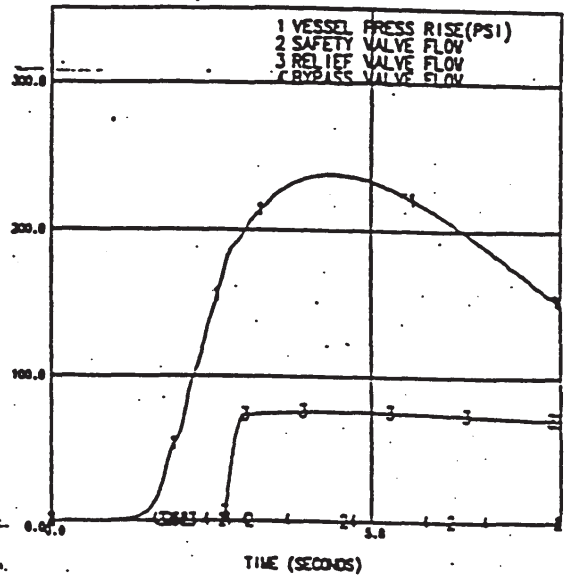
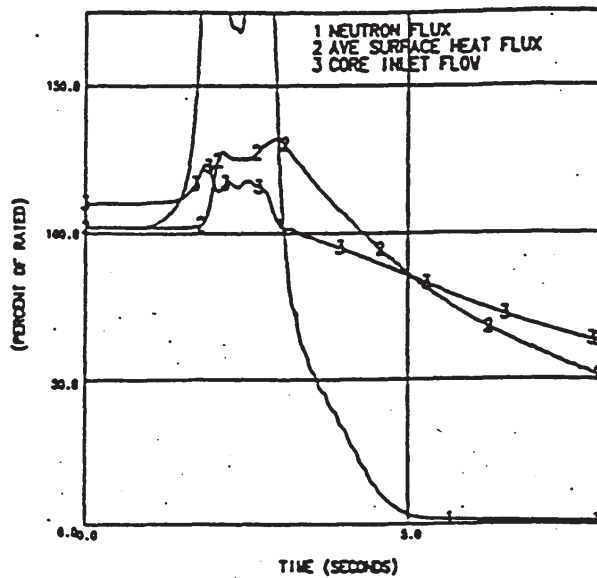
PEACH BOTTOM, UNIT 2

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

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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

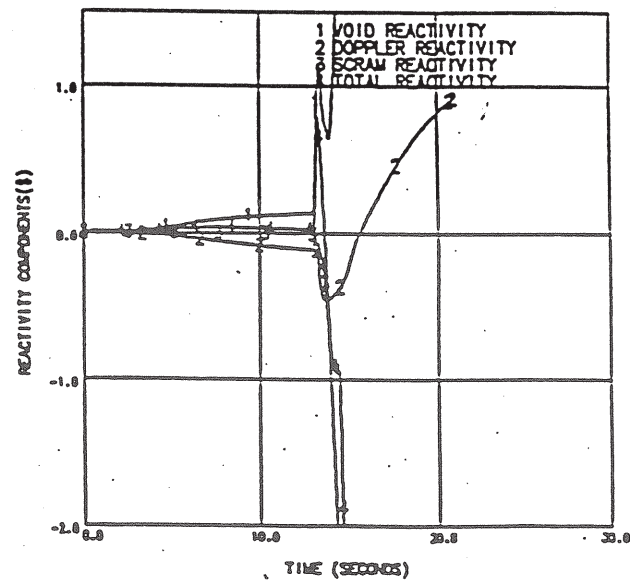
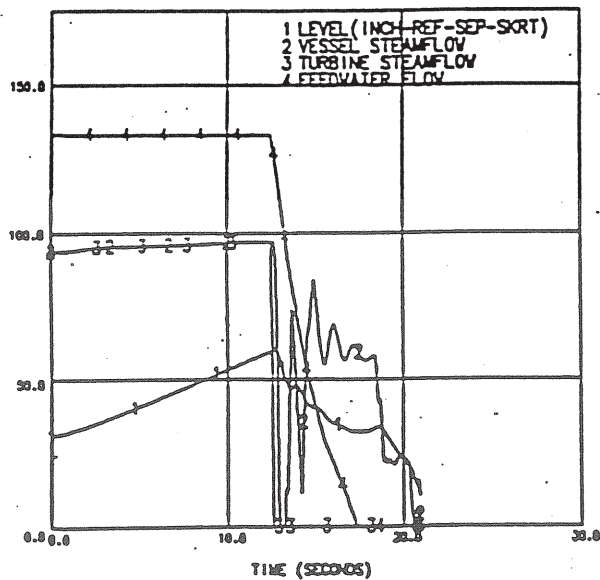
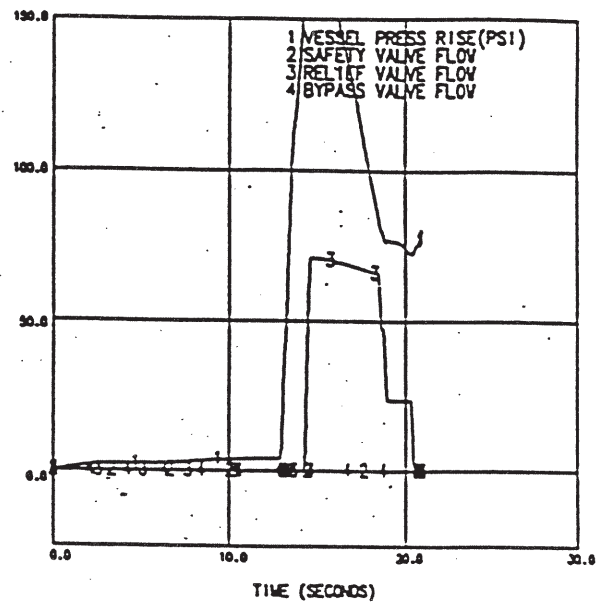
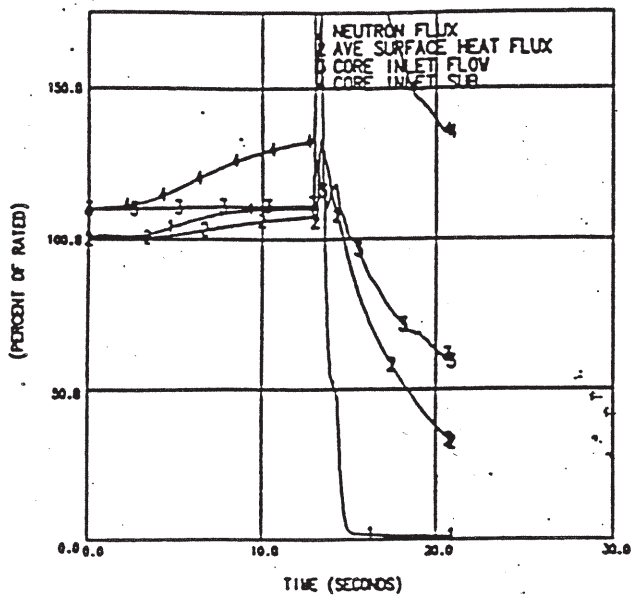
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FIGURE 14.5.4

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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

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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).

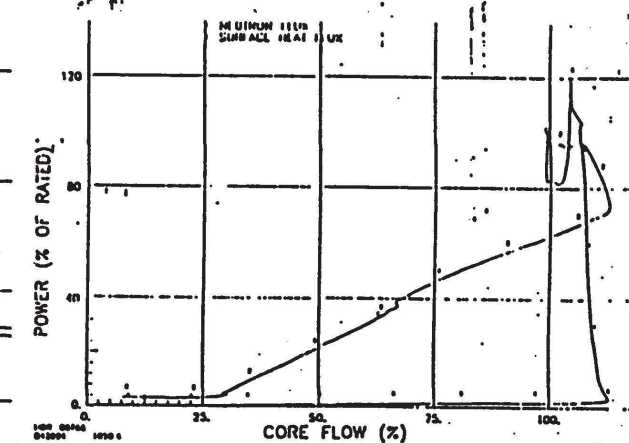
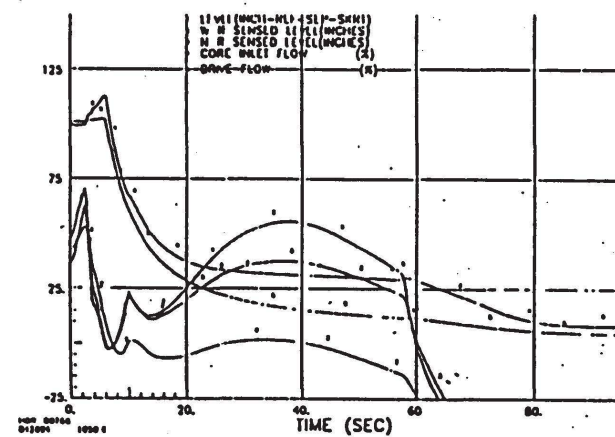
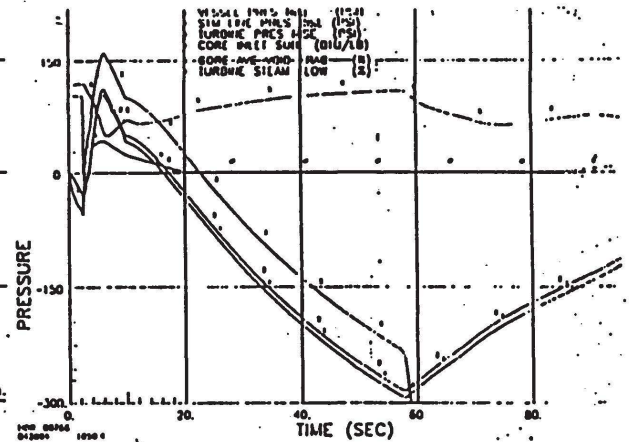
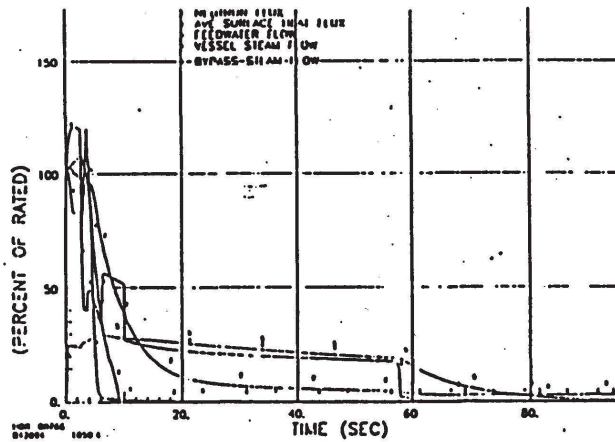
The information provided in the referenced figure is
GEH Proprietary Information

Figure 14.5.6

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Figure 14.5.7A thru 14.5.7B

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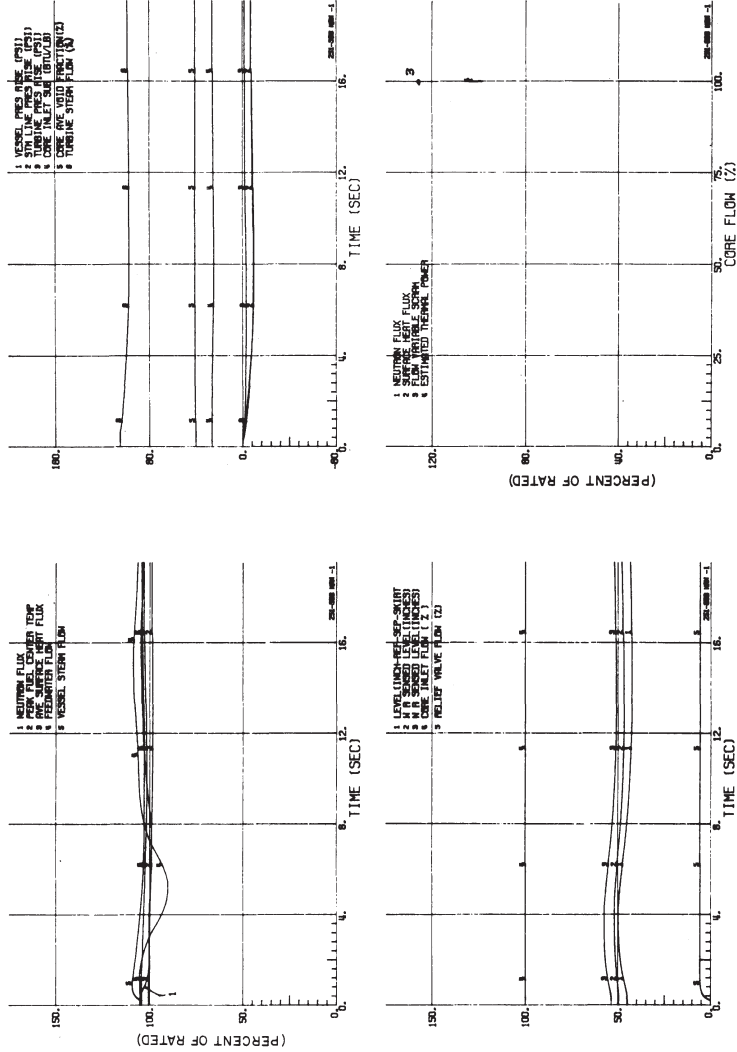


PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
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UPDATED FINAL SAFETY ANALYSIS REPORT

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
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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).

