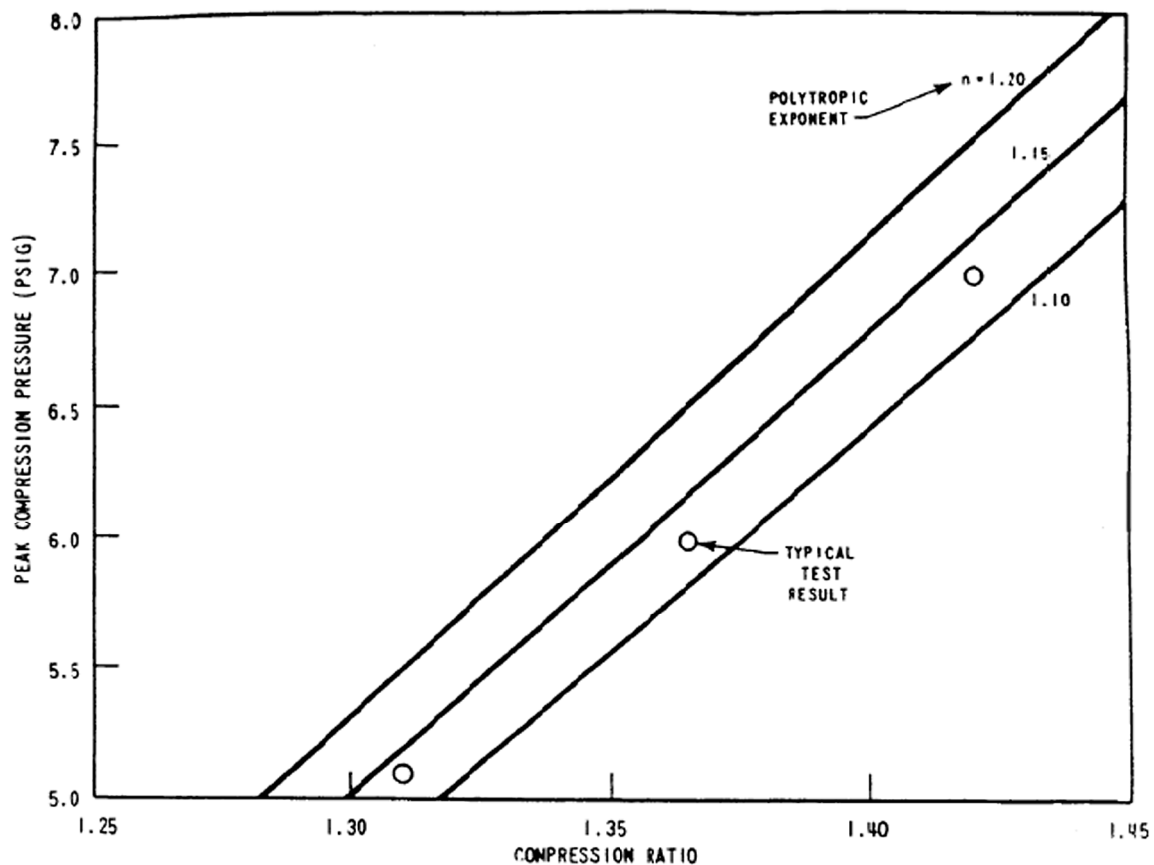


UFSAR Figure: 14.3.4-1

Change Description:  
UCR-2138, Rev. 0

Unit: 2

Title: Steam Concentration in a Vertical Distribution Channel

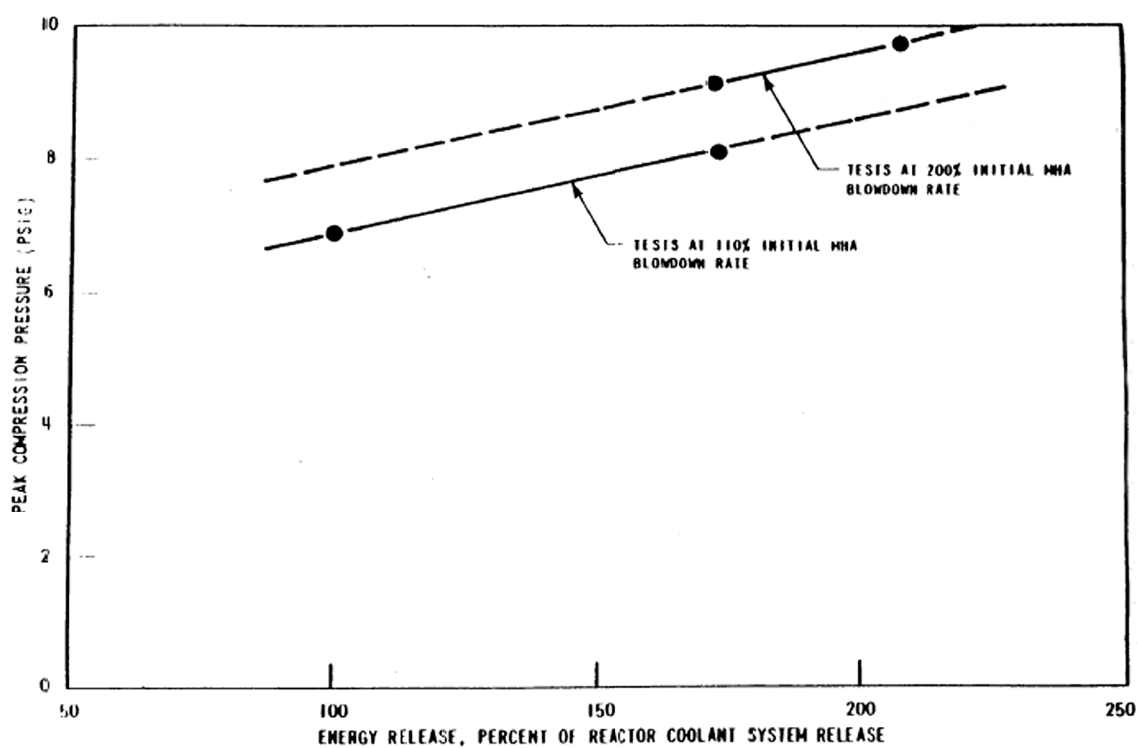


UFSAR Figure: 14.3.4-2

Change Description:  
UCR-2138, Rev. 0

Unit: 2

Title: D. C. Cook Unit 2 BELOCA Analysis is Actual Power Shape Operating Space Envelope

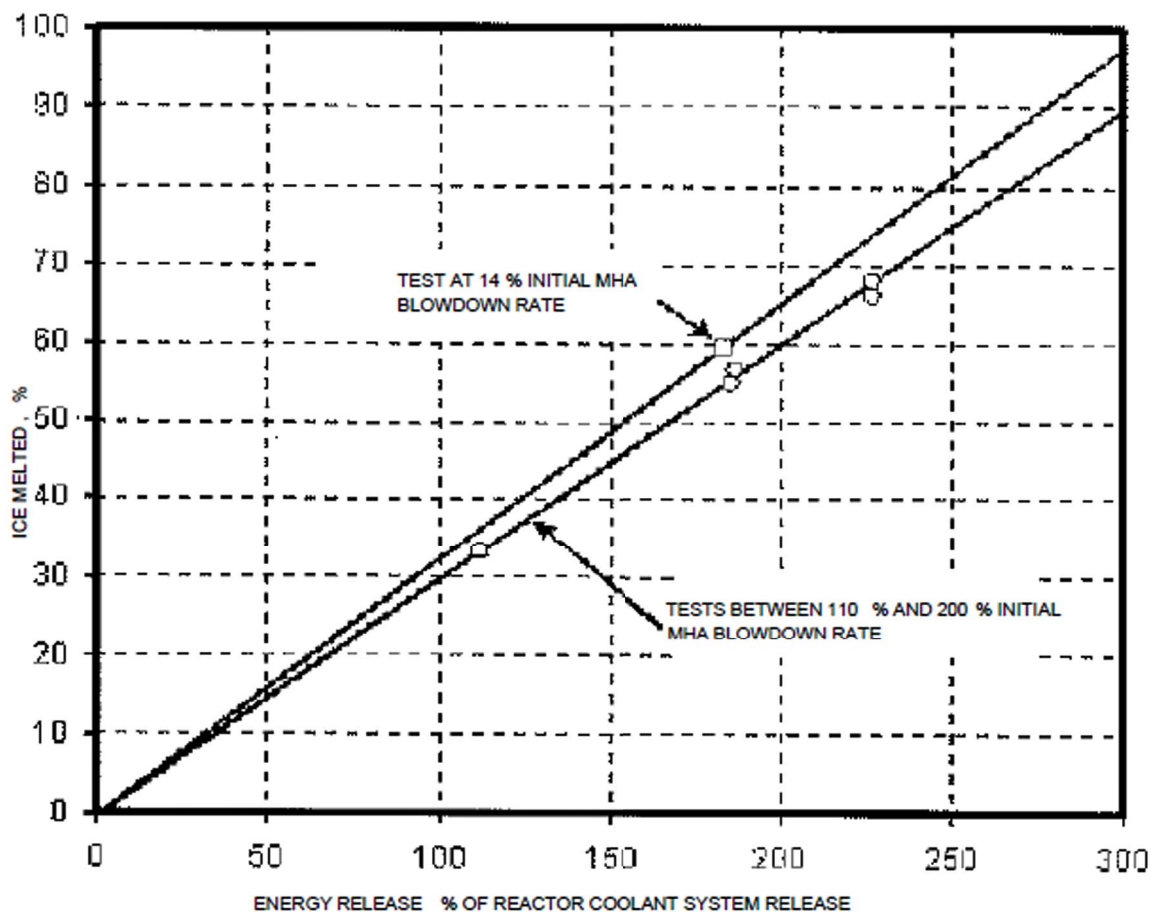


UFSAR Figure: 14.3.4-3

Change Description:  
UCR-2138, Rev. 0

Unit: 2

Title: Upper Compartment Compression Pressure versus Energy Release for  
Tests at 110% and 200% of Initial DBA Blowdown Rate



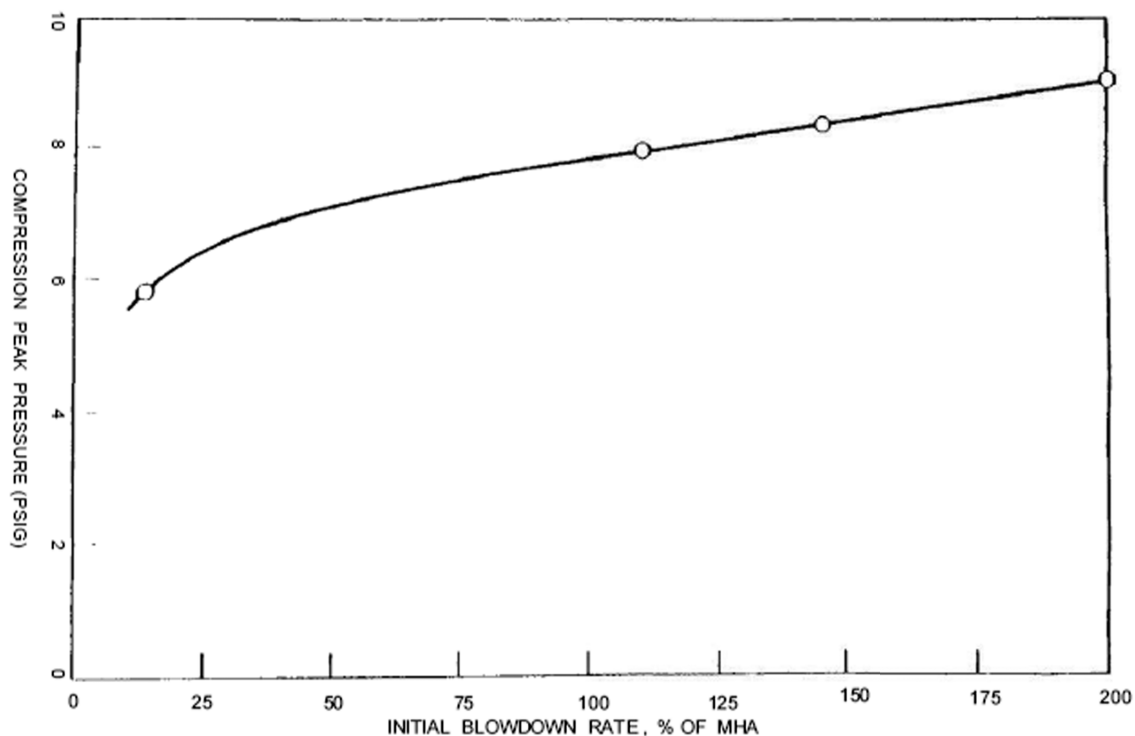
UFSAR Figure: 14.3.4-4

Change Description:  
UCR-2138, Rev. 0

Unit: 2

Title: Ice Melted vs. Energy Release for Tests at Different Blowdown Rates



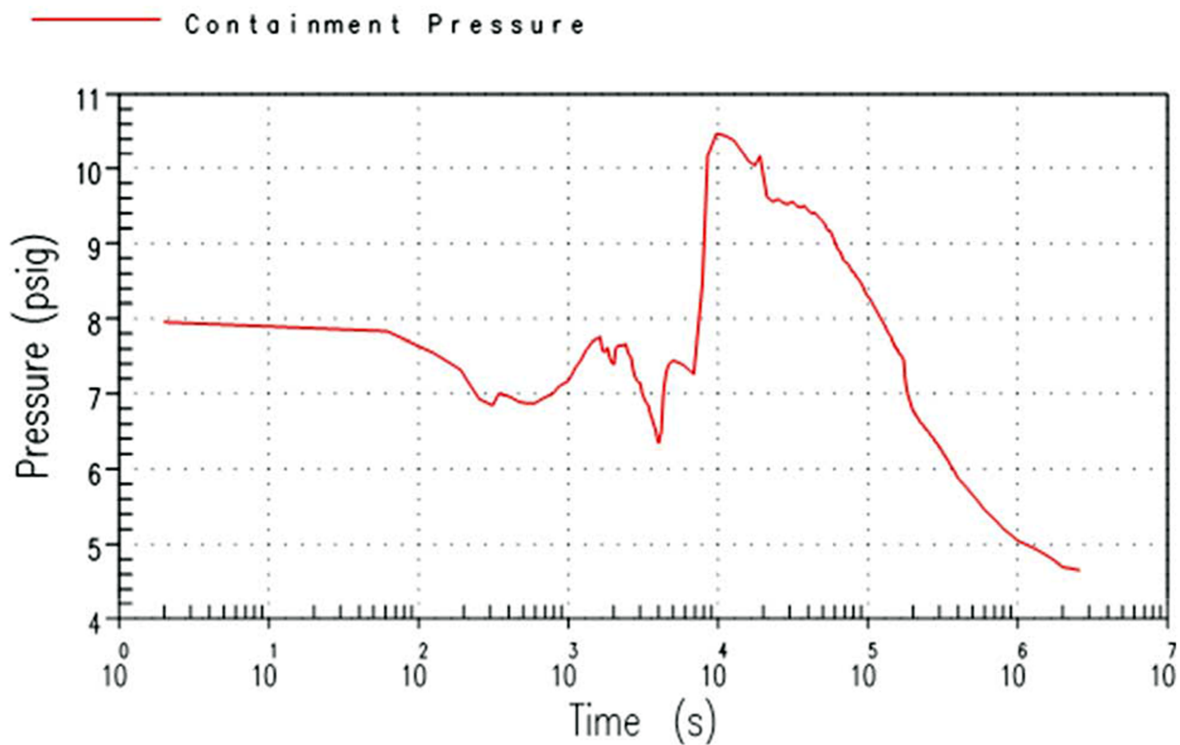


UFSAR Figure: **14.3.4-5**

Change Description:  
**UCR-2138, Rev. 0**

Unit: **2**

Title: Upper Compartment Peak Compression Pressure versus Blowdown Rate for Tests with  
185 % Energy Release

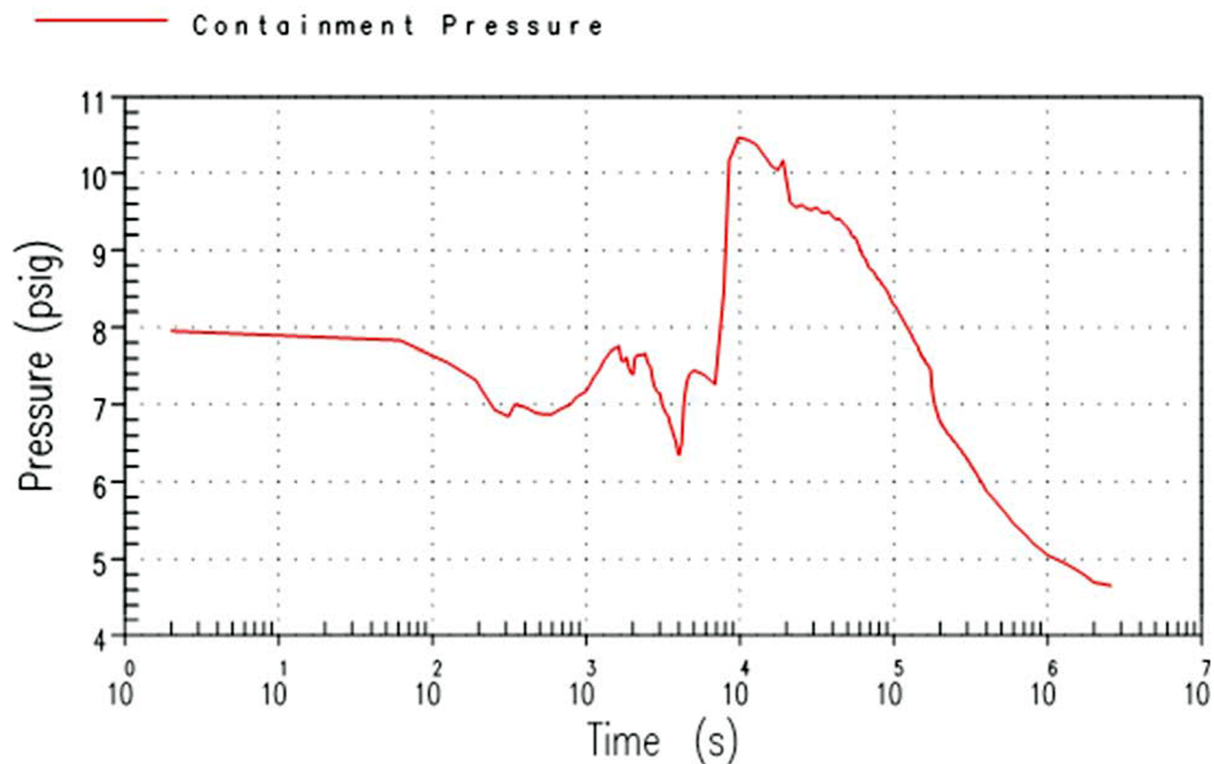


UFSAR Figure: 14.3.4-6

Change Description:  
UCR-2147, Rev. 0

Unit: 2

Title: LOCA Containment Integrity Containment Pressure



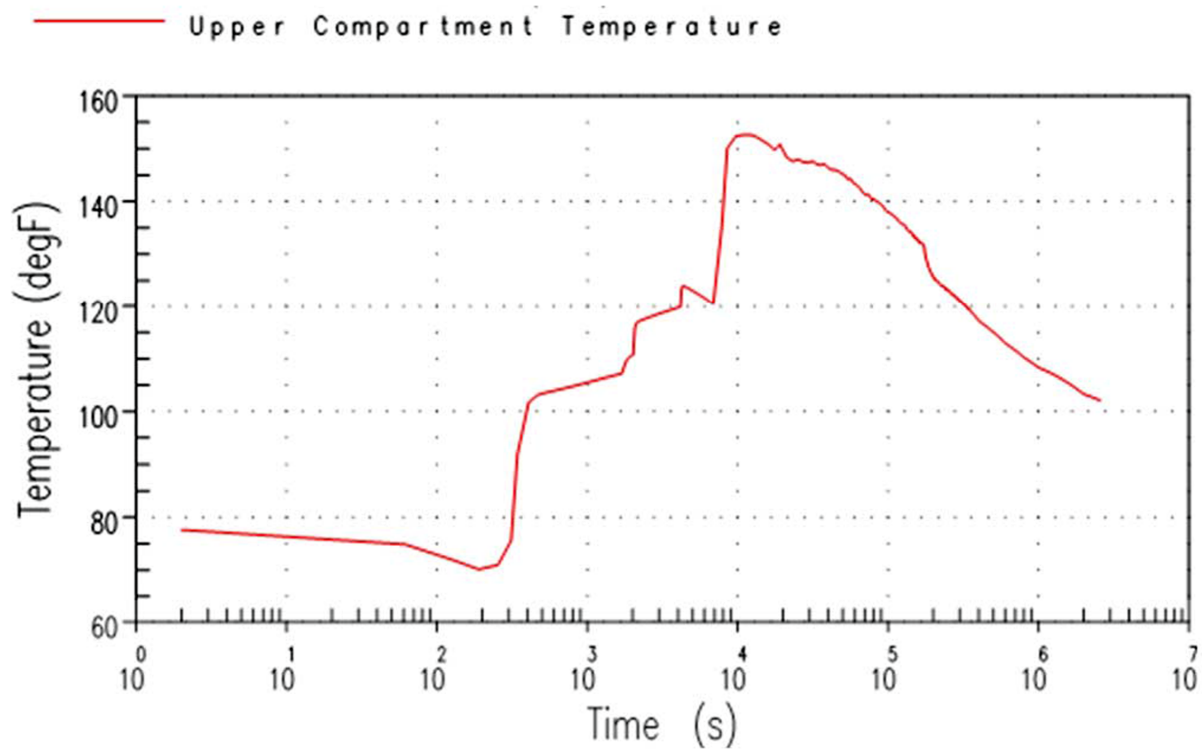
Note 1: This peak pressure is increased by 0.27 psi as described in Section 14.3.4.1.3.1.3.  
The peak composite pressure is 11.43 psig.

UFSAR Figure: **14.3.4-6A**

Change Description:  
UCR-2147, Rev. 0

Unit: **2**

Title: **LOCA Containment Integrity (Composite) Containment Pressure**

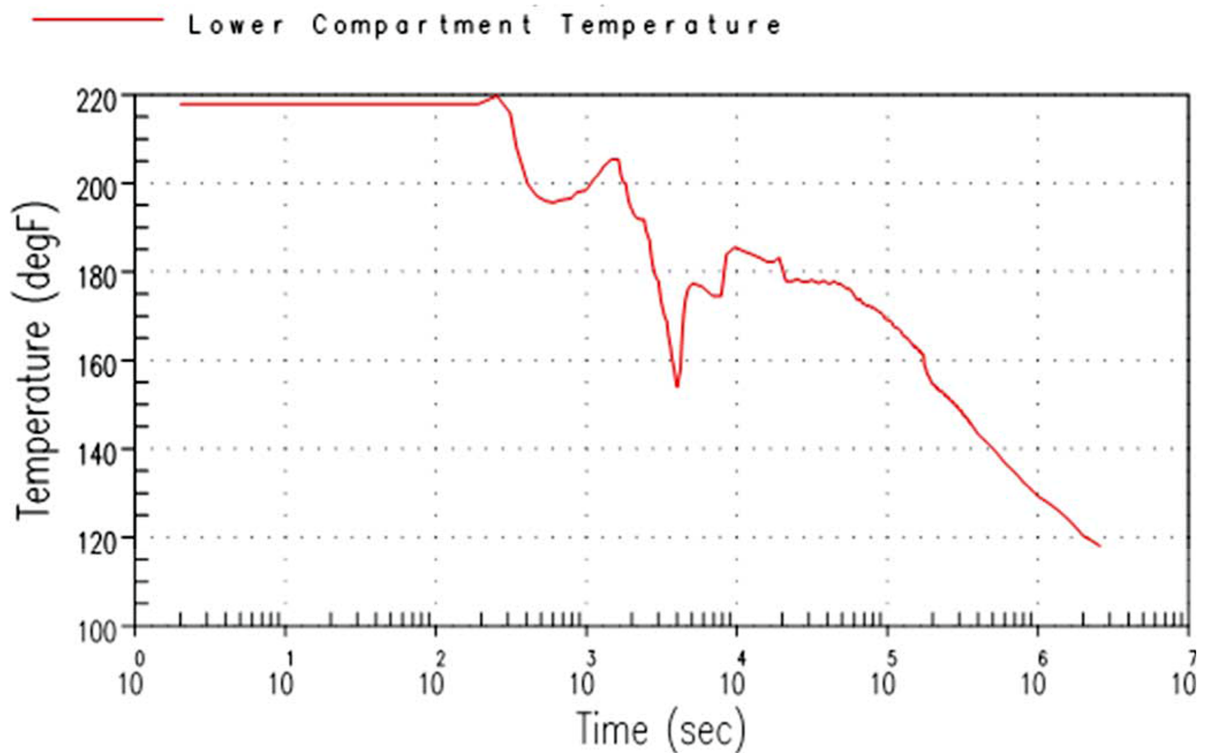


UFSAR Figure: 14.3.4-7

Change Description:  
UCR-2147, Rev. 0

Unit: 2

Title: LOCA Containment Integrity Upper Compartment Temperature



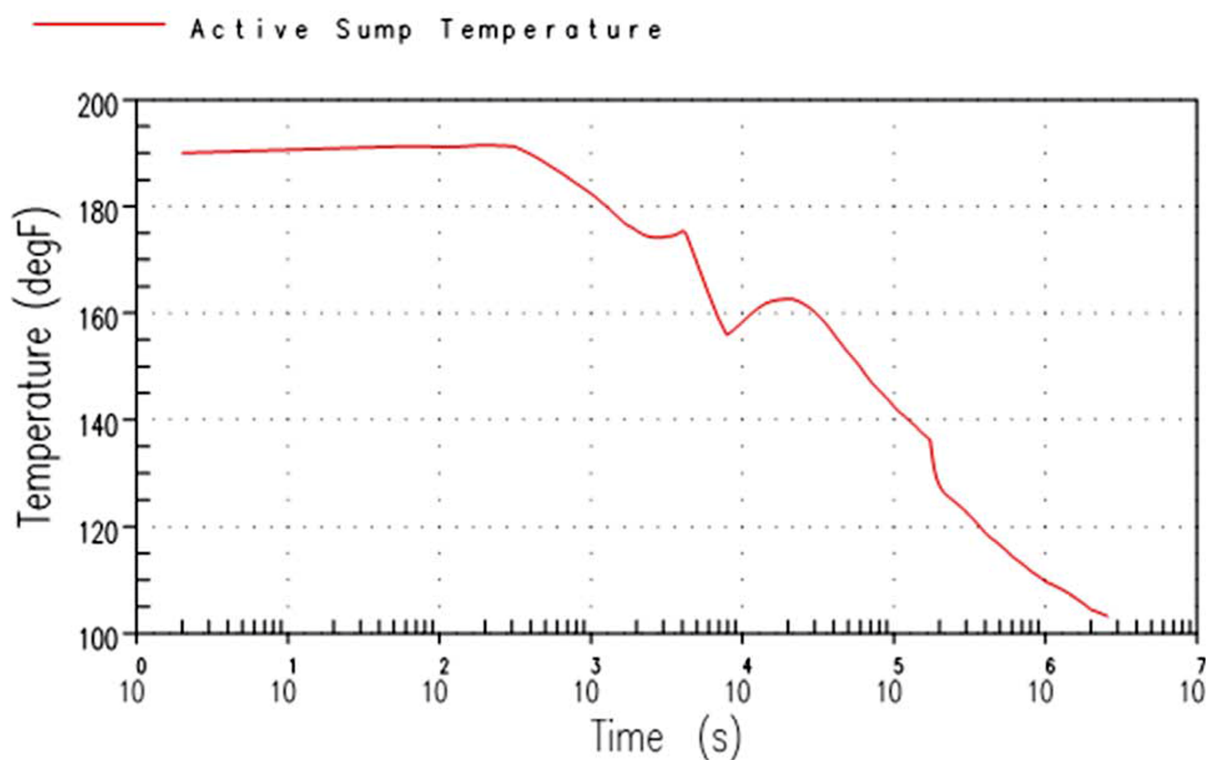
Note 1: Peak Temperature = 232.2°F.

UFSAR Figure: 14.3.4-8

Change Description:  
UCR-2147, Rev. 0

Unit: 2

Title: LOCA Containment Integrity Lower Compartment Temperature

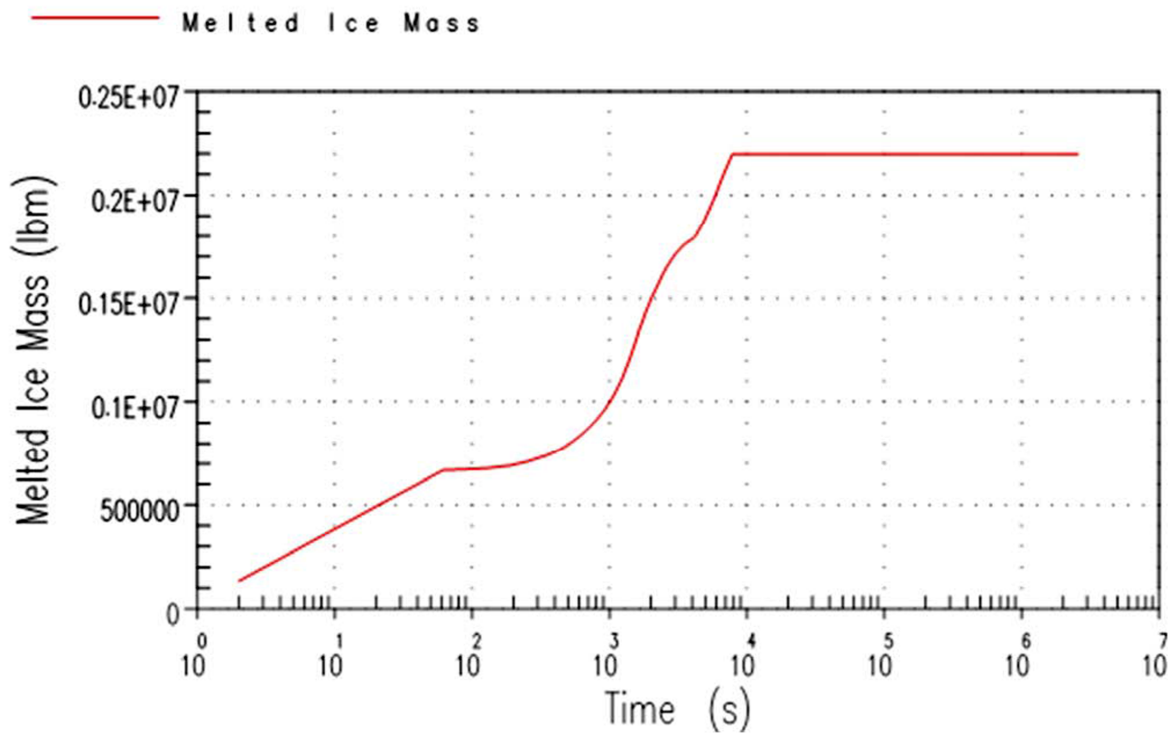


UFSAR Figure: 14.3.4-9

Change Description:  
UCR-2147, Rev. 0

Unit: 2

Title: **LOCA Containment Integrity Containment Sump Temperature Transient**

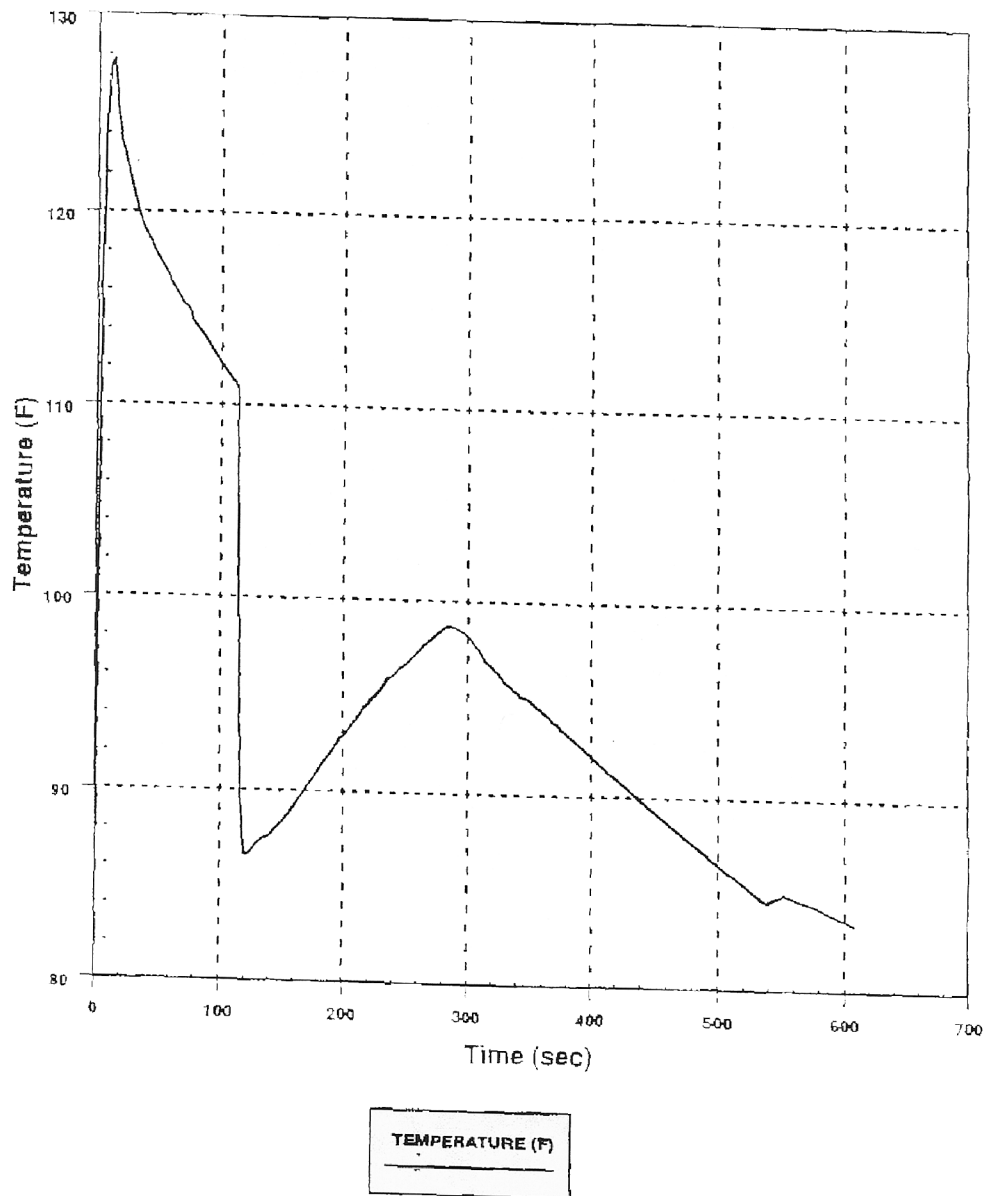


UFSAR Figure: 14.3.4-10

Change Description:  
UCR-2147, Rev. 0

Unit: 2

Title: LOCA Containment Integrity Ice Melt Transient



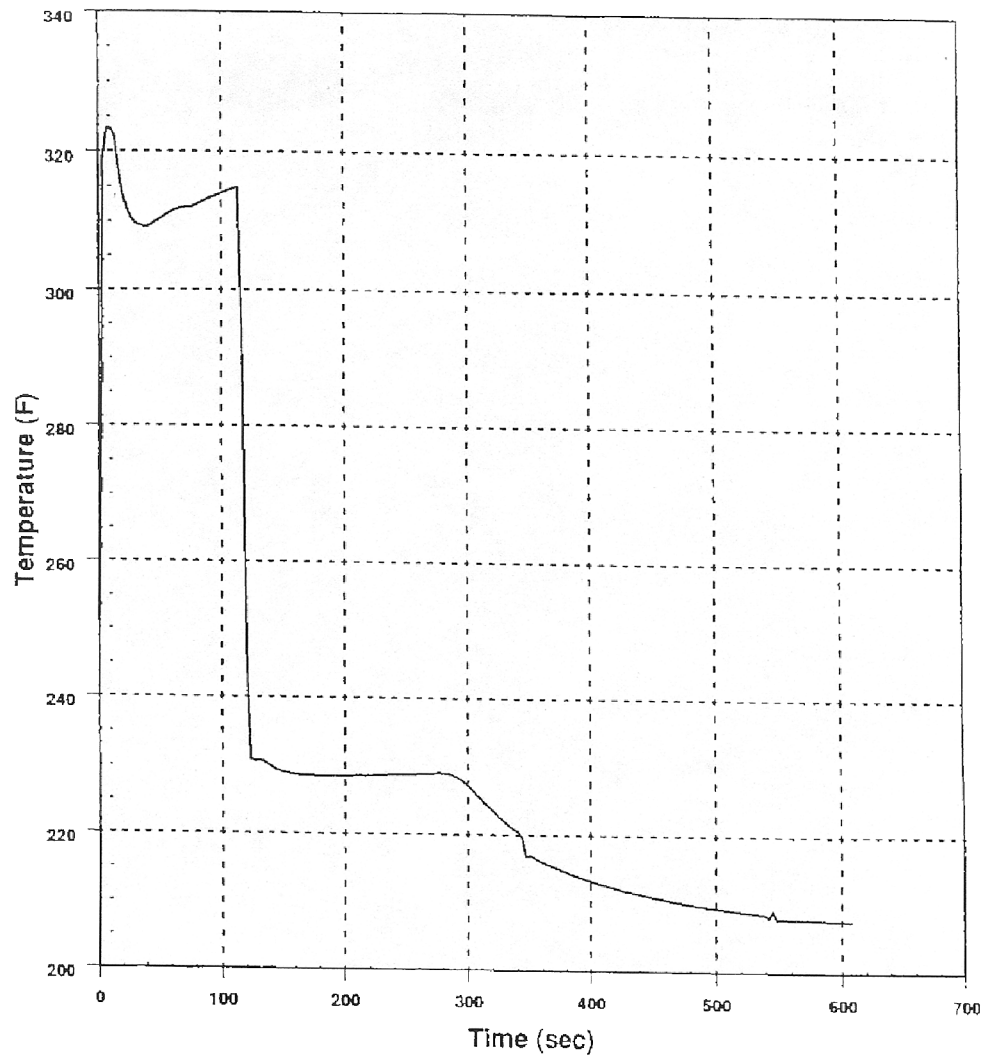
UFSAR Figure: 14.3.4-11A

Change Description:  
UCR-2138, Rev. 0

Unit: 2

**Title: 102% of 3588 MWt Core Power, 1.4 sq. ft. Double Ended Rupture - MSIV Failure  
Upper Compartment Temperature**





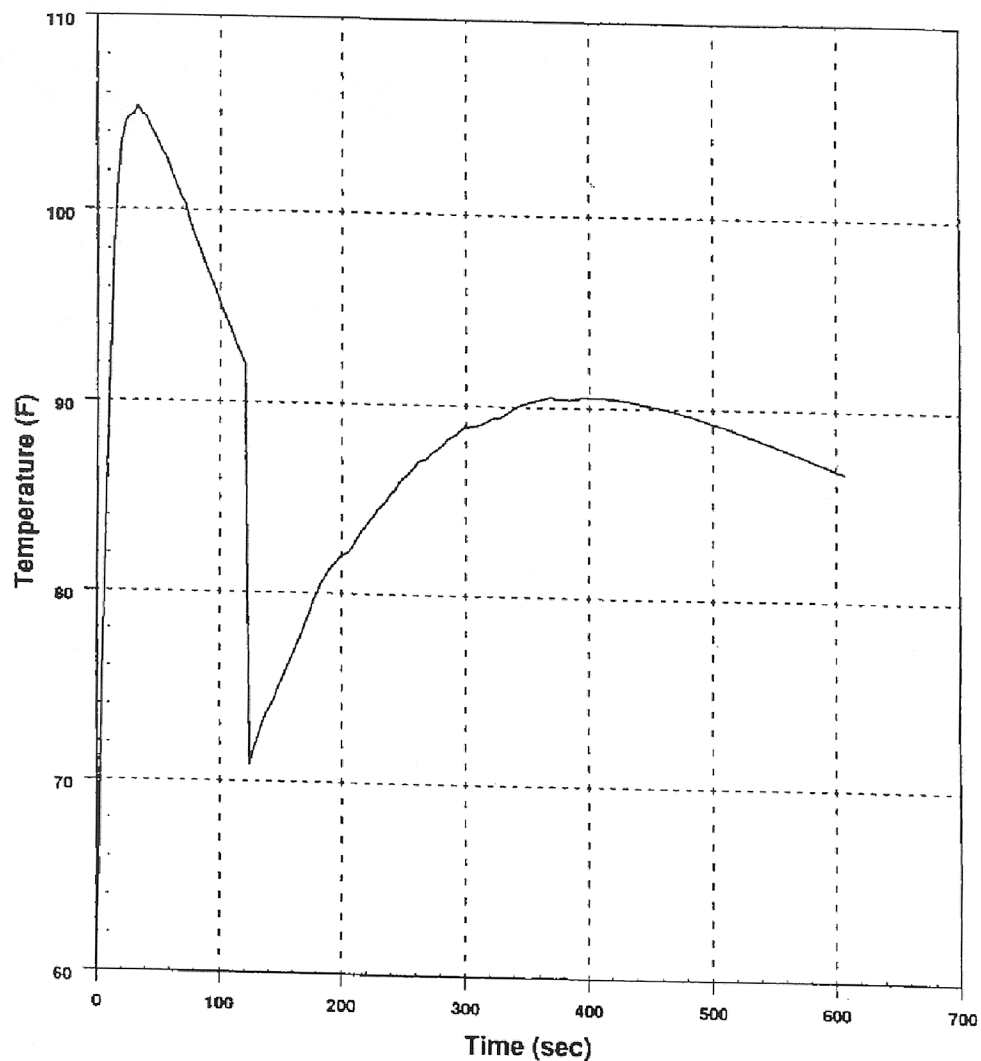
TEMPERATURE (F)