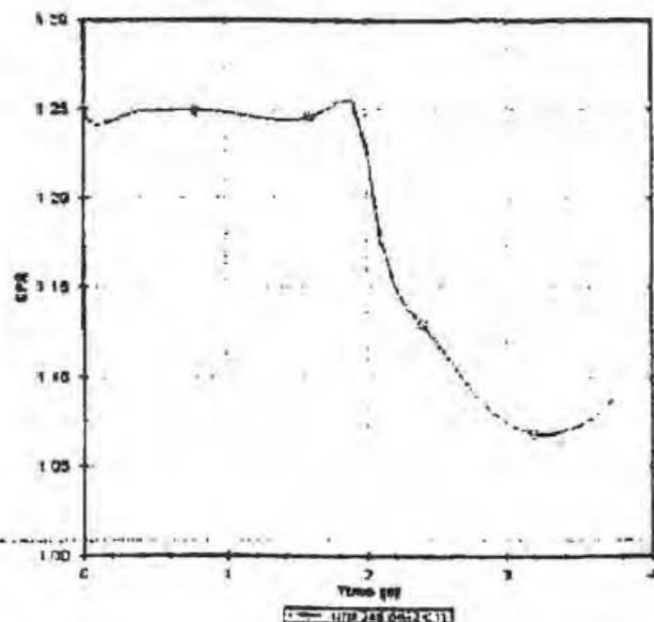
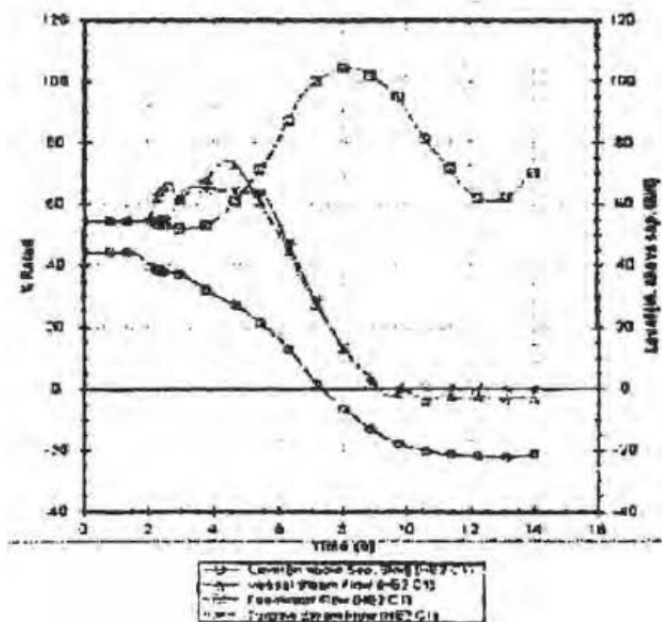
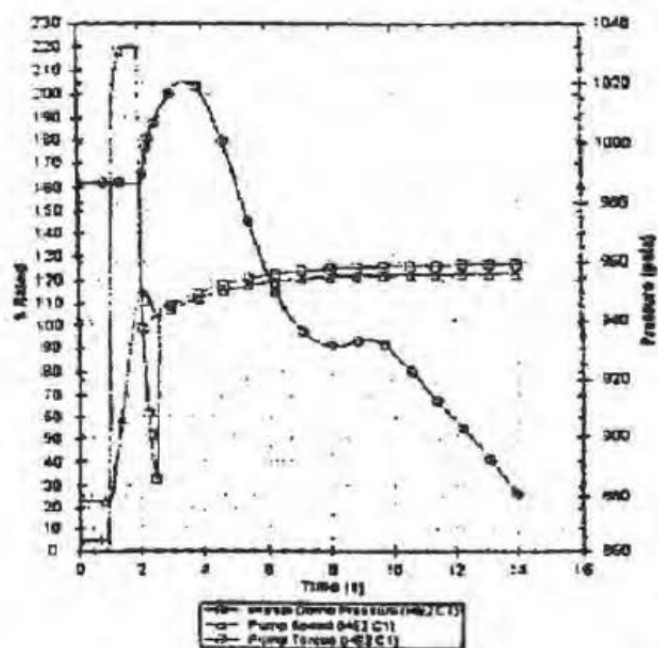
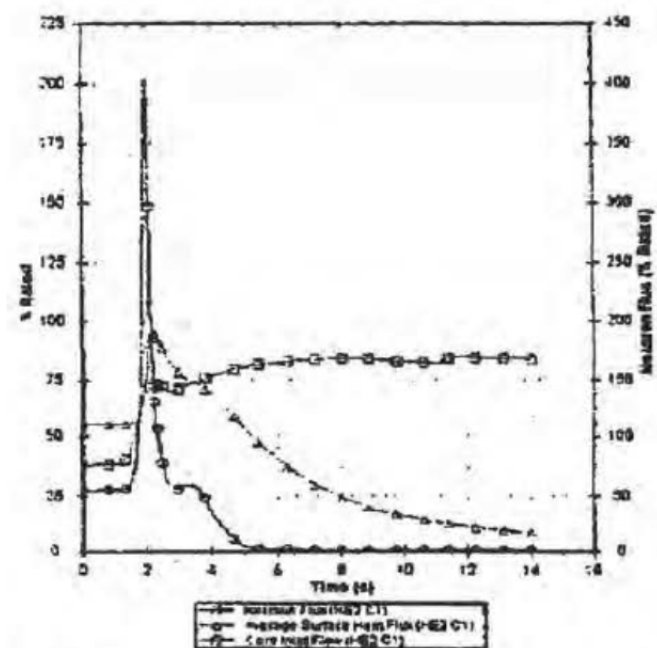
The information provided in the referenced figure is
GEH Proprietary Information

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

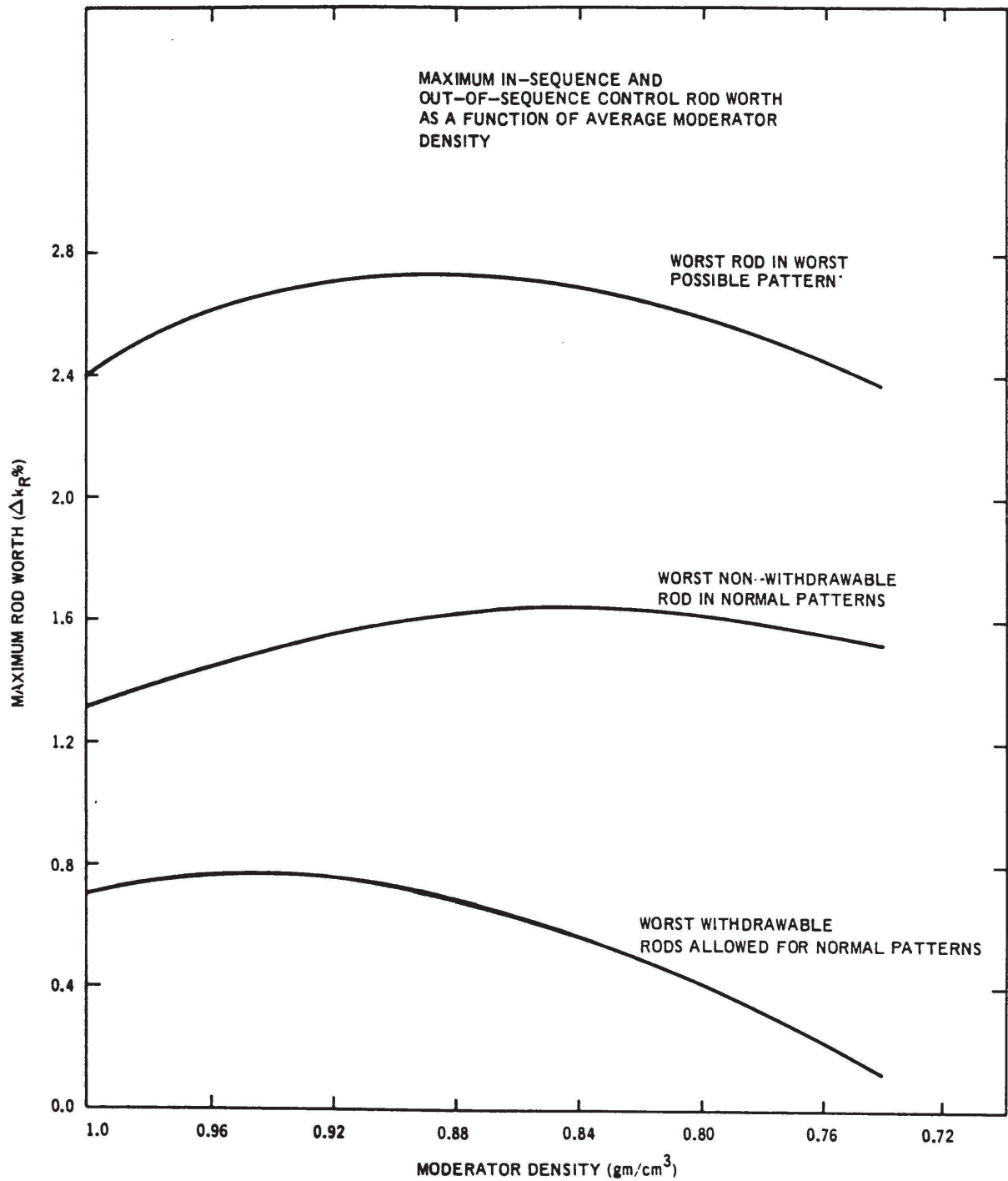
TRANSIENT RESULTS
Single Recirculation Flow Controller Failure
Increasing Flow

FIGURE 14.5.14

REV. 26 04/17

Figures 14.5.15 through 14.5.19

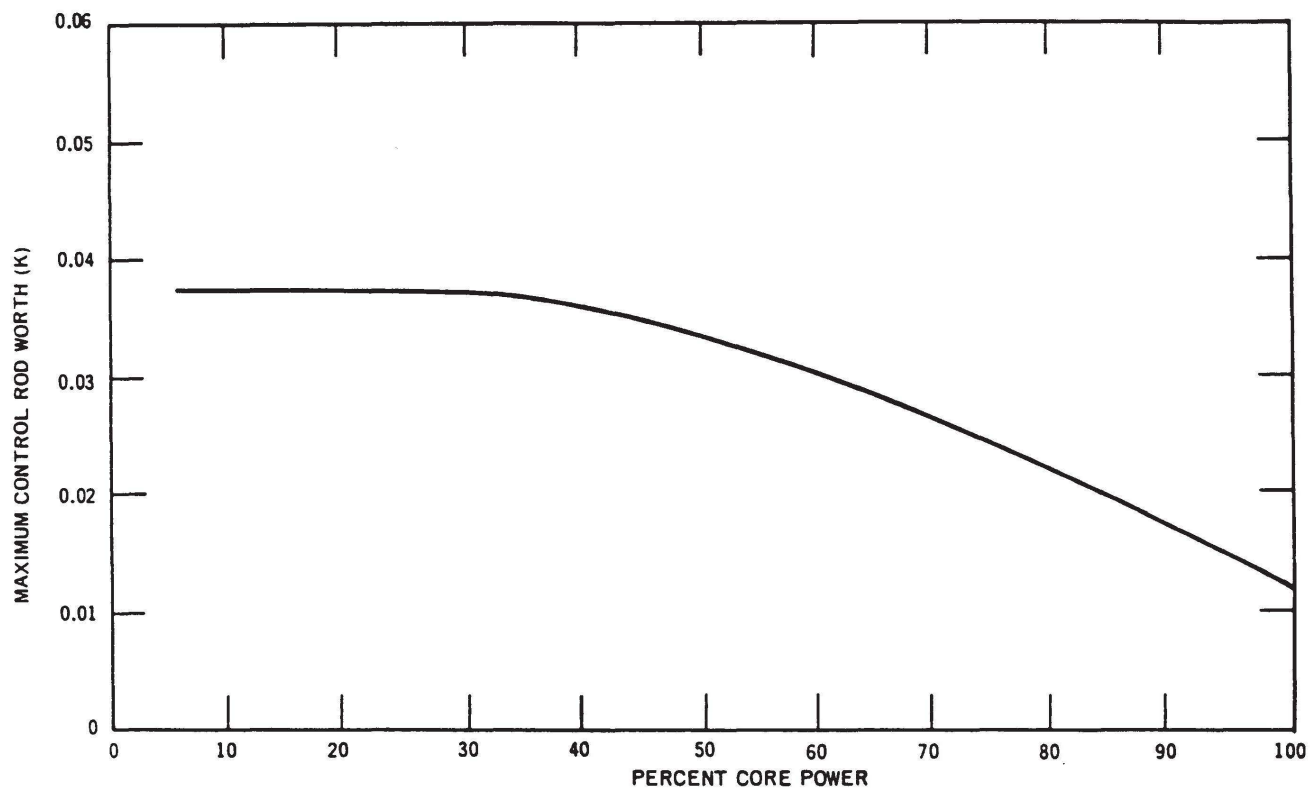
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NOTE: Historical Information
not accurate for current
plant conditions

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

MAXIMUM ROD WORTH VERSUS
MODERATOR DENSITY



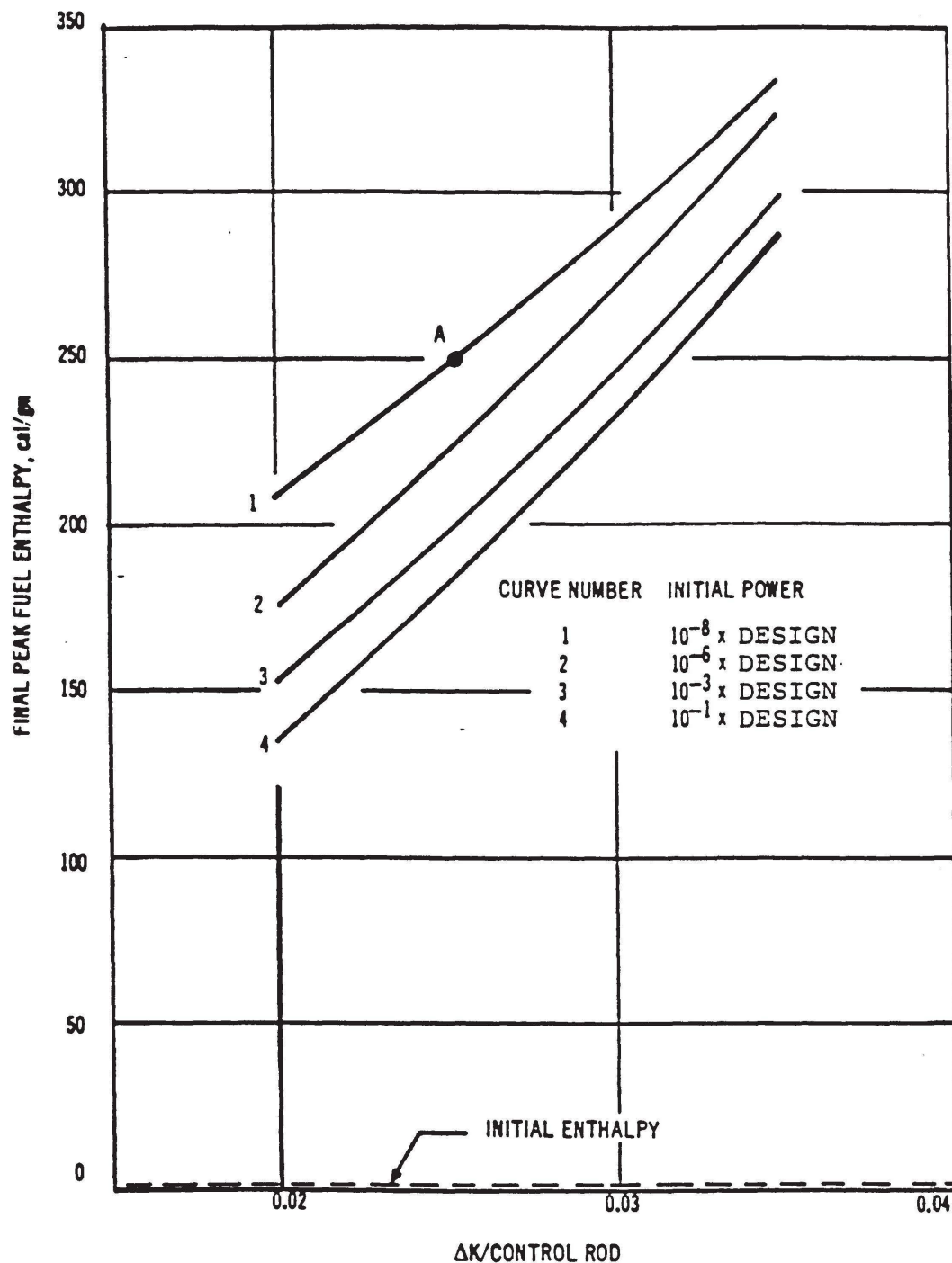
NOTE: Historical Information
not accurate for current
plant conditions