UFSAR Figure: 14.3.4-11B

Change Description:  
UCR-2138, Rev. 0

Unit: 2

**Title: 102% of 388 M Wt Core Power, 1.4 sq. ft. Double Ended Rupture - MSIV Failure  
Lower Compartment Temperature**



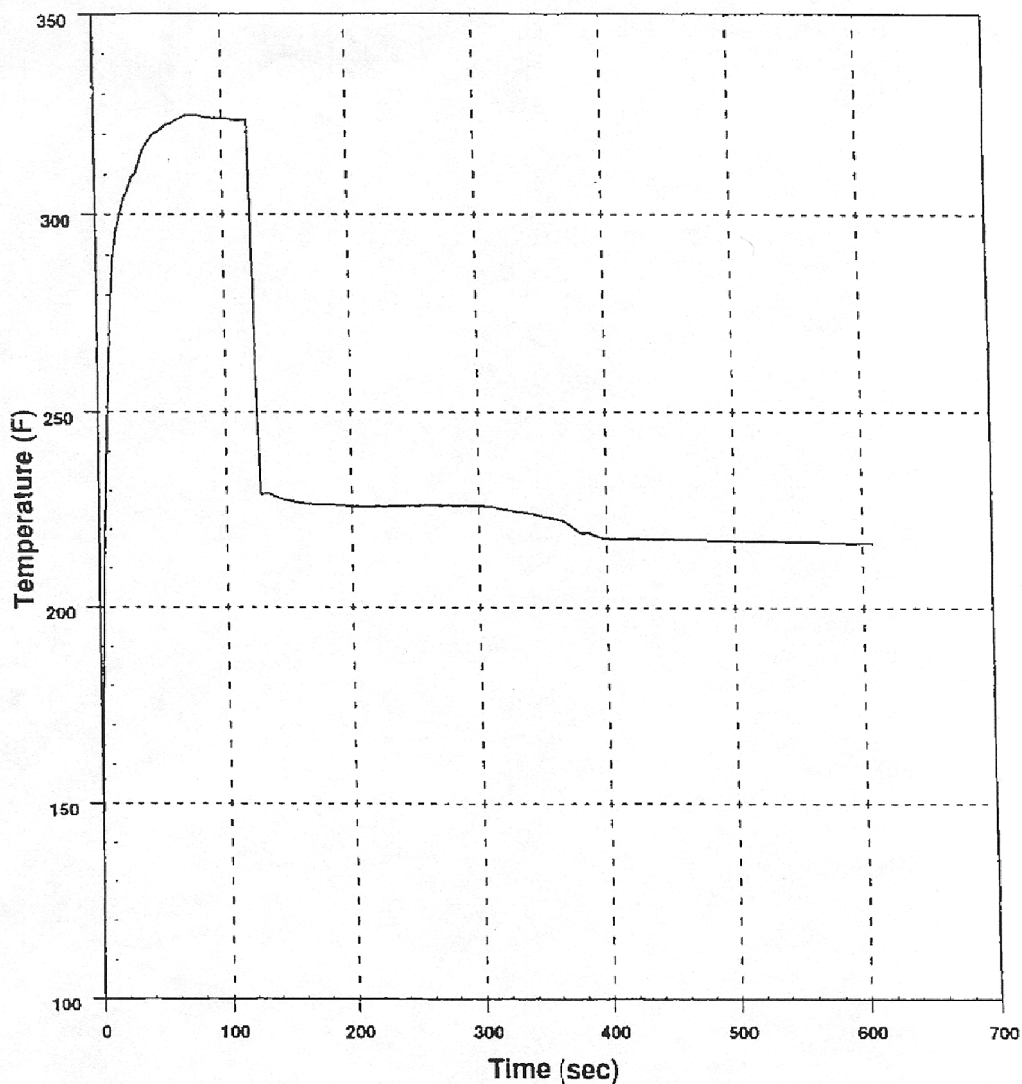
TEMPERATURE (F)

UFSAR Figure: 14.3.4-12A

Change Description:  
UCR-2138, Rev. 0

Unit: 2

**Title: 102% of 388 M Wt Core Power, 0.86 q. ft. Split Break - AFWRP Failure  
Upper Compartment Temperature**




TEMPERATURE (F)

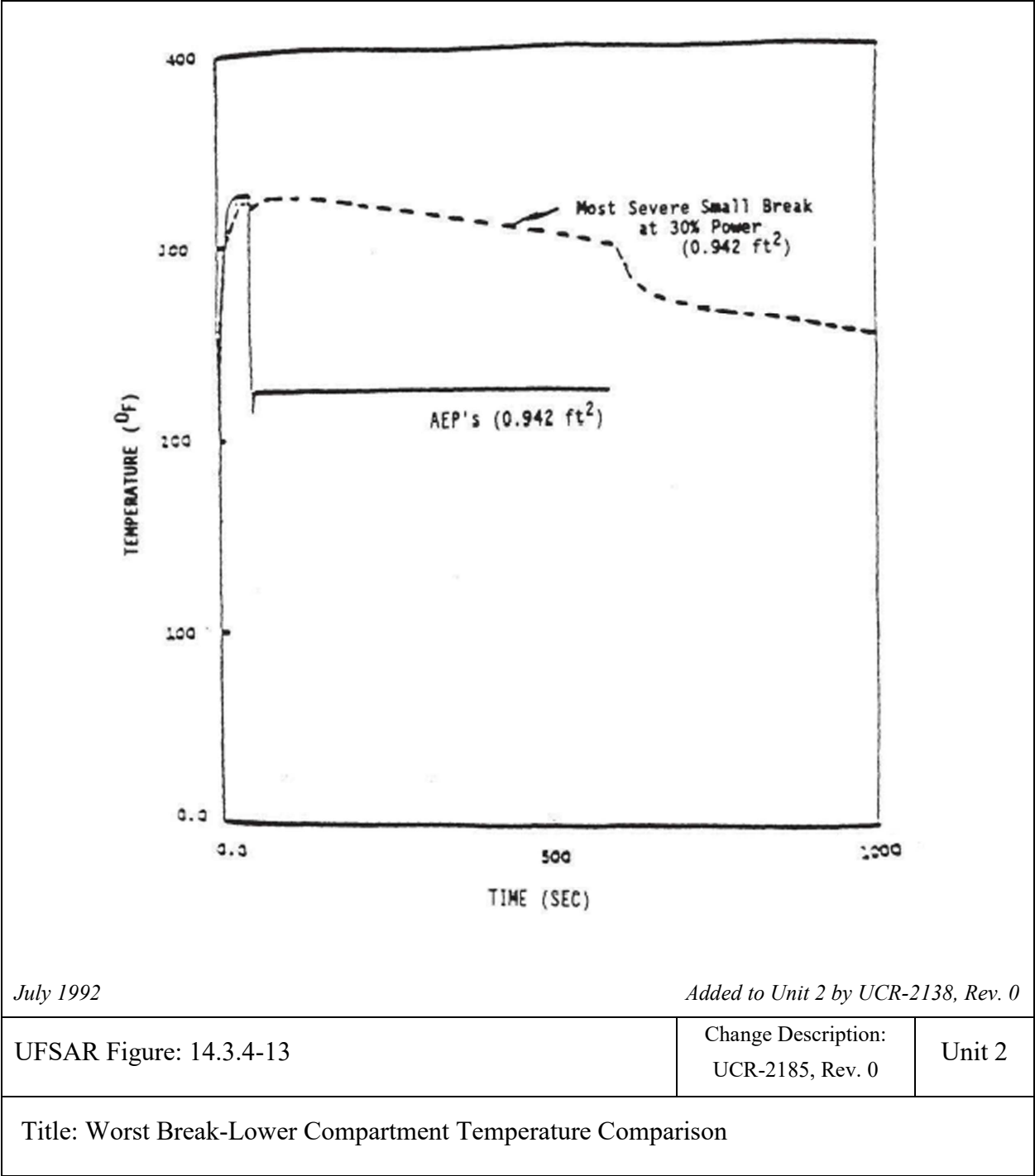
UFSAR Figure: 14.3.4-12B


Change Description:  
UCR-2138, Rev. 0

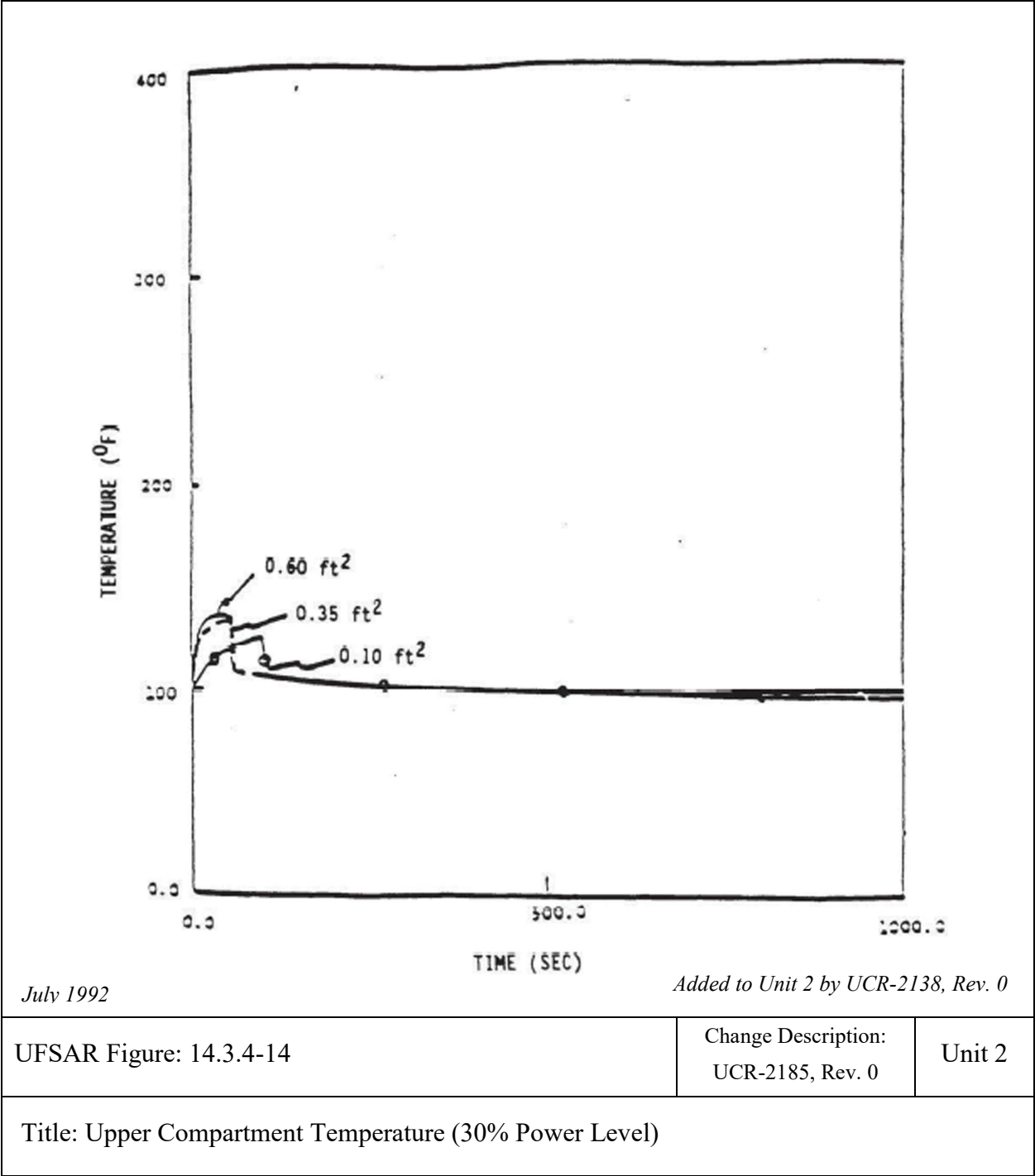
Unit: 2

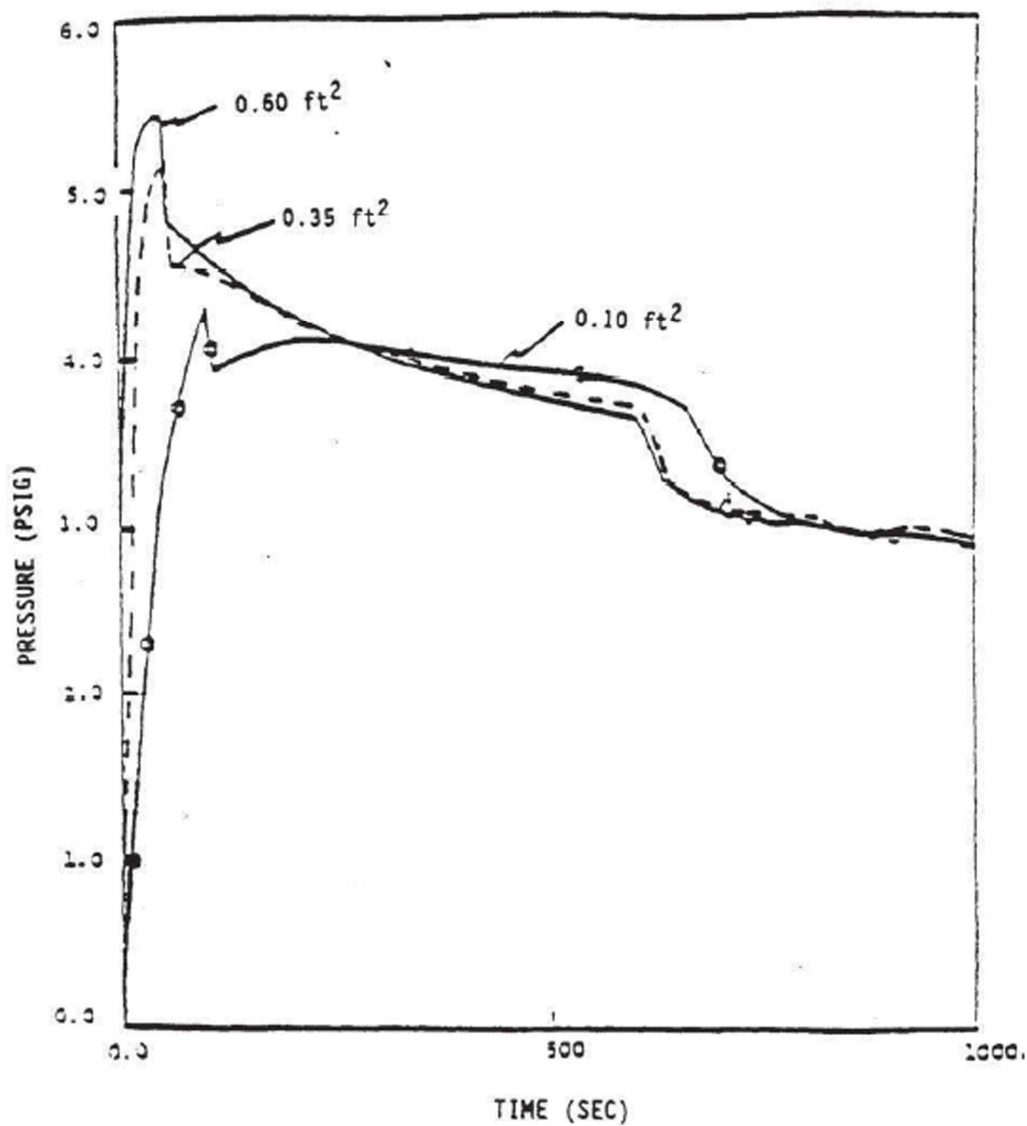
**Title: 102% of 388 M Wt Core Power, 0.86 q. ft. Split Break - AFWRP Failure  
Lower Compartment Temperature**

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 An AEP Company	INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revised: 28.0 Chapter: 14 Sheet: 1 of 1
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July 1992

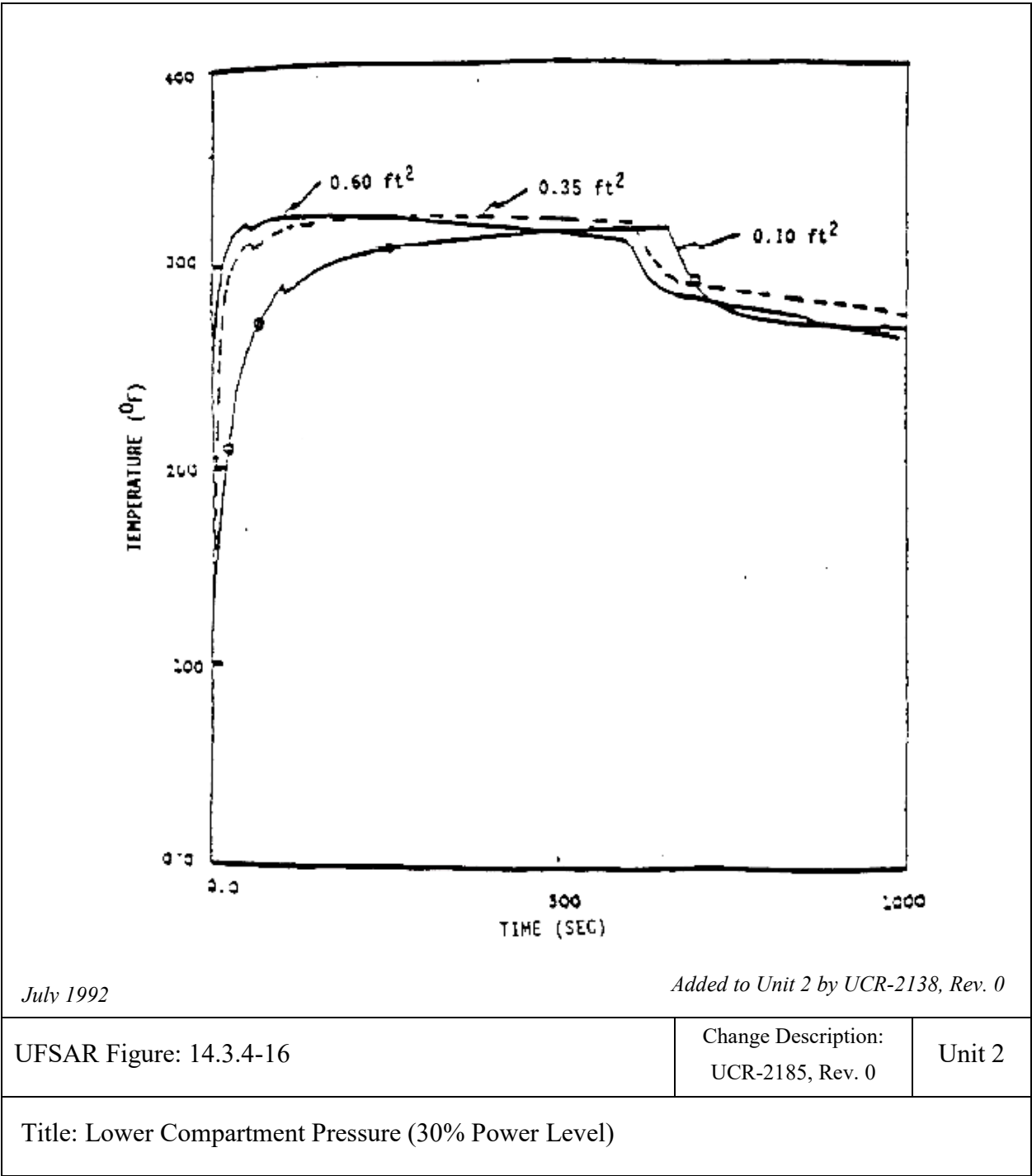
Added to Unit 2 by UCR-2138, Rev. 0


UFSAR Figure: 14.3.4-15

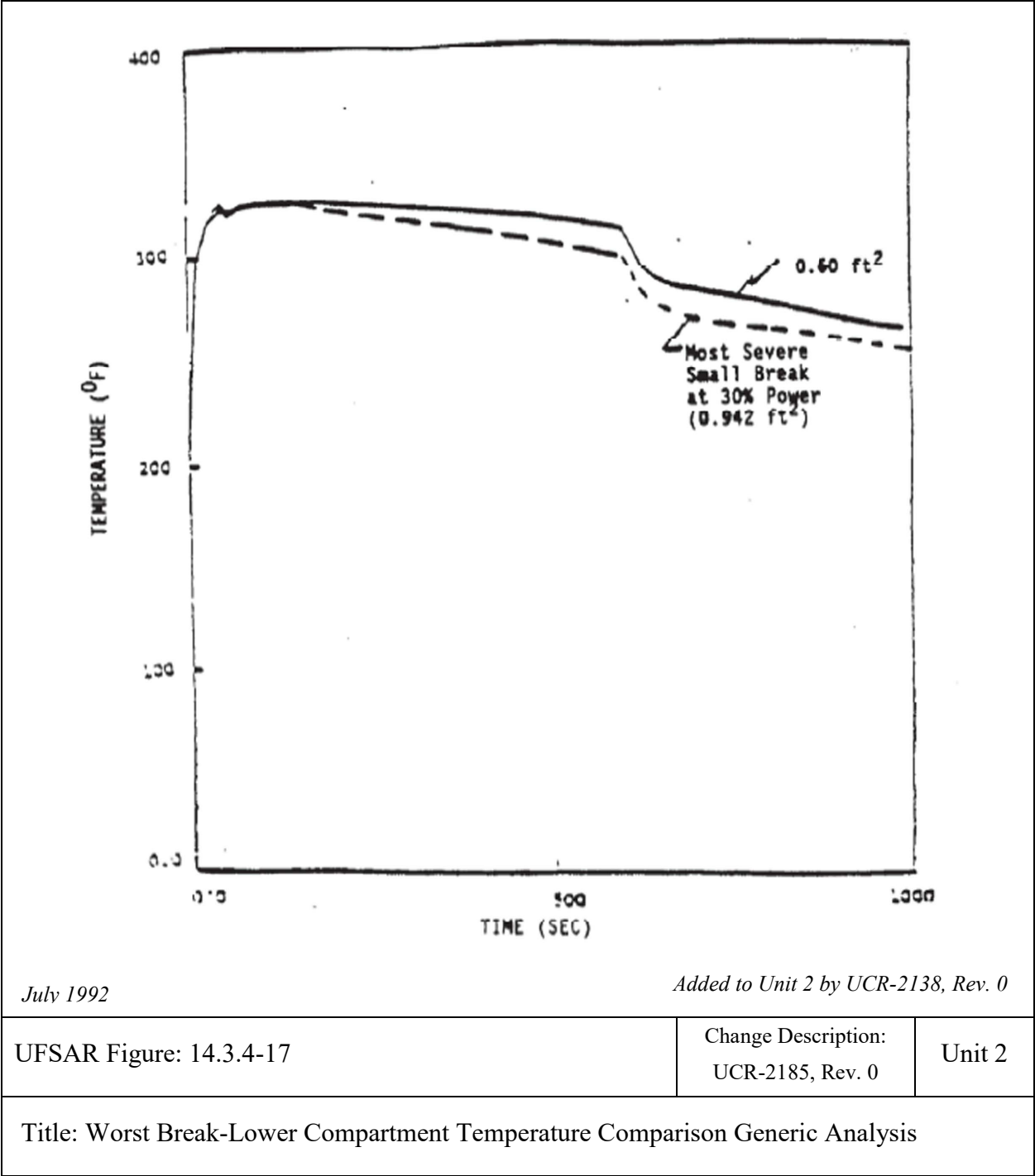
Change Description:  
UCR-2185, Rev. 0

Unit 2


Title: Lower Compartment Pressure (30% Power Level)

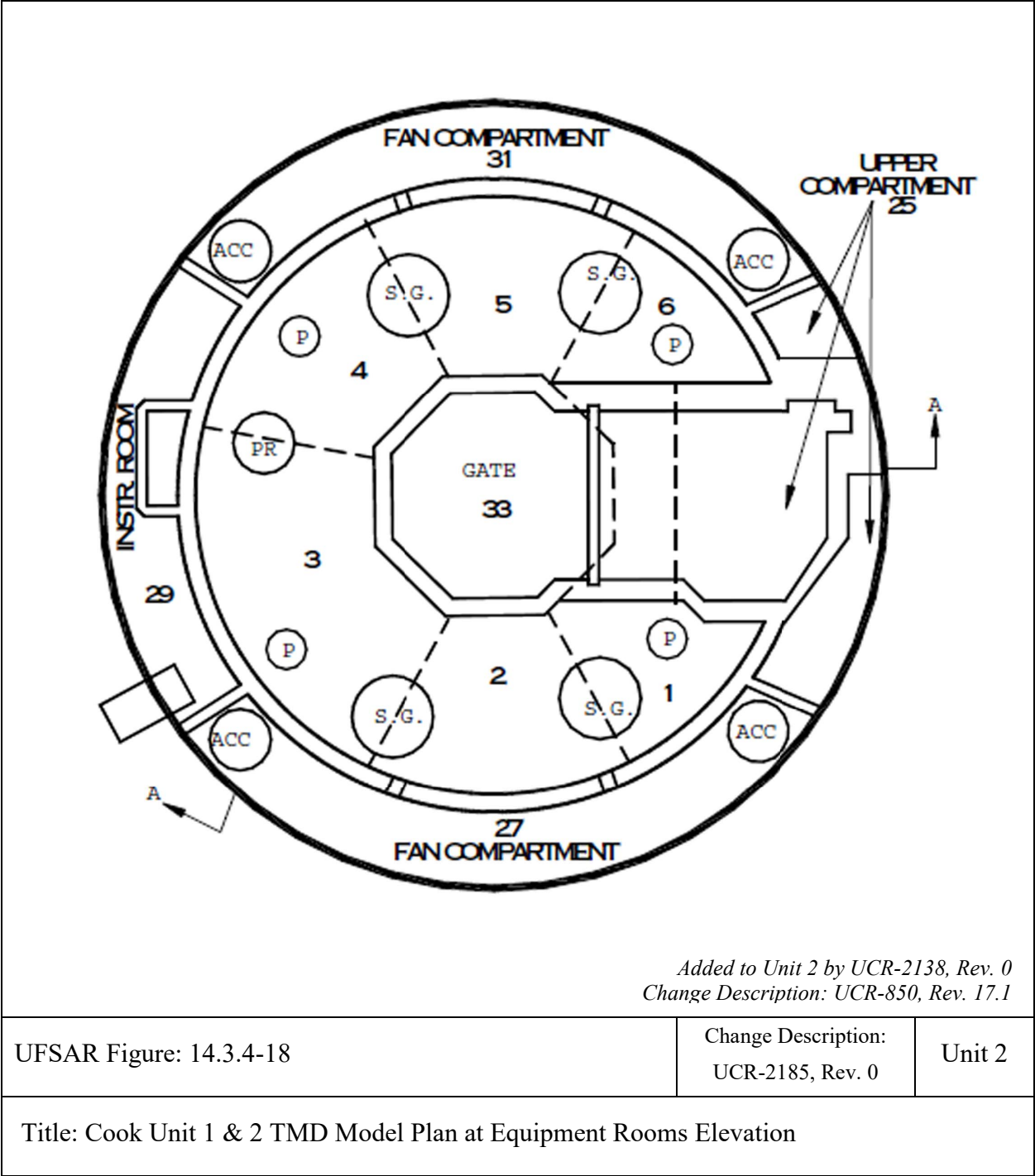



 An AEP Company	INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revised: 28.0 Chapter: 14 Sheet: 1 of 1
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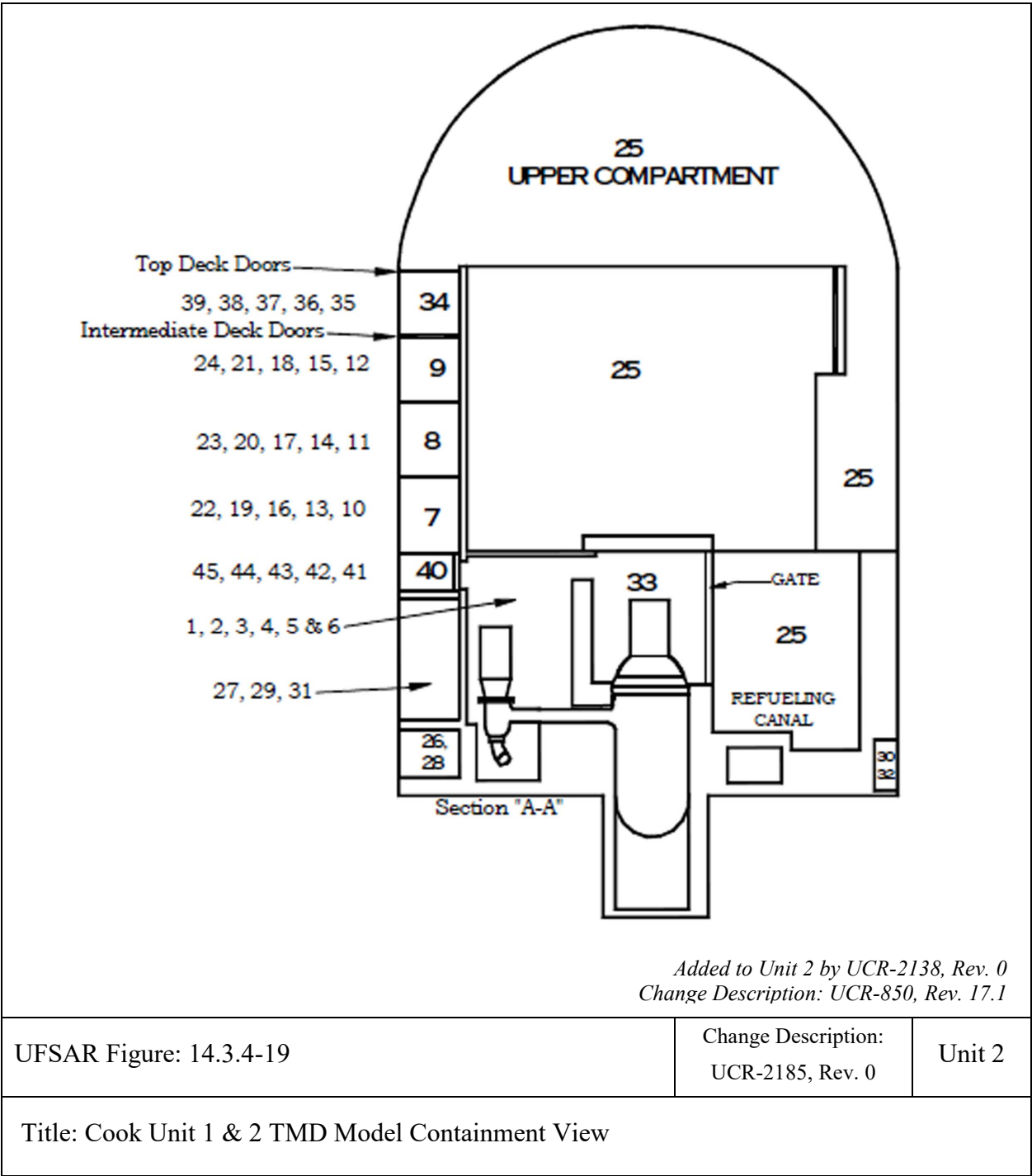





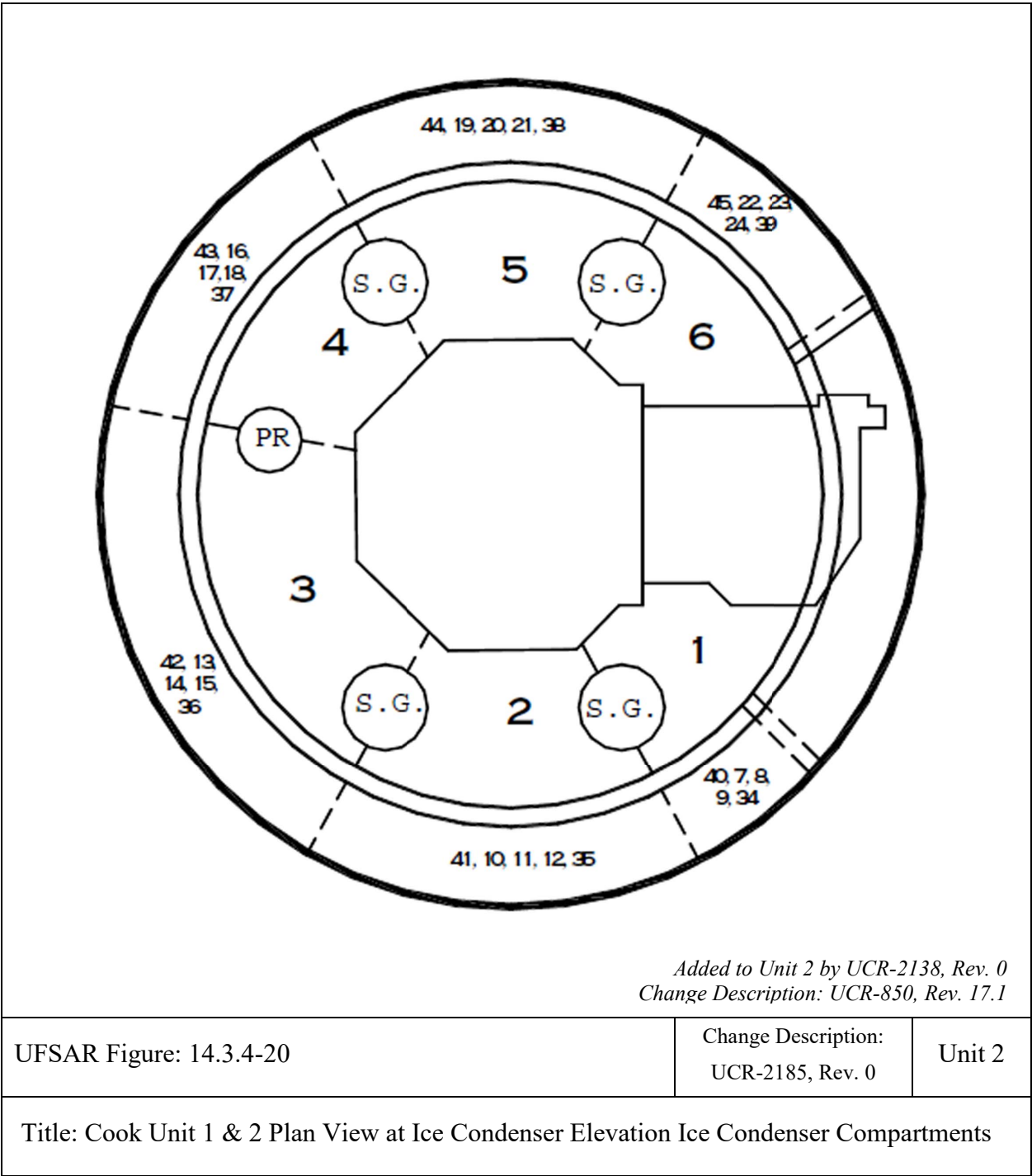
 <p>An <b>AEP</b> Company</p>	<p align="center"><b>INDIANA AND MICHIGAN POWER</b></p> <p align="center"><b>D. C. COOK NUCLEAR PLANT</b></p> <p align="center"><b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revised: 28.0</p> <p>Chapter: 14</p> <p>Sheet: 1 of 1</p>
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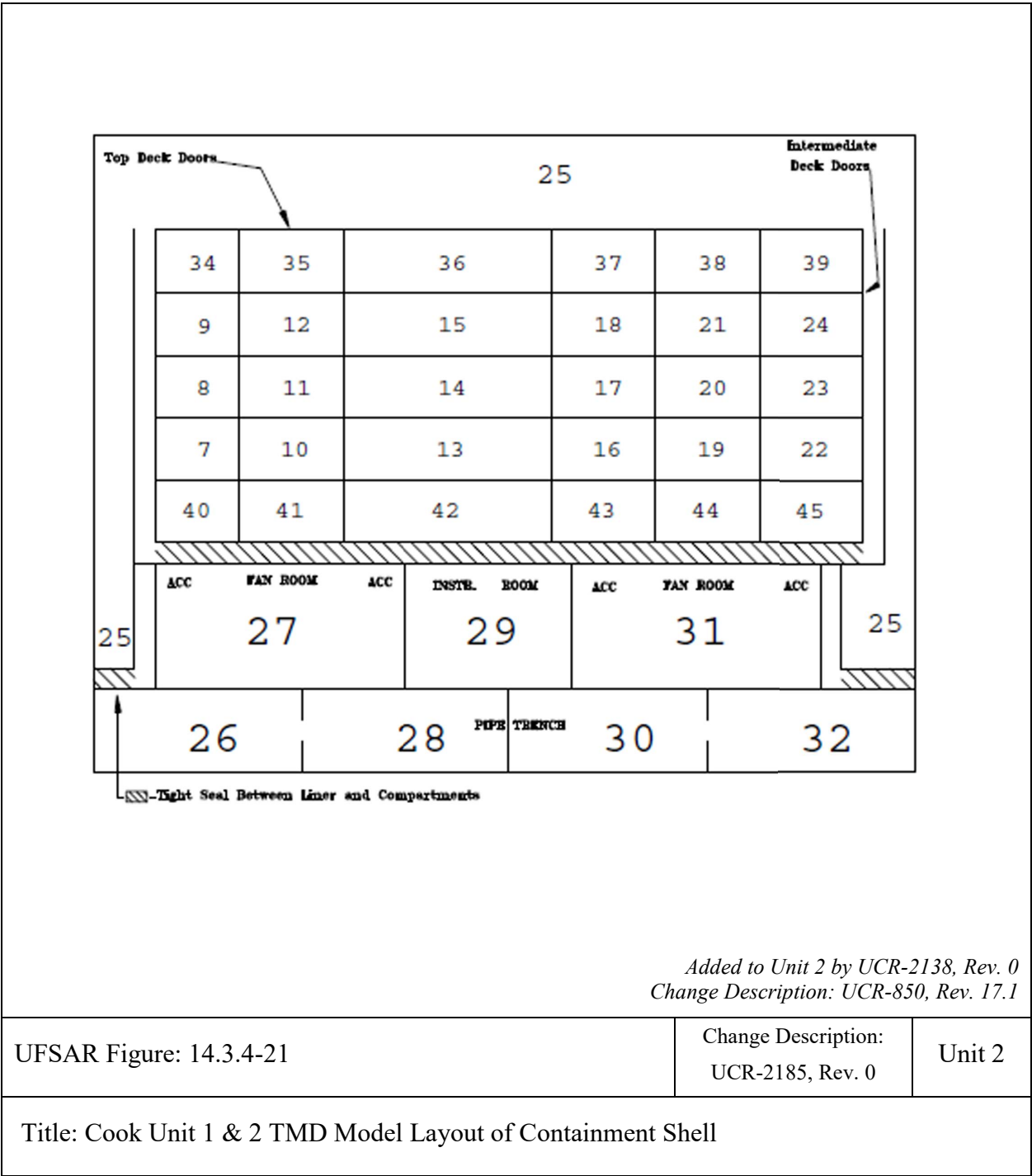
 An AEP Company	INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revised: 28.0 Chapter: 14 Sheet: 1 of 1
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 An AEP Company	INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revised: 28.0 Chapter: 14 Sheet: 1 of 1
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 <p><b>INDIANA MICHIGAN POWER</b> An <b>AEP</b> Company</p>	<p align="center"><b>INDIANA AND MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revised: 28.0 Chapter: 14 Sheet: 1 of 1</p>
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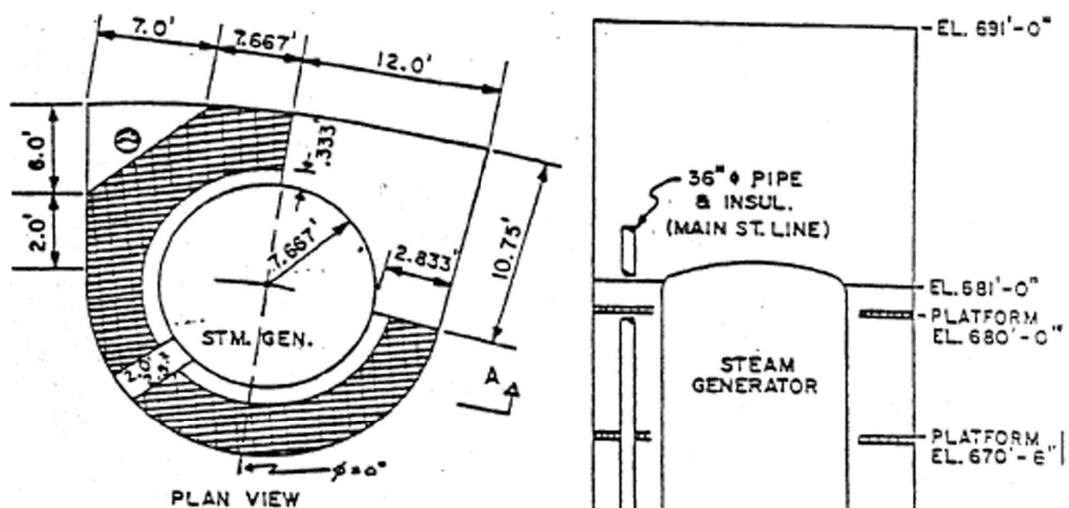


UFSAR Figure: 14.3.4-21

Change Description:  
UCR-2185, Rev. 0

Unit 2

Title: Cook Unit 1 & 2 TMD Model Layout of Containment Shell



Typical of both platforms  
above elevation 665 Ft.