**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



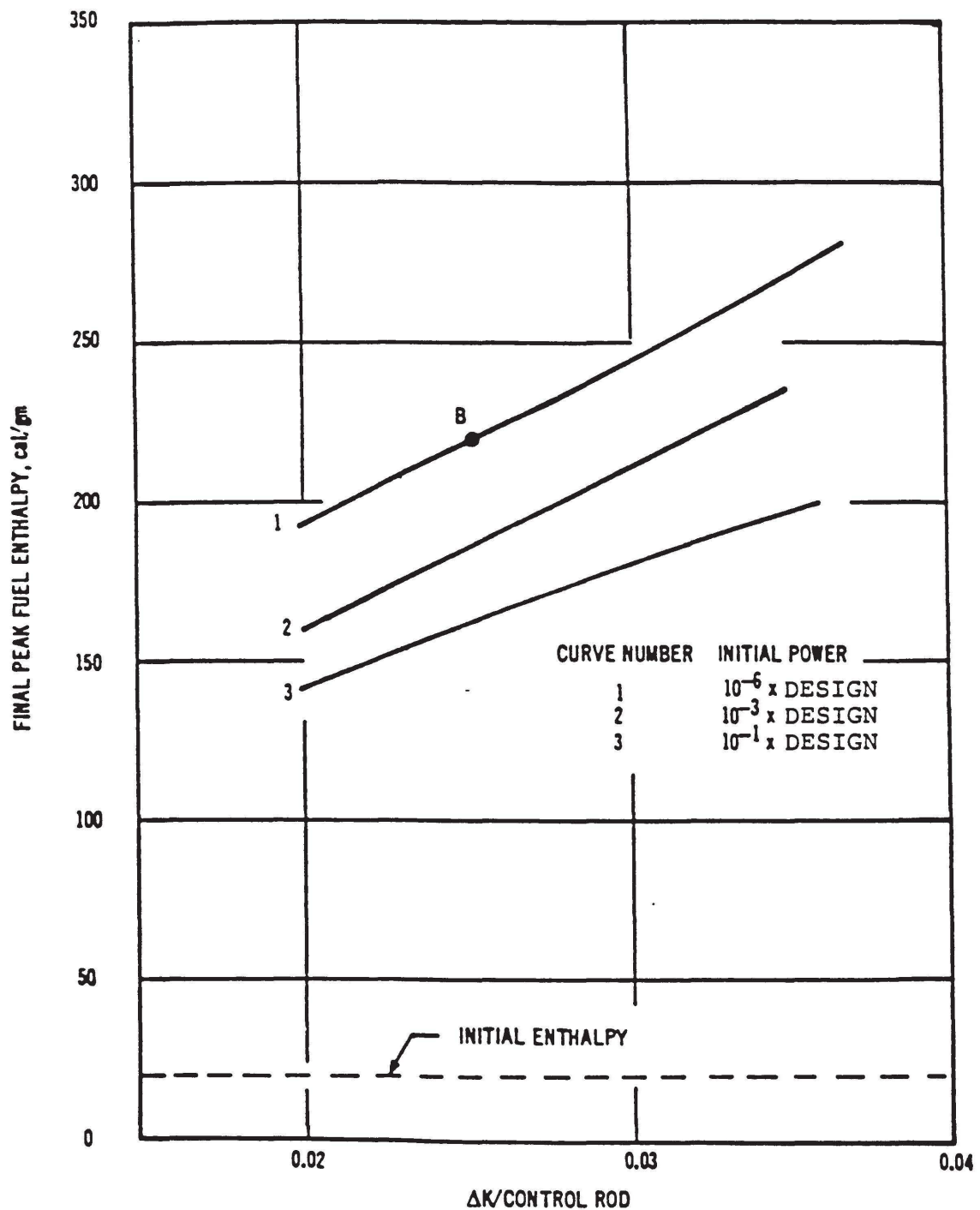
NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

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



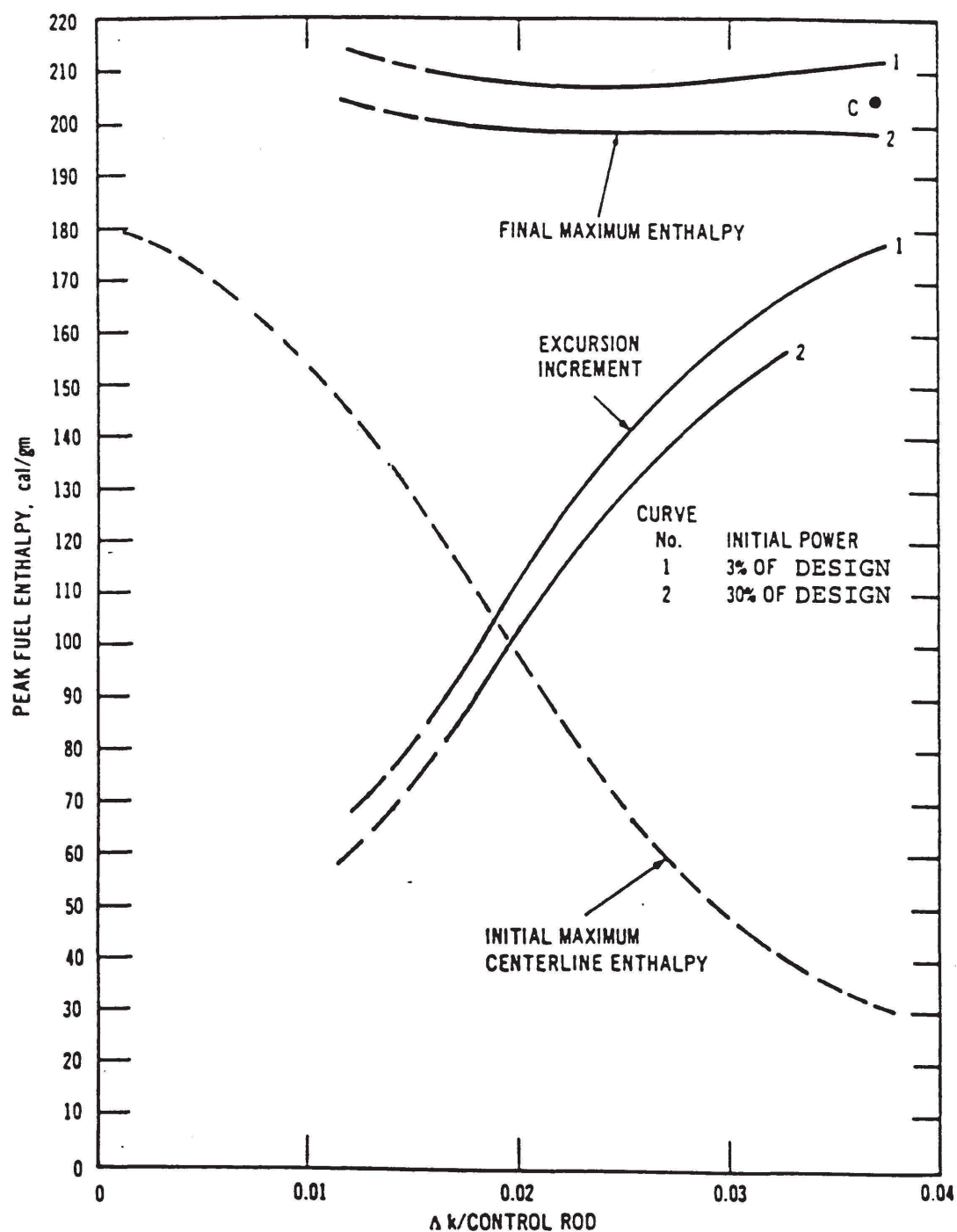
NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

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



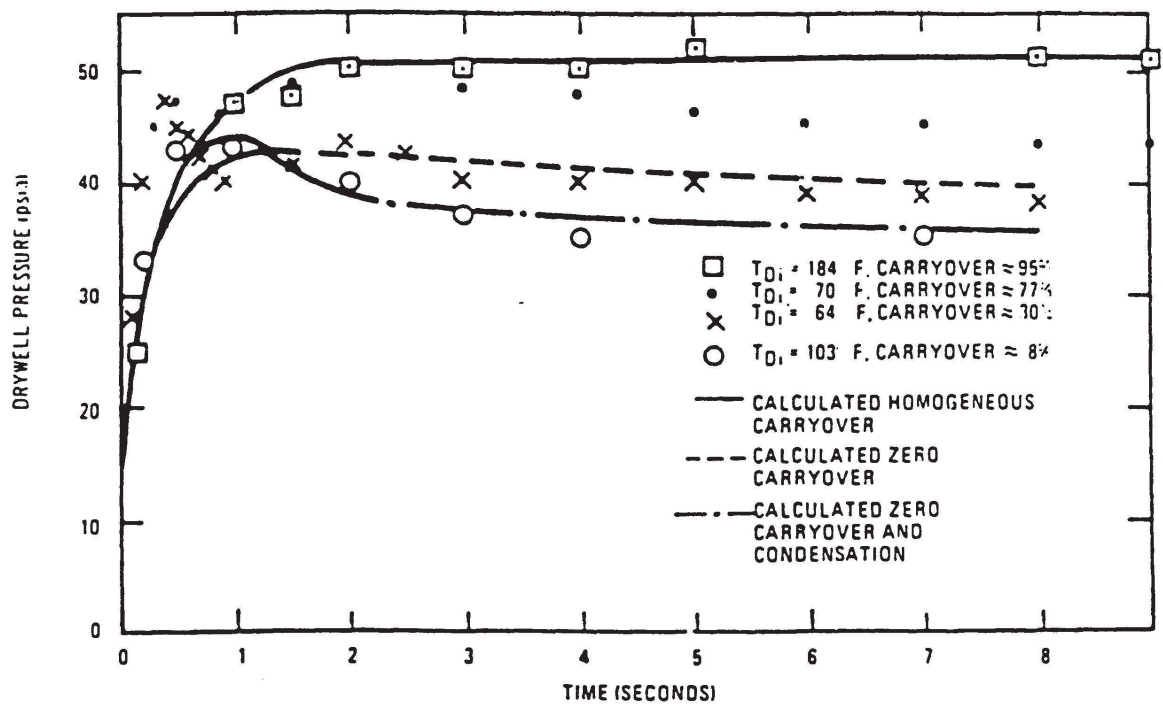
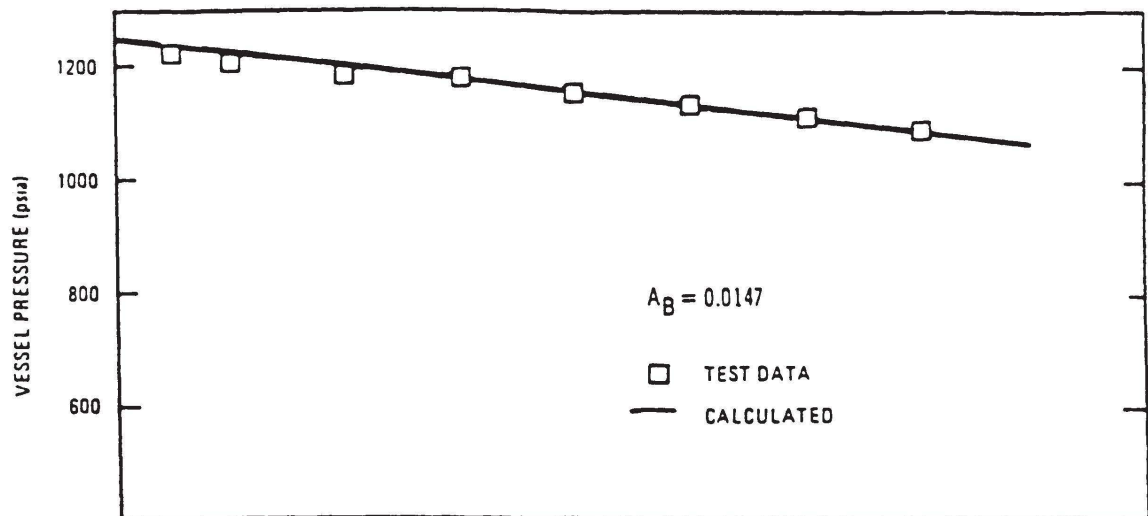
NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