NOTES:

- (A) All dimensions and elevations are in feet unless otherwise noted.
- (B) All platforms are standard .76 grating.
- (C) All steam generator dimensions include insulation.

See Figure  
022.3-1d-2  
for continuation

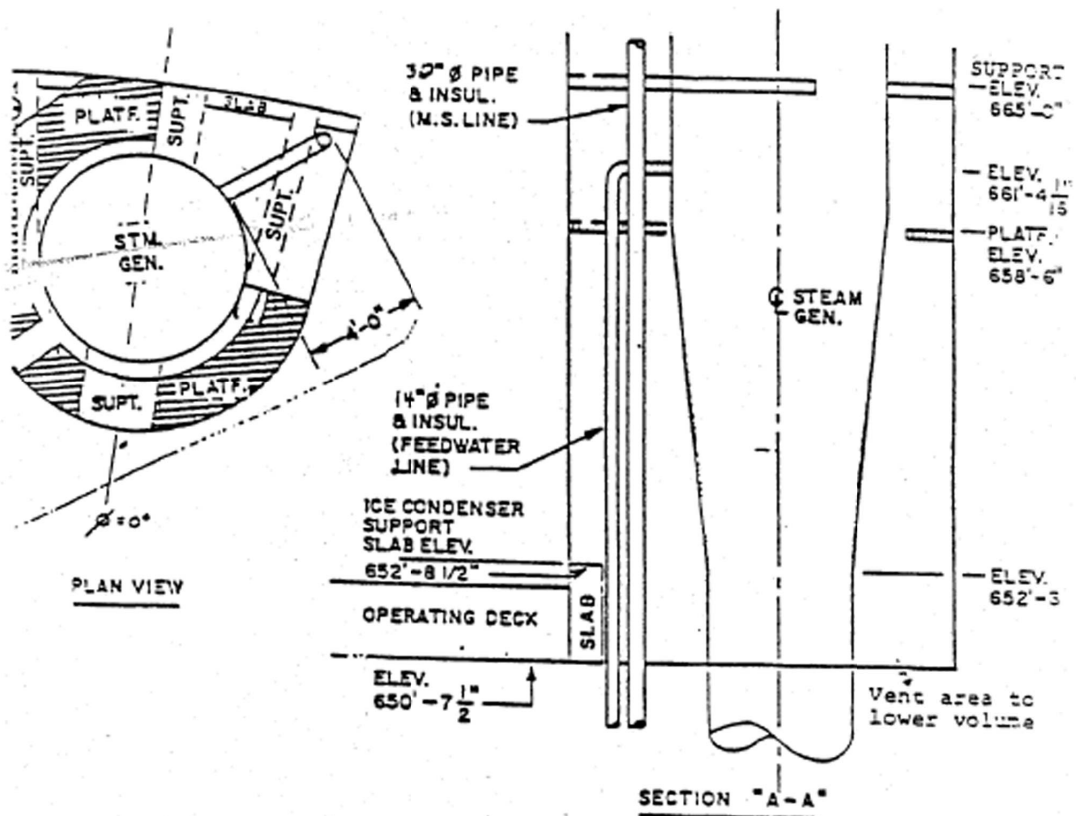
Added to Unit 2 by UCR-2138, Rev. 0  
Change Description: UCR-850, Rev. 17.1

UFSAR Figure: 14.3.4-22

Change Description:  
UCR-2185, Rev. 0

Unit 2

Title: Steam Generator Enclosure Above Elevation 665 ft.




Added to Unit 2 by UCR-2138, Rev. 0  
Change Description: UCR-850, Rev. 17.1

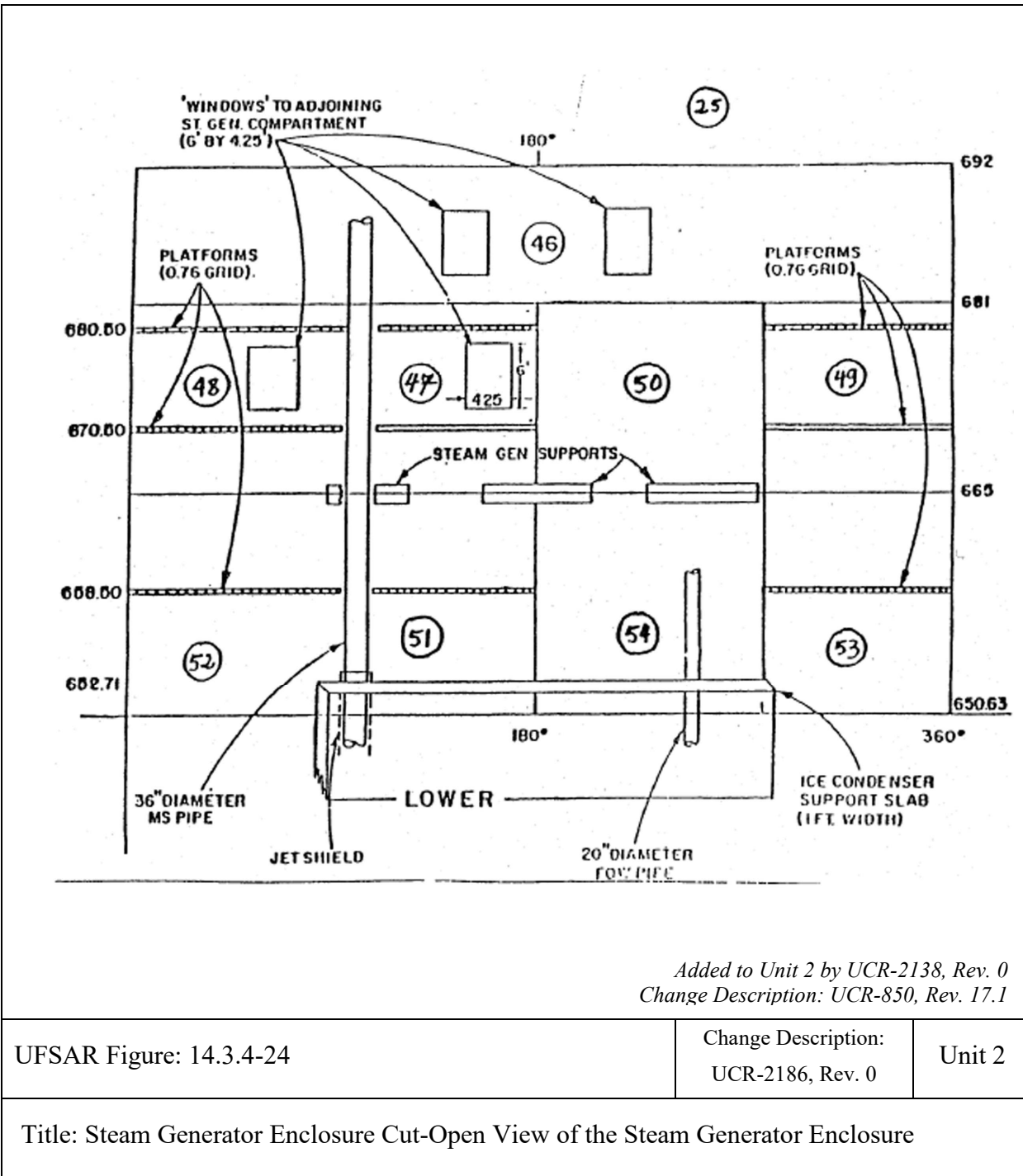
UFSAR Figure: 14.3.4-23

Change Description:  
UCR-2186, Rev. 0


Unit 2

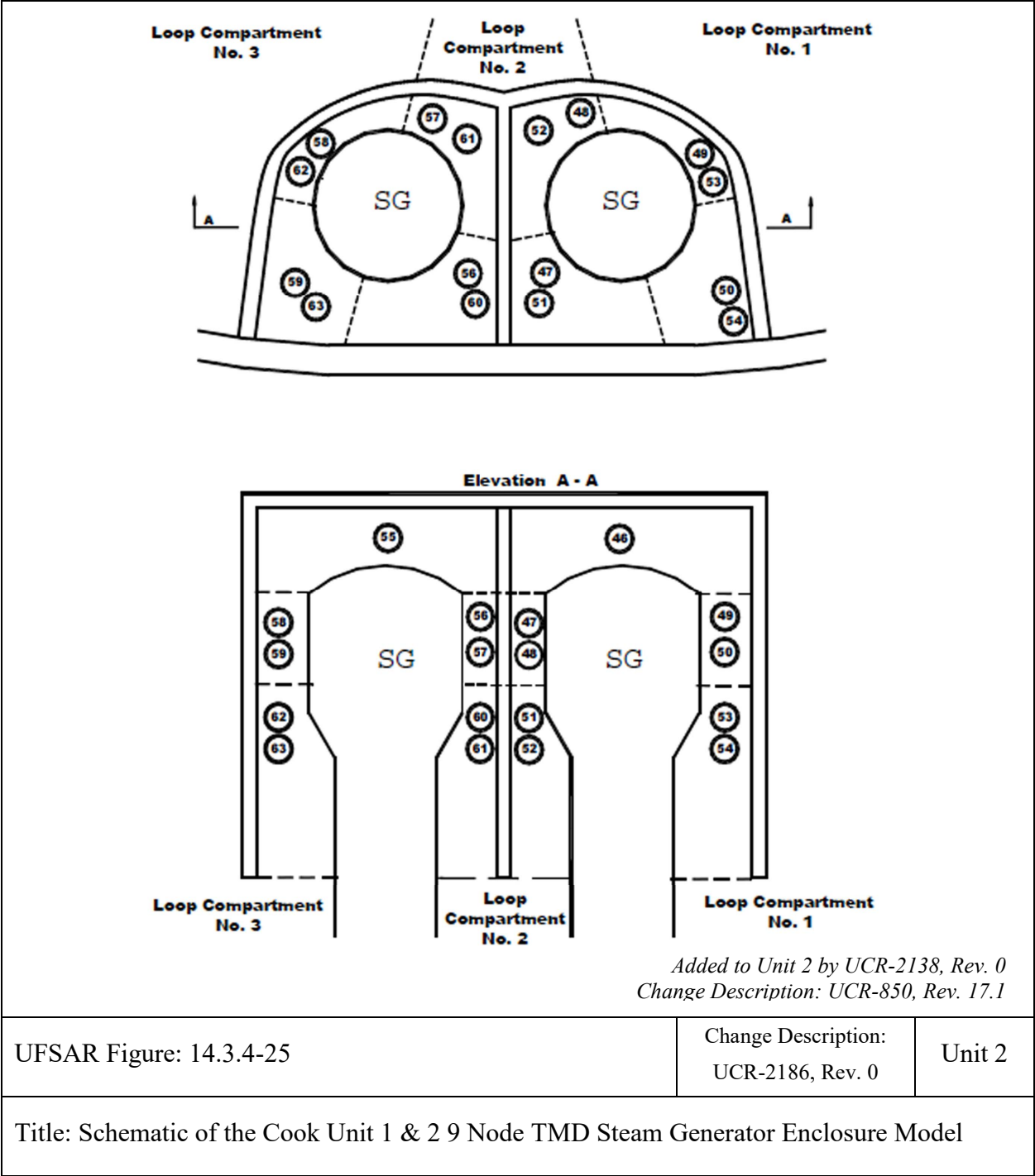
Title: Steam Generator Enclosure Above Elevation 665 ft.

 <p>INDIANA MICHIGAN POWER</p> <p>An AEP Company</p>	<p>INDIANA AND MICHIGAN POWER</p> <p>D. C. COOK NUCLEAR PLANT</p> <p>UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revised: 28.0</p> <p>Chapter: 14</p> <p>Sheet: 1 of 1</p>
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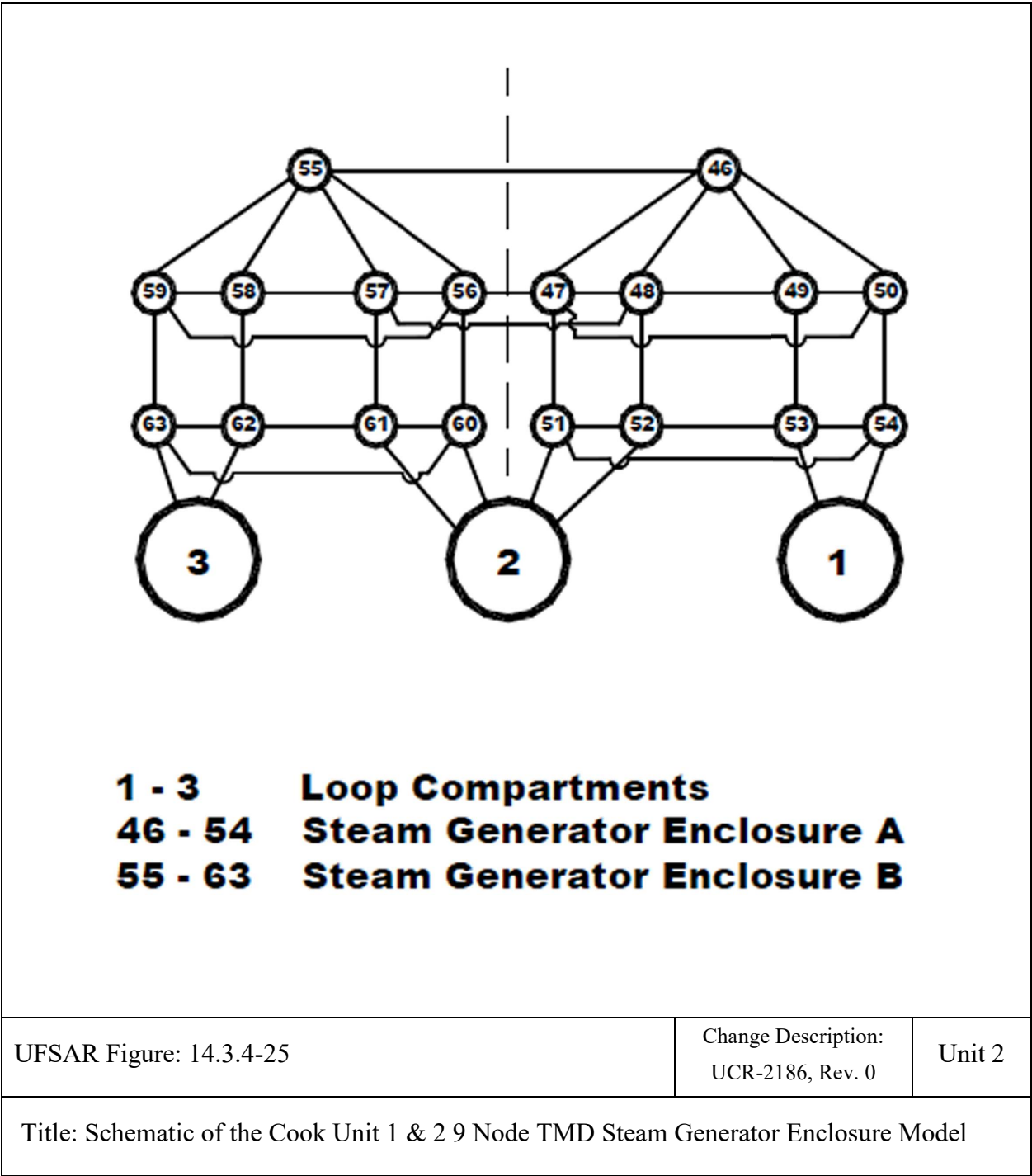


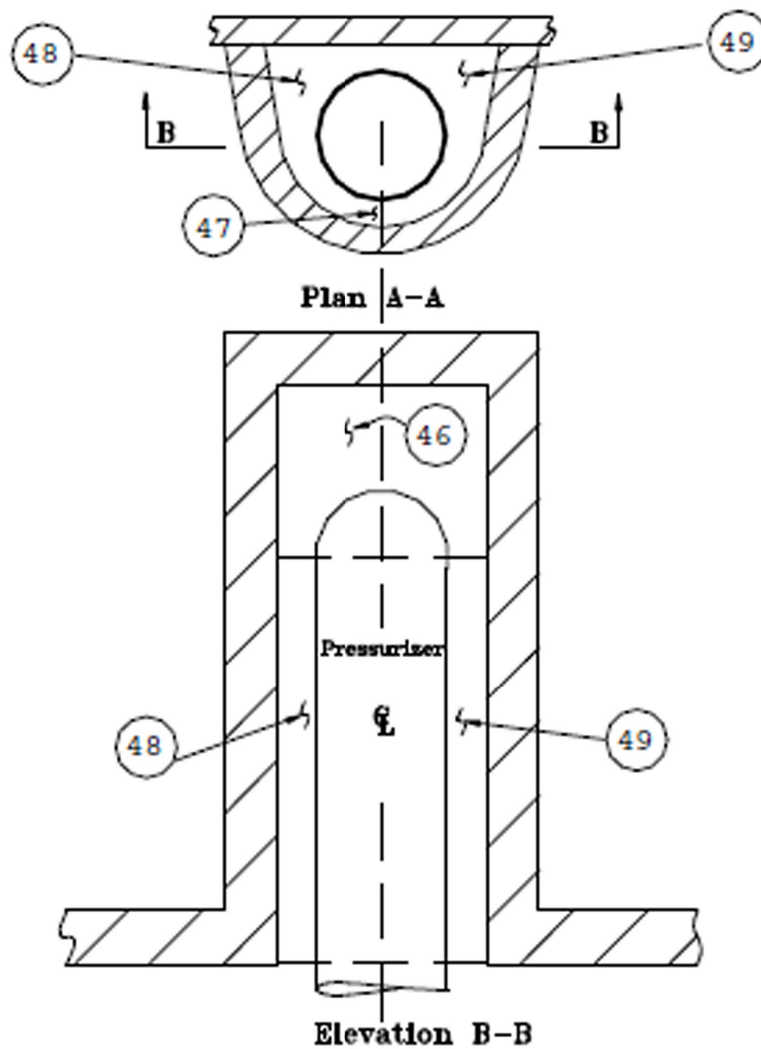
 <p><b>INDIANA MICHIGAN POWER</b> An <b>AEP</b> Company</p>	<p align="center"><b>INDIANA AND MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revised: 28.0 Chapter: 14 Sheet: 1 of 2</p>
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	<p align="center">INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revised: 28.0 Chapter: 14 Sheet: 2 of 2</p>
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*Added to Unit 2 by UCR-2138, Rev. 0  
Change Description: UCR-850, Rev. 17.1*

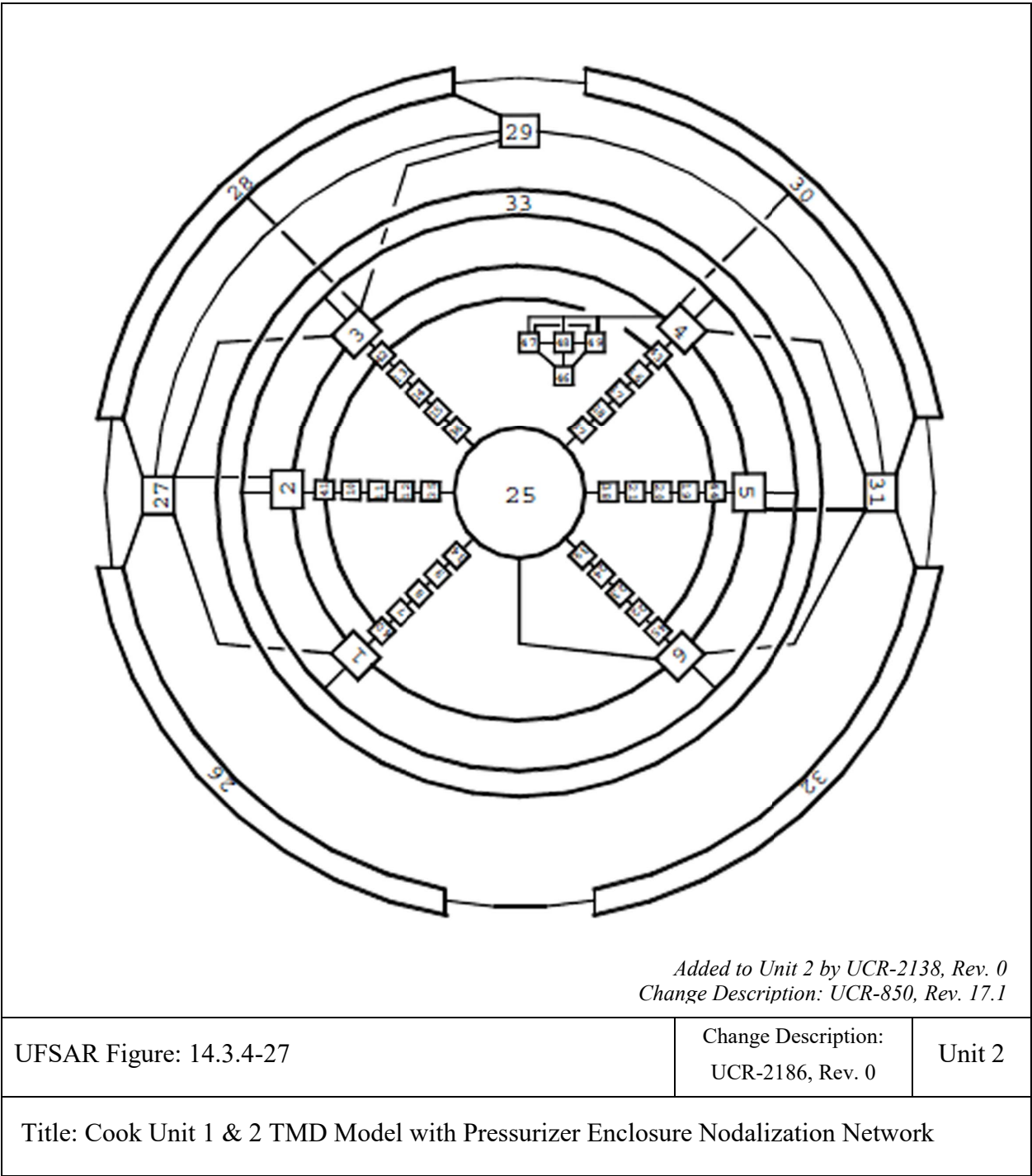
UFSAR Figure: 14.3.4-26


Change Description:  
UCR-2186, Rev. 0

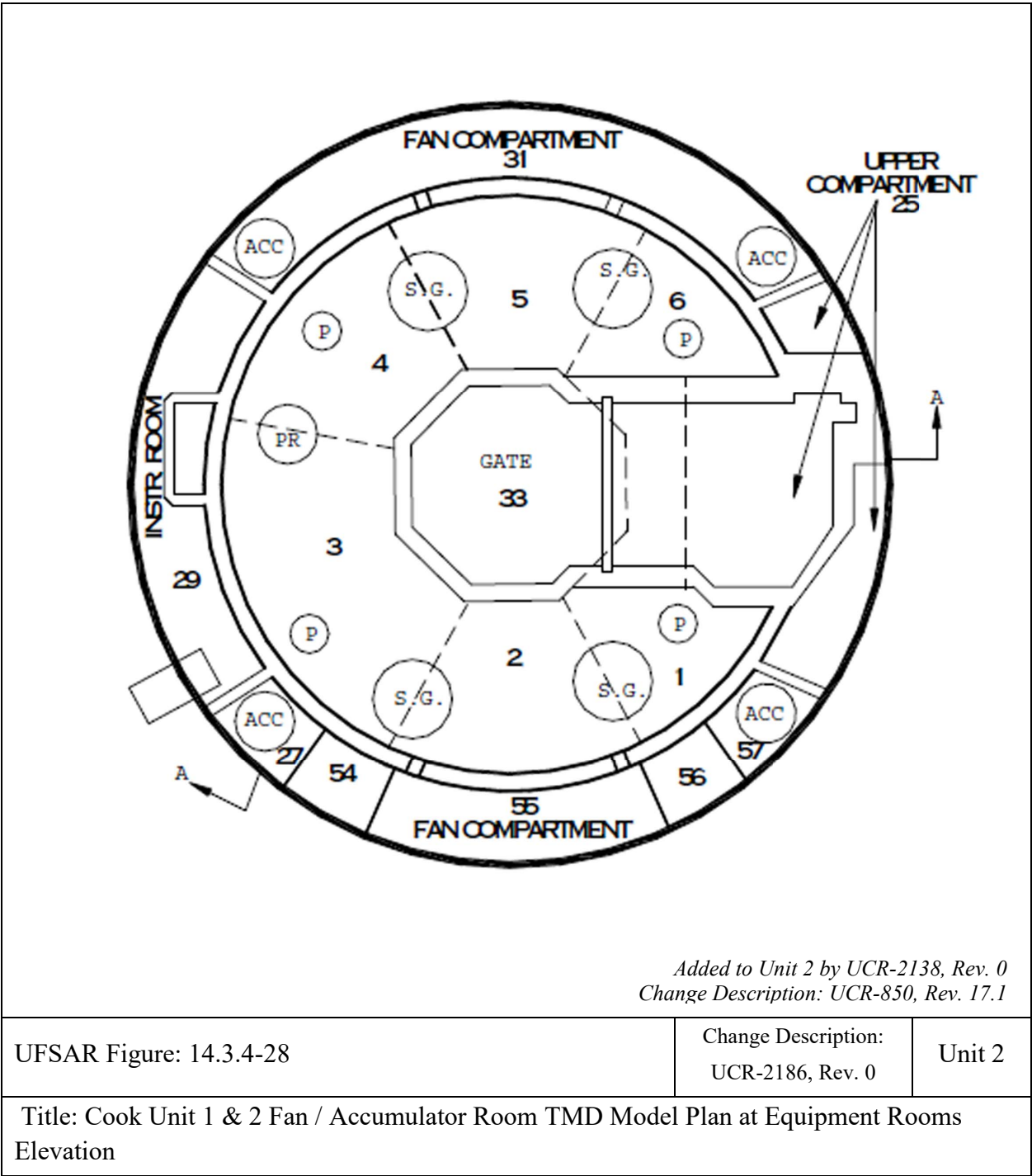
Unit 2

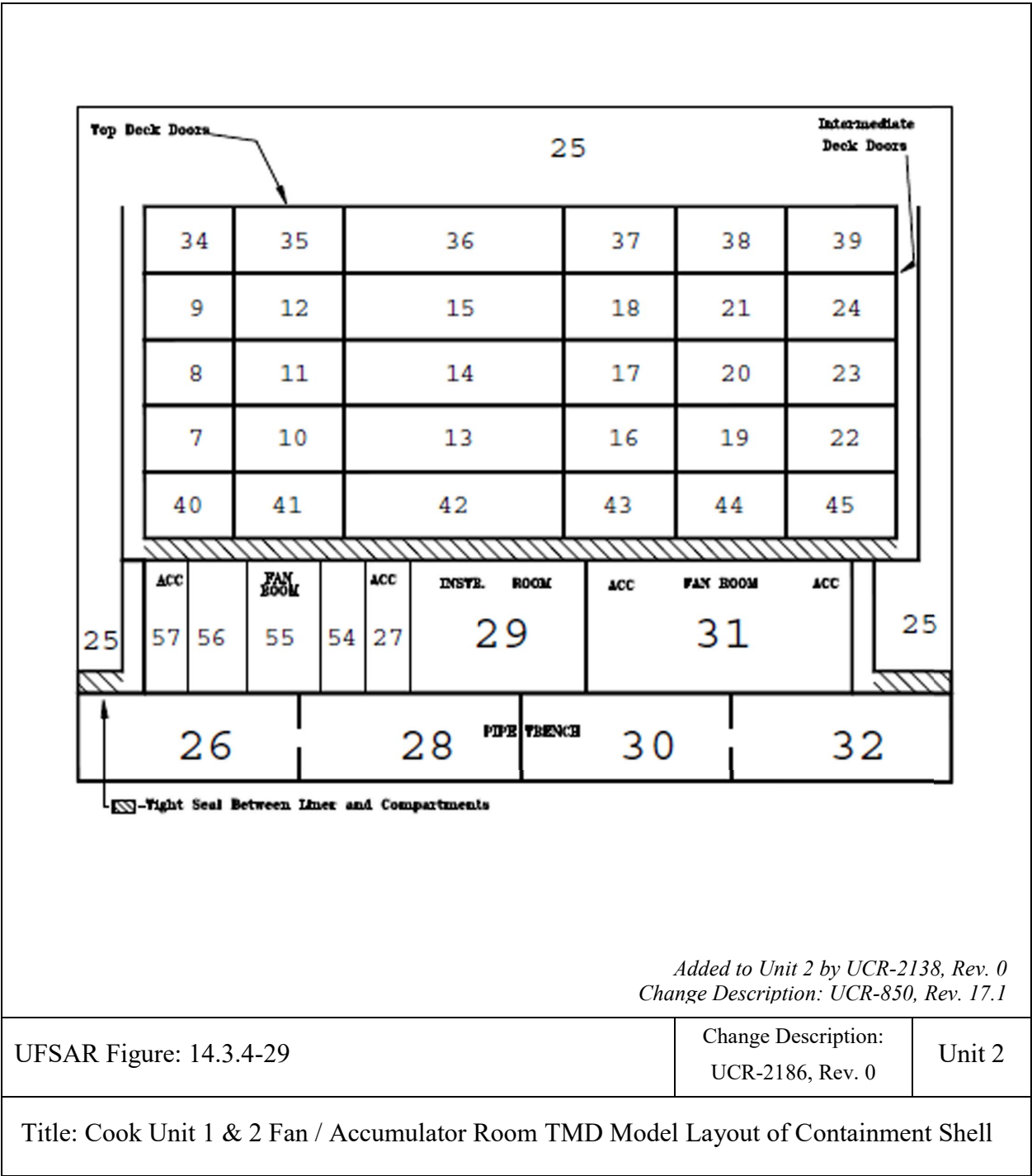
Title: Cook Unit 1 & 2 Pressurizer Enclosure TMD Model Noding Network

 An AEP Company	INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revised: 28.0 Chapter: 14 Sheet: 1 of 1
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 An AEP Company	INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revised: 28.0 Chapter: 14 Sheet: 1 of 1
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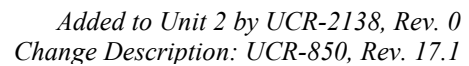


Added to Unit 2 by UCR-2138, Rev. 0  
Change Description: UCR-850, Rev. 17.1


UFSAR Figure: 14.3.4-29

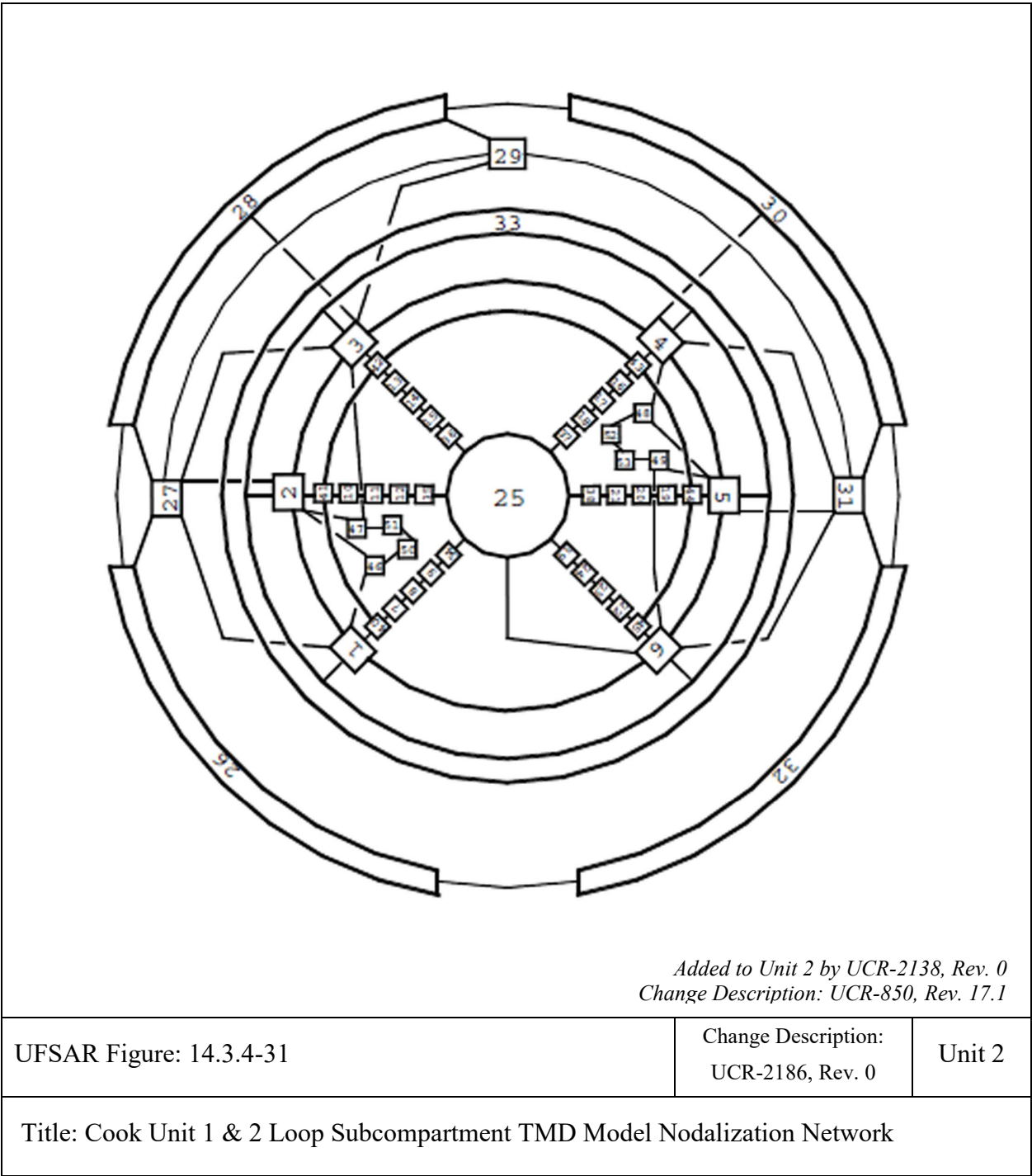
Change Description: UCR-2186, Rev. 0	Unit 2
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Title: Cook Unit 1 & 2 Fan / Accumulator Room TMD Model Layout of Containment Shell