**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

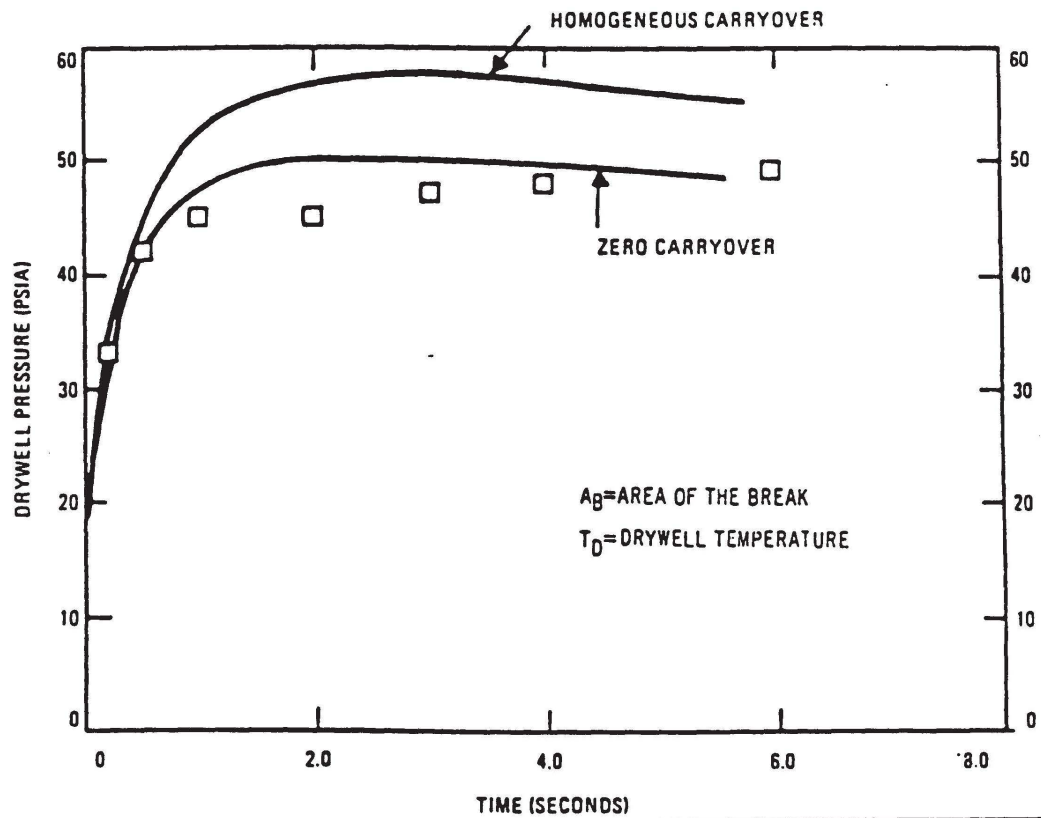
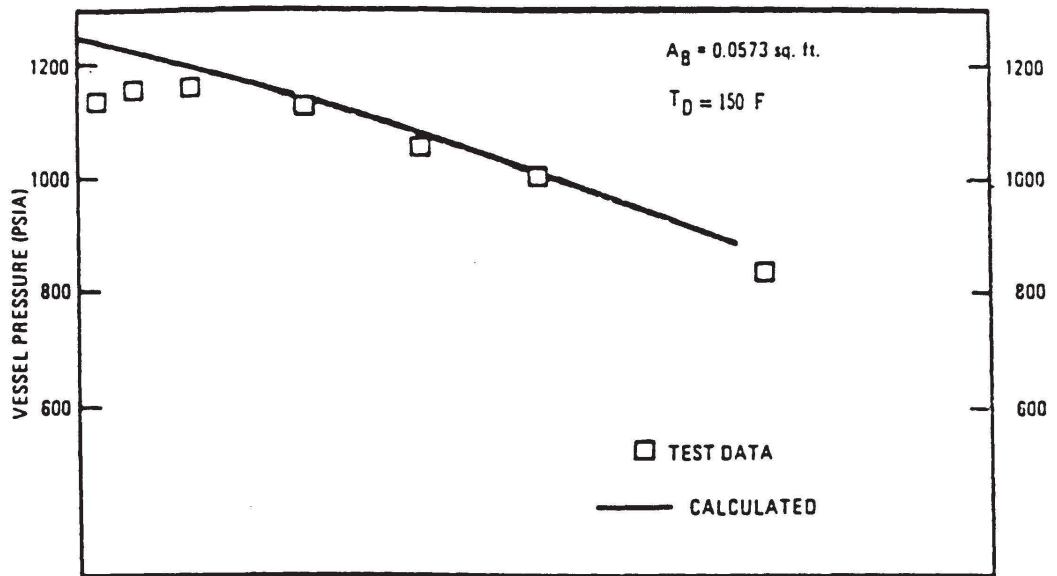
T_{D_i} = INITIAL DRYWELL TEMPERATURE

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

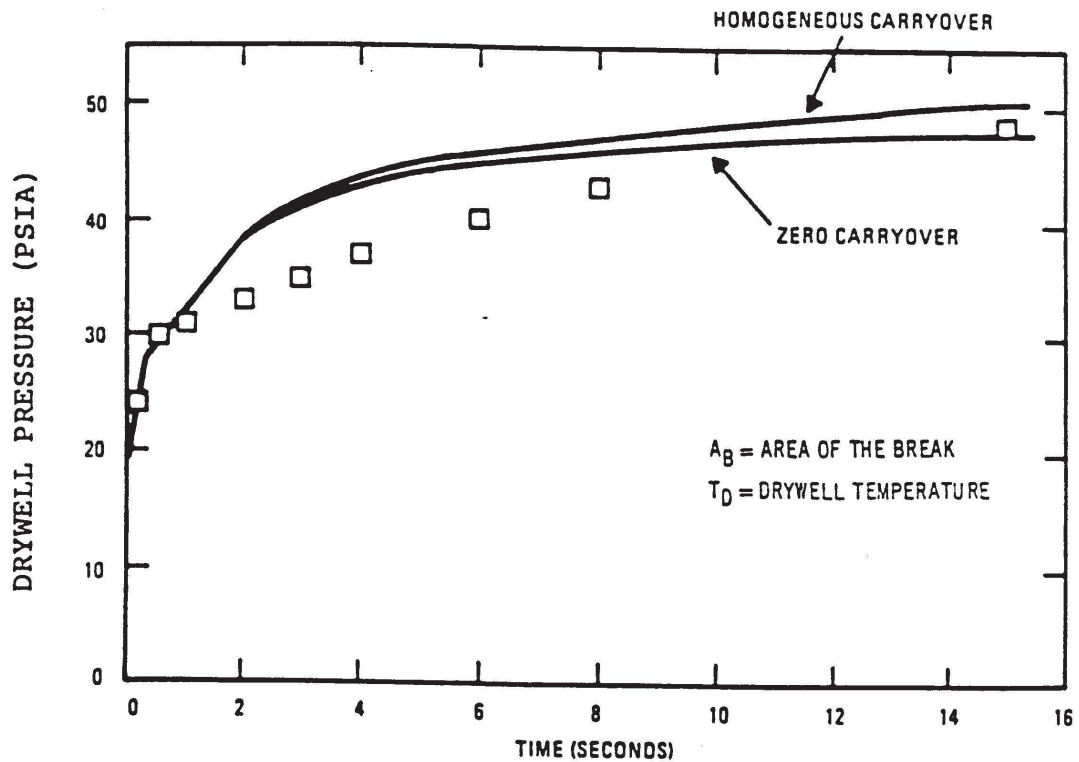
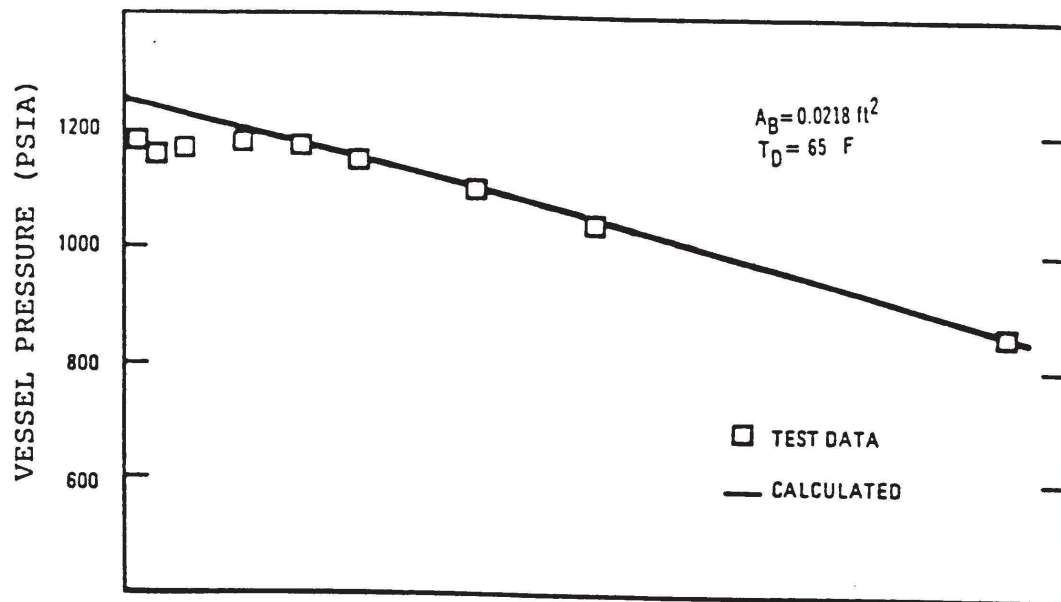


PECO ENERGY COMPANY
 PEACH BOTTOM ATOMIC POWER STATION
 UNITS 2 AND 3
 UPDATED FINAL SAFETY ANALYSIS REPORT

LOCA — BODEGA BAY
 PRIMARY CONTAINMENT PRESSURE
 RESPONSE

FIGURE 14.6.7

REV. 14 05/97

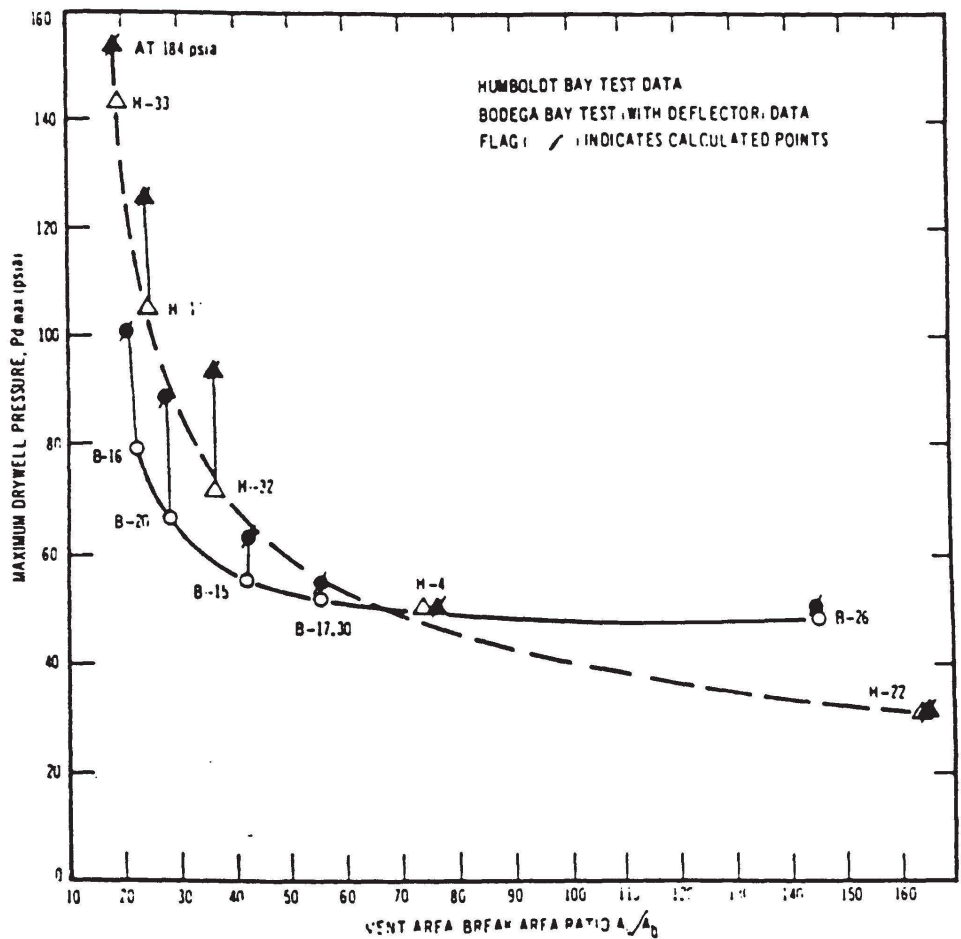


PECO ENERGY COMPANY
 PEACH BOTTOM ATOMIC POWER STATION
 UNITS 2 AND 3
 UPDATED FINAL SAFETY ANALYSIS REPORT

LOCA - BODEGA BAY
 PRIMARY CONTAINMENT PRESSURE
 RESPONSE

FIGURE 14.6.8

REV. 14 05/97

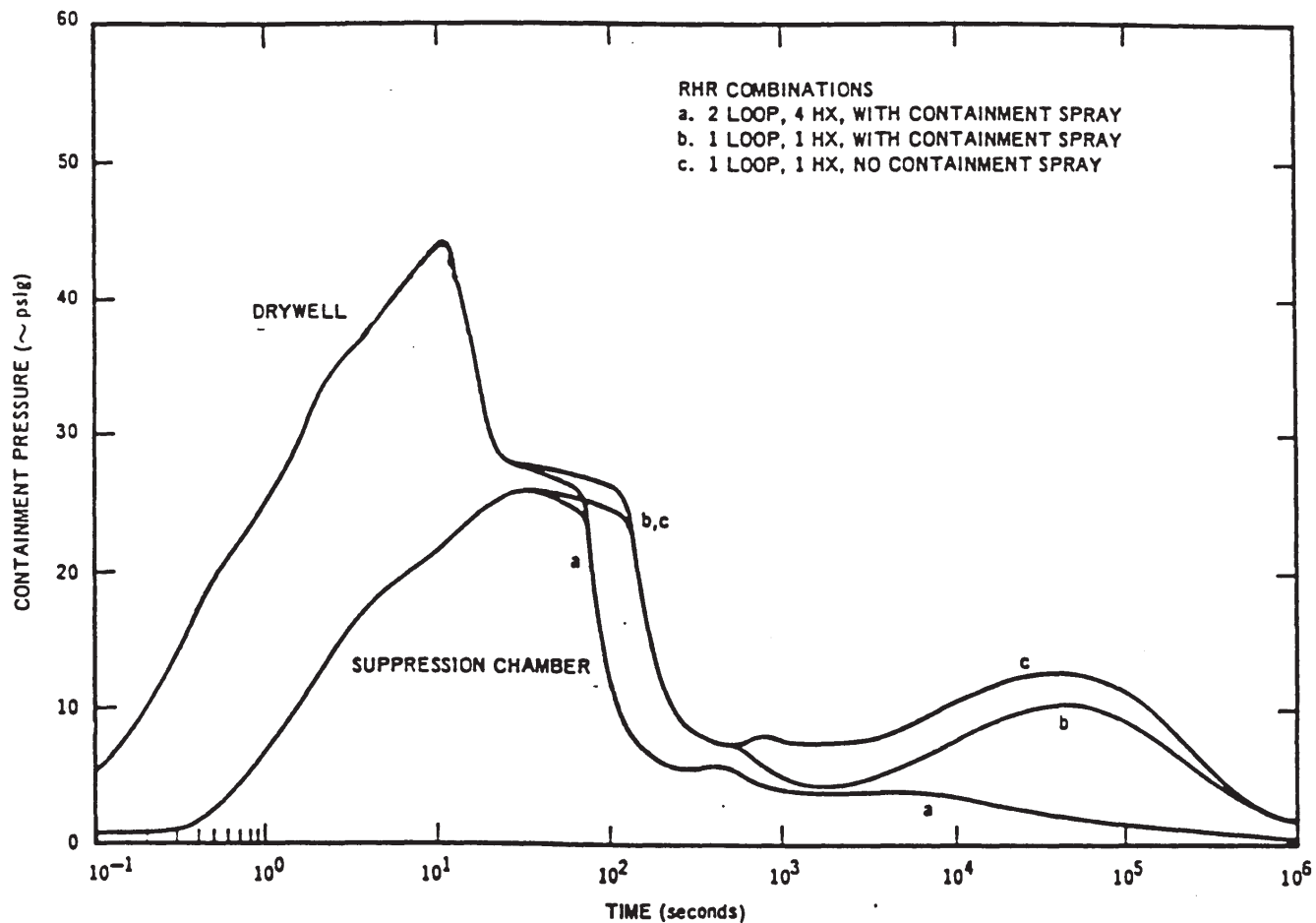


PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

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

PEACH BOTTOM

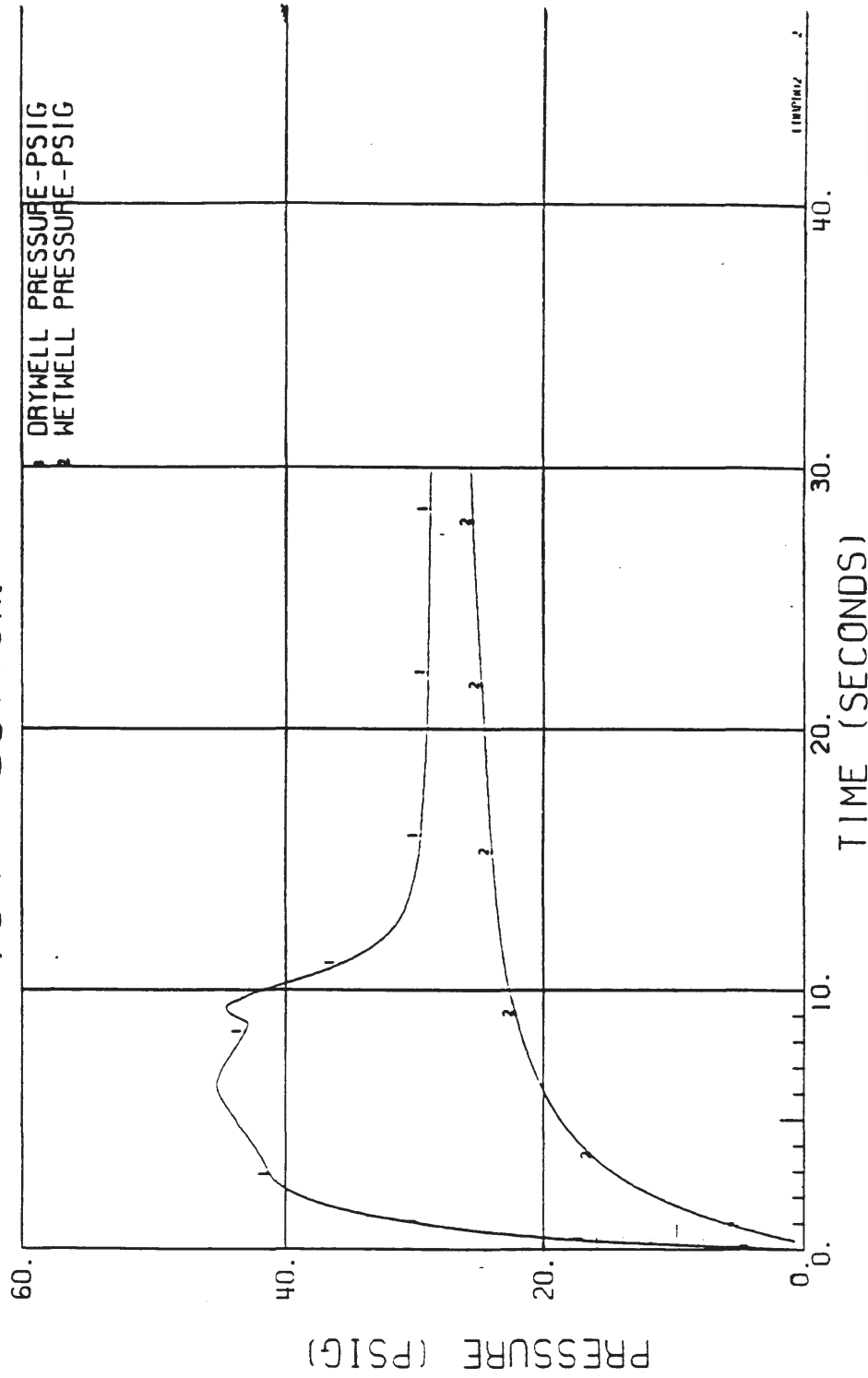


Figure 14.6.10A Pressure Response as a Function of Time
at 3696 MWt and 100% Core Flow - 55°F FFTR

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

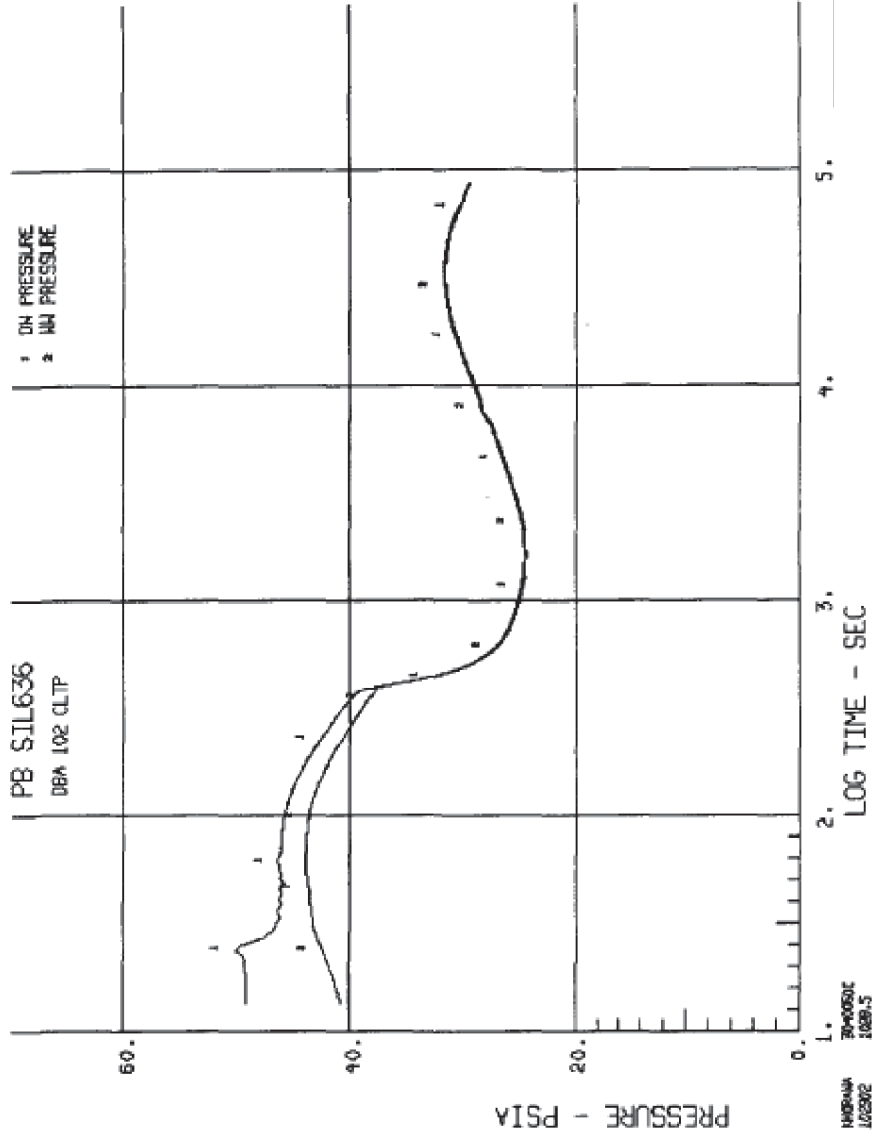
Unit 3

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

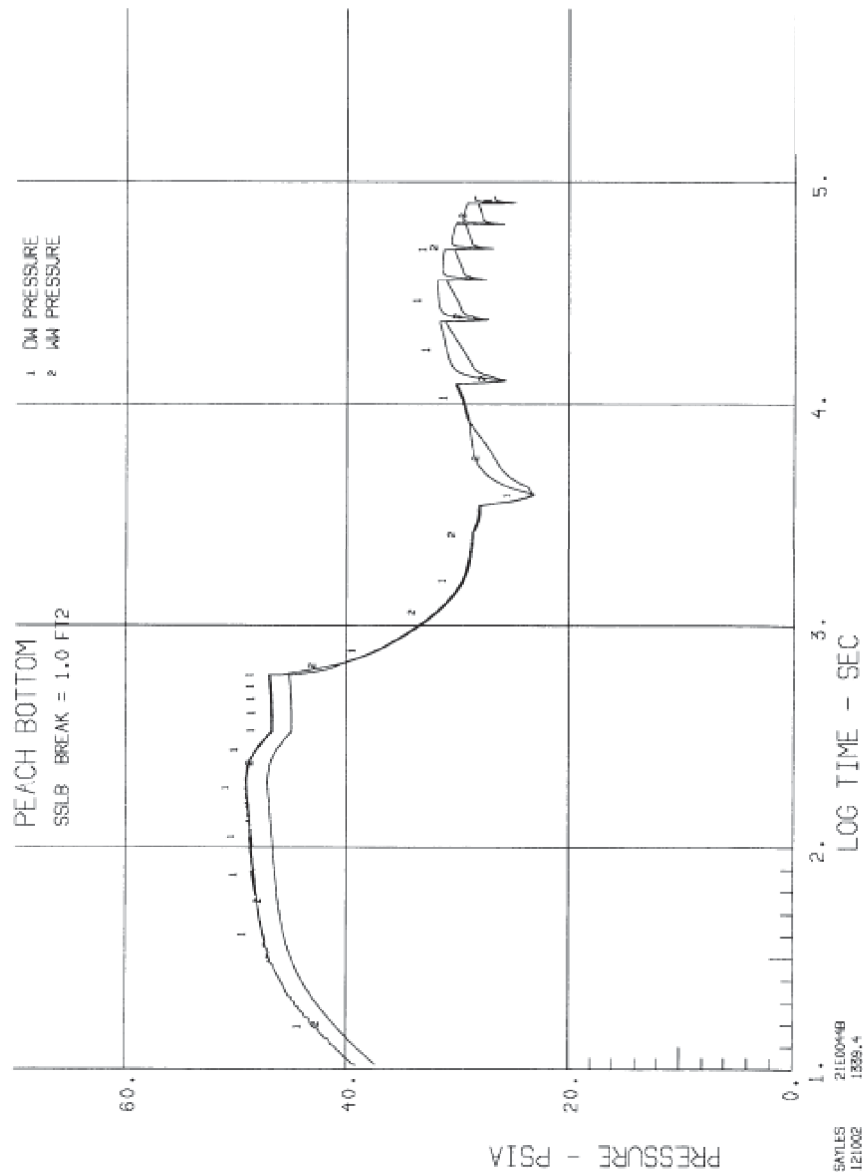
FIGURE 14.6.10A

Rev. 25 04/15

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



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

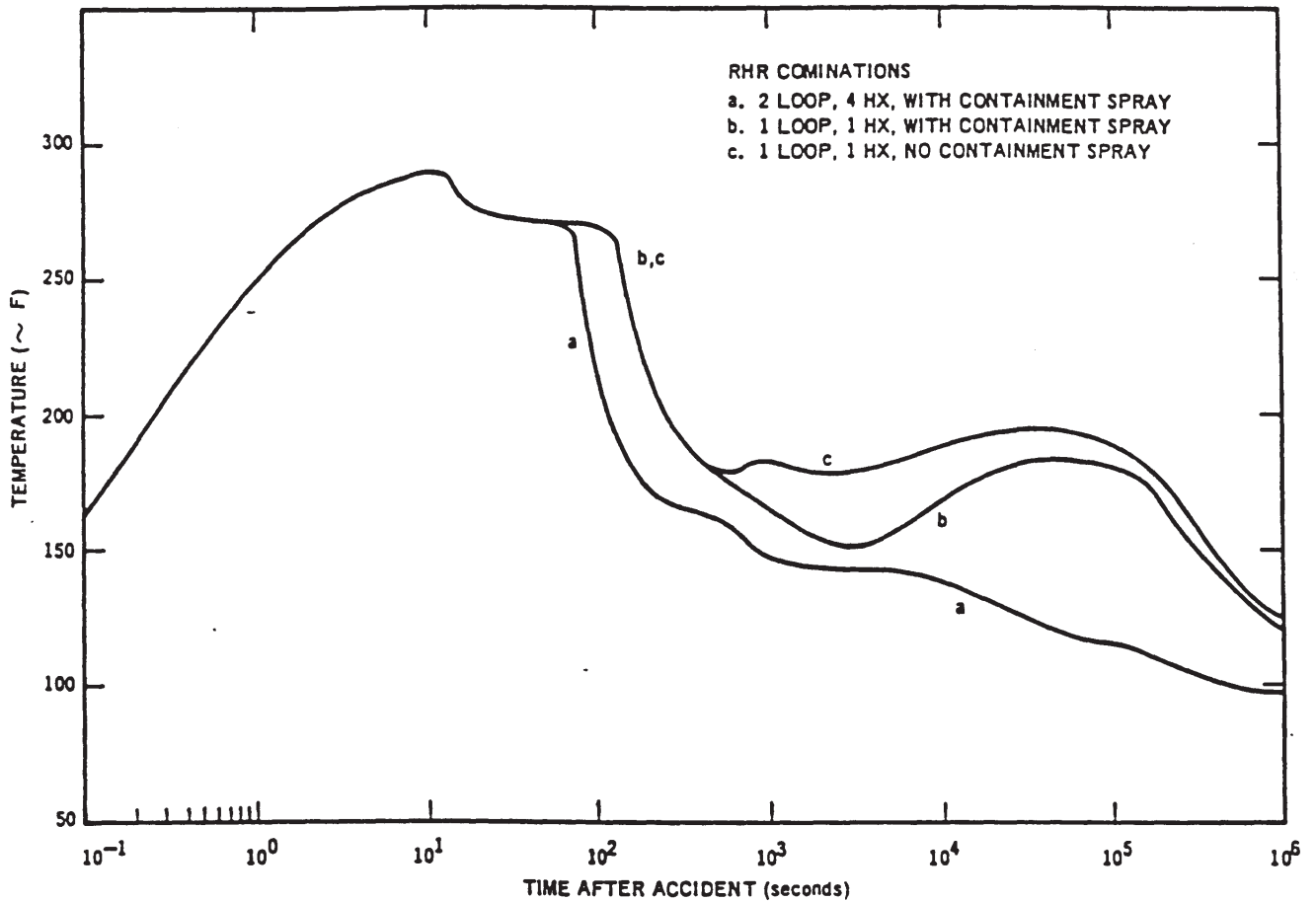


PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

CONTAINMENT PRESSURE
RESPONSE - SMALL STEAM
LINE BREAK (1.00 SQFT)