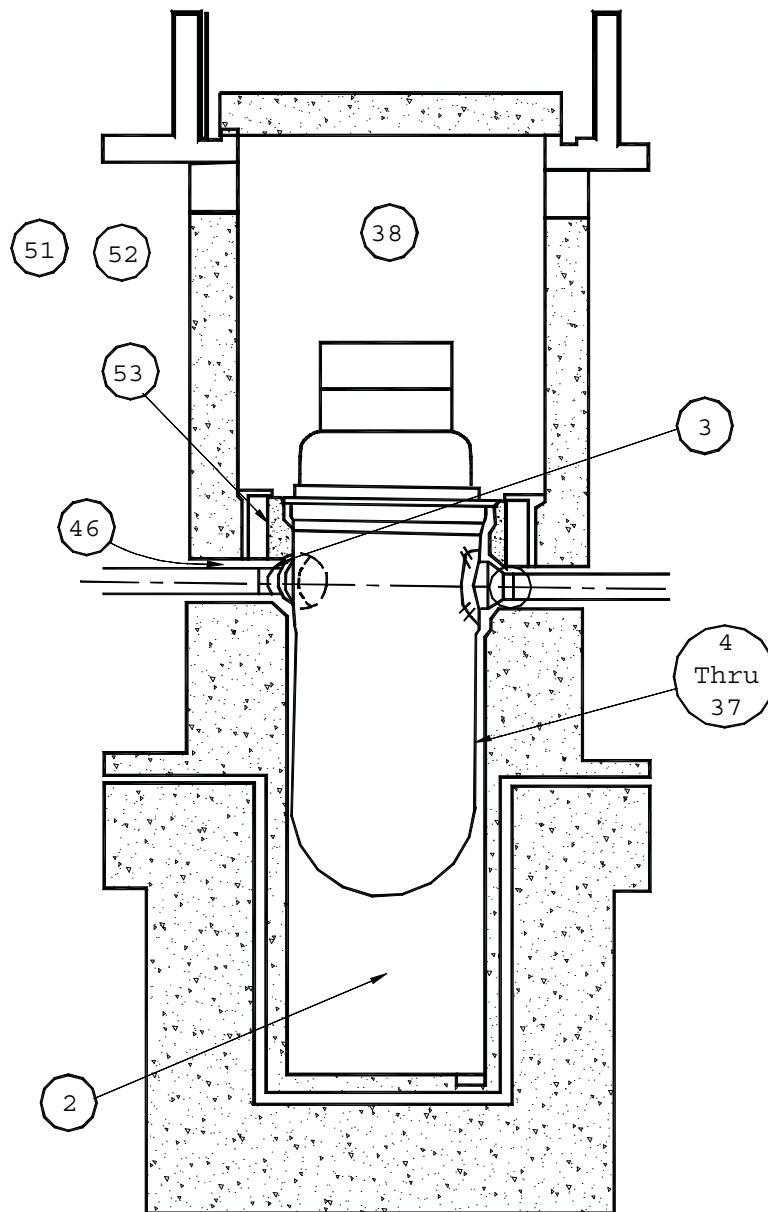


Title: Cook Unit 1 & 2 TMD Model with Fan / Accumulator Room Nodalization Network

 An AEP Company	INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revised: 28.0 Chapter: 14 Sheet: 1 of 1
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Revision: **17.1**

Change Description: **UCR-850**

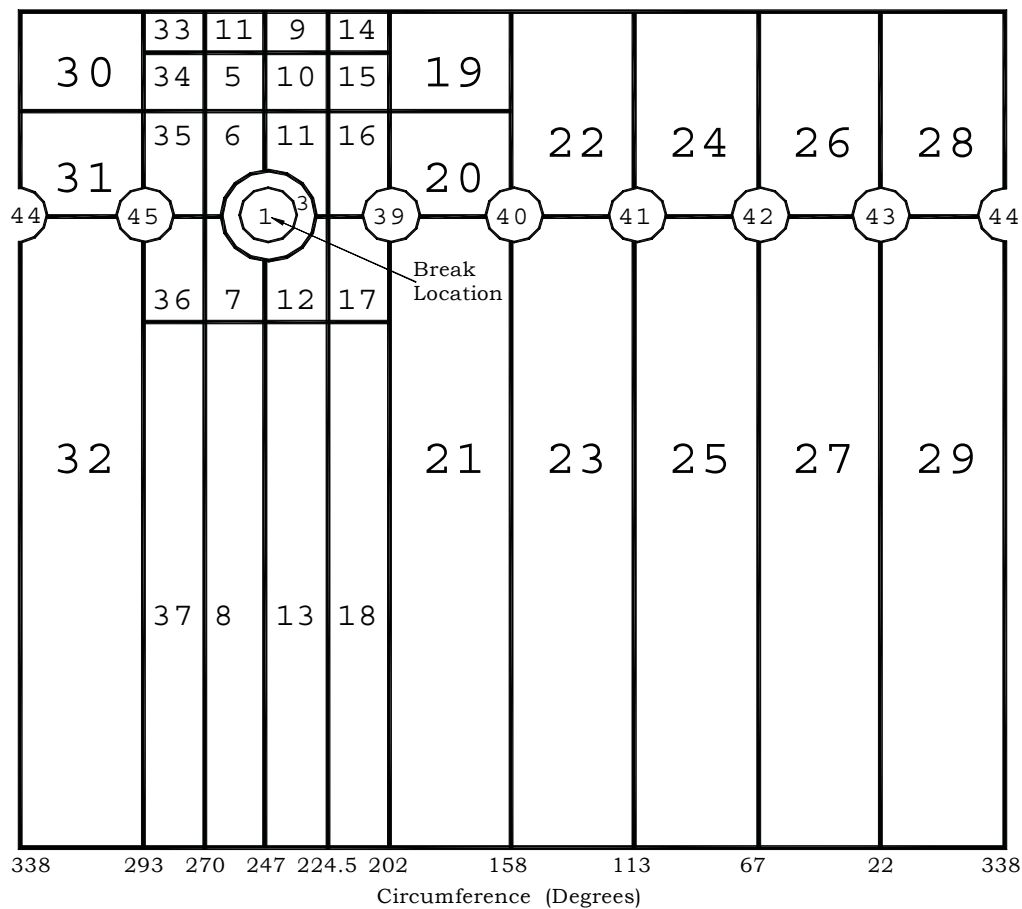
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Reactor Cavity Subcompartment TMD Model  
Containment Section View**

UFSAR Figure: **14.3.4-32**

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Revision: **17.1**

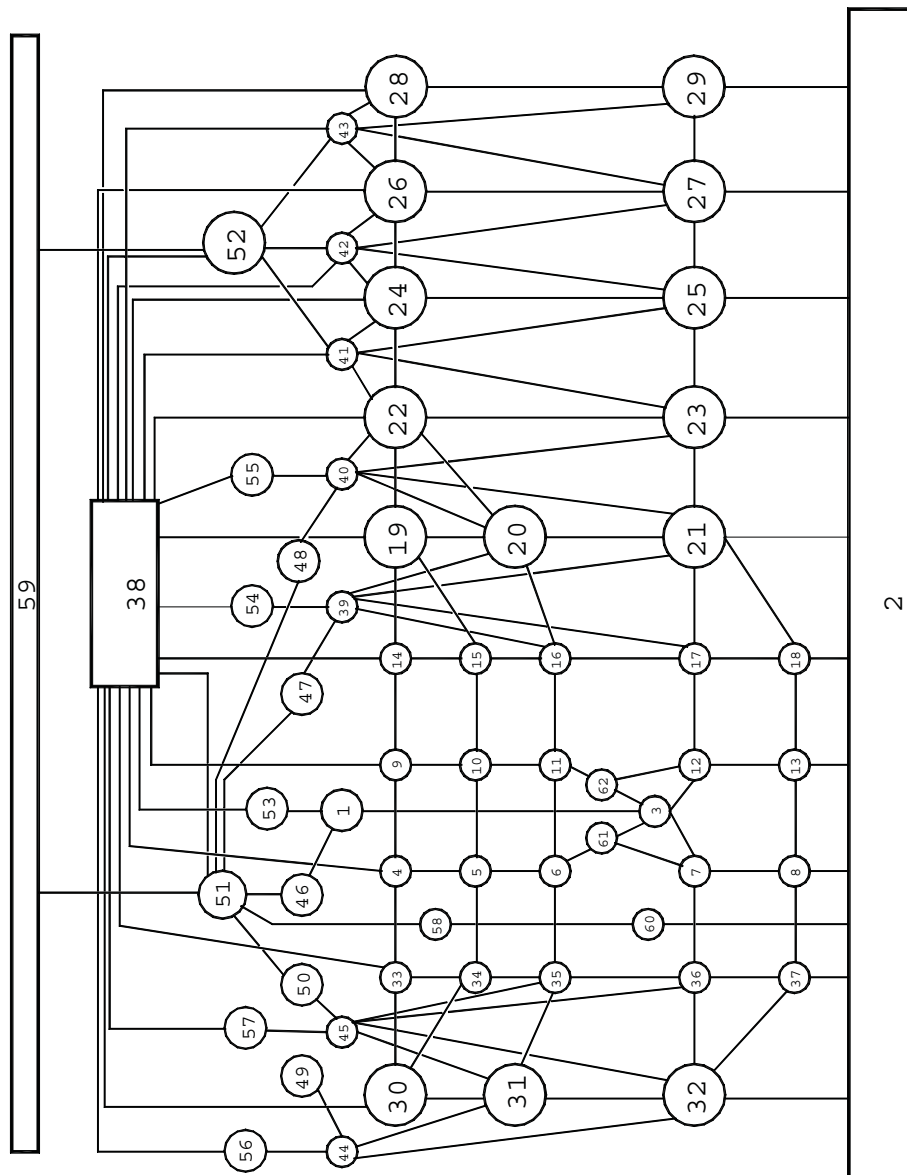
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Reactor Cavity Subcompartment TMD Model  
Layout of Reactor Vessel Annulus Elements**

UFSAR Figure: **14.3.4-33**

Sheet 1 of 1



Revision: **17.1**

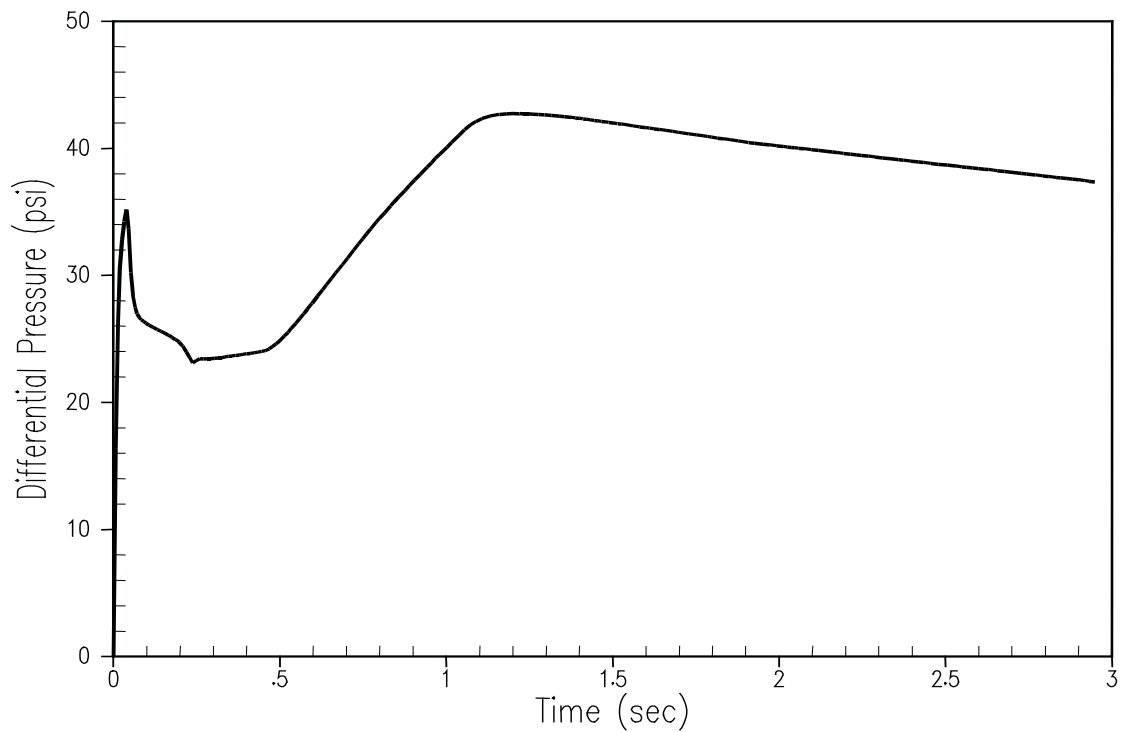
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Reactor Cavity Subcompartment TMD Model  
Nodalization Network**

UFSAR Figure: **14.3.4-34**

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**This Figure is representative and should not be used as input in other analyses.**

Revision: **19.3**

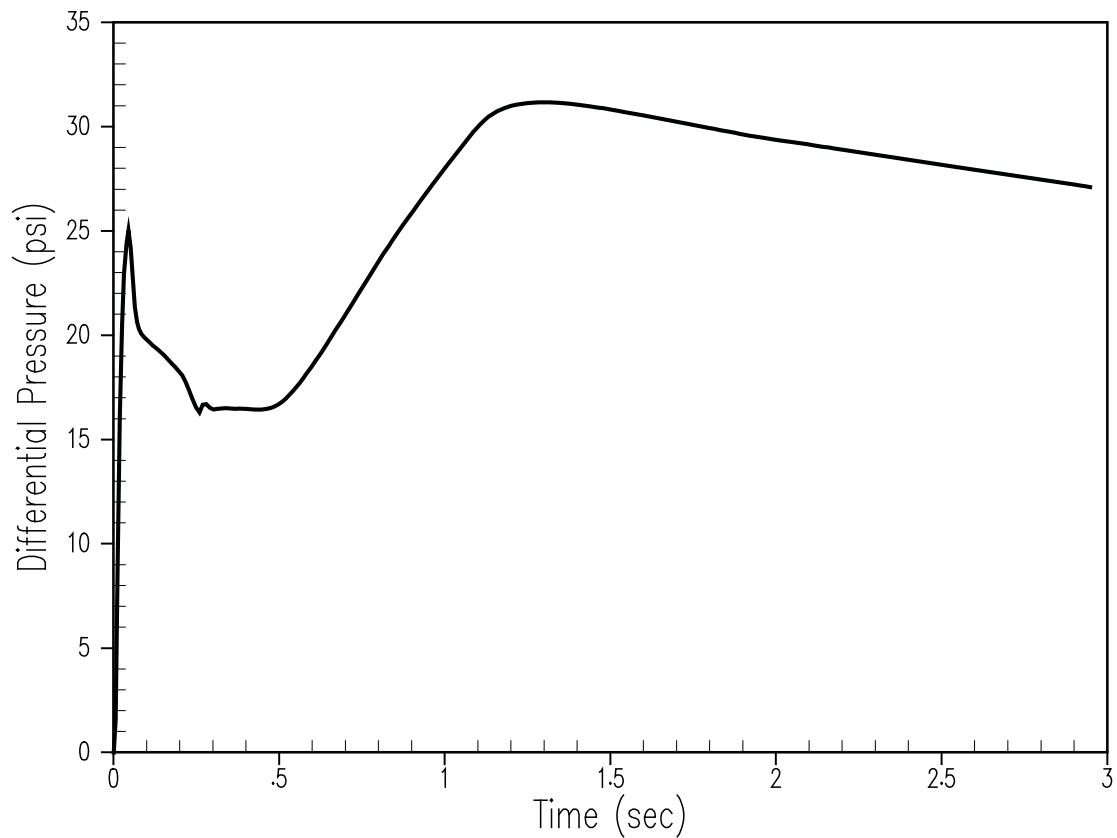
Change Description: **UCR-1748**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure Steam Line Break  
(  $\Delta P_{55-25}$  )**

UFSAR Figure: **14.3.4-35**

Sheet 1 of 1



**This Figure is representative and should not be used as input in other analyses.**

Revision: **19.3**

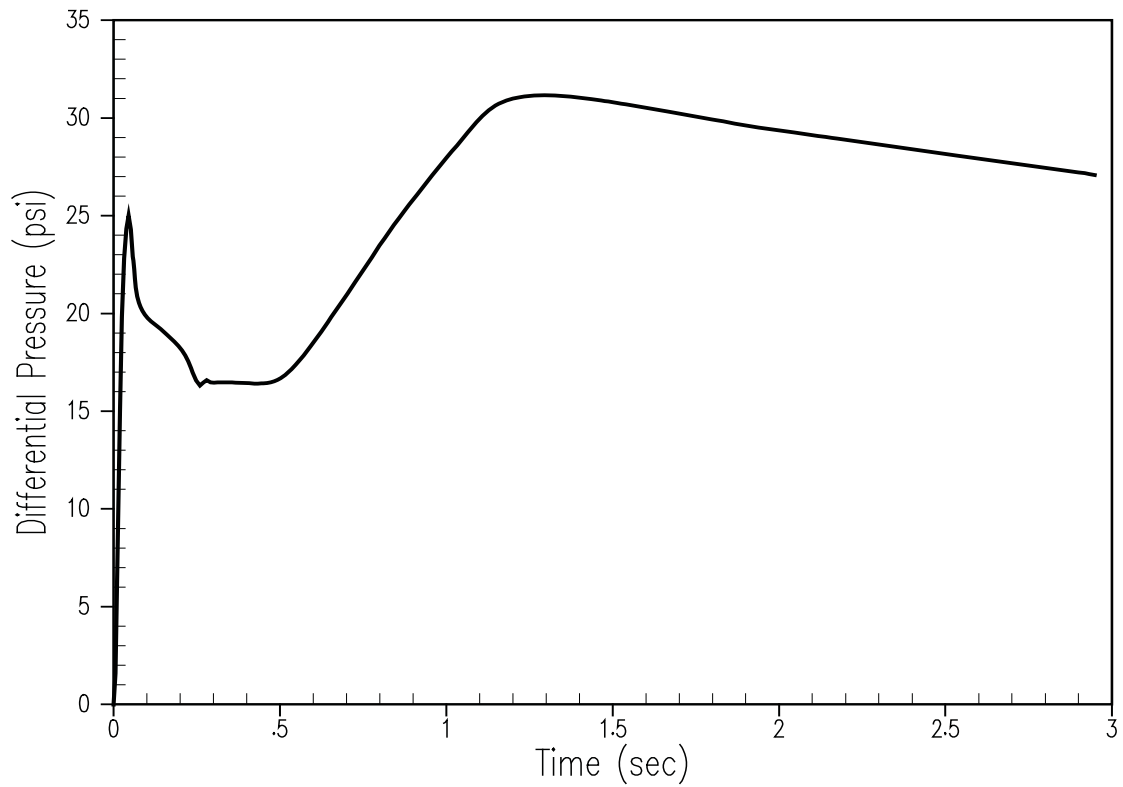
Change Description: **UCR-1748**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{56-25}$  )**

UFSAR Figure: **14.3.4-36**

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**This Figure is representative and should not be used as input in other analyses.**

Revision: **19.3**

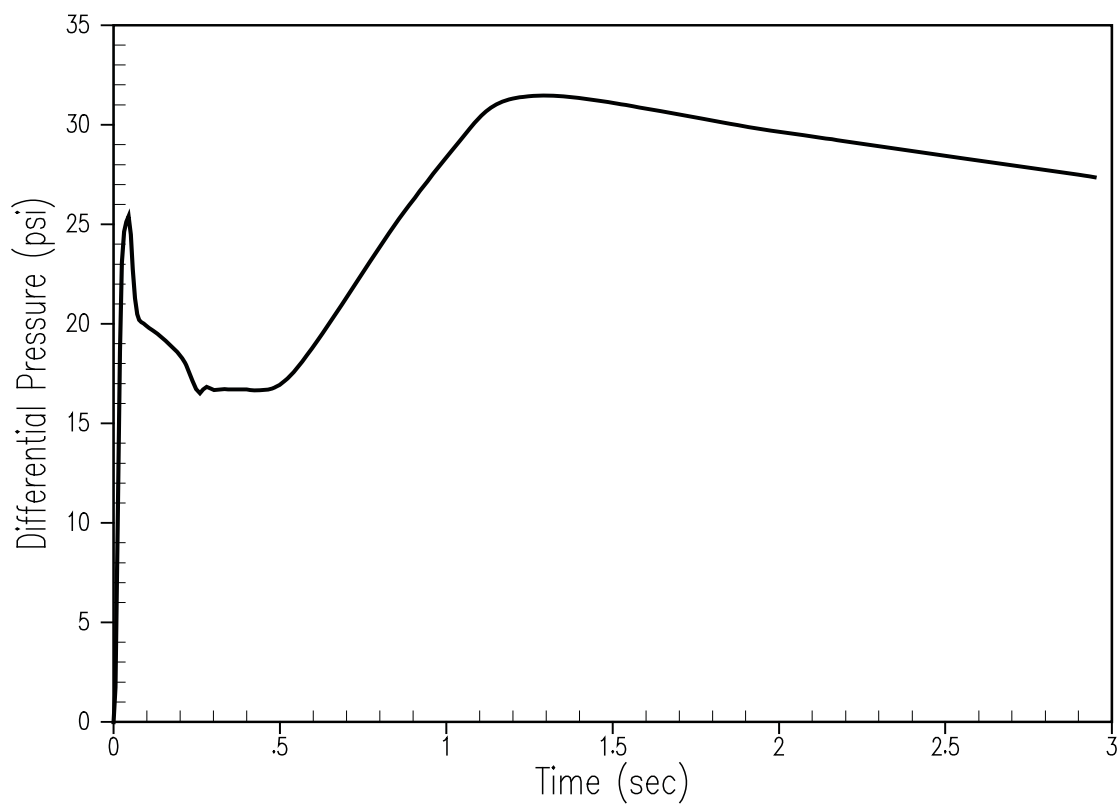
Change Description: **UCR-1748**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{57-25}$  )**

UFSAR Figure: **14.3.4-37**

Sheet 1 of 1



**This Figure is representative and should not be used as input in other analyses.**

Revision: **19.3**

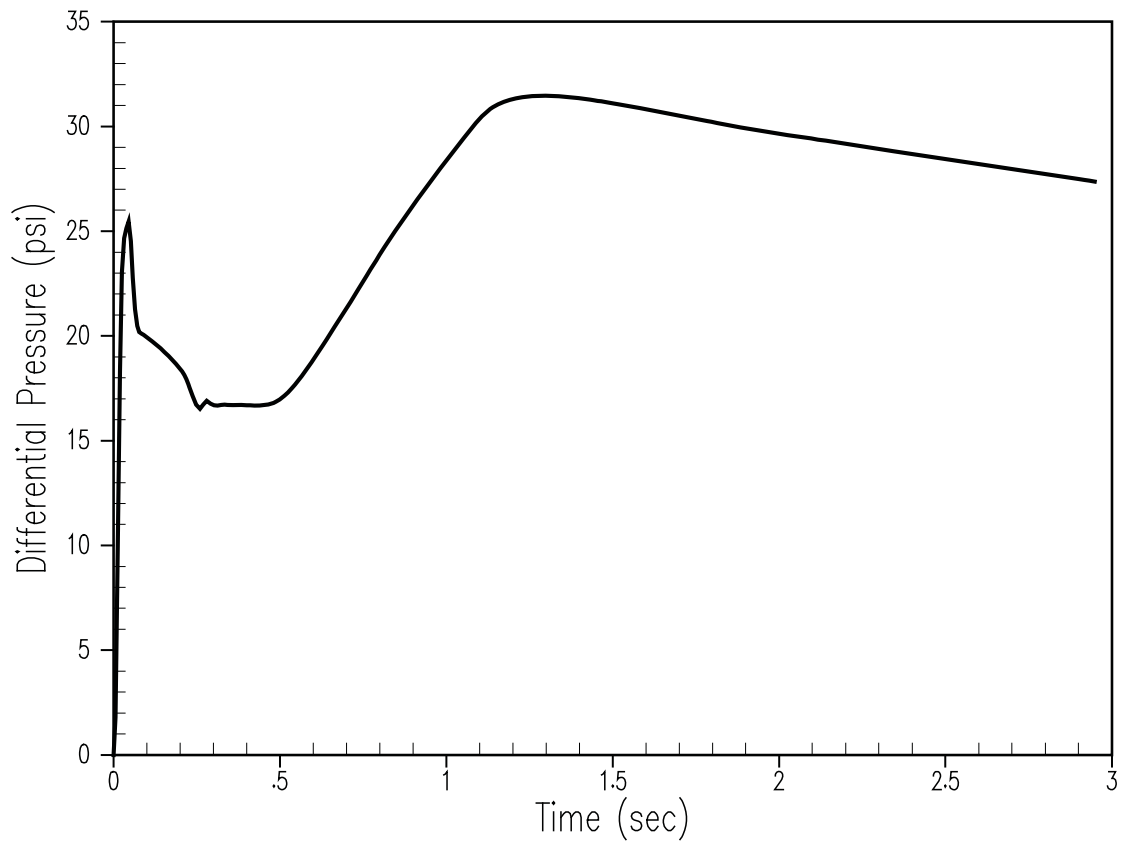
Change Description: **UCR-1748**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{58-25}$  )**

UFSAR Figure: **14.3.4-38**

Sheet 1 of 1



**This Figure is representative and should not be used as input in other analyses.**

Revision: **19.3**

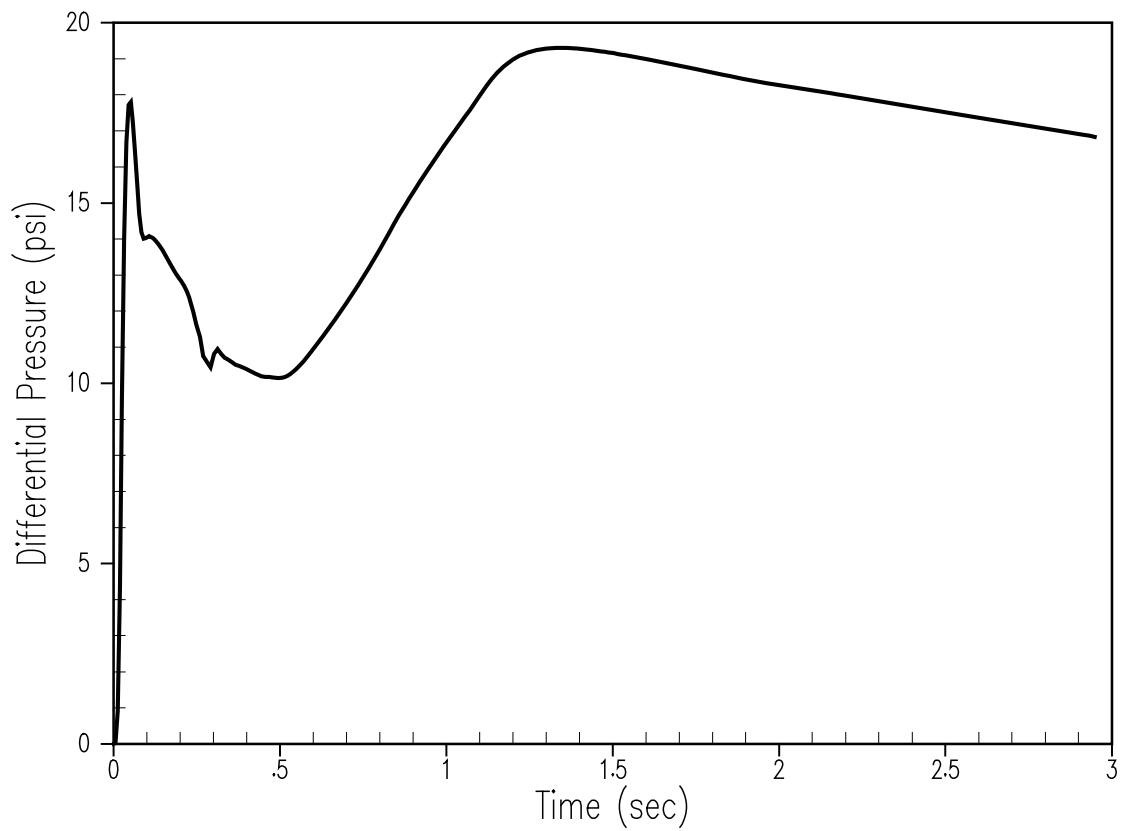
Change Description: **UCR-1748**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{59-25}$  )**

UFSAR Figure: **14.3.4-39**

Sheet 1 of 1



**This Figure is representative and should not be used as input in other analyses.**

Revision: **19.3**

Change Description: **UCR-1748**

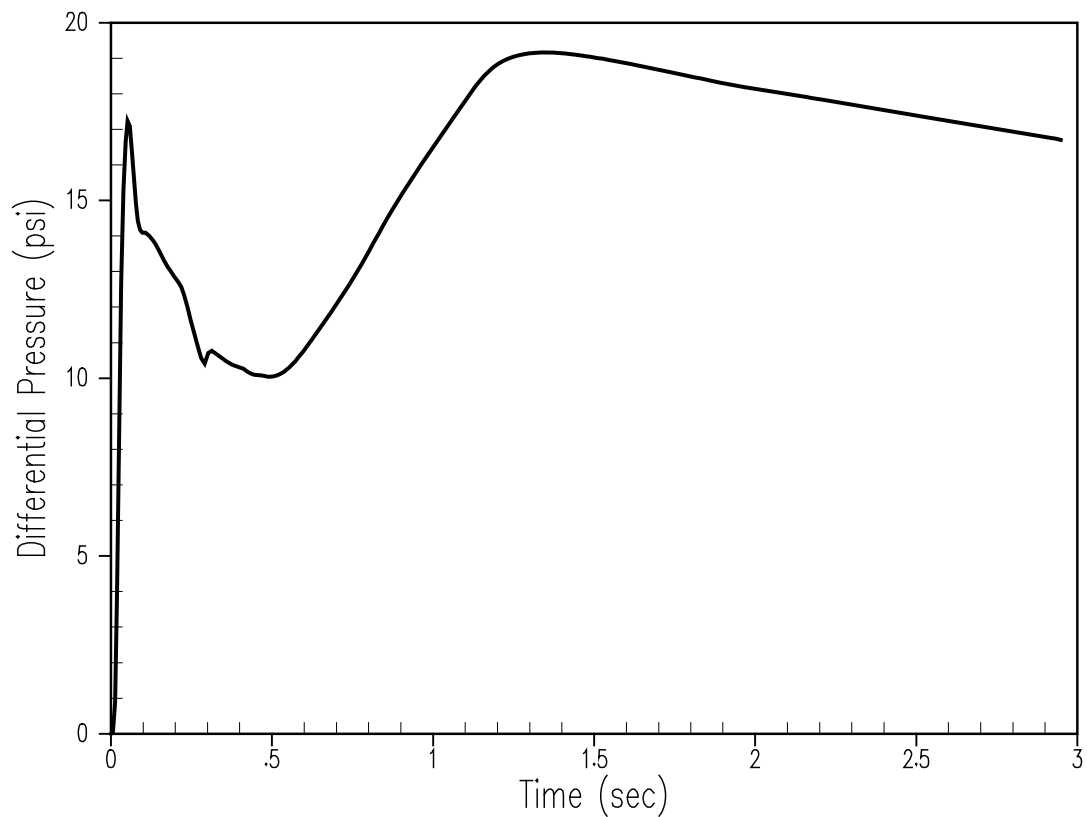
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{60-25}$  )**

UFSAR Figure: **14.3.4-40**

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**This Figure is representative and should not be used as input in other analyses.**

Revision: **19.3**

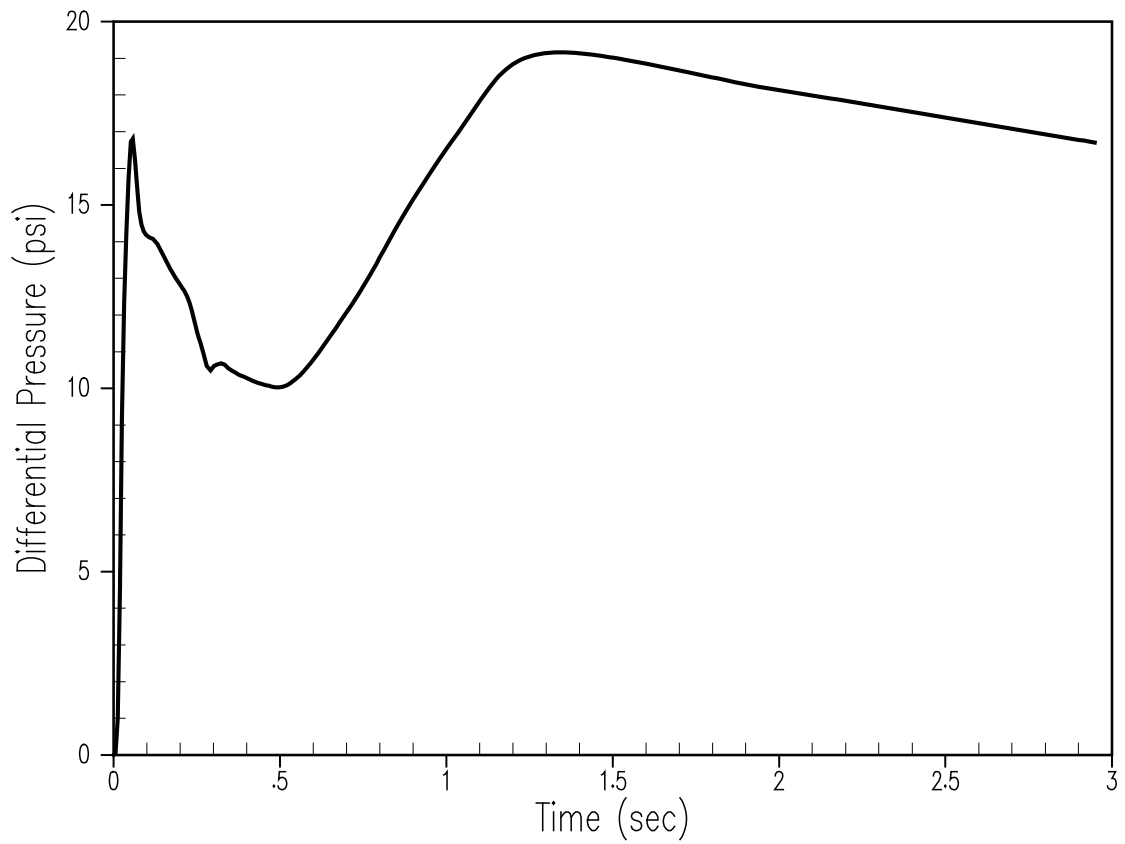
Change Description: **UCR-1748**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{61-25}$  )**

UFSAR Figure: **14.3.4-41**

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**This Figure is representative and should not be used as input in other analyses.**

Revision: **19.3**

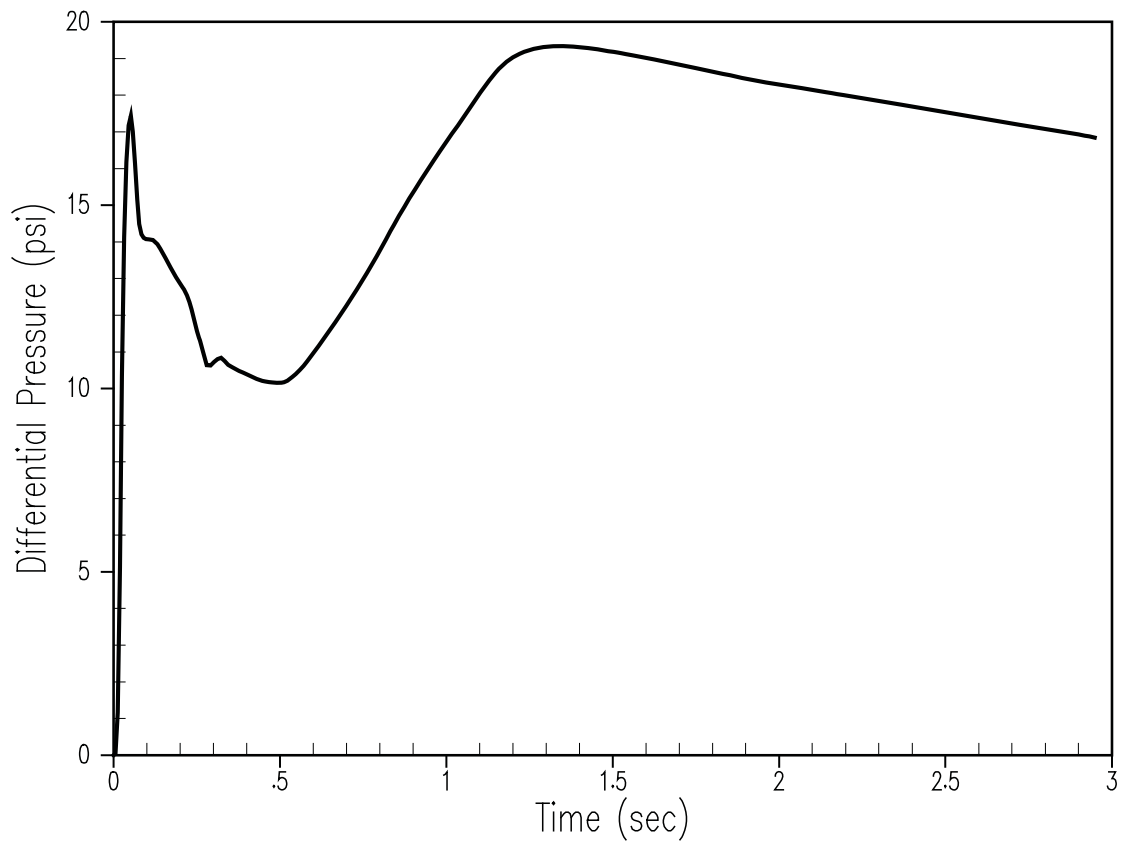
Change Description: **UCR-1748**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{62-25}$  )**

UFSAR Figure: **14.3.4-42**

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**This Figure is representative and should not be used as input in other analyses.**

Revision: **19.3**

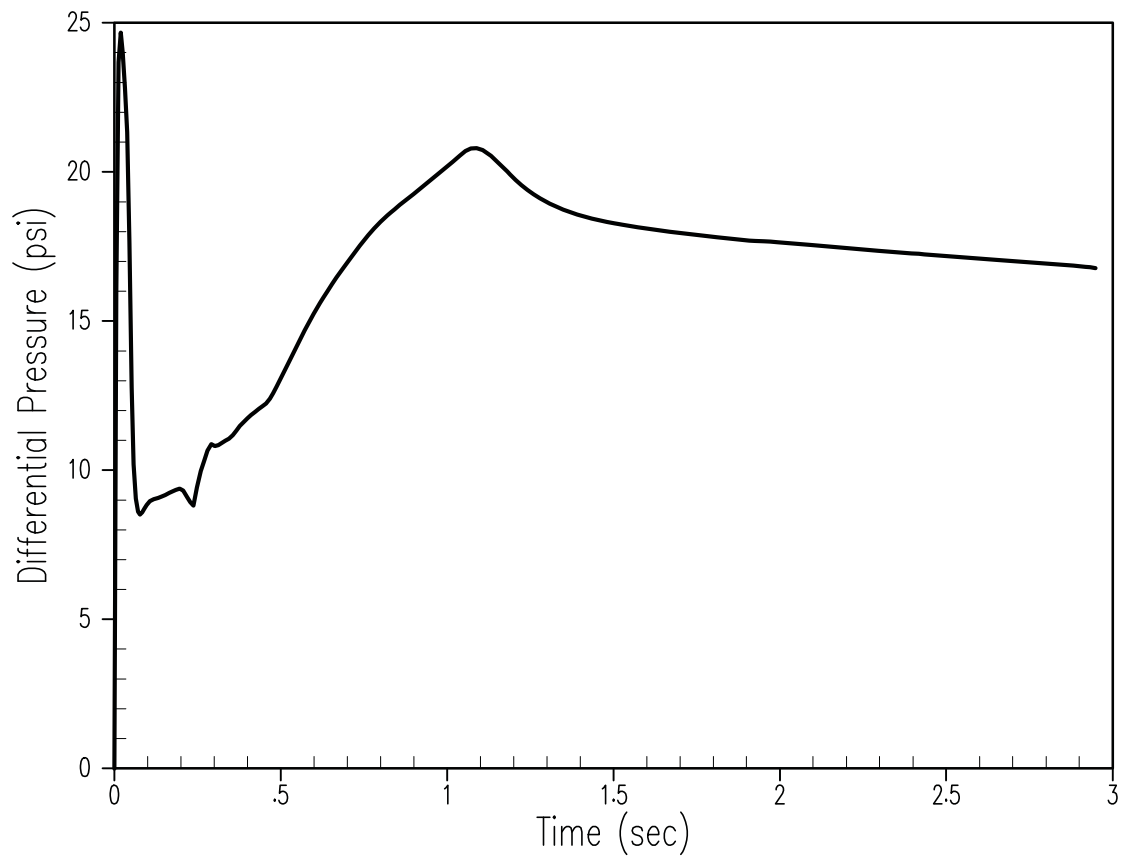
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{63-25}$  )**

UFSAR Figure: **14.3.4-43**

Sheet 1 of 1



Revision: **17.1**

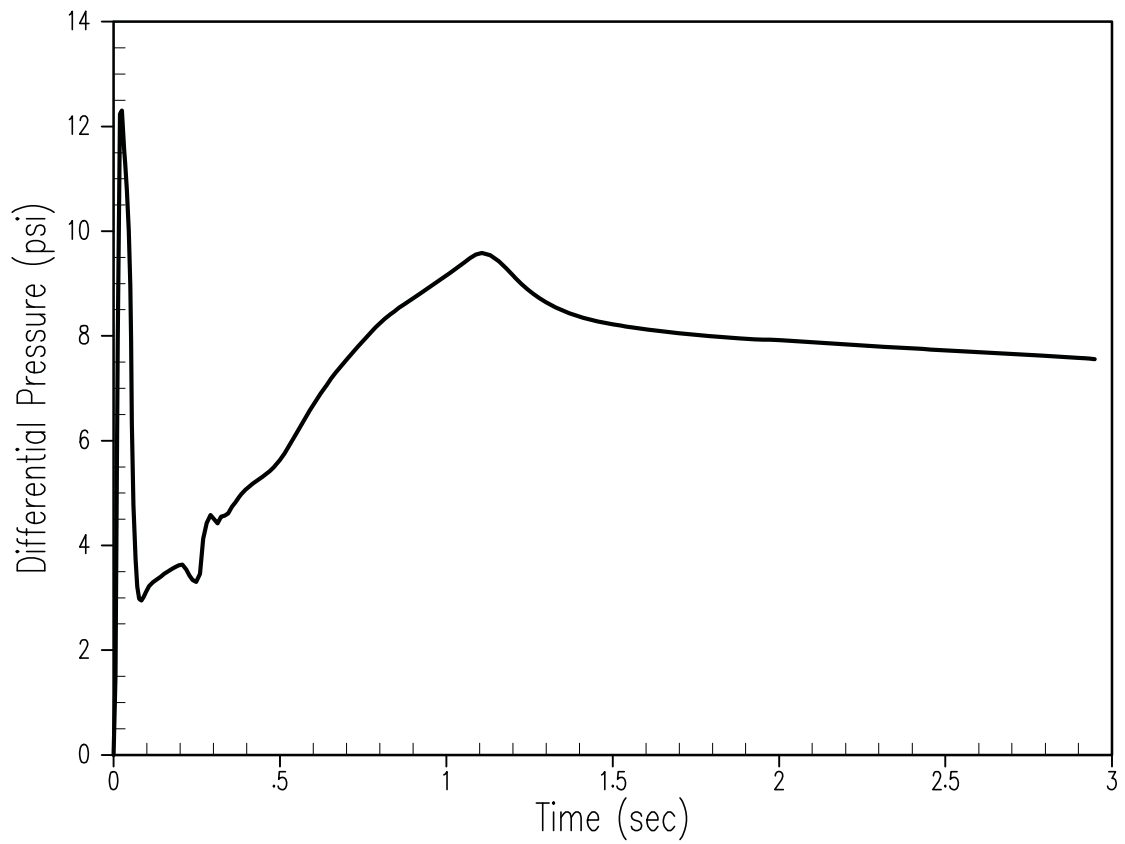
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{55-46}$  )**

UFSAR Figure: **14.3.4-44**

Sheet 1 of 1



Revision: **17.1**

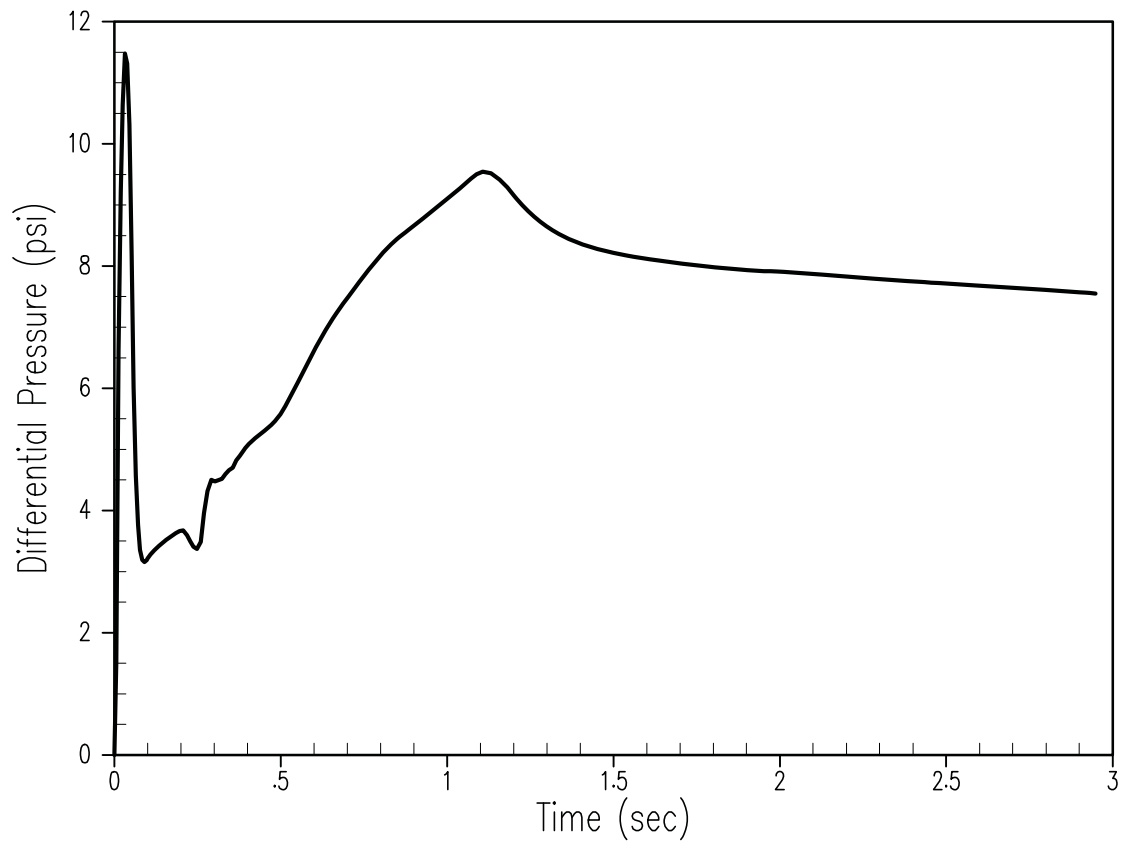
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{56-47}$  )**

UFSAR Figure: **14.3.4-45**

Sheet 1 of 1



Revision: **17.1**

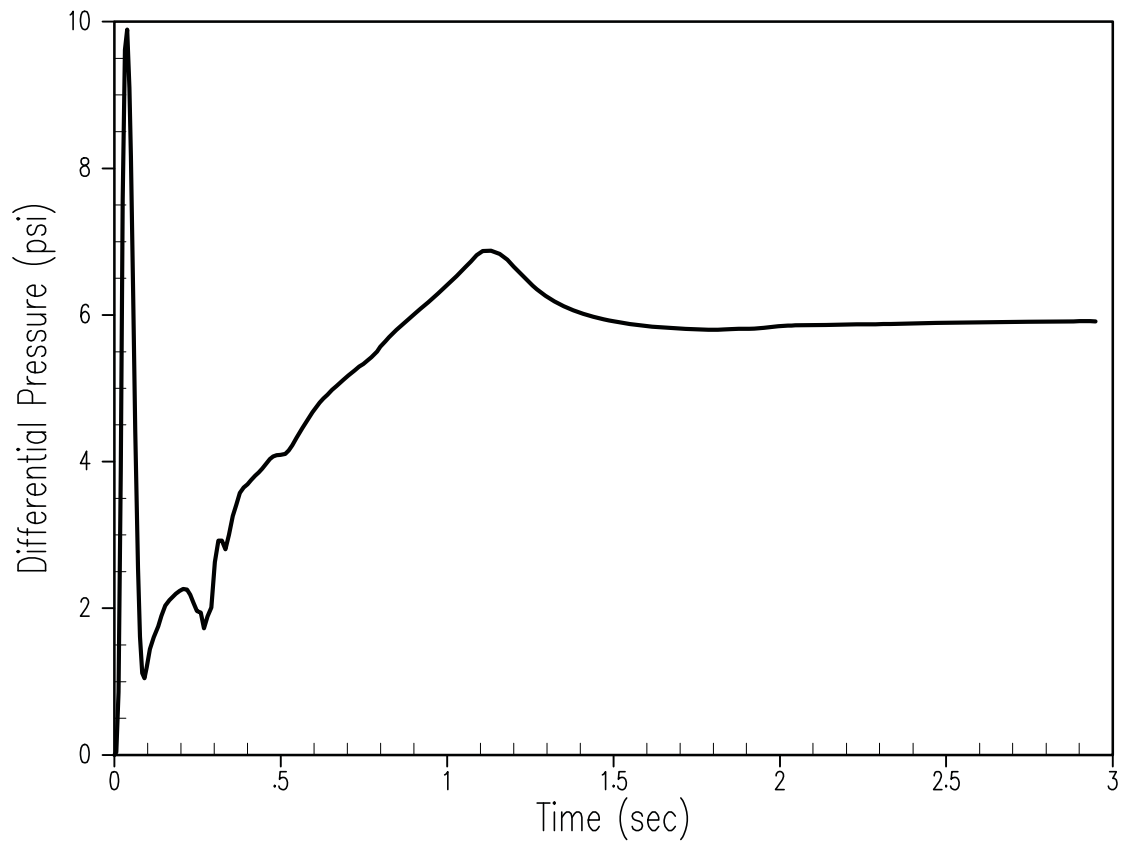
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{57-48}$  )**

UFSAR Figure: **14.3.4-46**

Sheet 1 of 1



Revision: **17.1**

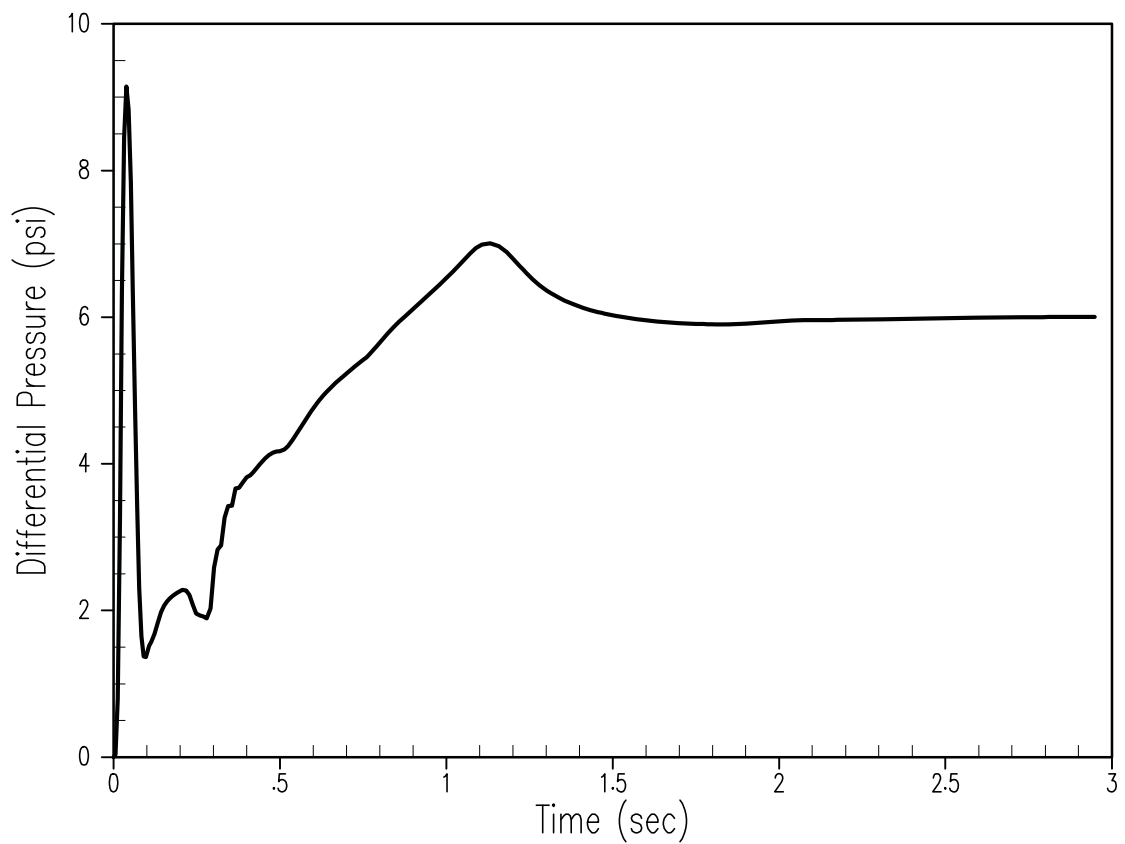
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{60-51}$  )**

UFSAR Figure: **14.3.4-47**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

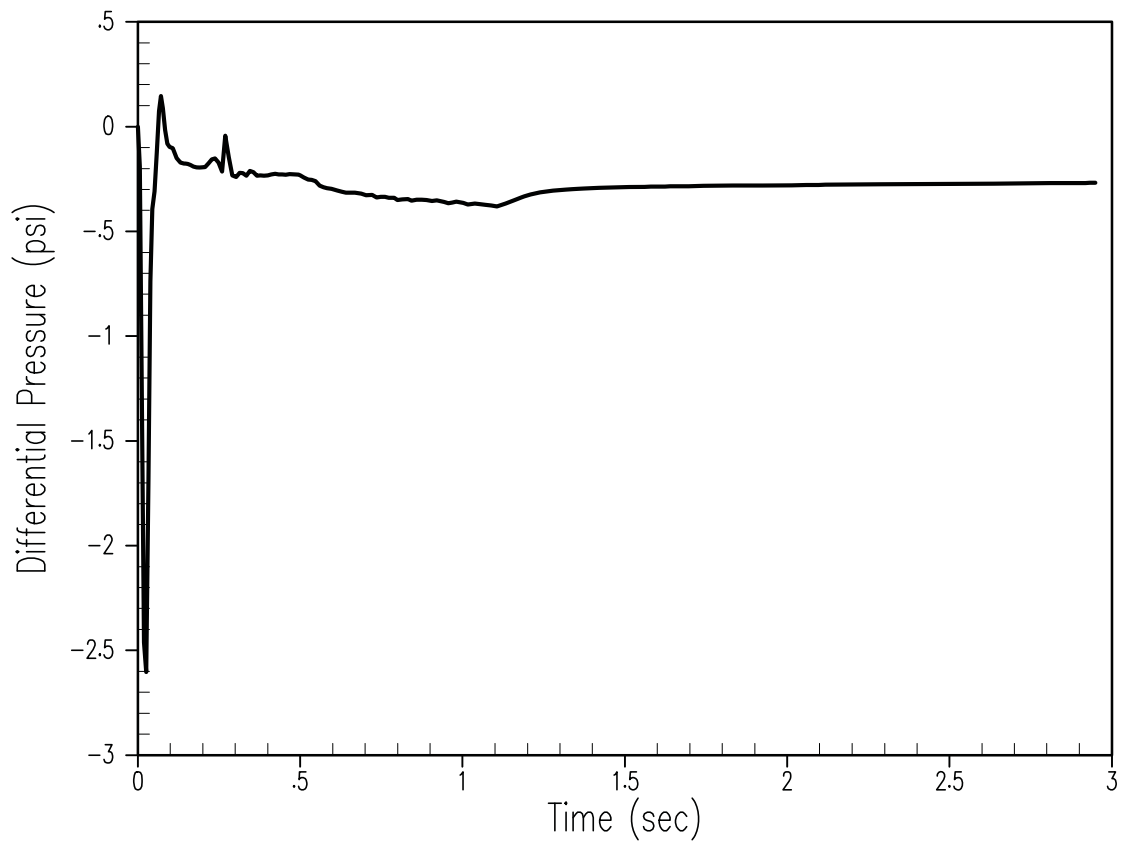
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{61-52}$  )**

UFSAR Figure: **14.3.4-48**

Sheet 1 of 1





Revision: **17.1**

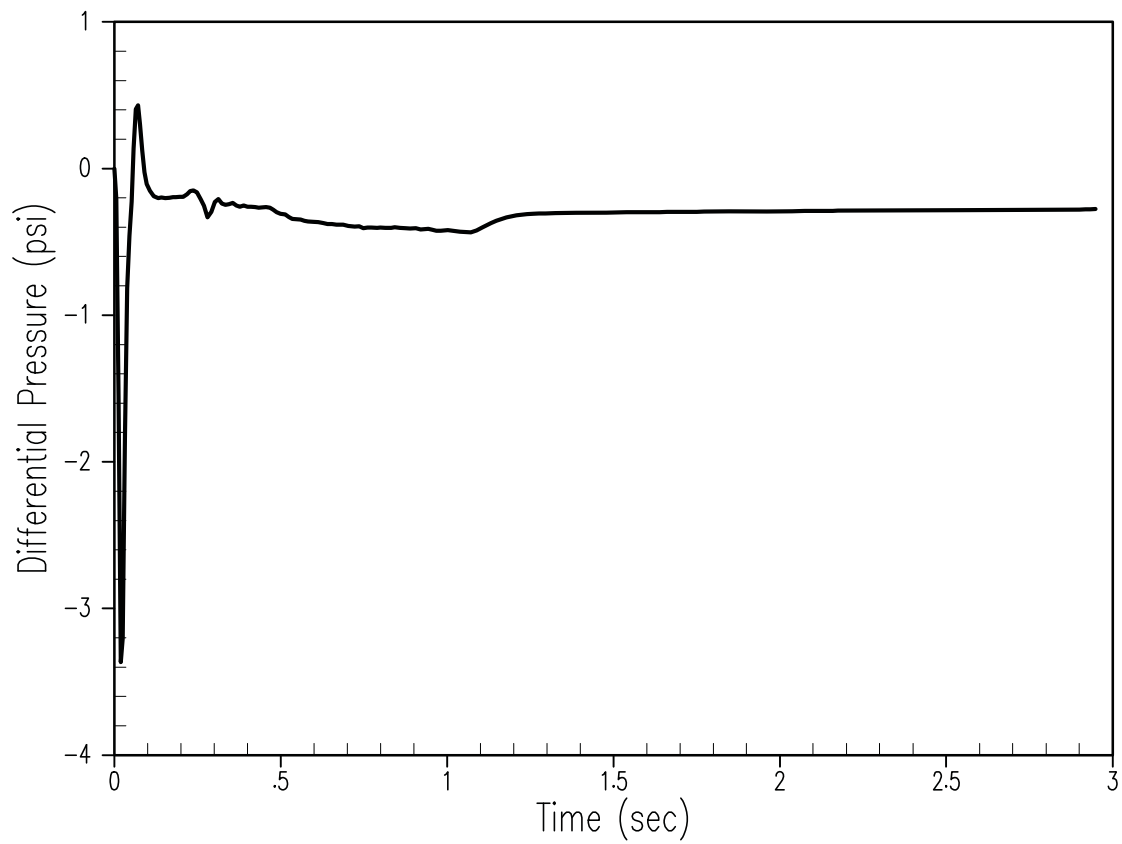
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{56-58}$  )**

UFSAR Figure: **14.3.4-49**

Sheet 1 of 1



Revision: **17.1**

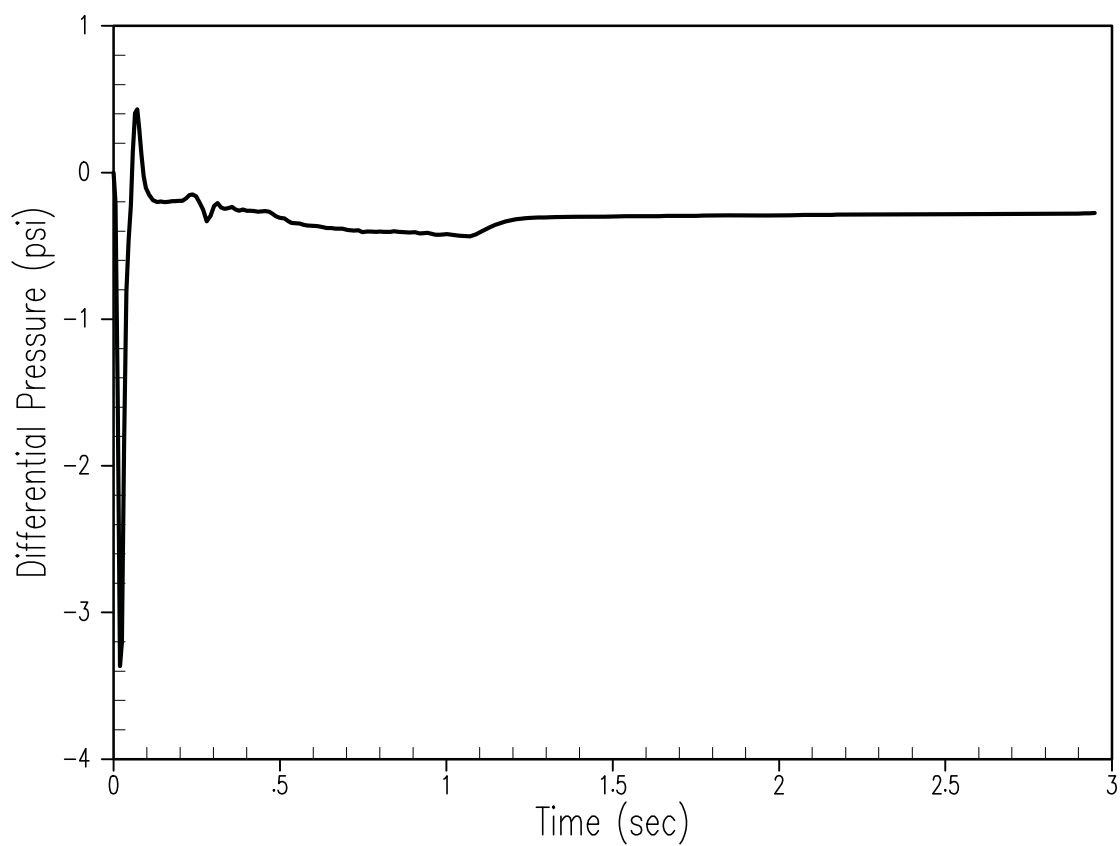
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{57-59}$  )**

UFSAR Figure: **14.3.4-50**

Sheet 1 of 1



Revision: **17.1**

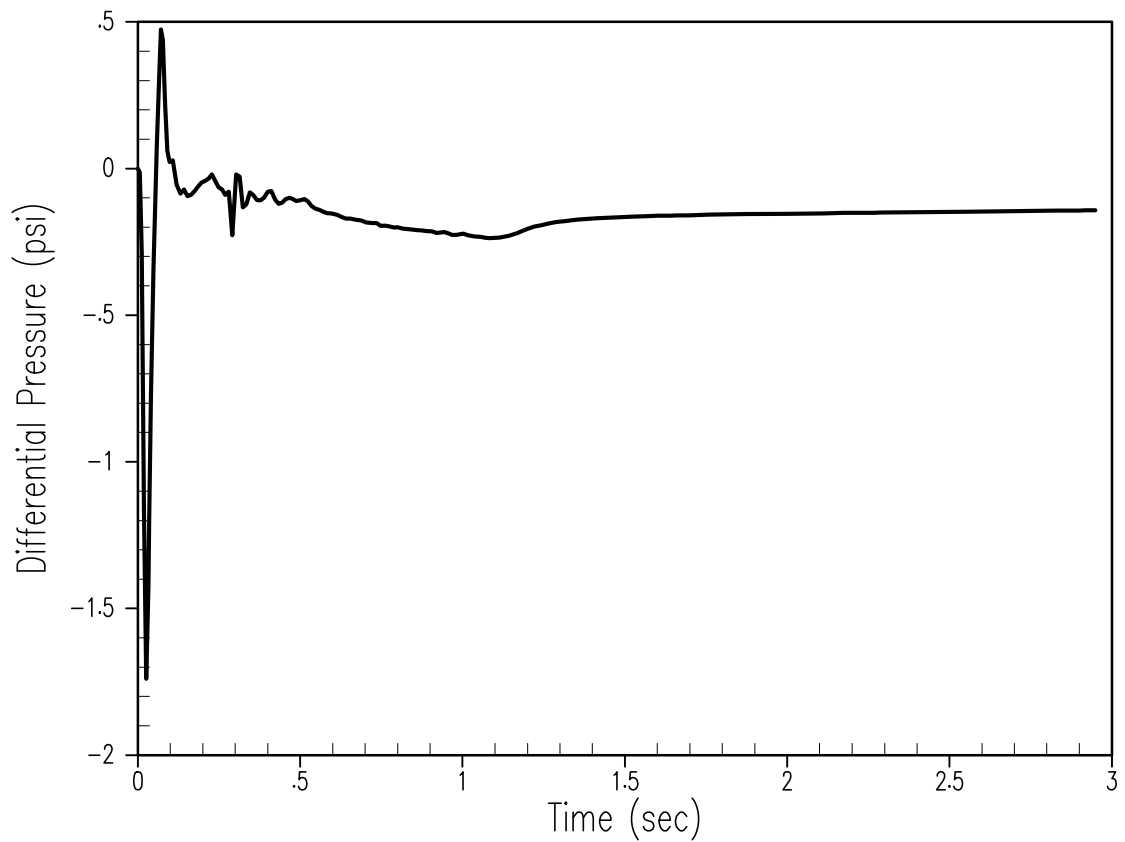
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{60-62}$  )**

UFSAR Figure: **14.3.4-51**

Sheet 1 of 1



Revision: **17.1**

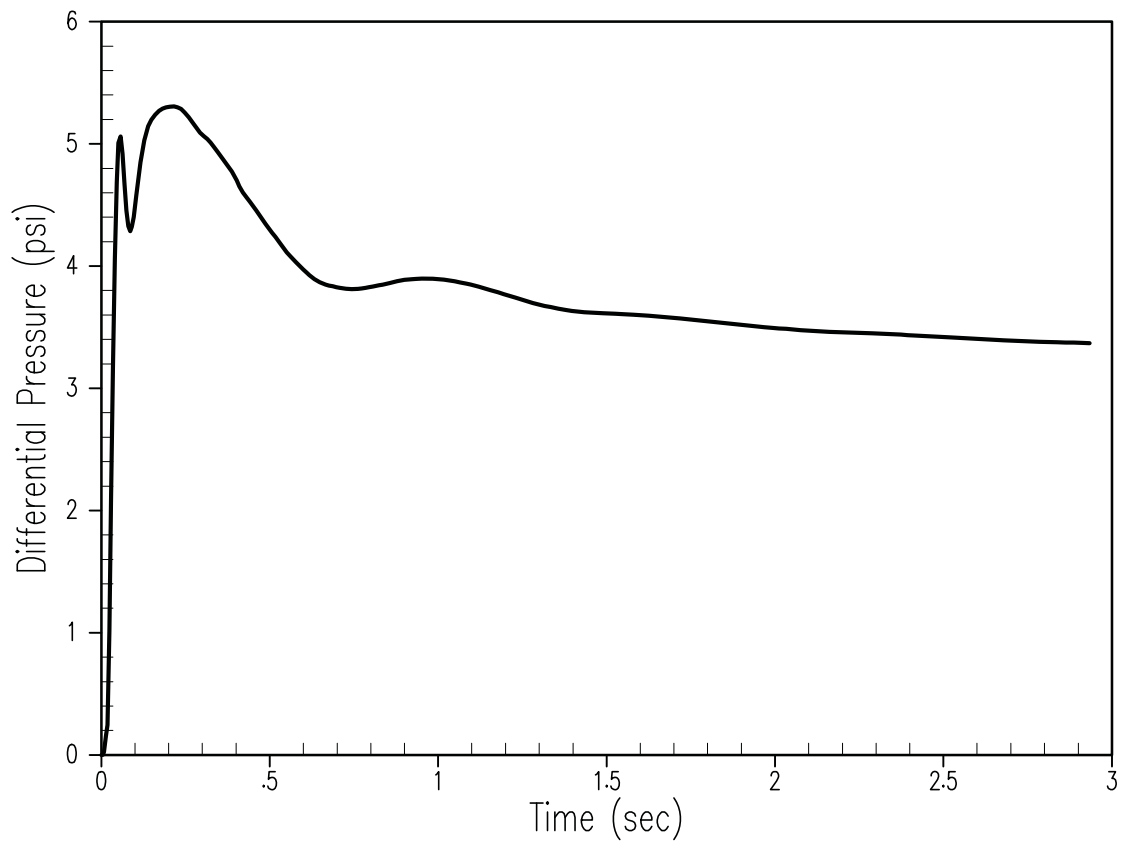
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Steam Line Break  
(  $\Delta P_{61-63}$  )**

UFSAR Figure: **14.3.4-52**

Sheet 1 of 1



Revision: **17.1**

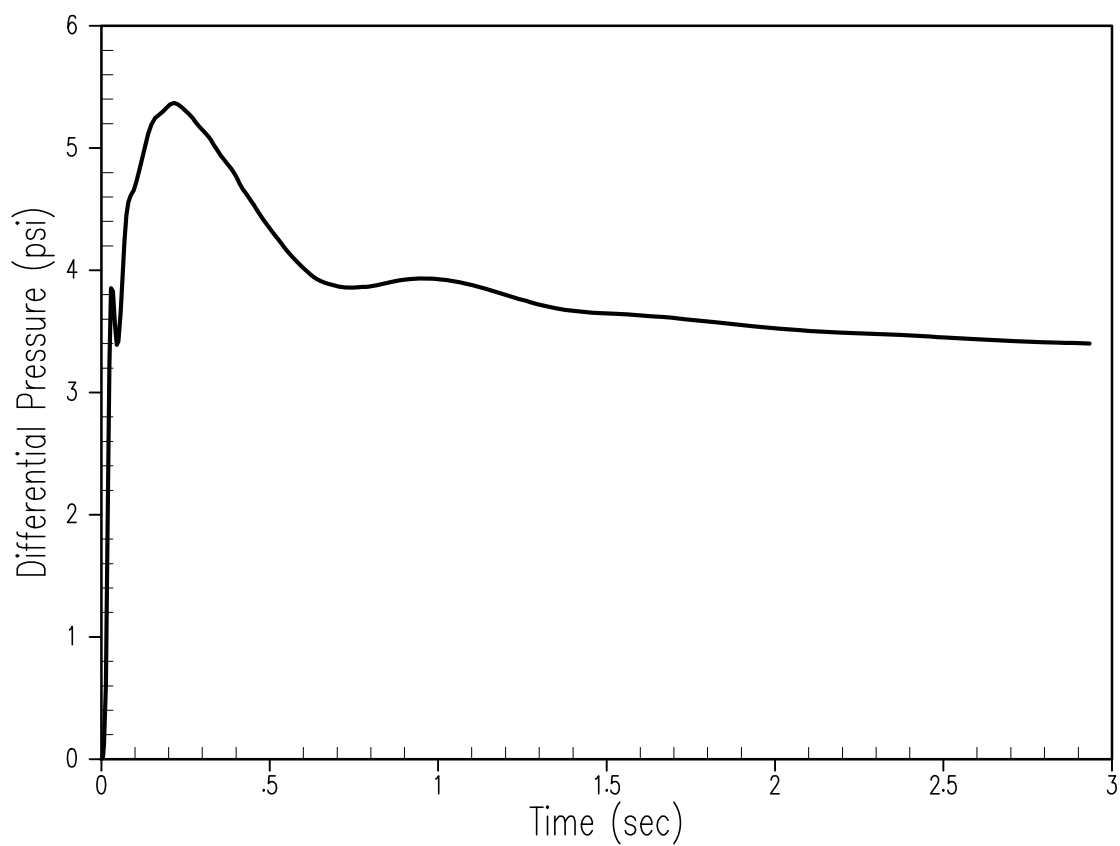
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{55-25}$  )**

UFSAR Figure: **14.3.4-53**

Sheet 1 of 1



Revision: **17.1**

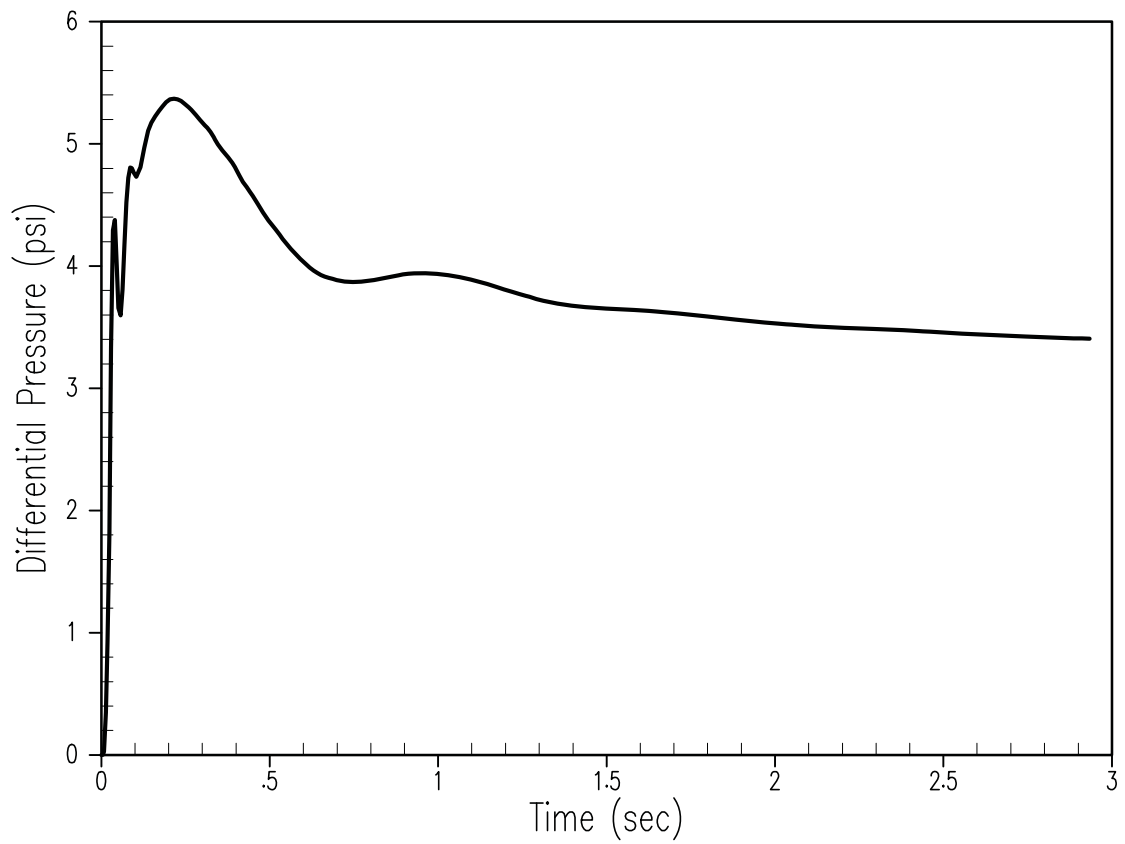
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{56-25}$  )**

UFSAR Figure: **14.3.4-54**

Sheet 1 of 1



Revision: **17.1**

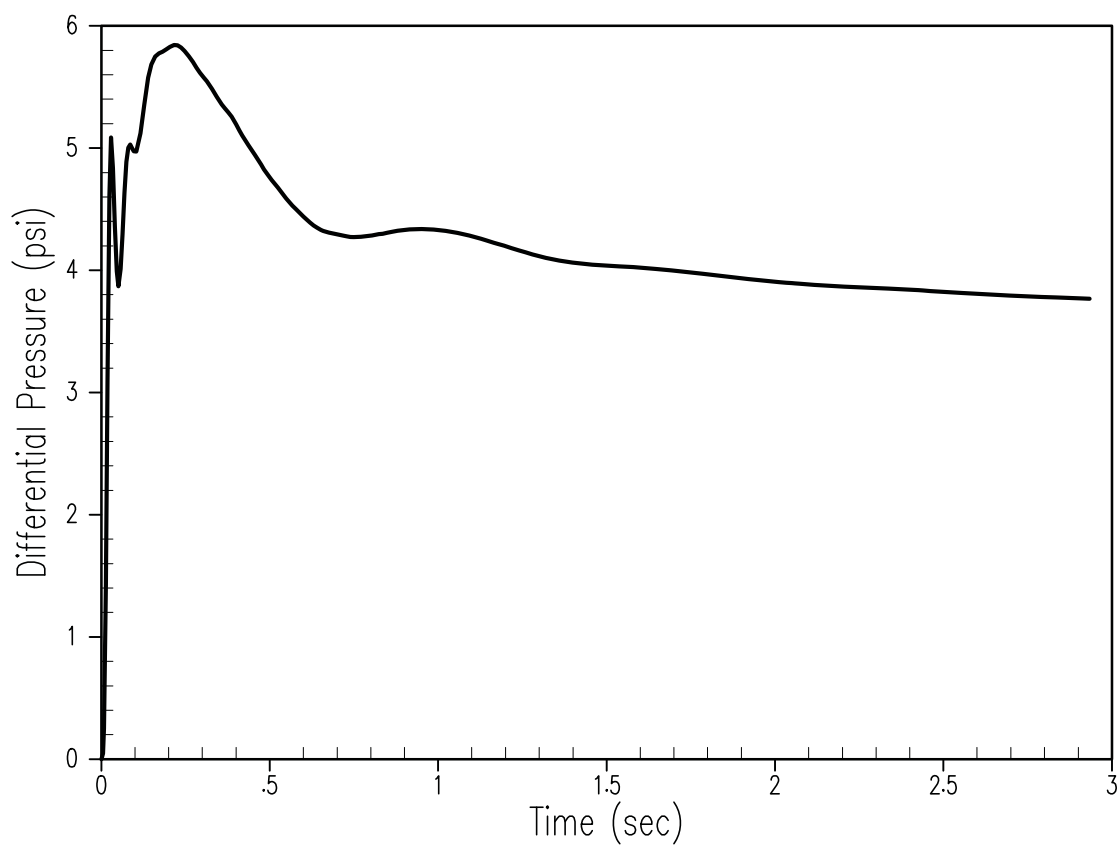
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{57-25}$  )**