FIGURE 14.6.10C (Unit 3) REV. 25 04/15

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



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

TEMPERATURE RESP

110 102/100 I WTR

1 DRYWELL TEMP. - DEG. F
2 WETWELL TEMP. - DEG. F

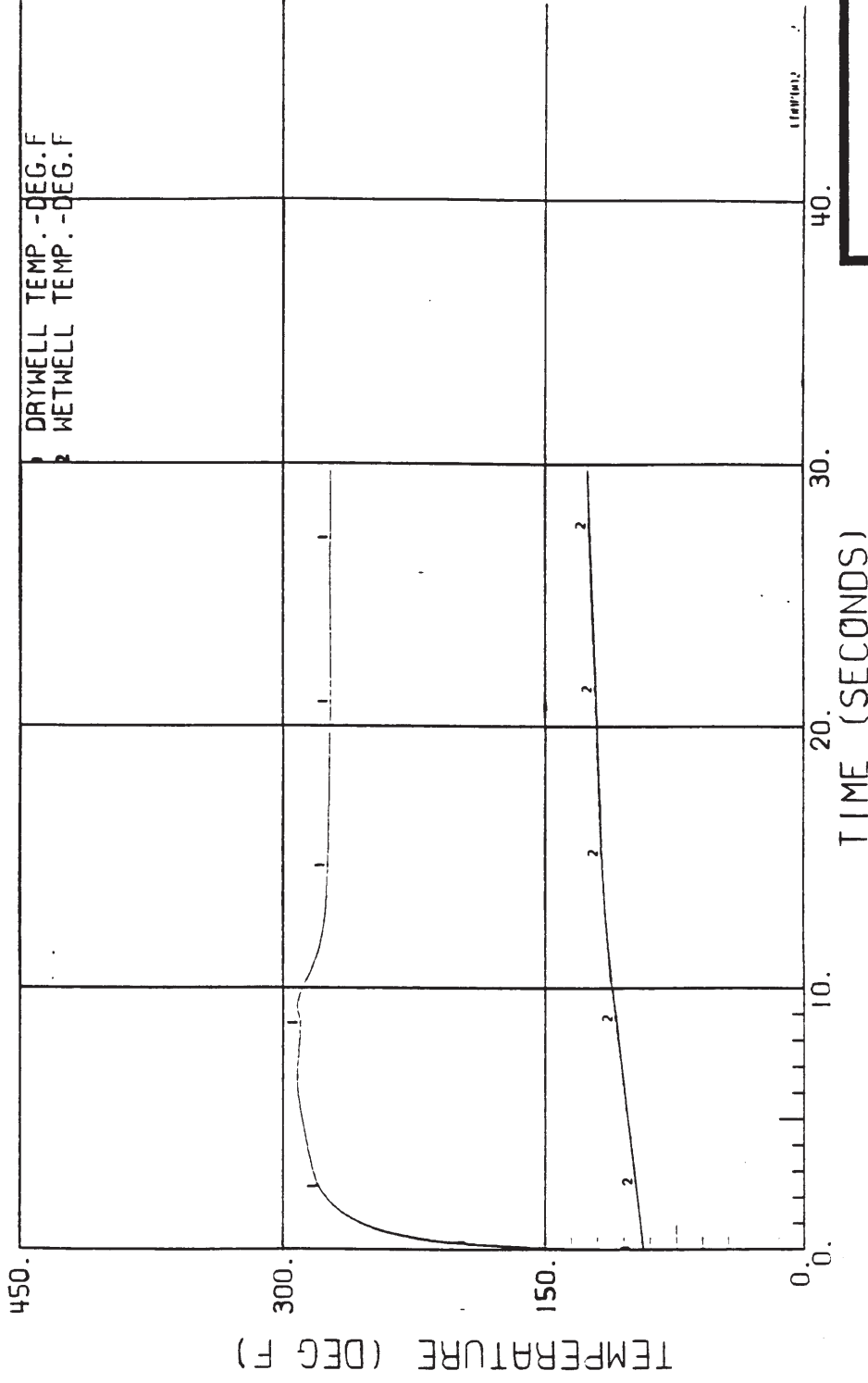


Figure 14.6.11A Temperature Response as a Function of Time at
102% Power and 100% Core Flow - PFTR
Peach Bottom 2/3 Power Reactor (LAMB Blowdown)

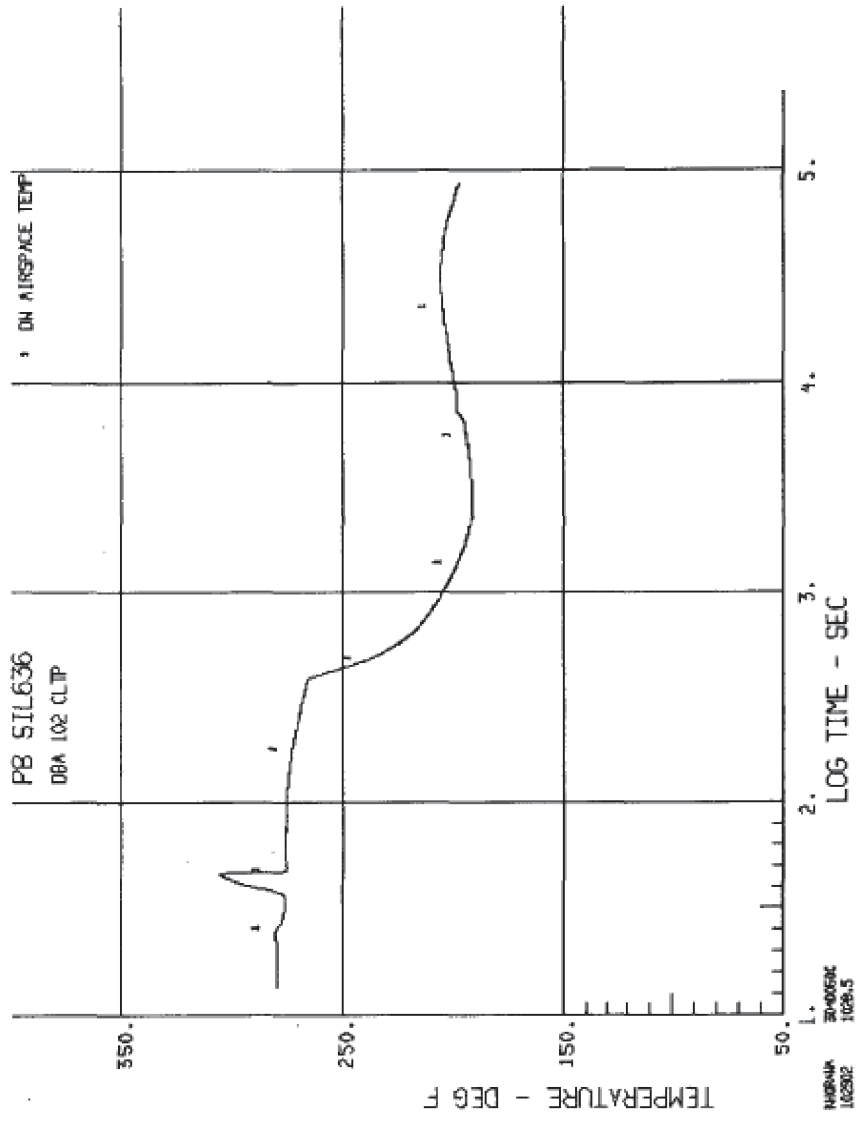
PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