UFSAR Figure: **14.3.4-55**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

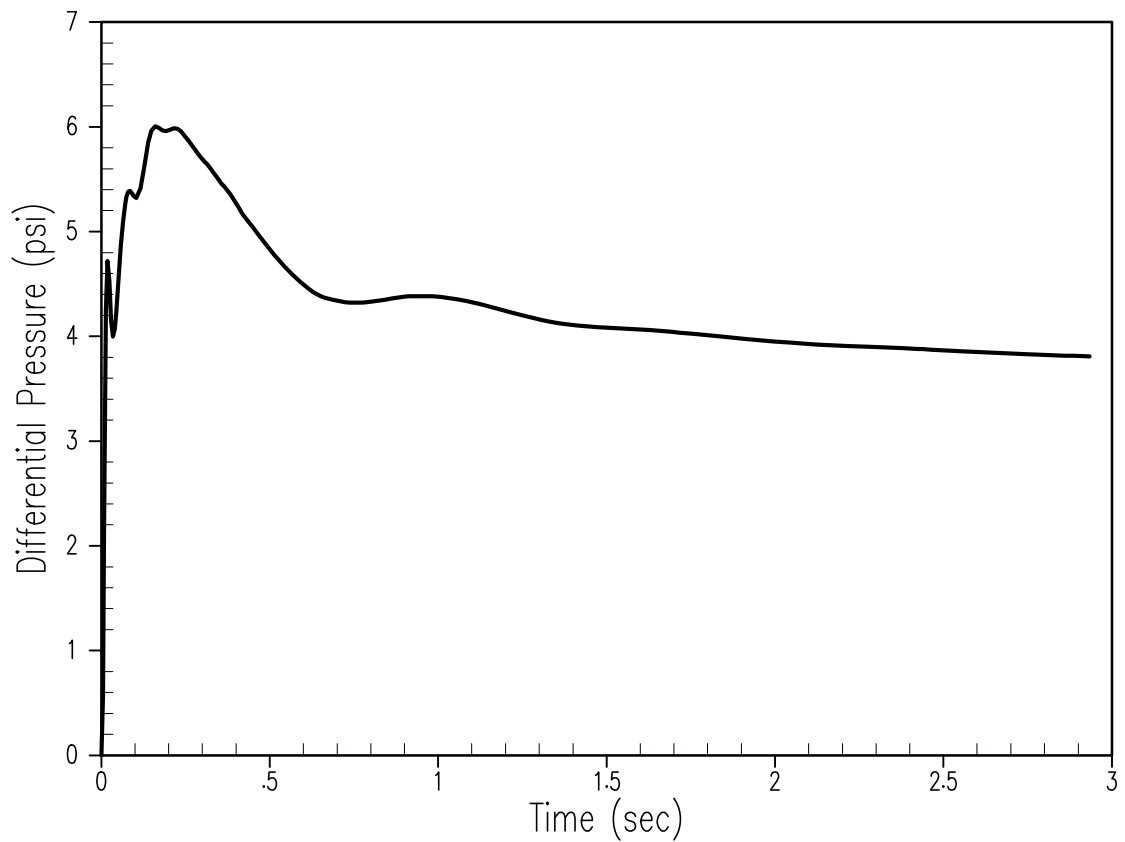
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{58-25}$  )**

UFSAR Figure: **14.3.4-56**

Sheet 1 of 1





Revision: **17.1**

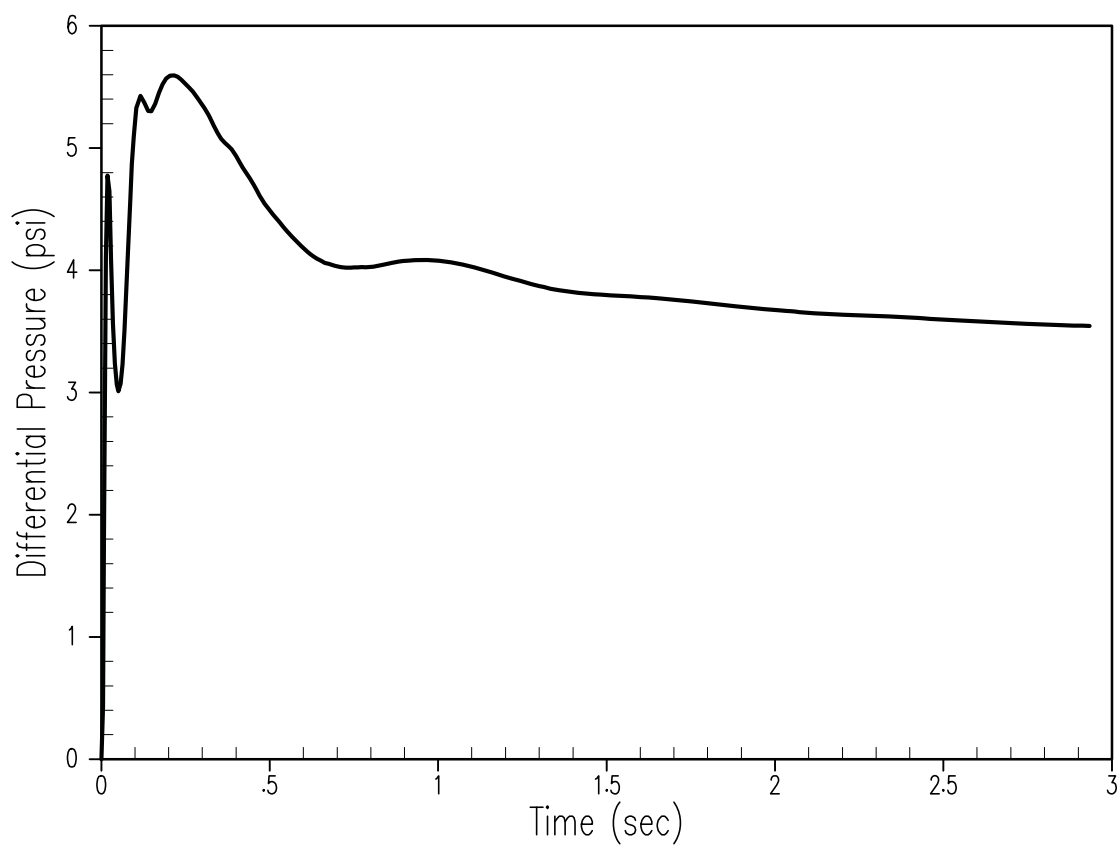
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{59-25}$  )**

UFSAR Figure: **14.3.4-57**

Sheet 1 of 1



Revision: **17.1**

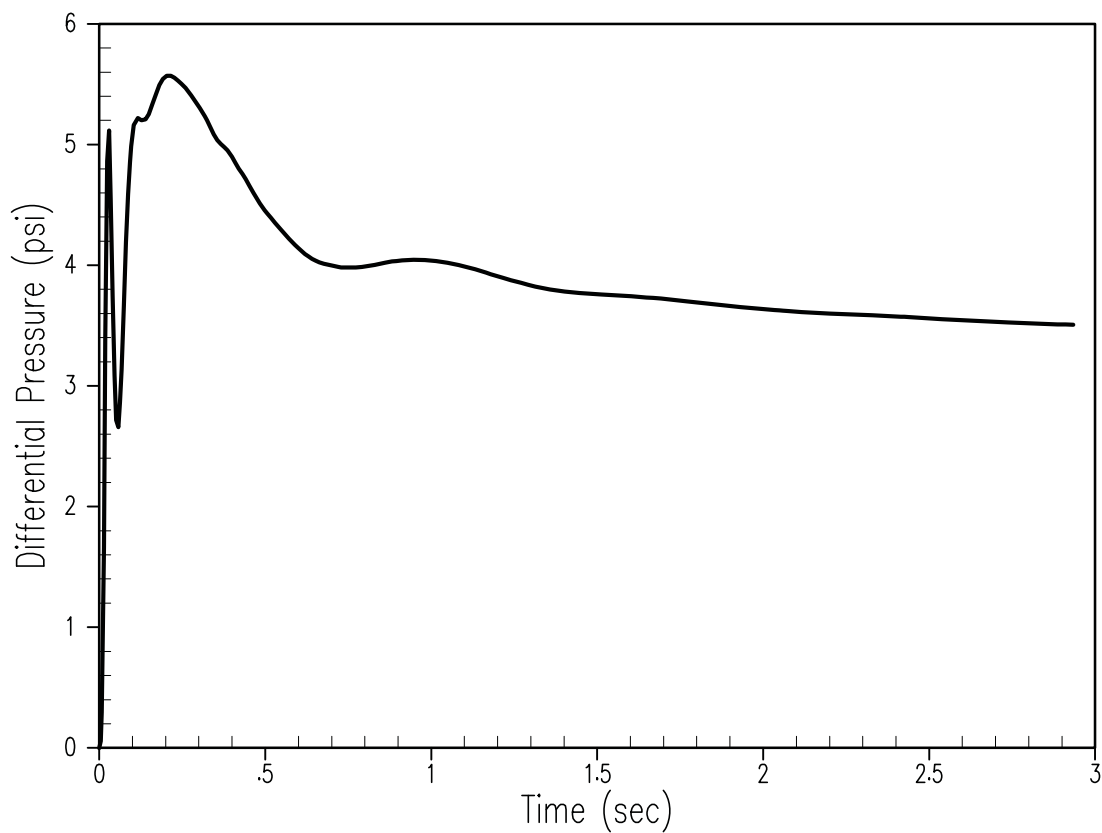
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{60-25}$  )**

UFSAR Figure: **14.3.4-58**

Sheet 1 of 1



Revision: **17.1**

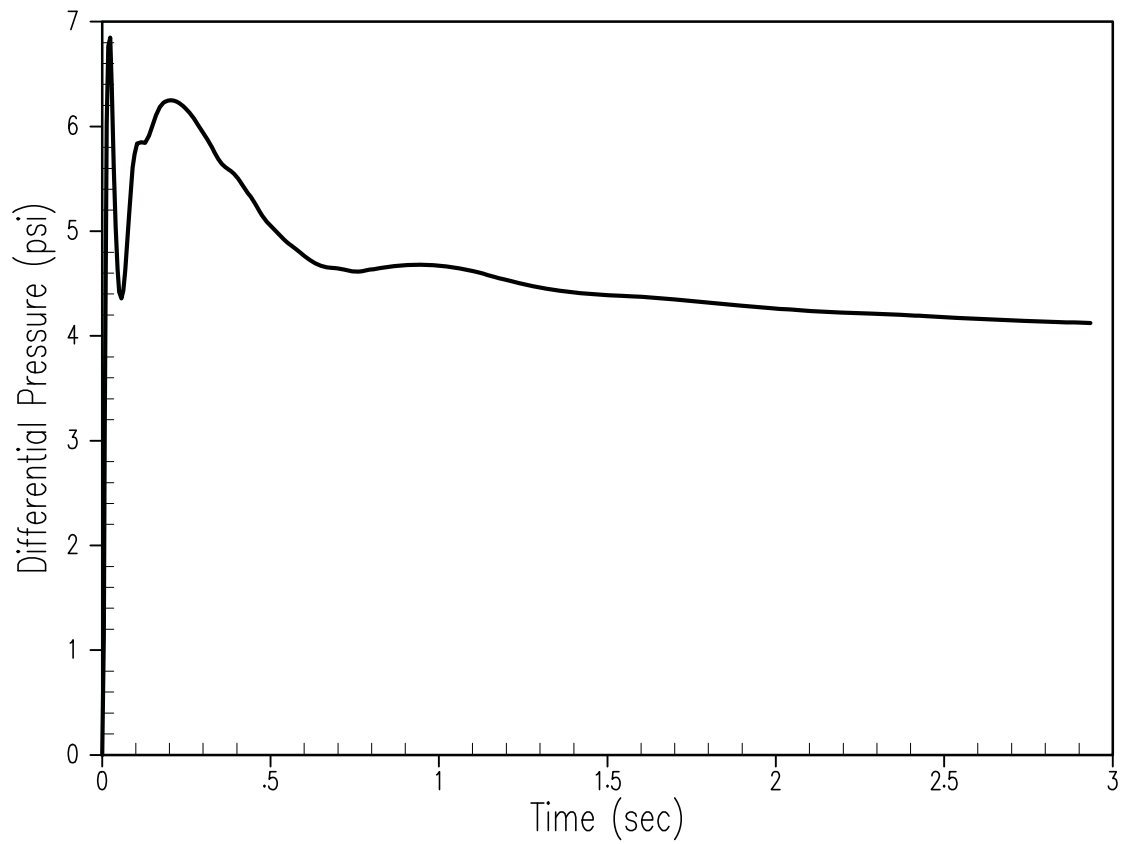
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{61-25}$  )**

UFSAR Figure: **14.3.4-59**

Sheet 1 of 1



Revision: **17.1**

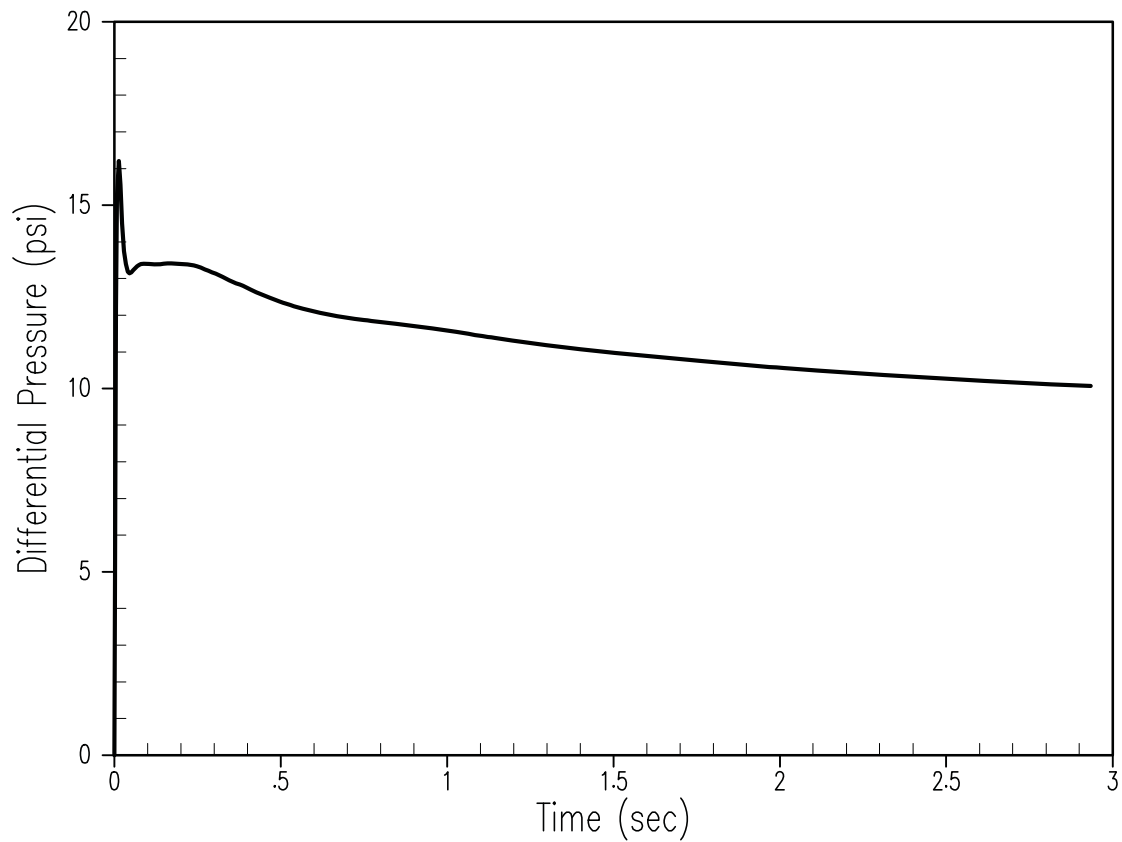
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{62-25}$  )**

UFSAR Figure: **14.3.4-60**

Sheet 1 of 1



Revision: **17.1**

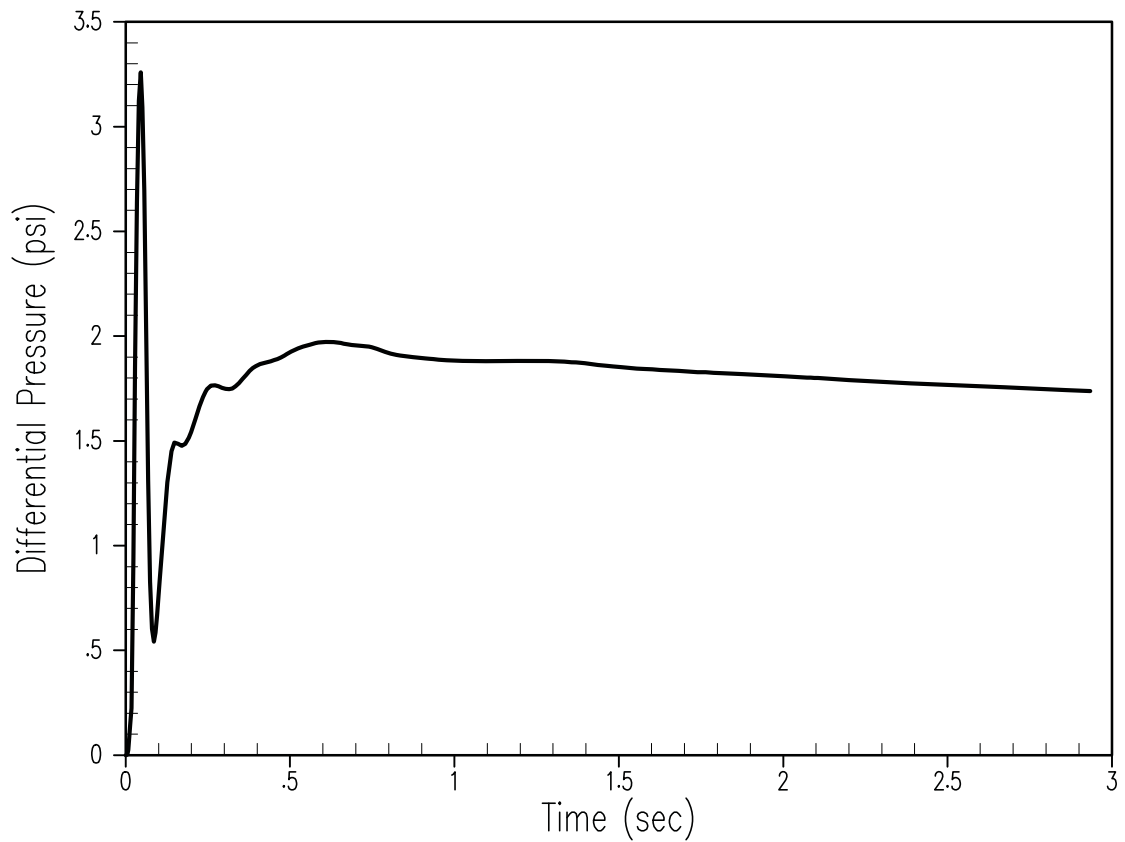
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{63-25}$  )**

UFSAR Figure: **14.3.4-61**

Sheet 1 of 1



Revision: **17.1**

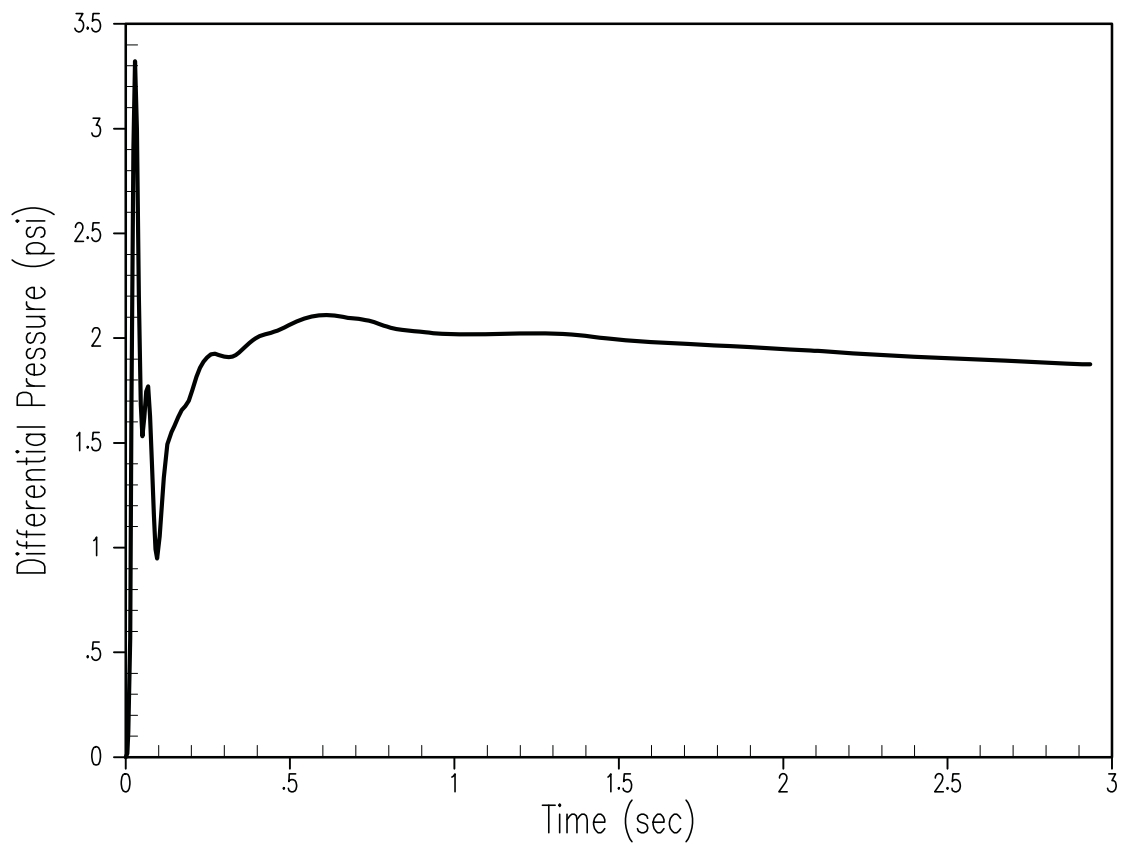
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{55-46}$  )**

UFSAR Figure: **14.3.4-62**

Sheet 1 of 1



Revision: **17.1**

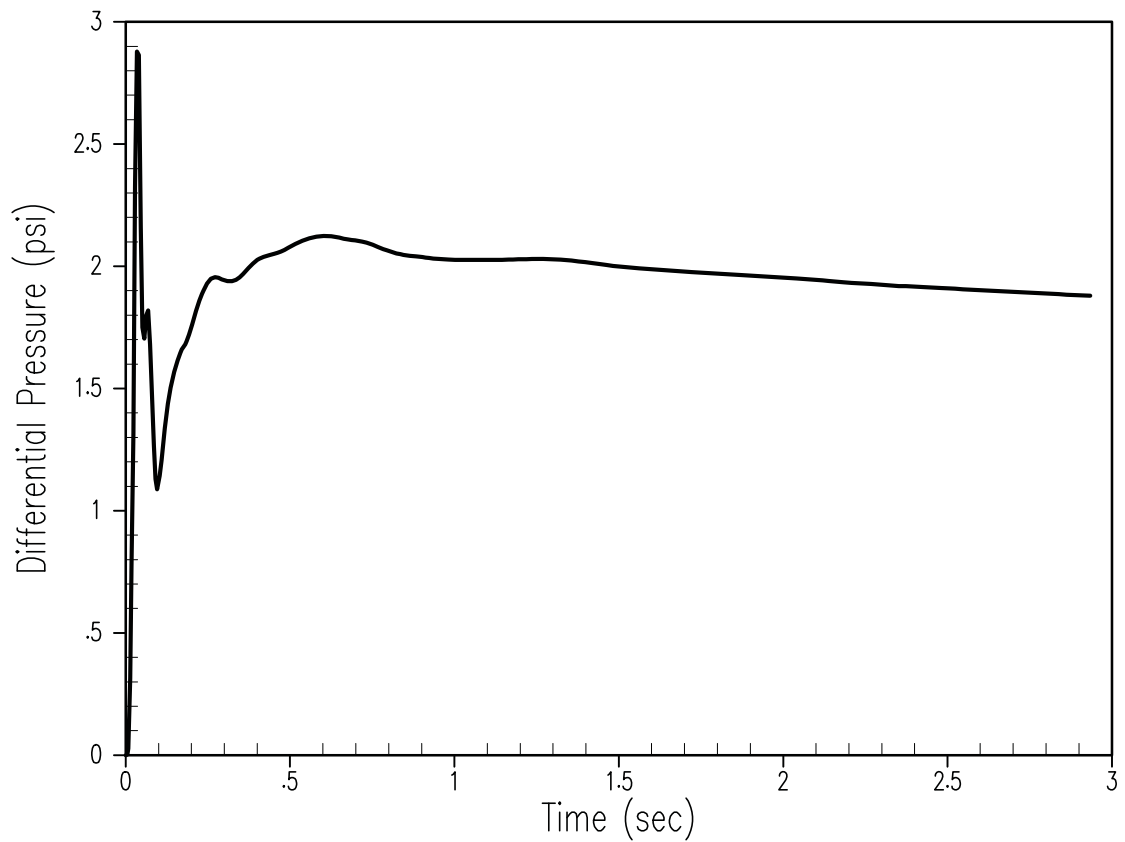
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{56-47}$  )**

UFSAR Figure: **14.3.4-63**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

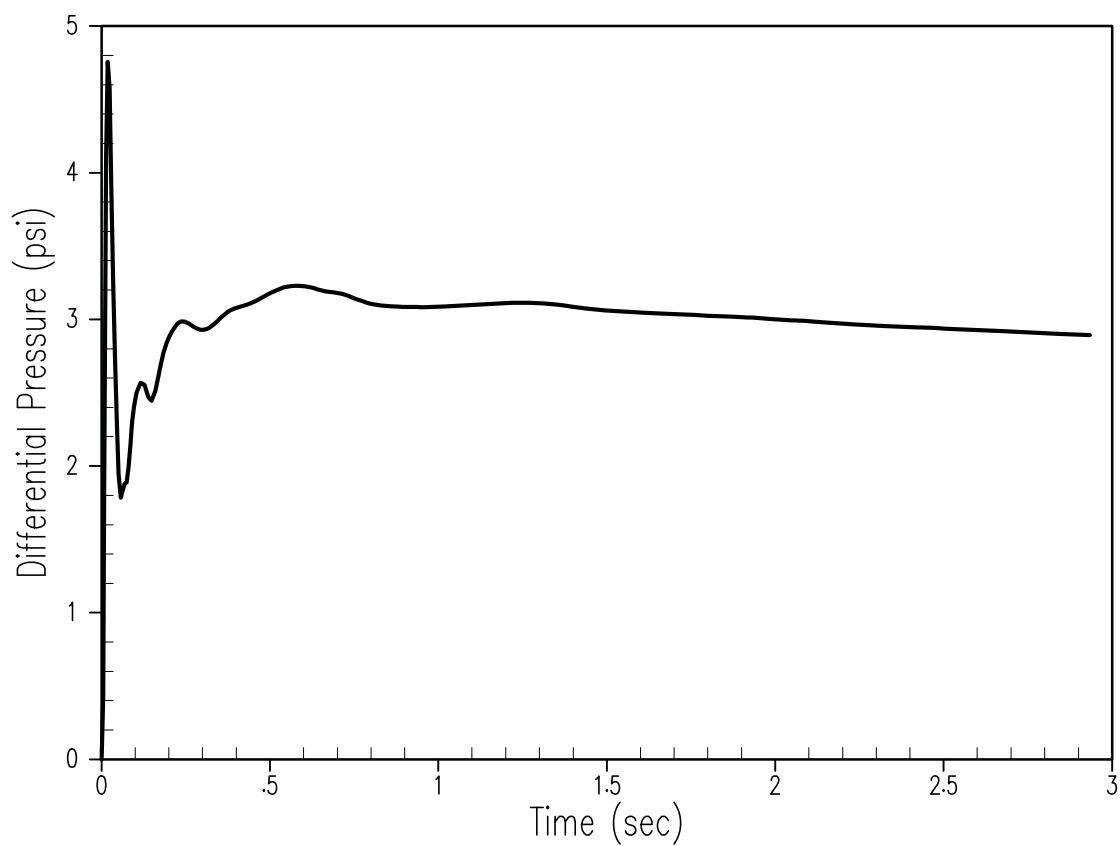
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{57-48}$  )**

UFSAR Figure: **14.3.4-64**

Sheet 1 of 1





Revision: **17.1**

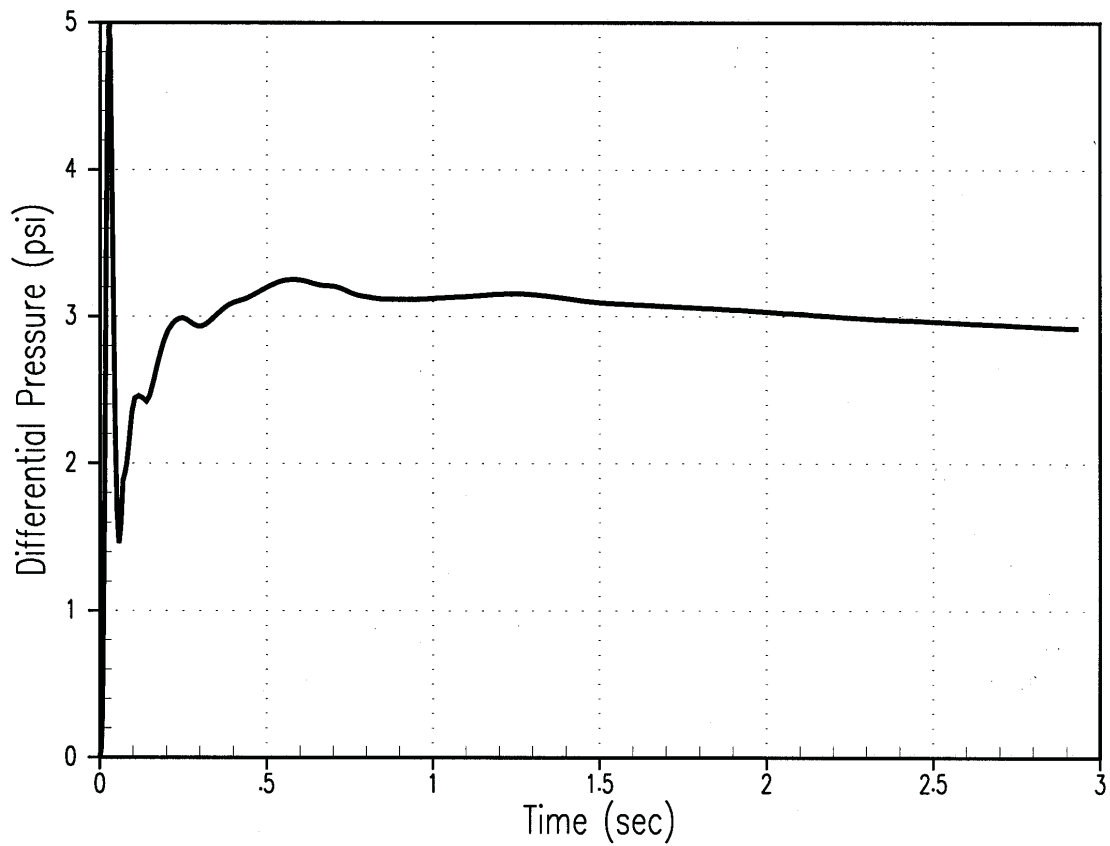
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{60-51}$  )**

UFSAR Figure: **14.3.4-65**

Sheet 1 of 1



Revision: **17.1**

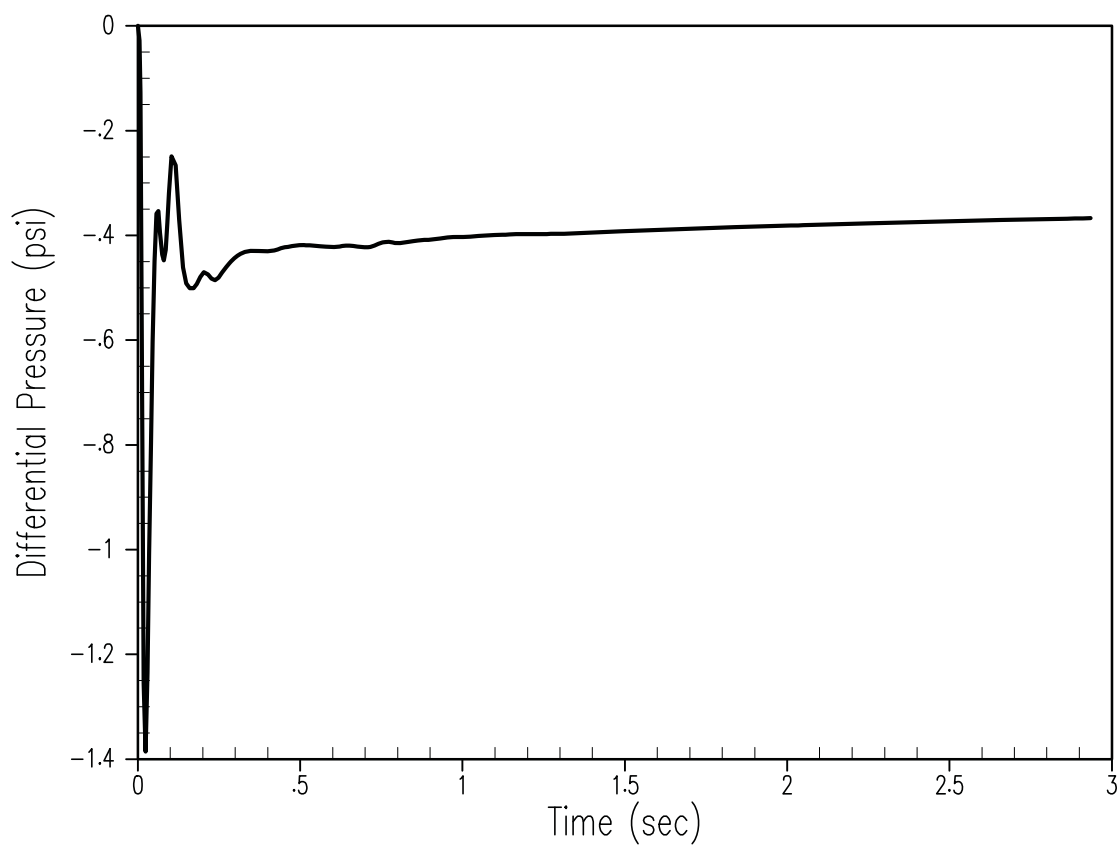
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{61-52}$  )**

UFSAR Figure: **14.3.4-66**

Sheet 1 of 1



Revision: **17.1**

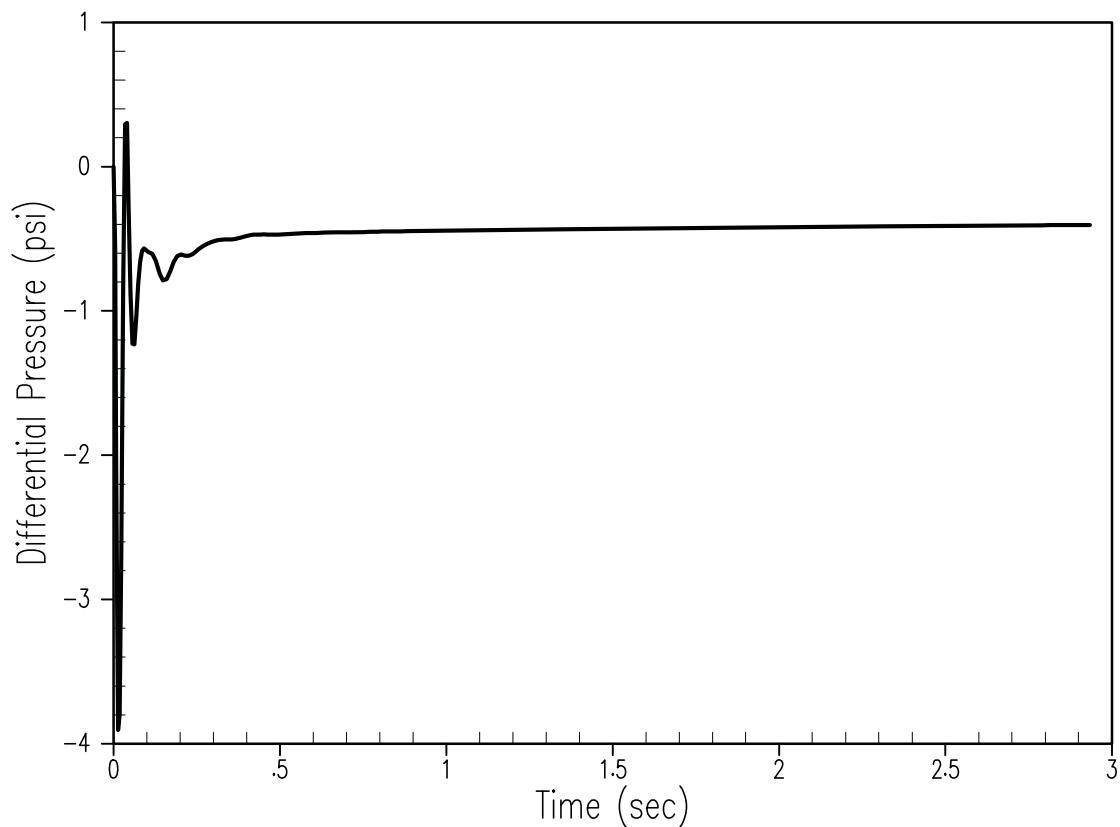
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{56-58}$  )**

UFSAR Figure: **14.3.4-67**

Sheet 1 of 1



Revision: **17.1**

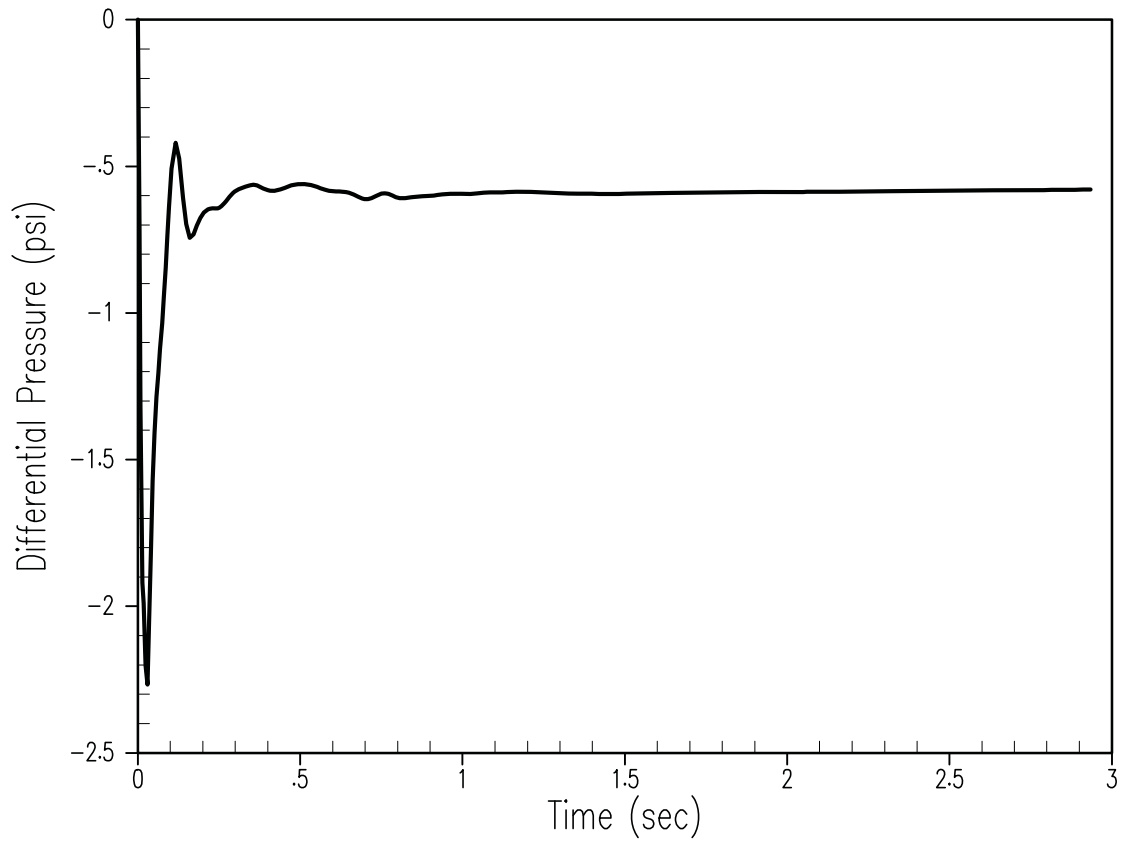
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{57-59}$  )**

UFSAR Figure: **14.3.4-68**

Sheet 1 of 1



Revision: **17.1**

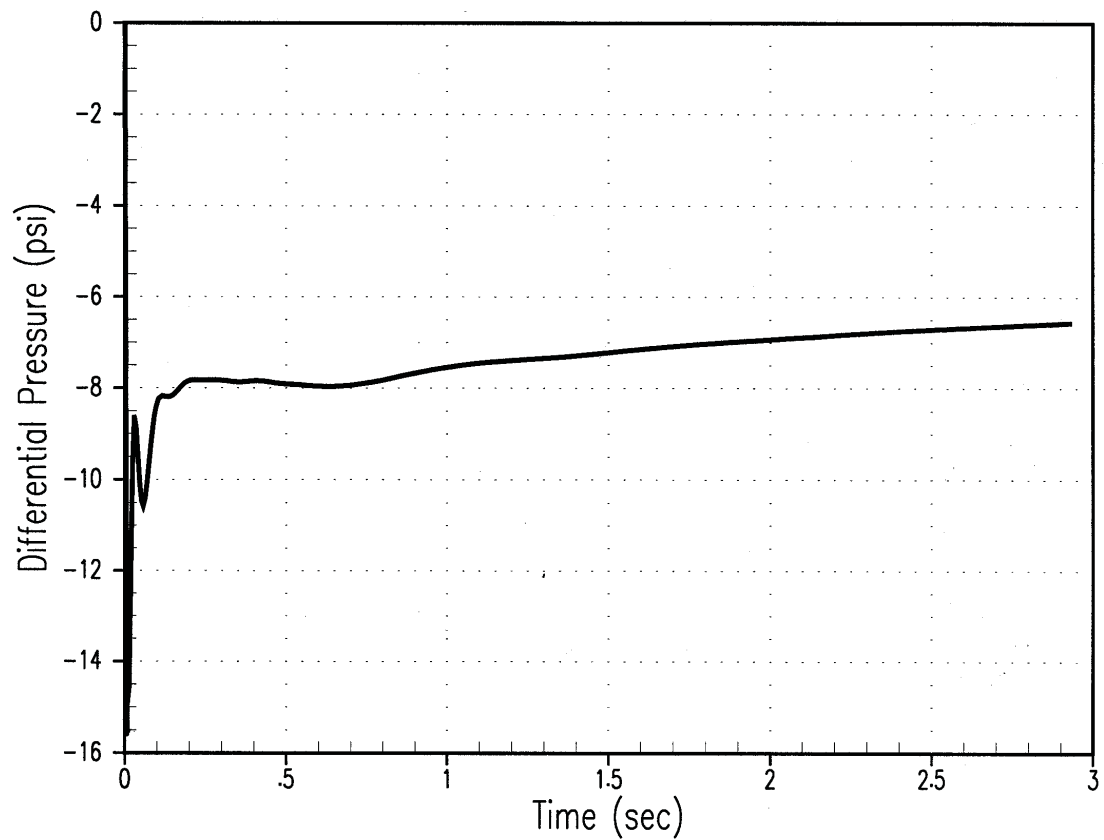
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{60-62}$  )**

UFSAR Figure: **14.3.4-69**

Sheet 1 of 1



Revision: **17.1**

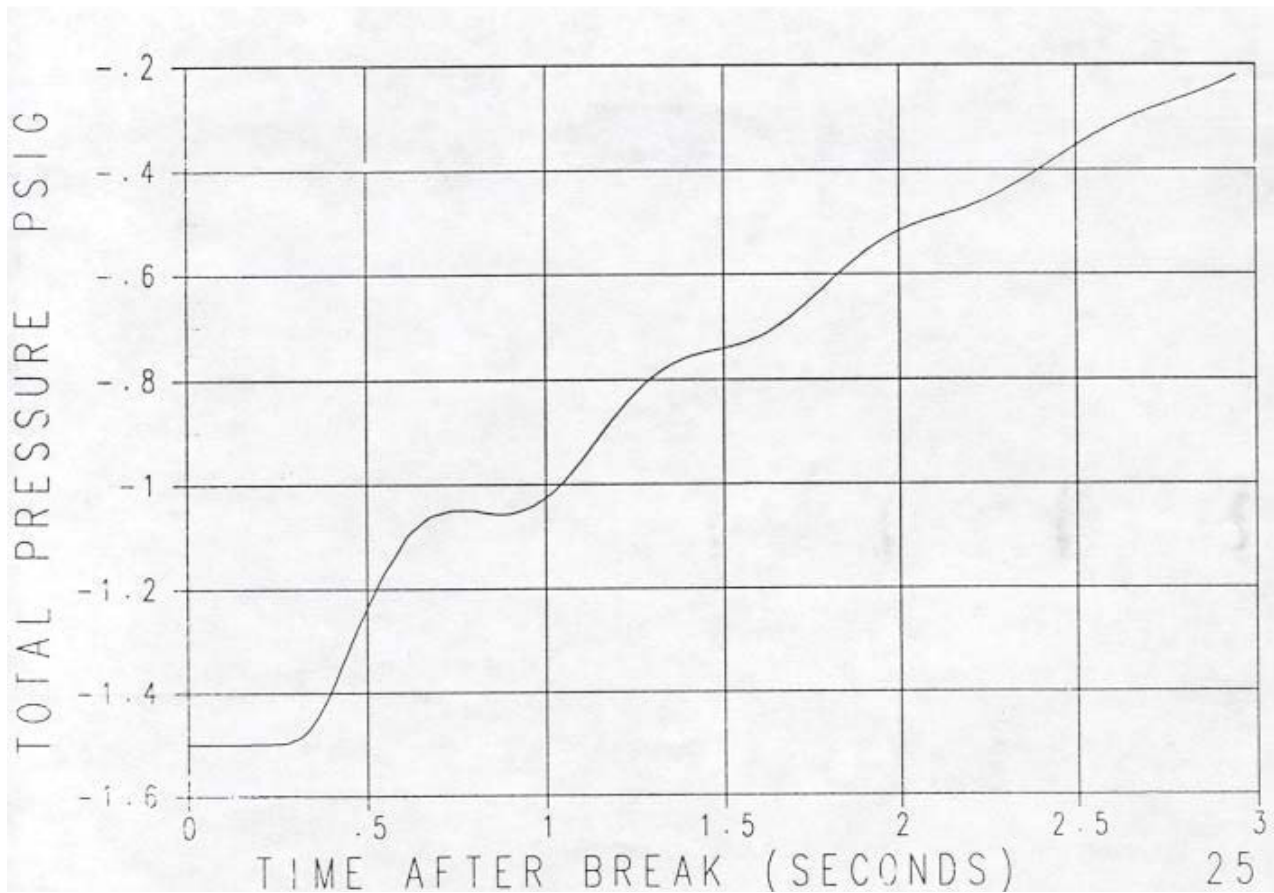
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure Feedwater Line Break  
(  $\Delta P_{61-63}$  )**

UFSAR Figure: **14.3.4-70**

Sheet 1 of 1



(When using this curve, the pressure time history should be increased by 10%.)

Revision: **17.1**

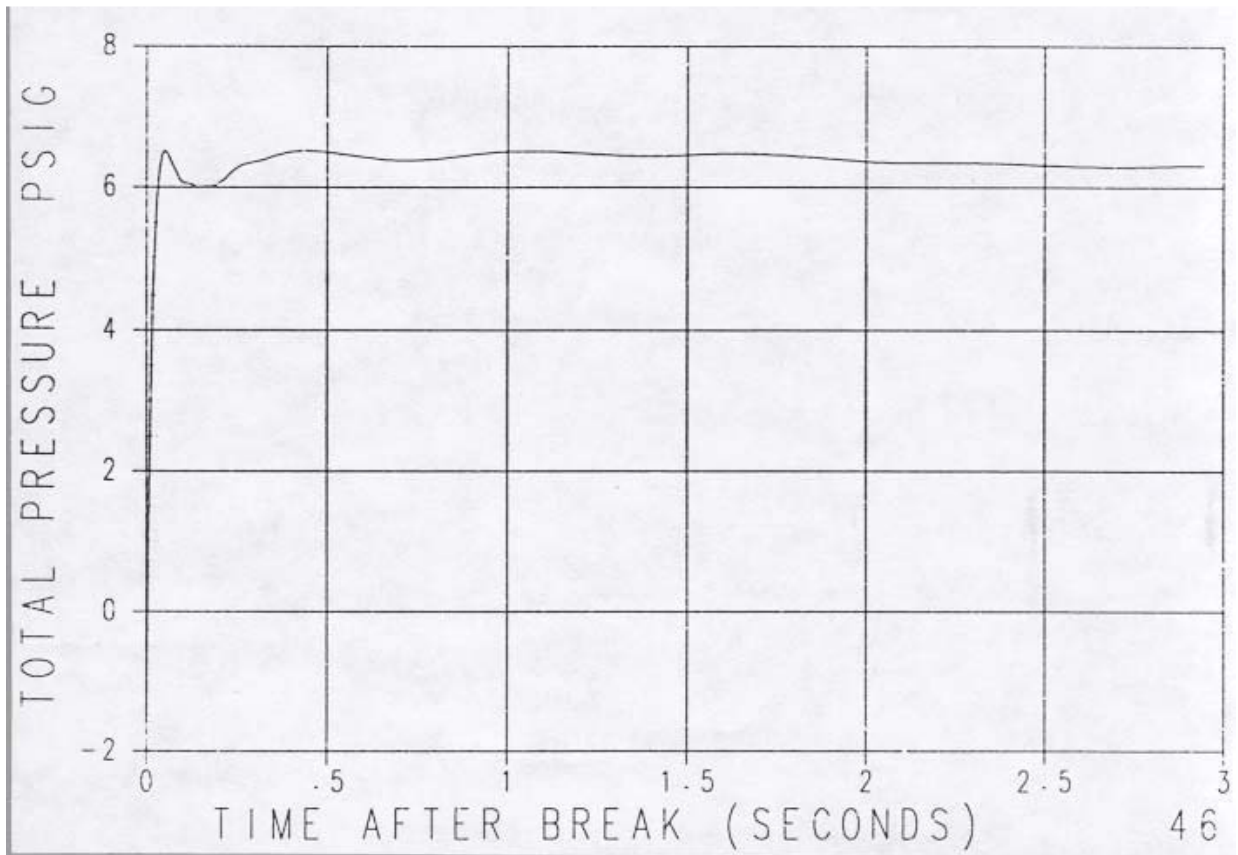
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Upper Compartment Element 25  
Spray Line Break**

UFSAR Figure: **14.3.4-71**

Sheet 1 of 1



(When using this curve, the pressure time history should be increased by 10%.)

Revision: **17.1**

Change Description: **UCR-850**

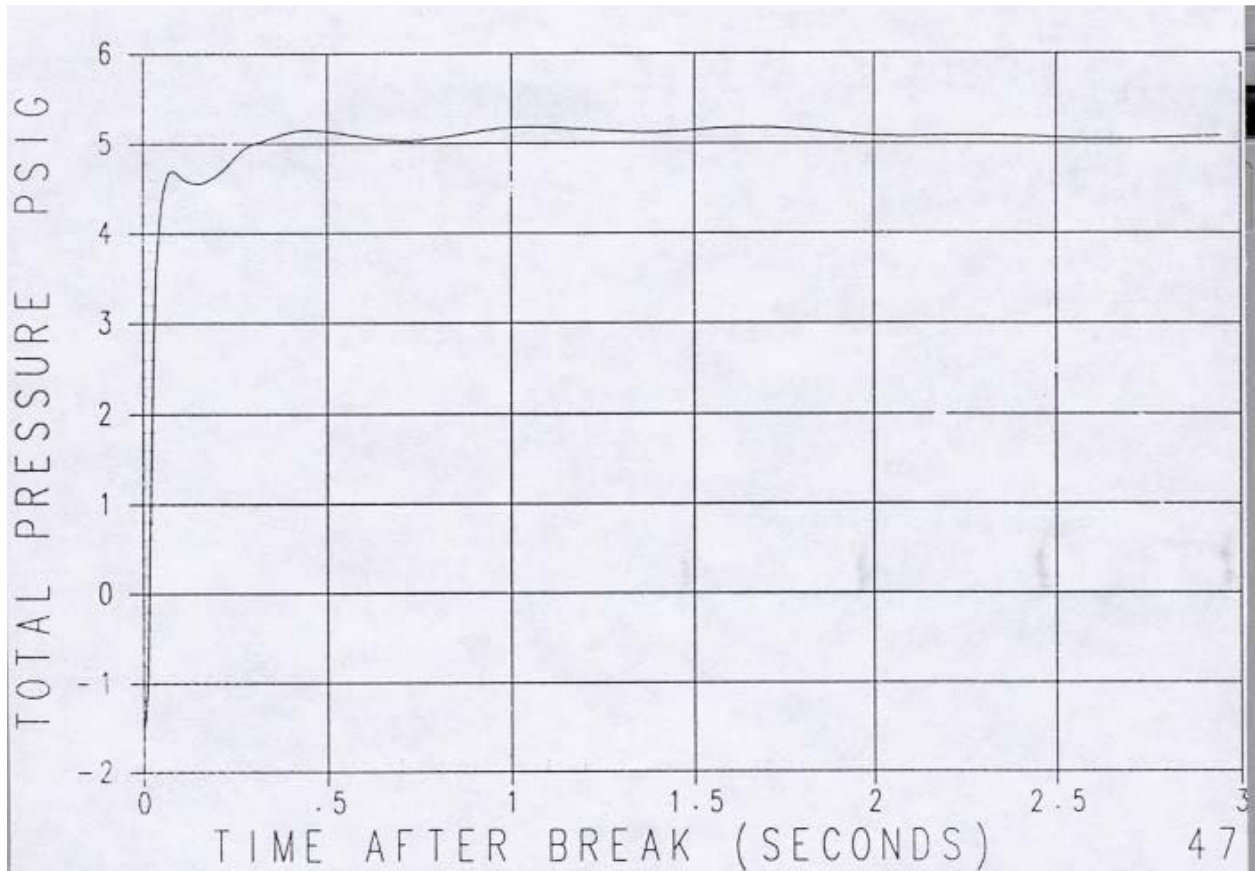
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Pressurizer Enclosure Element 46  
Spray Line Break**

UFSAR Figure: **14.3.4-72**

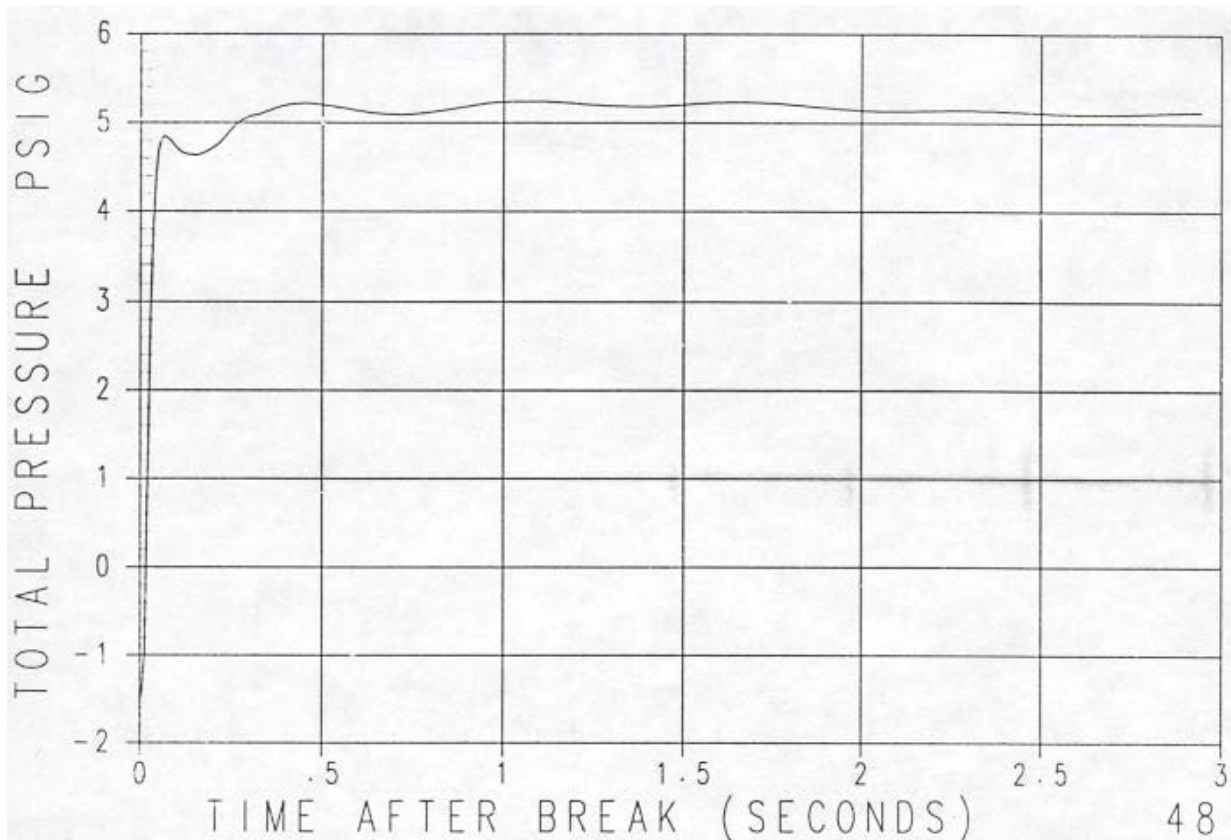
Sheet 1 of 1





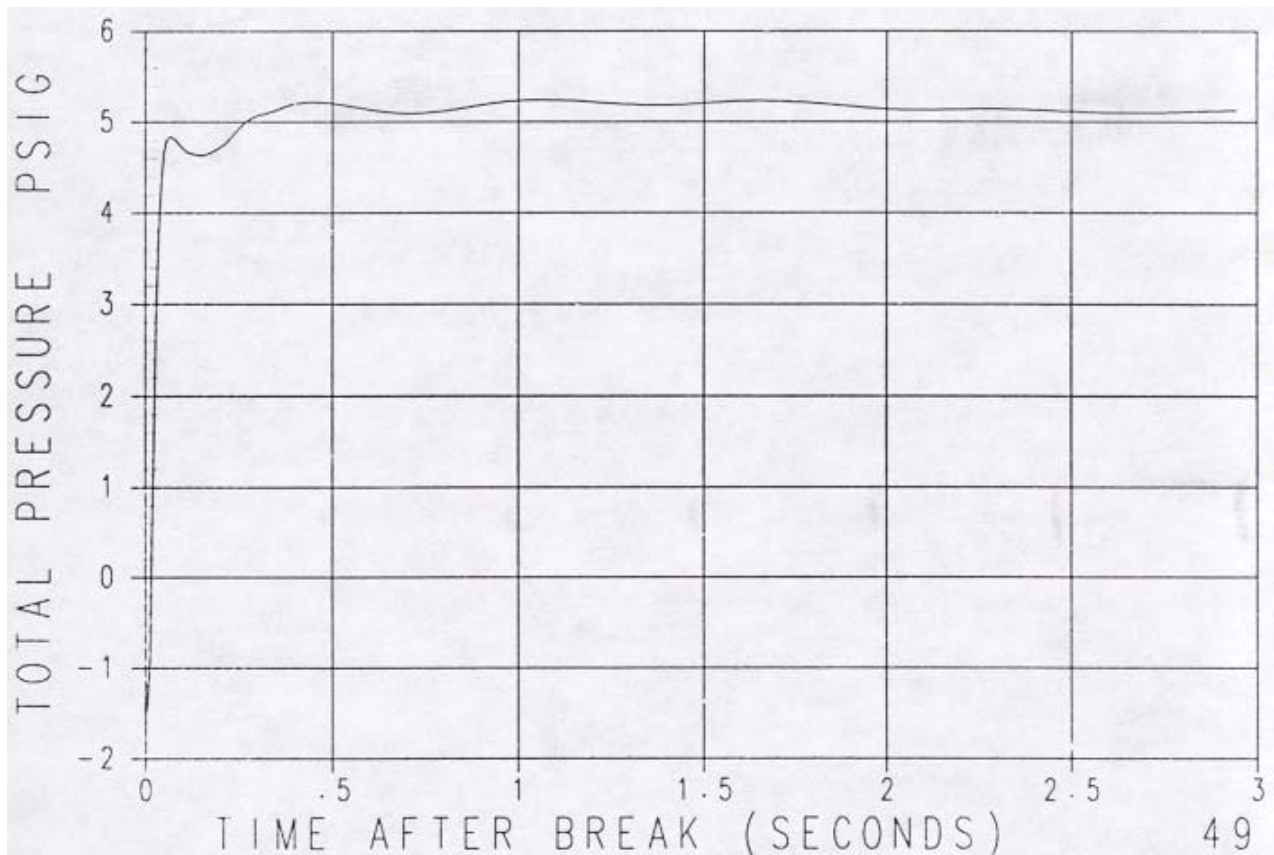
(When using this curve, the pressure time history should be increased by 10%.)

Revision: <b>17.1</b>	Change Description: <b>UCR-850</b>		
<b>AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN</b>		Title: <b>Cook Unit 1 &amp; 2 Pressure Time History Pressurizer Enclosure Element 47 Spray Line Break</b>	
		UFSAR Figure: <b>14.3.4-73</b>	Sheet 1 of 1



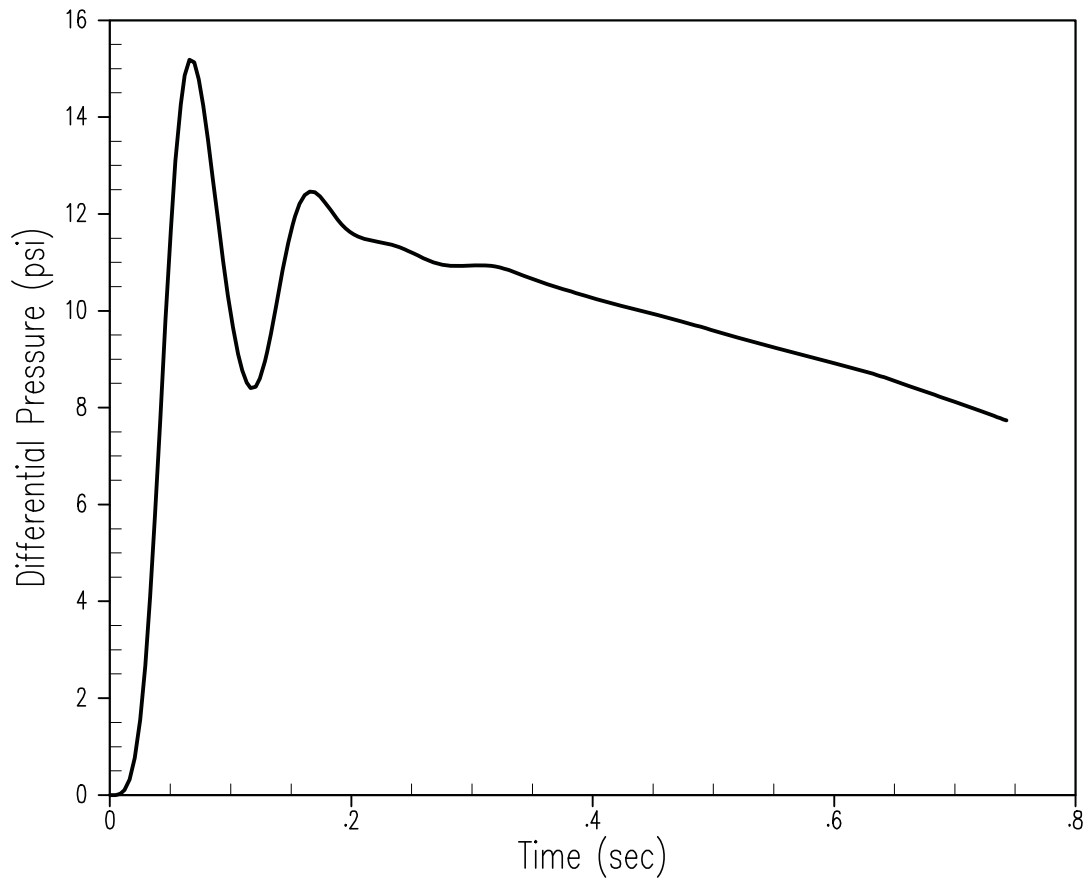
(When using this curve, the pressure time history should be increased by 10%.)

Revision: <b>17.1</b>	Change Description: <b>UCR-850</b>		
<b>AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN</b>		Title: <b>Cook Unit 1 &amp; 2 Pressurizer Time History Pressurizer Enclosure Element 48 Spray Line Break</b>	
		UFSAR Figure: <b>14.3.4-74</b>	Sheet 1 of 1



(When using this curve, the pressure time history should be increased by 10%.)

Revision: <b>17.1</b>	Change Description: <b>UCR-850</b>		
<b>AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN</b>		Title: <b>Cook Unit 1 &amp; 2 Pressure Time History Pressurizer Enclosure Element 49 Spray Line Break</b>	
		UFSAR Figure: <b>14.3.4-75</b>	Sheet 1 of 1



Revision: **17.1**

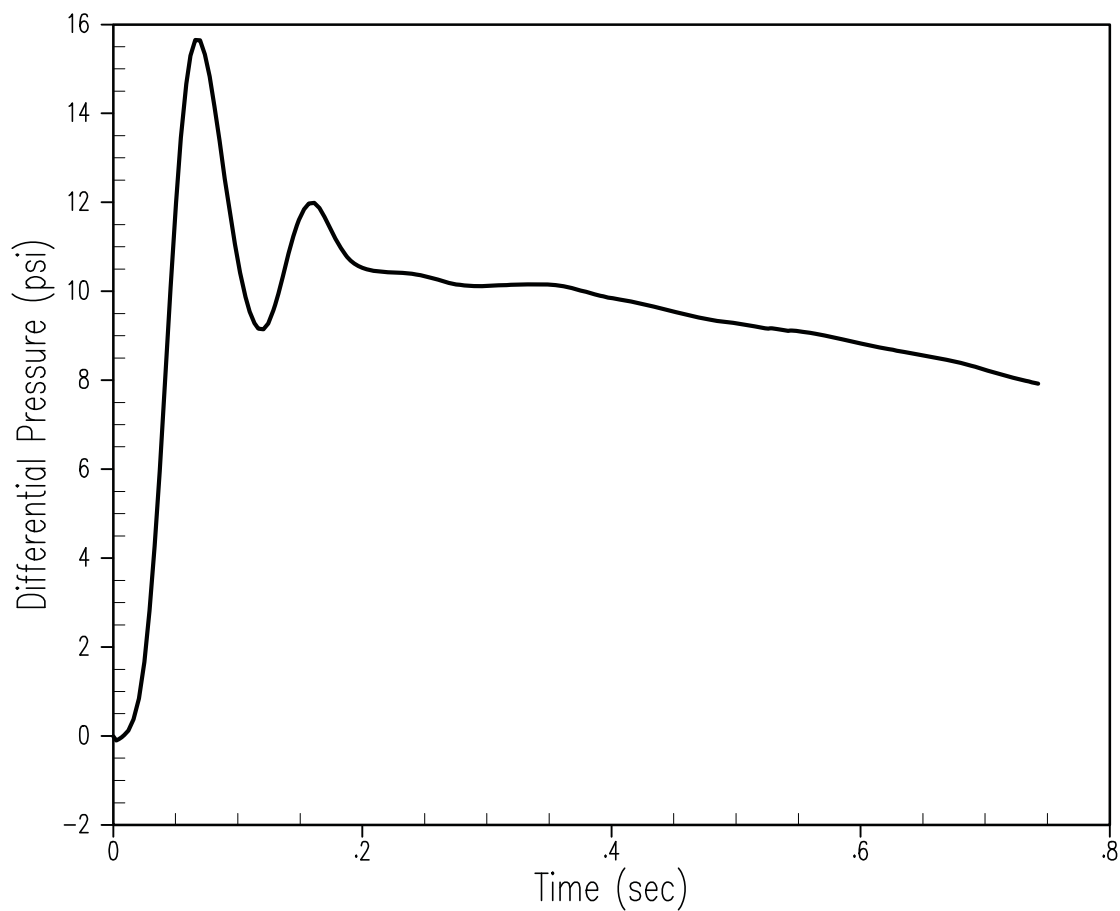
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 27 - 29**

UFSAR Figure: **14.3.4-76**

Sheet 1 of 1



Revision: **17.1**

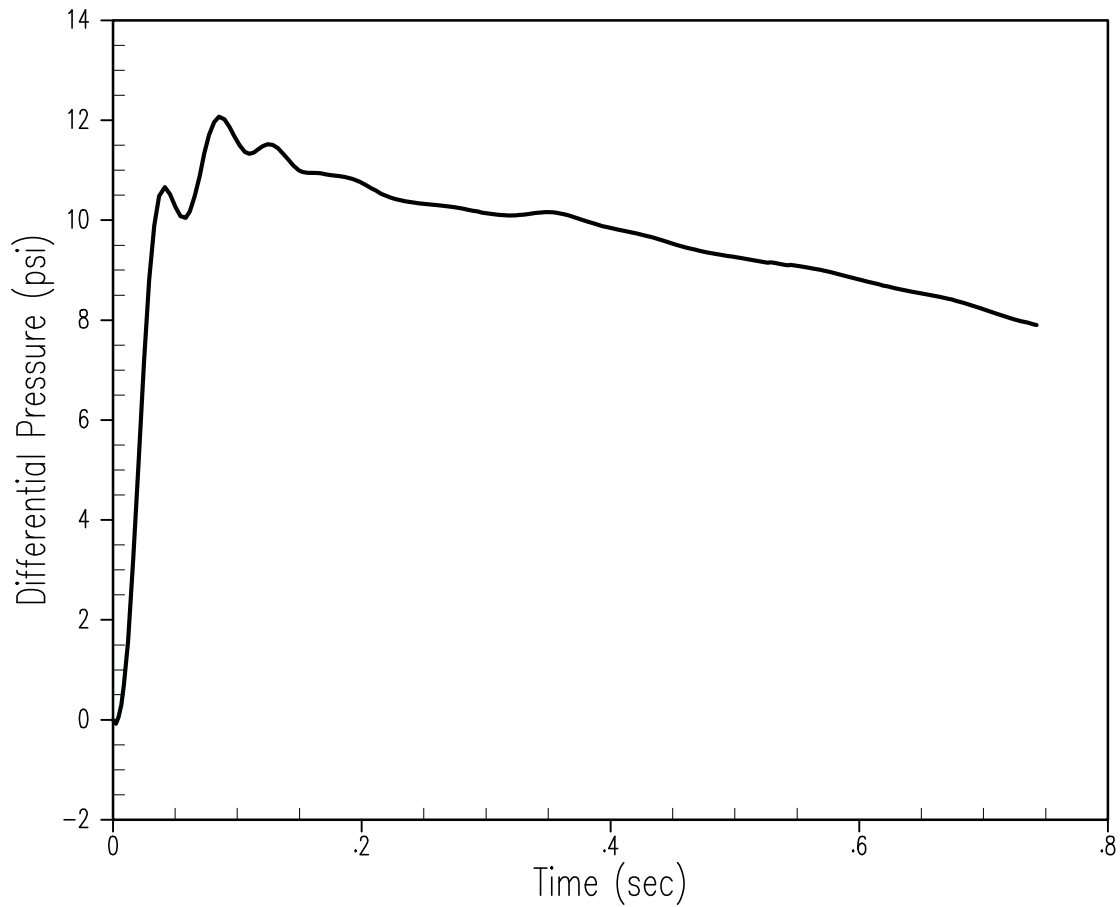
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements : 27 - 42**

UFSAR Figure: **14.3.4-77**

Sheet 1 of 1



Revision: **17.1**

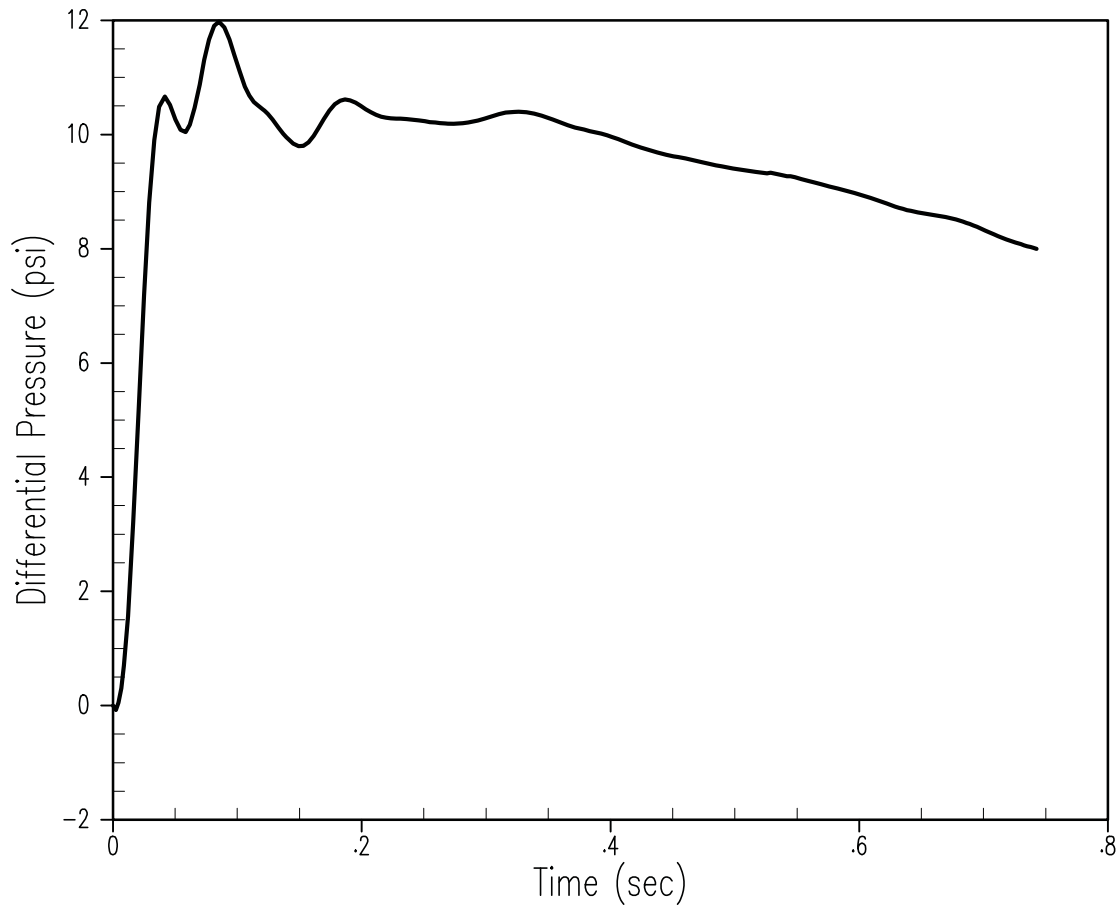
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 54 - 42**