Unit 3
TEMPERATURE RESPONSE AS A
FUNCTION OF TIME AT 36% MWT
AND 100% CORE FLOW

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

FIGURE 14.6.11A

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

LONG TERM DRYWELL AIRSPACE
TEMPERATURE RESPONSE -
NORMAL ECCS FLOW

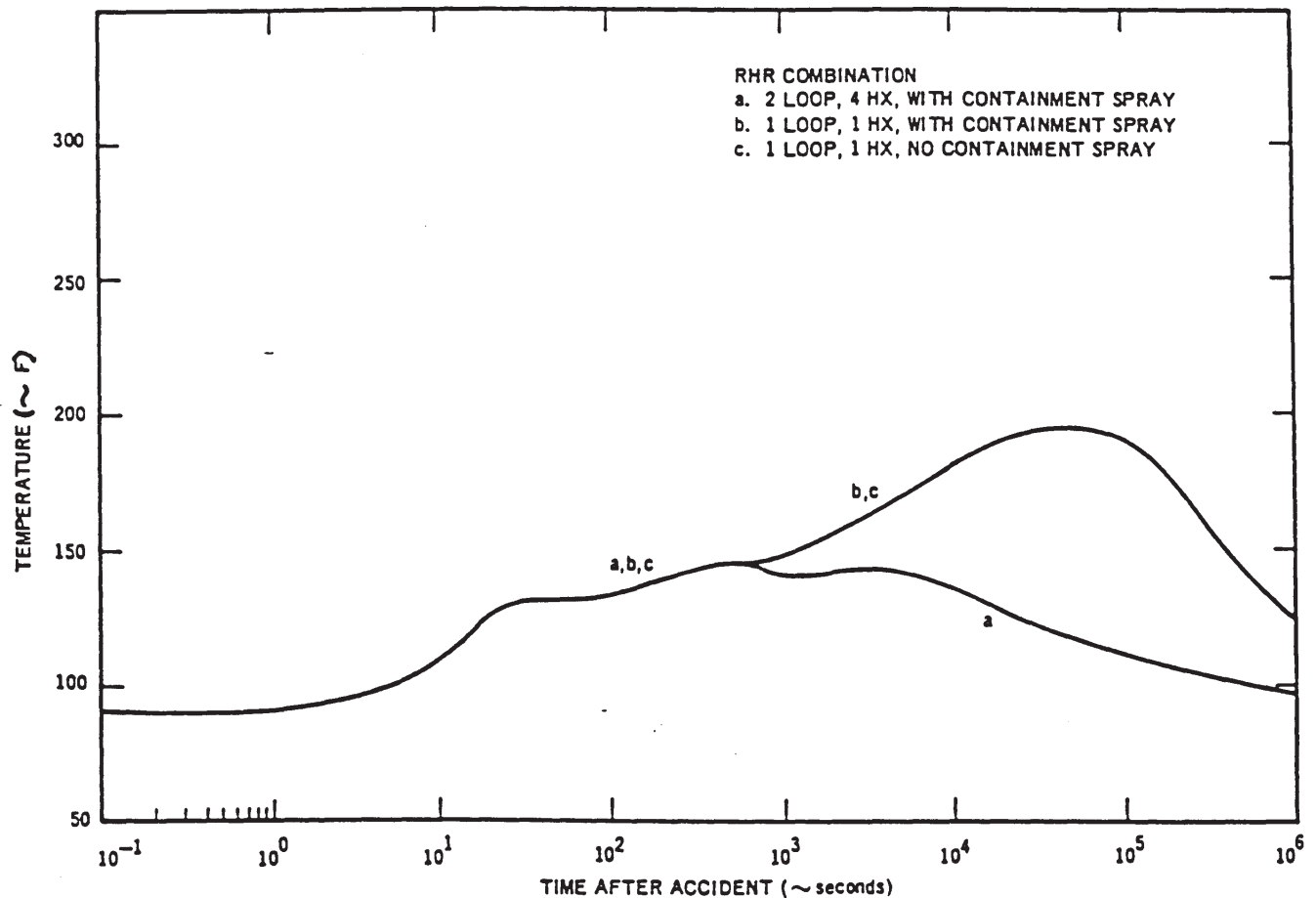
FIGURE 14.6.11B Unit 3 REV. 25 04/15

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



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

FIGURE 14.6.11C



Unit 2

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

Unit 3

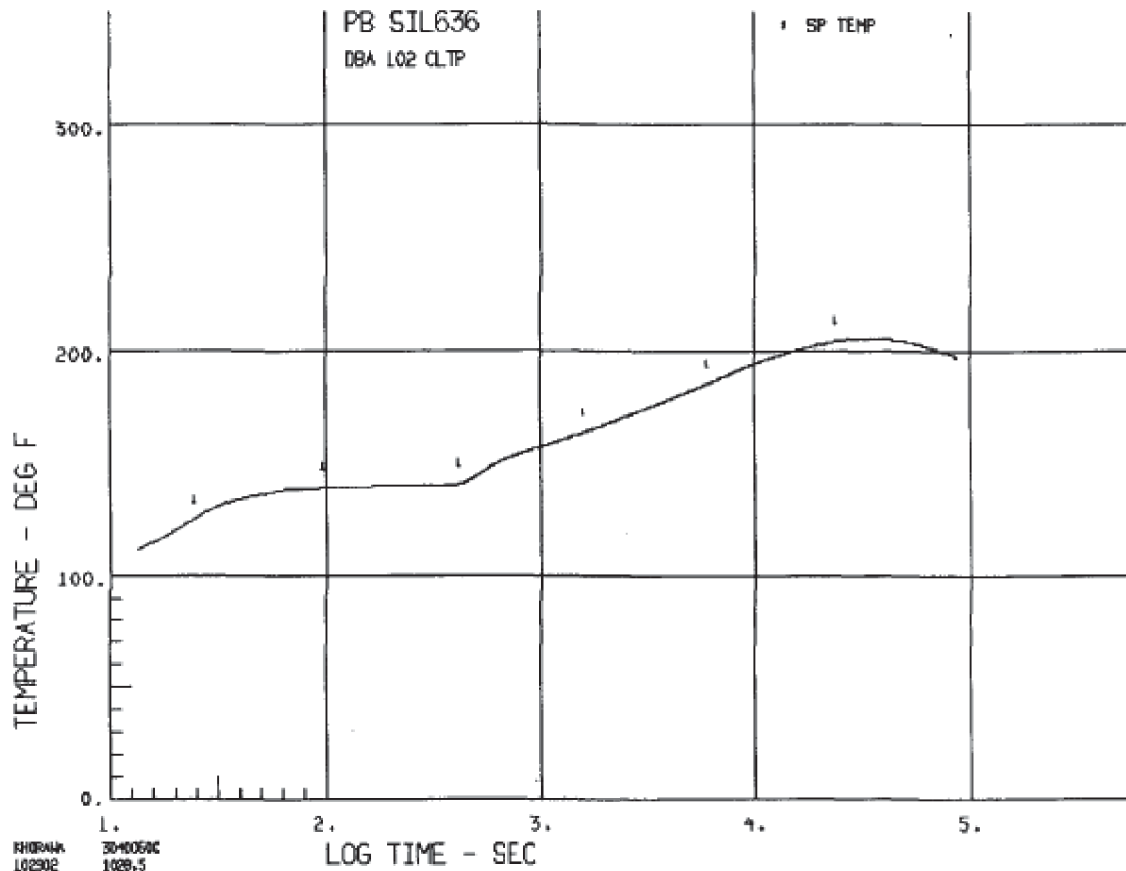
NOTE: Historical information not accurate for current plant condition, however, these results continue to provide a reasonable representation of the general trends and characteristics. For current plant conditions see Figures 14.6-12A.

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
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LOCA - SUPPRESSION
POOL TEMPERATURE RESPONSE

FIGURE 14.6.12

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

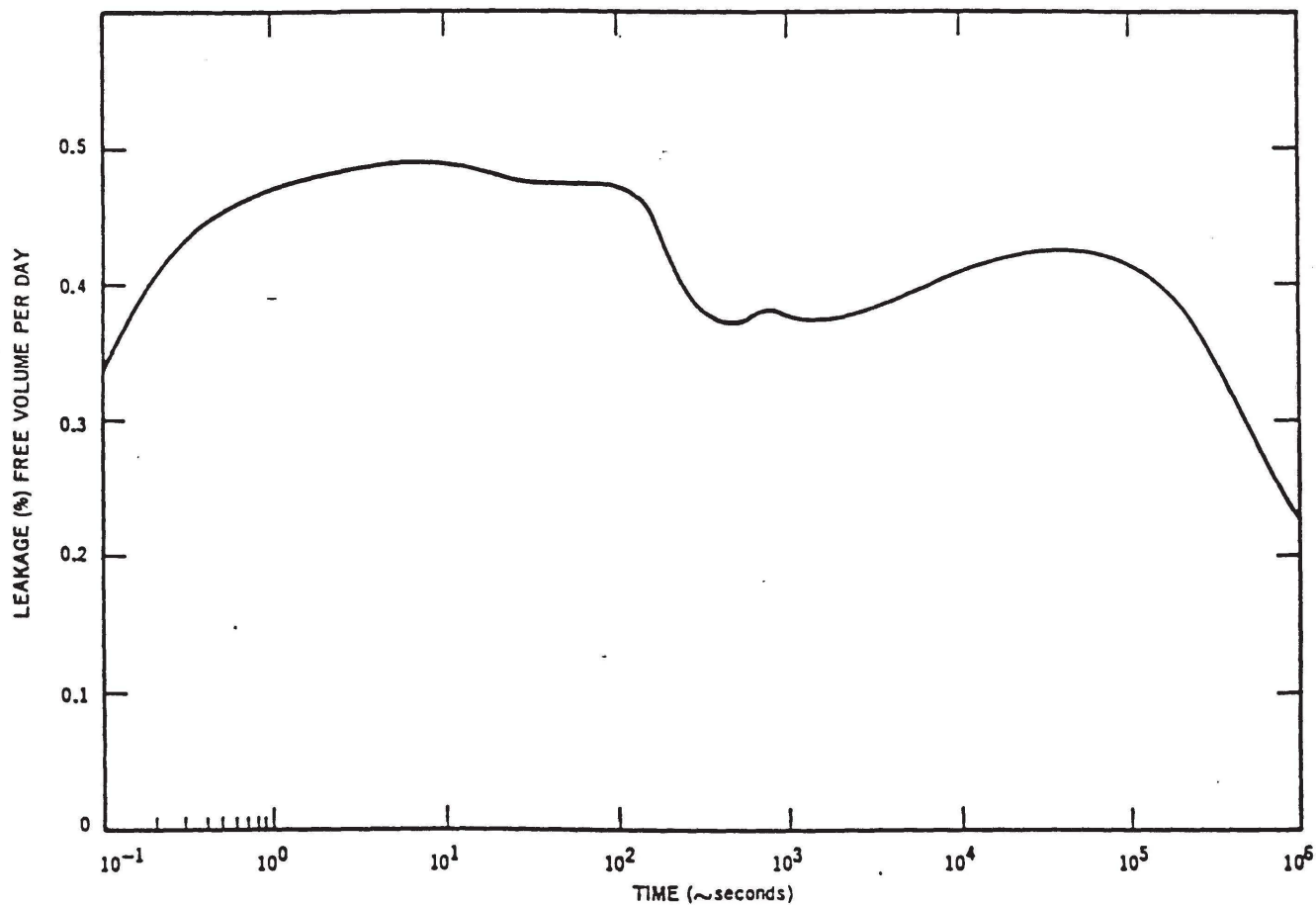
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

LONG TERM SUPPRESSION
POOL TEMPERATURE RESPONSE -
NORMAL ECCS FLOW

FIGURE 14.6.12A

Unit 3

REV. 25 04/15



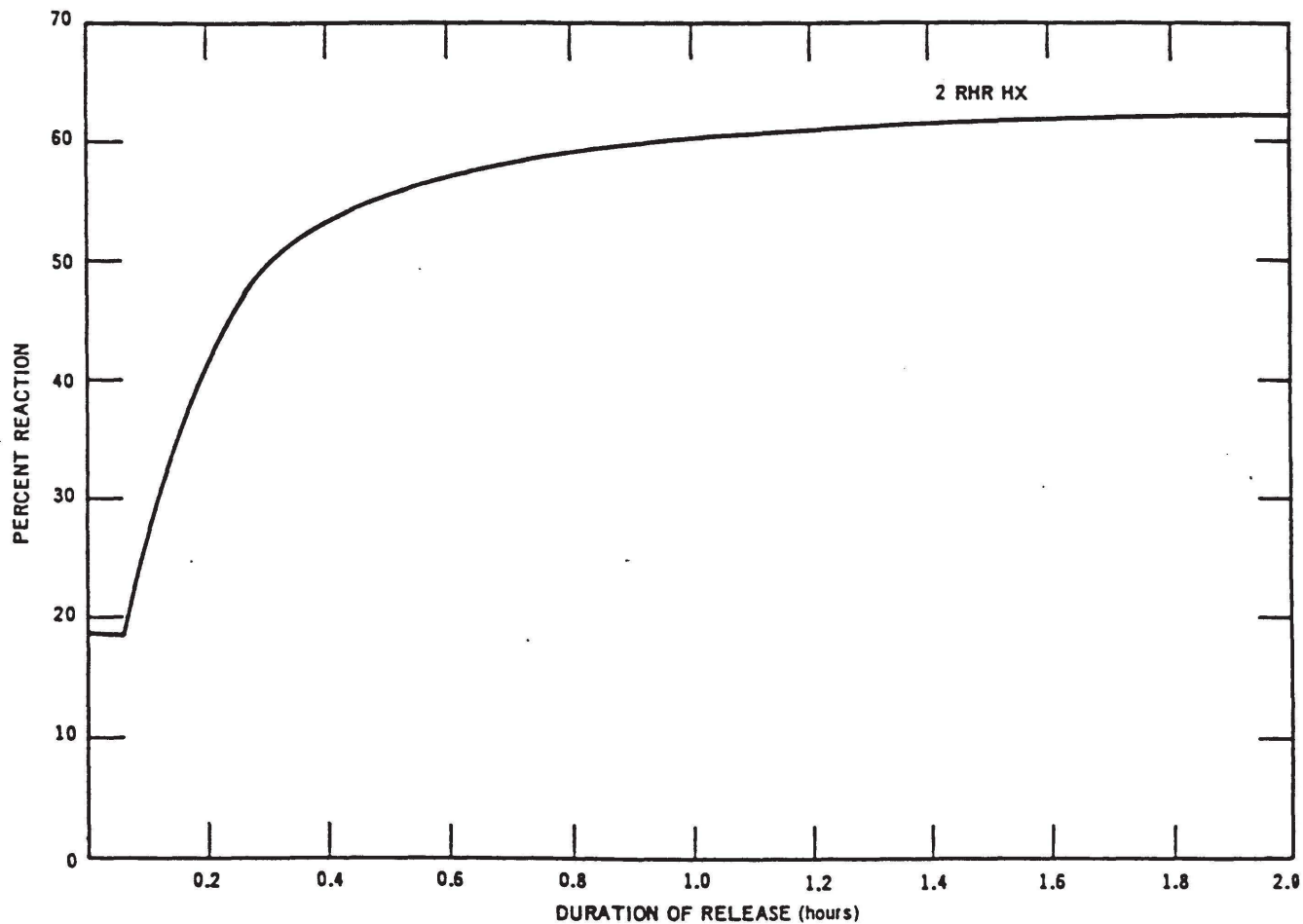
NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

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

PRIMARY CONTAINMENT LEAK RATE

FIGURE 14.6.13

REV. 14 05/97



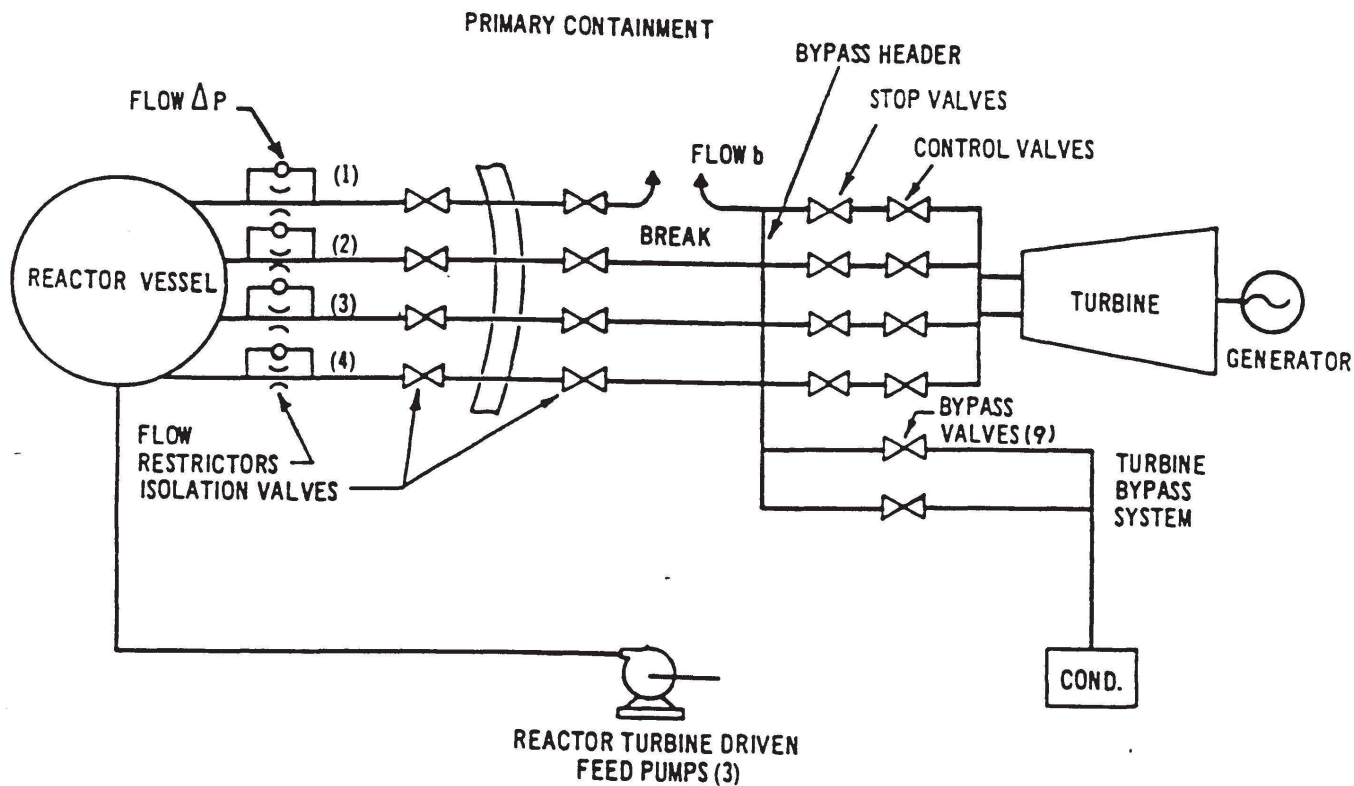
NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

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

**PRIMARY CONTAINMENT CAPABILITY
INDEX FOR METAL-WATER REACTION**

FIGURE 14.6.14

REV. 14 05/97

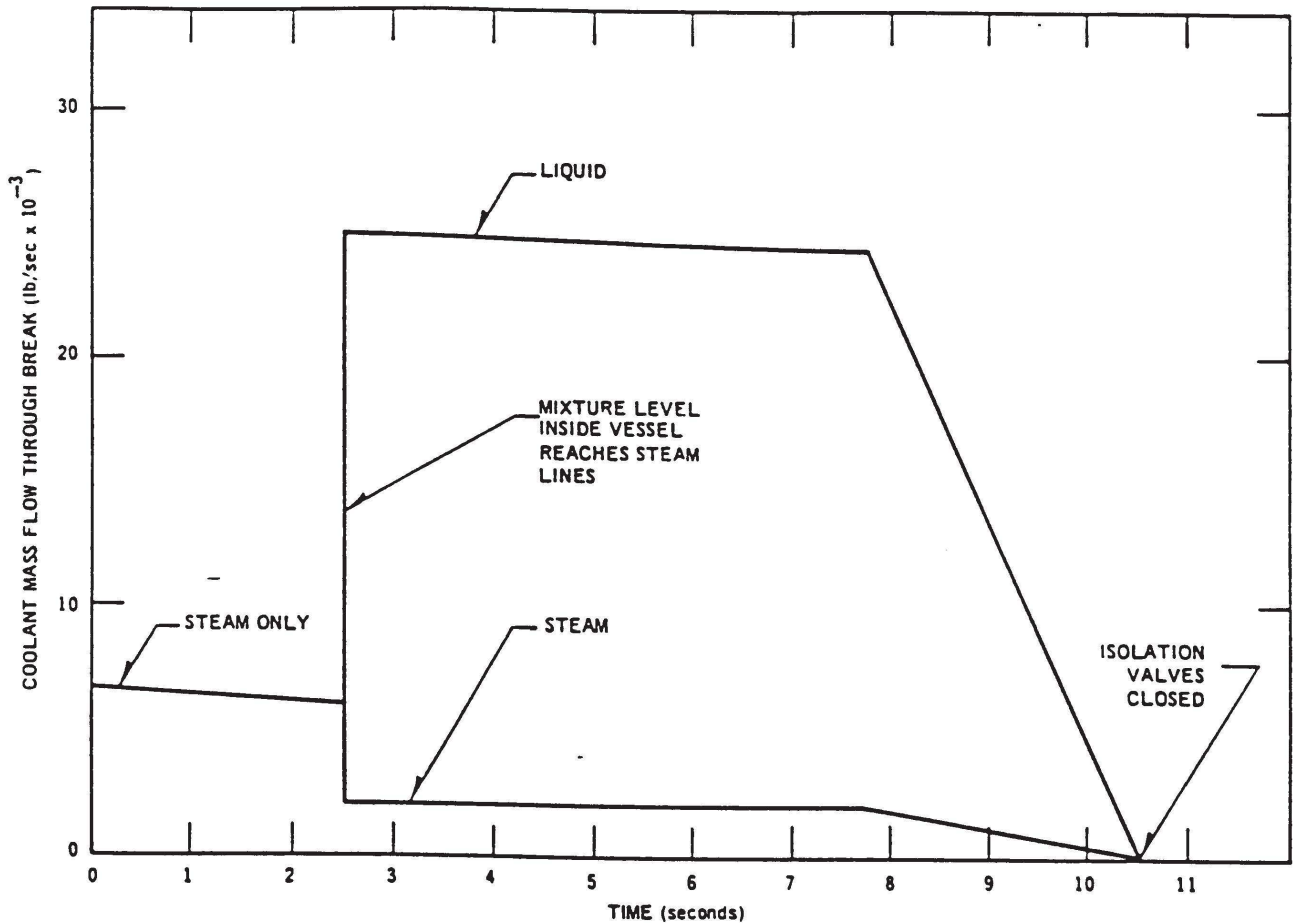


**PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

**MAIN STEAM LINE BREAK
ACCIDENT — BREAK LOCATION**

FIGURE 14.6.15

REV. 14 05/97



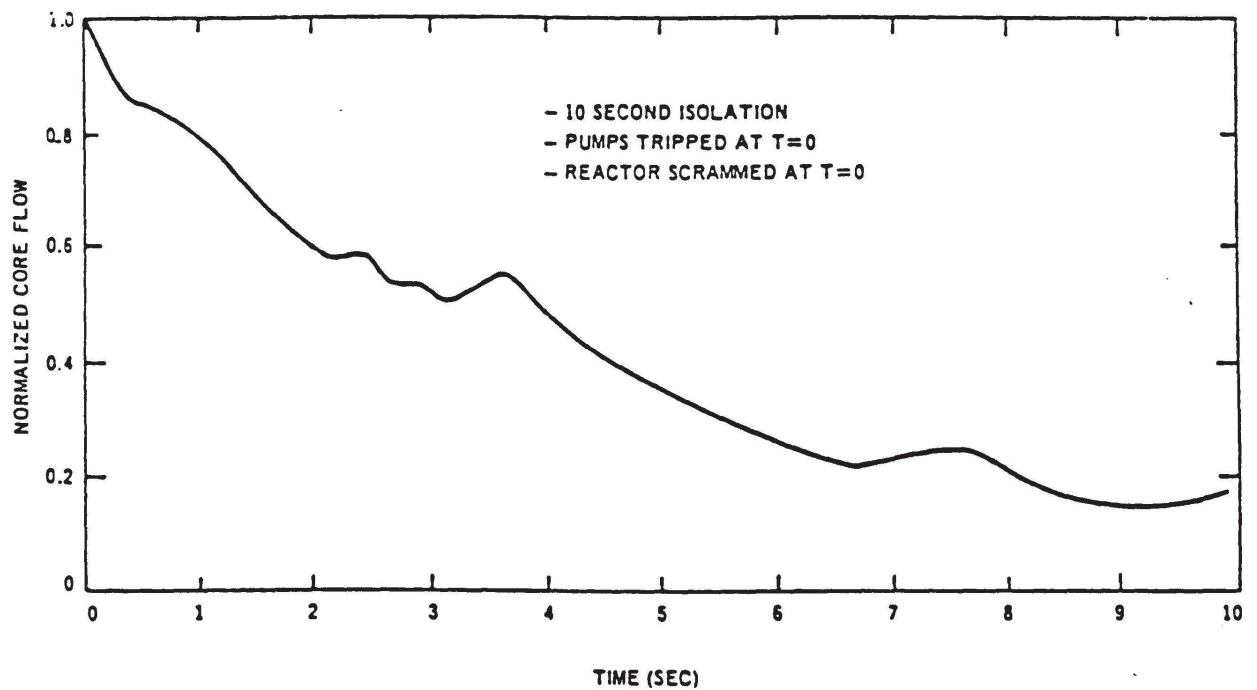
NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

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

**MAIN STEAM LINE BREAK
ACCIDENT — MASS OF
COOLANT THROUGH BREAK**

FIGURE 14.6.16

REV. 14 05/97



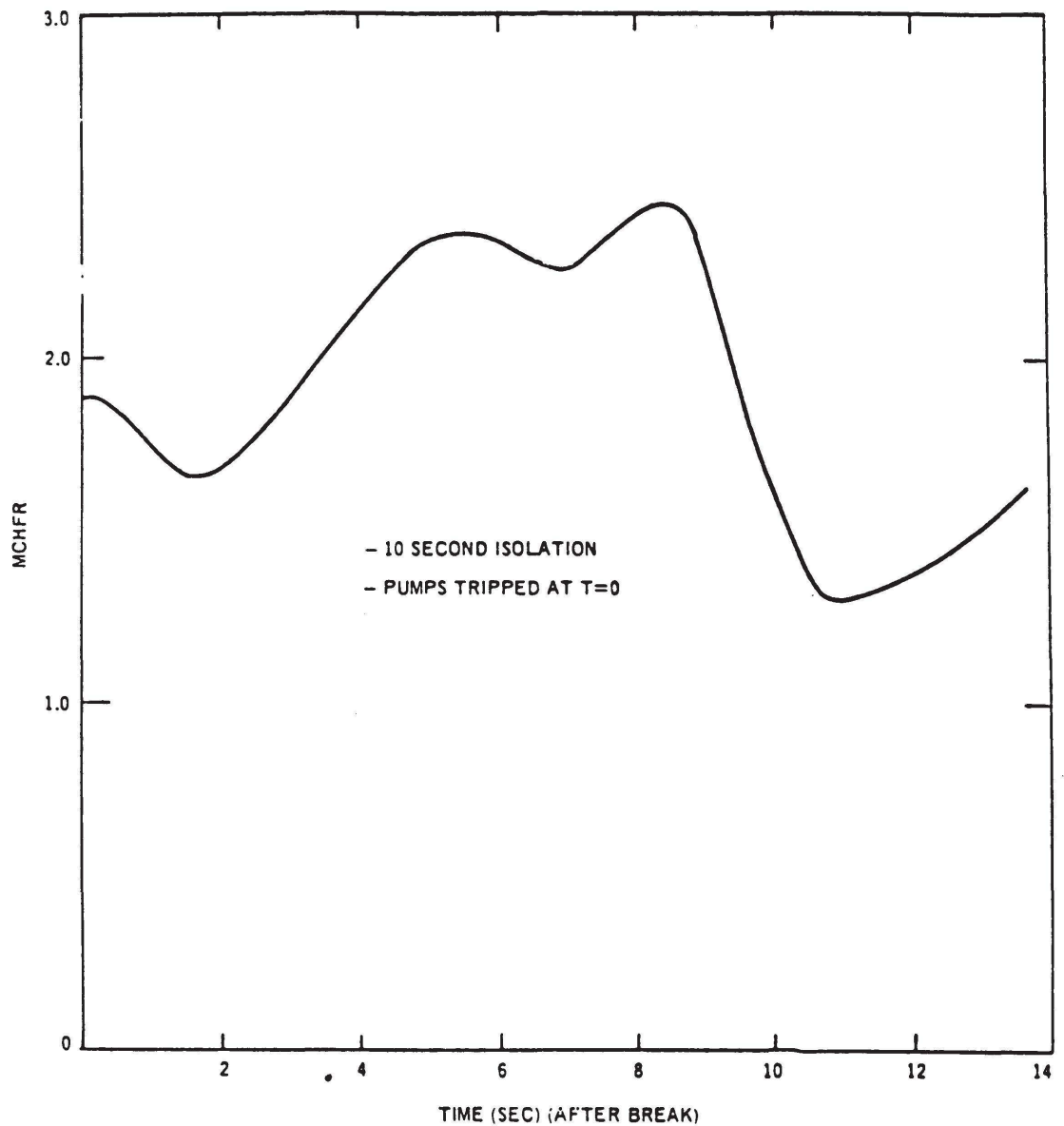
NOTE: Historical Information not accurate for current plant conditions. However, these results continue to provide a reasonable representation of the trends and characteristics.

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

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

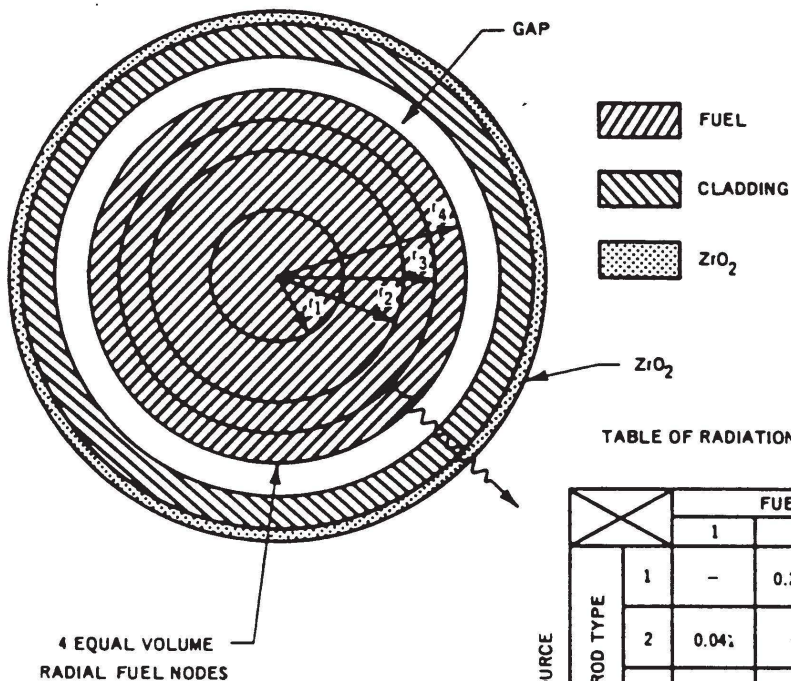
PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

MAIN STEAM LINE BREAK
ACCIDENT - MINIMUM CRITICAL
HEAT FLUX RATIO

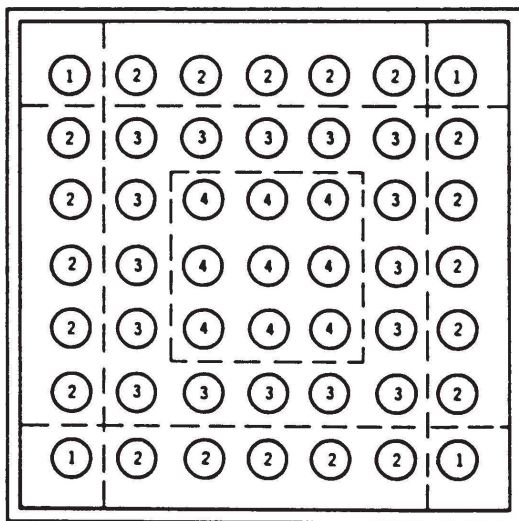
FIGURE 14.6.18

REV. 13 01/95

FUEL ROD DETAIL



CHANNEL CROSS SECTION



FUEL BUNDLE DETAIL

TABLE OF RADIATION HEAT TRANSFER COEFFICIENTS
RECEPTOR

SOURCE	FUEL ROD TYPE	FUEL ROD TYPE				CHANNEL SIDE WALL
		1	2	3	4	
FUEL ROD TYPE	1	—	0.205	0.0849	0.007	0.2914
	2	0.041	—	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

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

FUEL ROD AND FUEL BUNDLE DETAILS

PBAPS UFSAR

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)

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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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