UFSAR Figure: **14.3.4-78**

Sheet 1 of 1



Revision: **17.1**

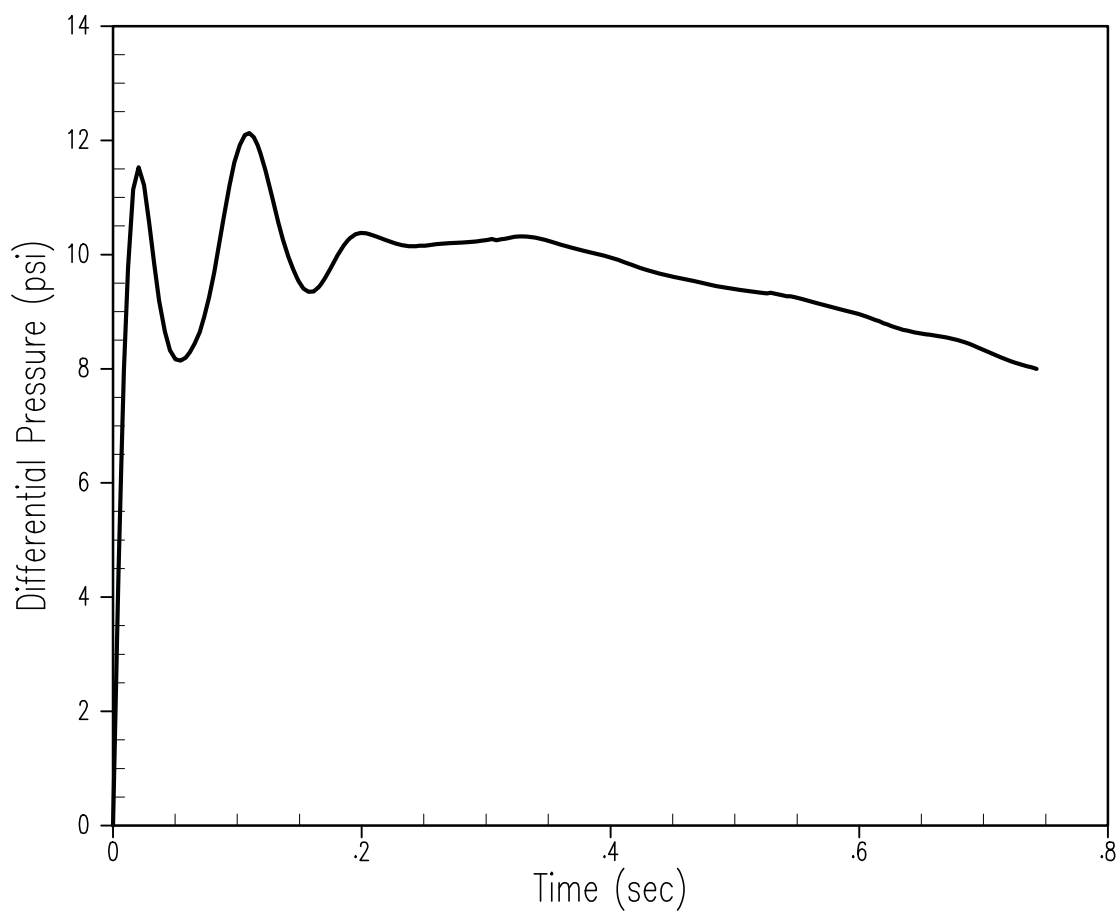
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 54 - 41**

UFSAR Figure: **14.3.4-79**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

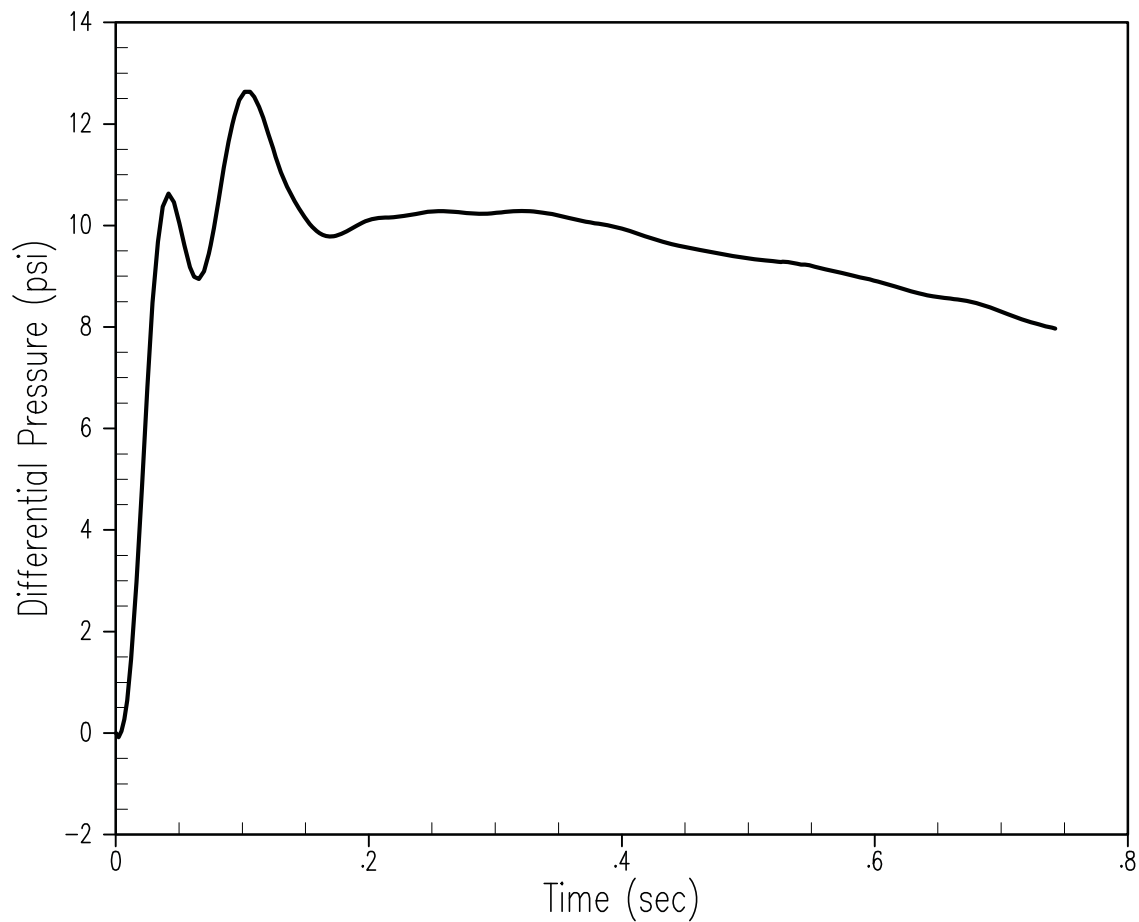
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 55 -41**

UFSAR Figure: **14.3.4-80**

Sheet 1 of 1





Revision: **17.1**

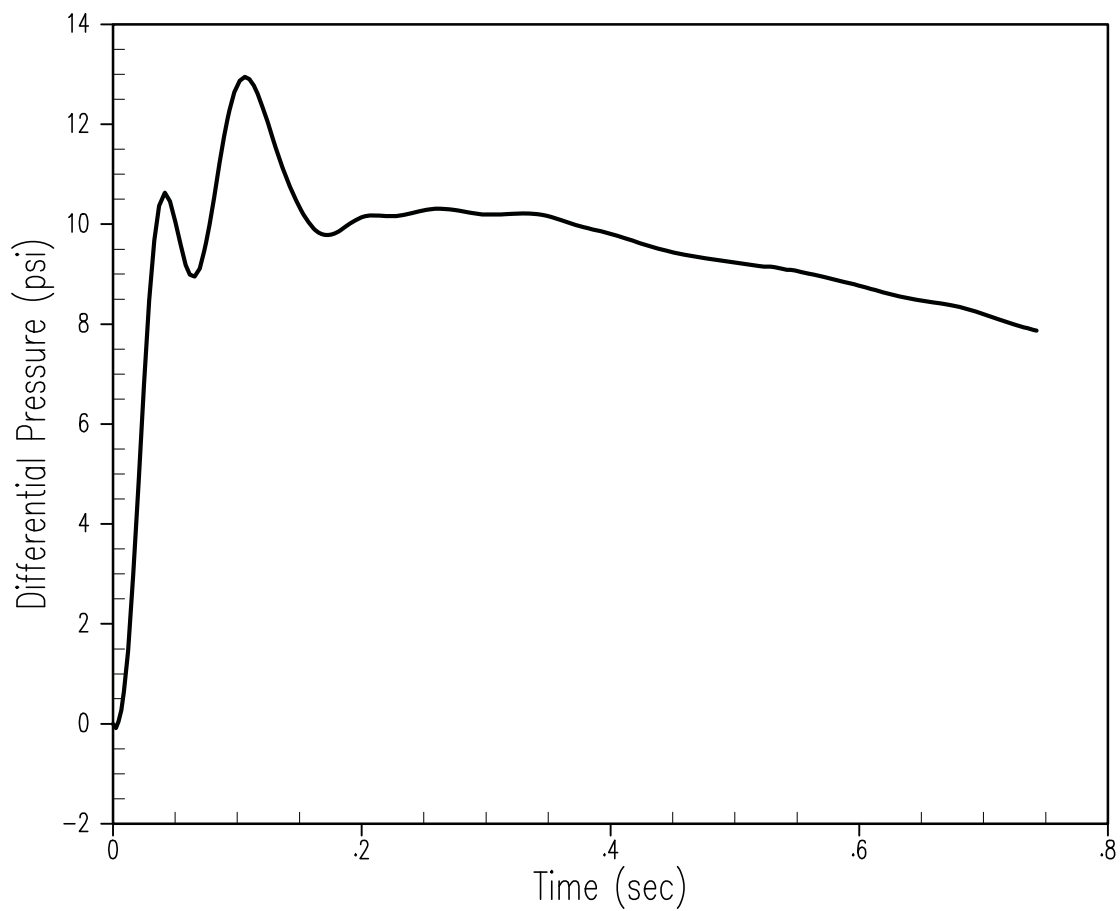
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 56 - 41**

UFSAR Figure: **14.3.4-81**

Sheet 1 of 1



Revision: **17.1**

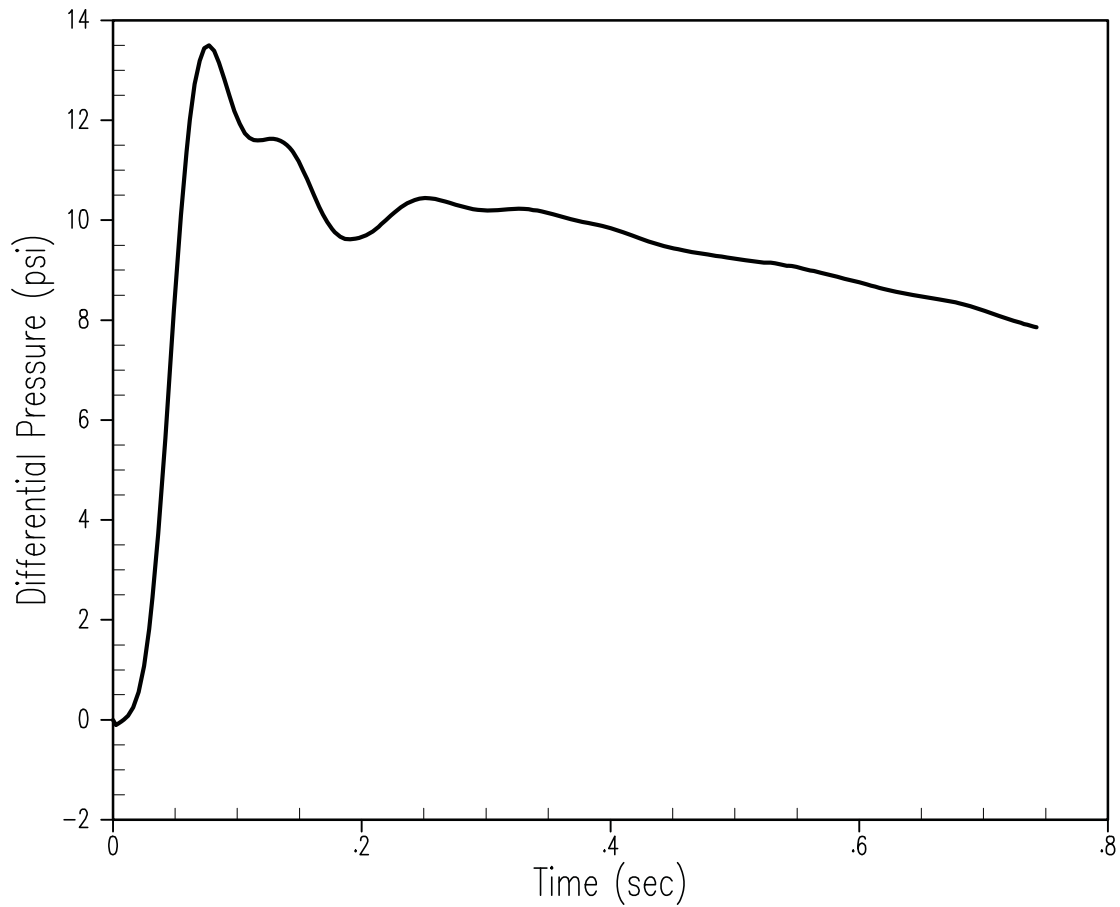
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 56 - 40**

UFSAR Figure: **14.3.4-82**

Sheet 1 of 1



Revision: **17.1**

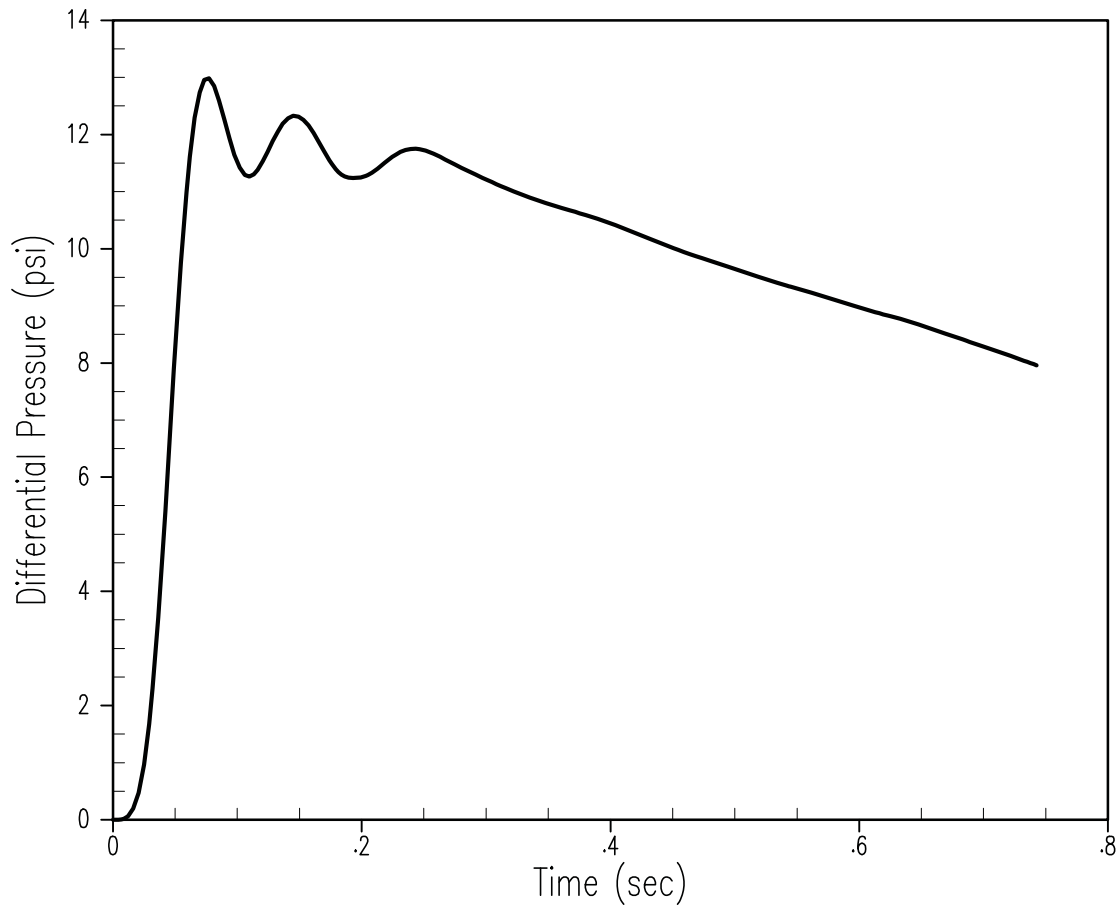
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 57 - 40**

UFSAR Figure: **14.3.4-83**

Sheet 1 of 1



Revision: **17.1**

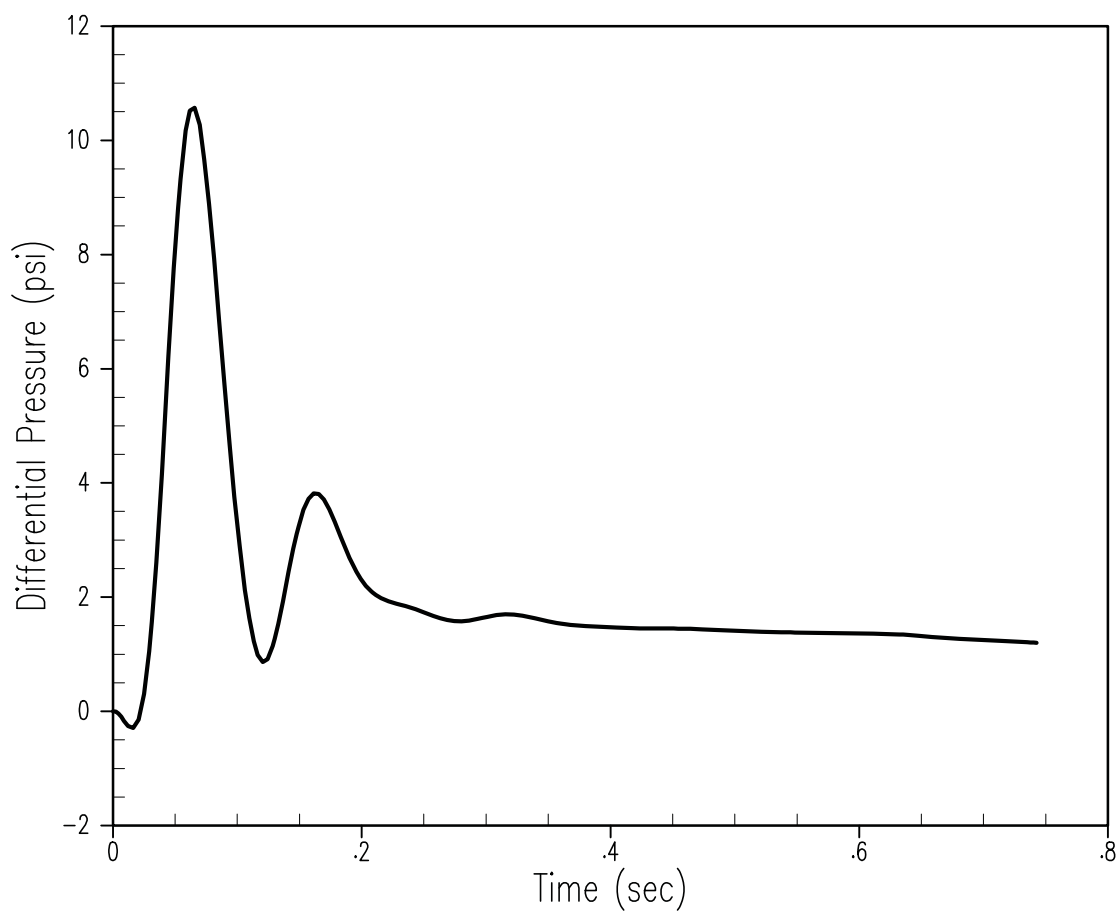
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 57 - 25**

UFSAR Figure: **14.3.4-84**

Sheet 1 of 1



Revision: **17.1**

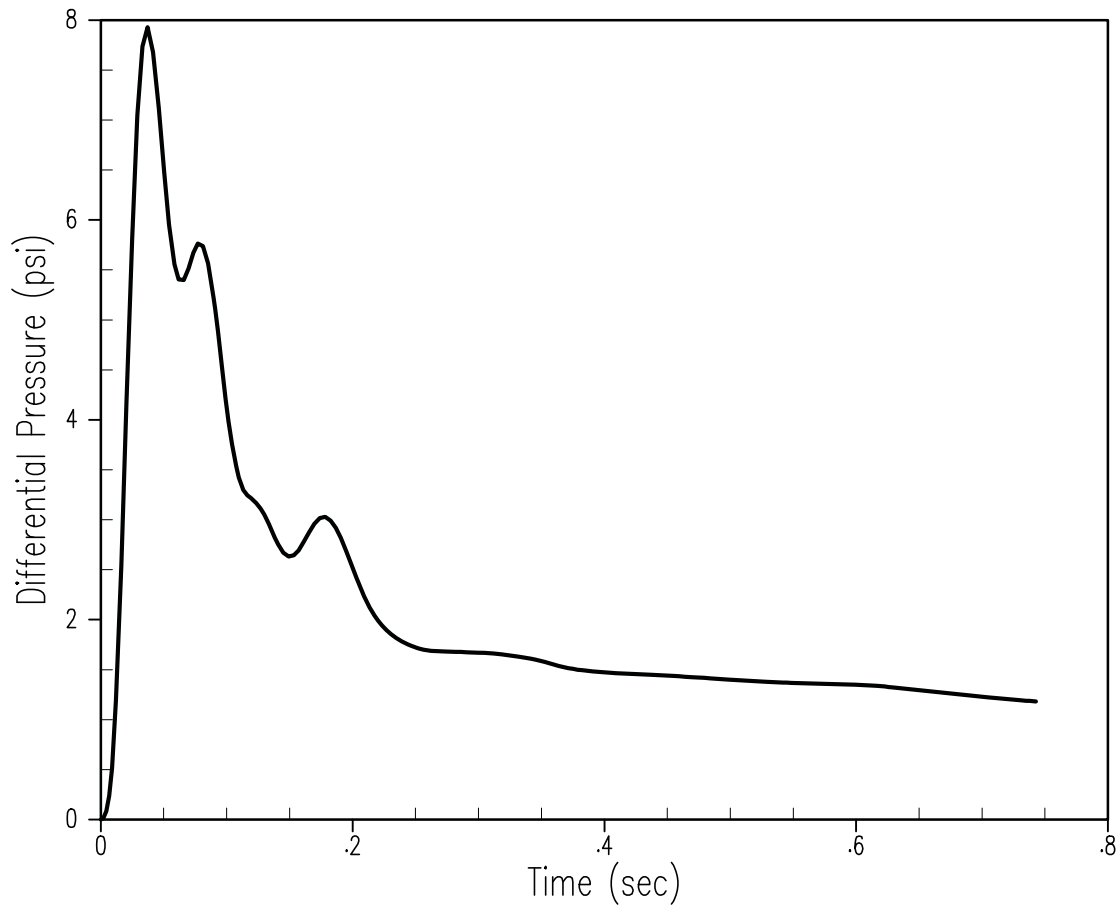
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 27 - 28**

UFSAR Figure: **14.3.4-85**

Sheet 1 of 1



Revision: **17.1**

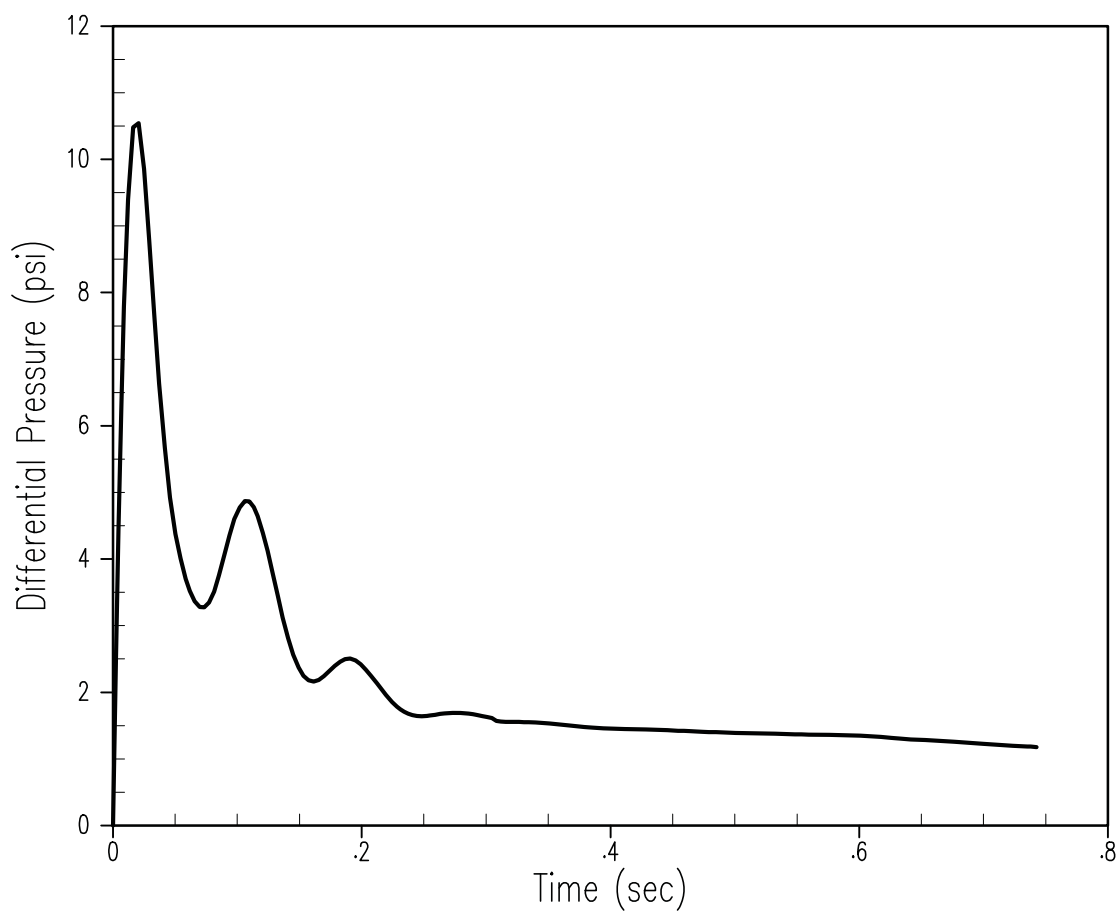
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 54 - 28**

UFSAR Figure: **14.3.4-86**

Sheet 1 of 1



Revision: **17.1**

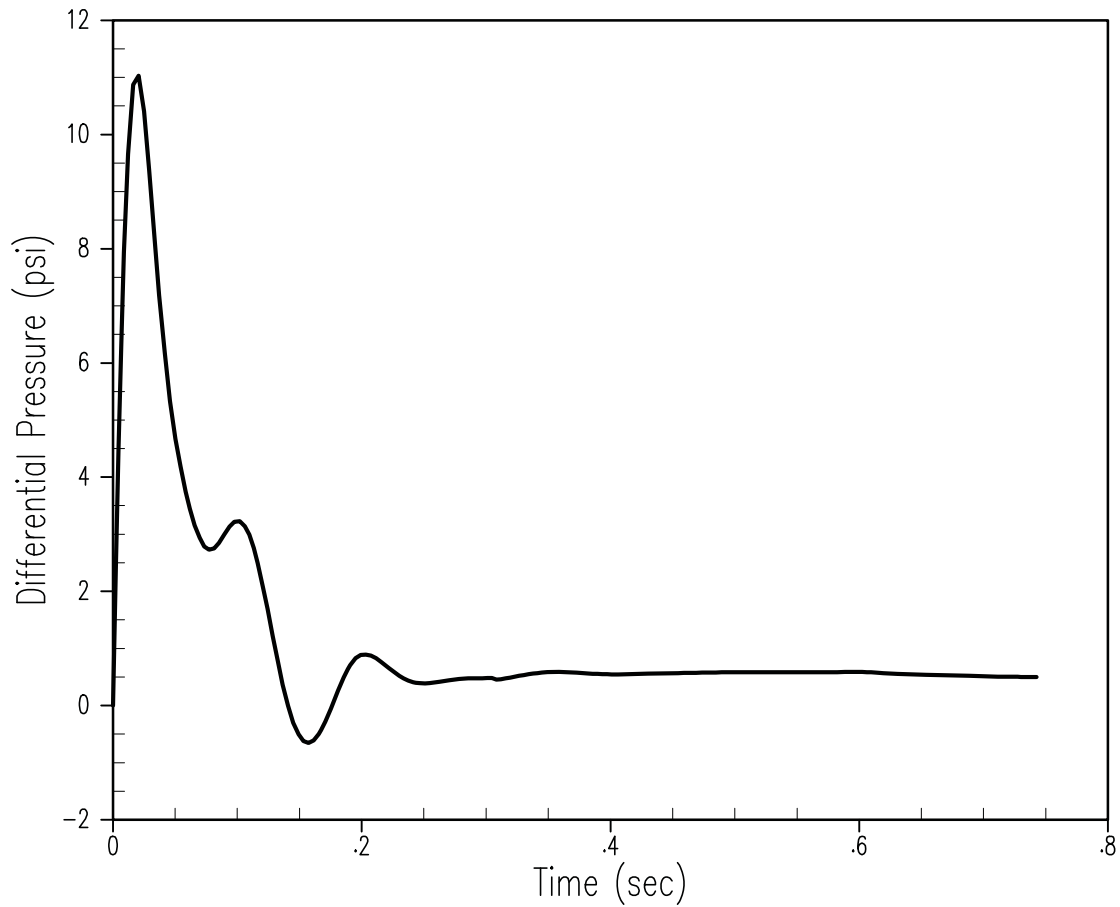
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 55 - 28**

UFSAR Figure: **14.3.4-87**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

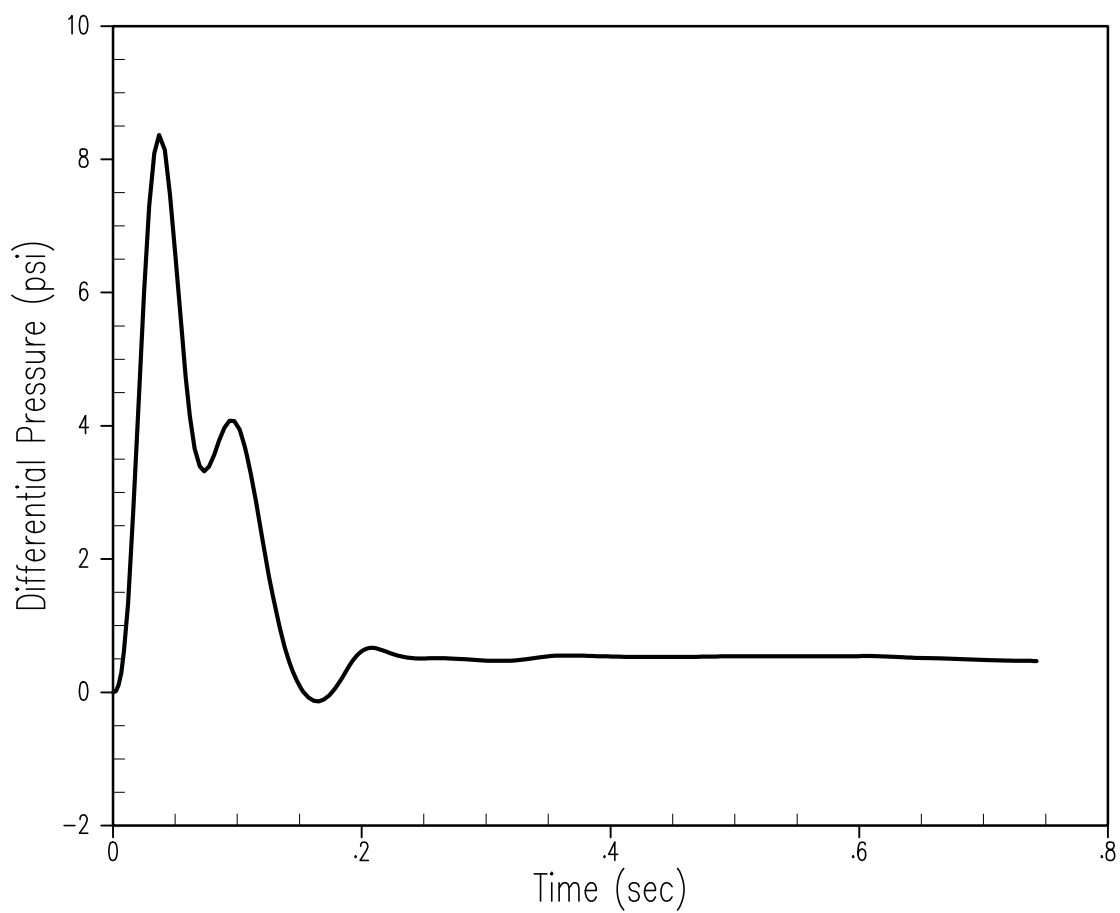
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 55 - 26**

UFSAR Figure: **14.3.4-88**

Sheet 1 of 1





Revision: **17.1**

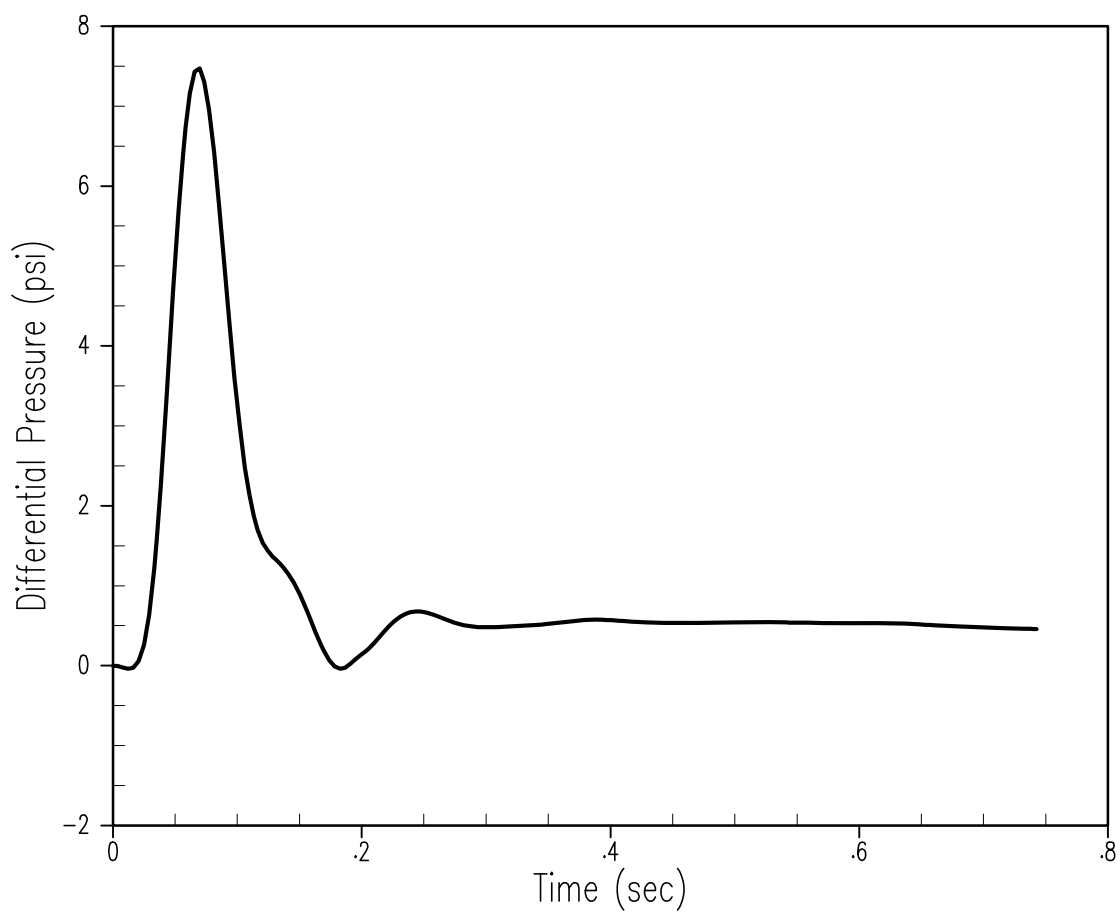
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 56 - 26**

UFSAR Figure: **14.3.4-89**

Sheet 1 of 1



Revision: **17.1**

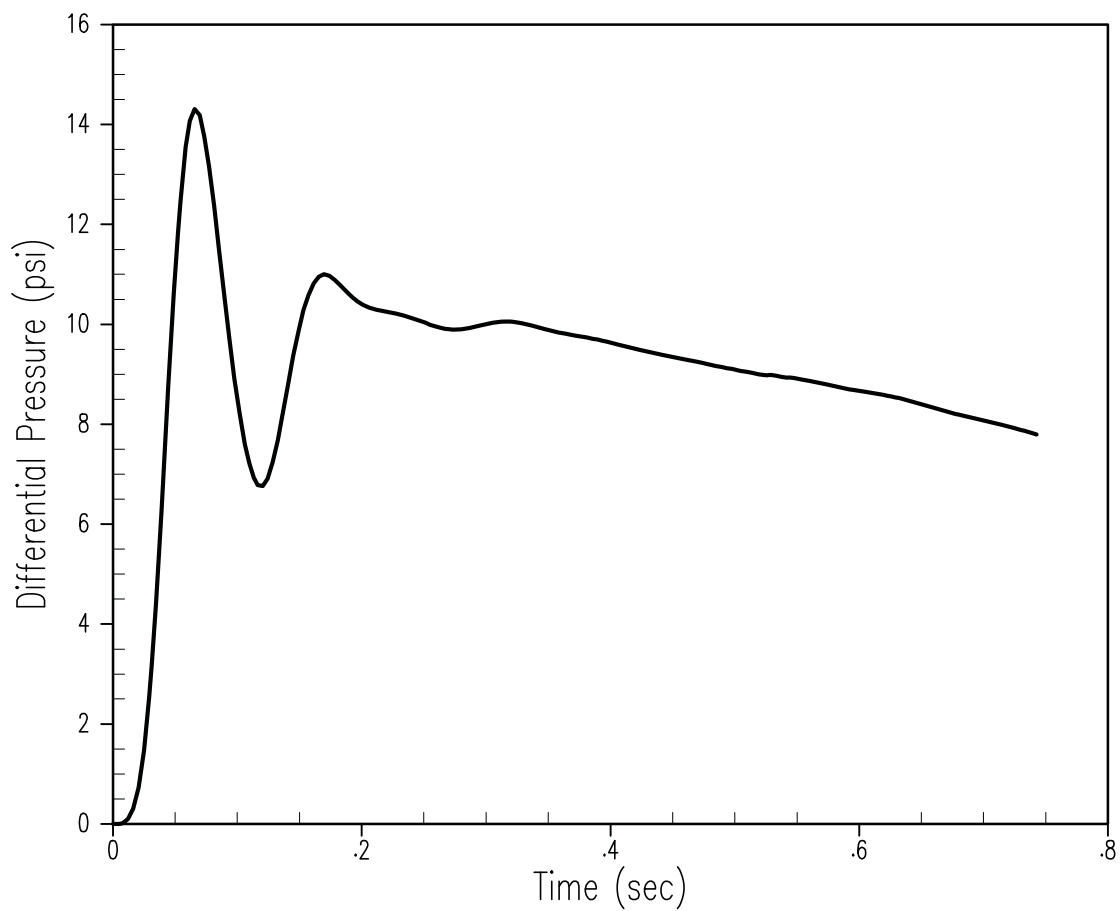
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 57 - 26**

UFSAR Figure: **14.3.4-90**

Sheet 1 of 1



Revision: **17.1**

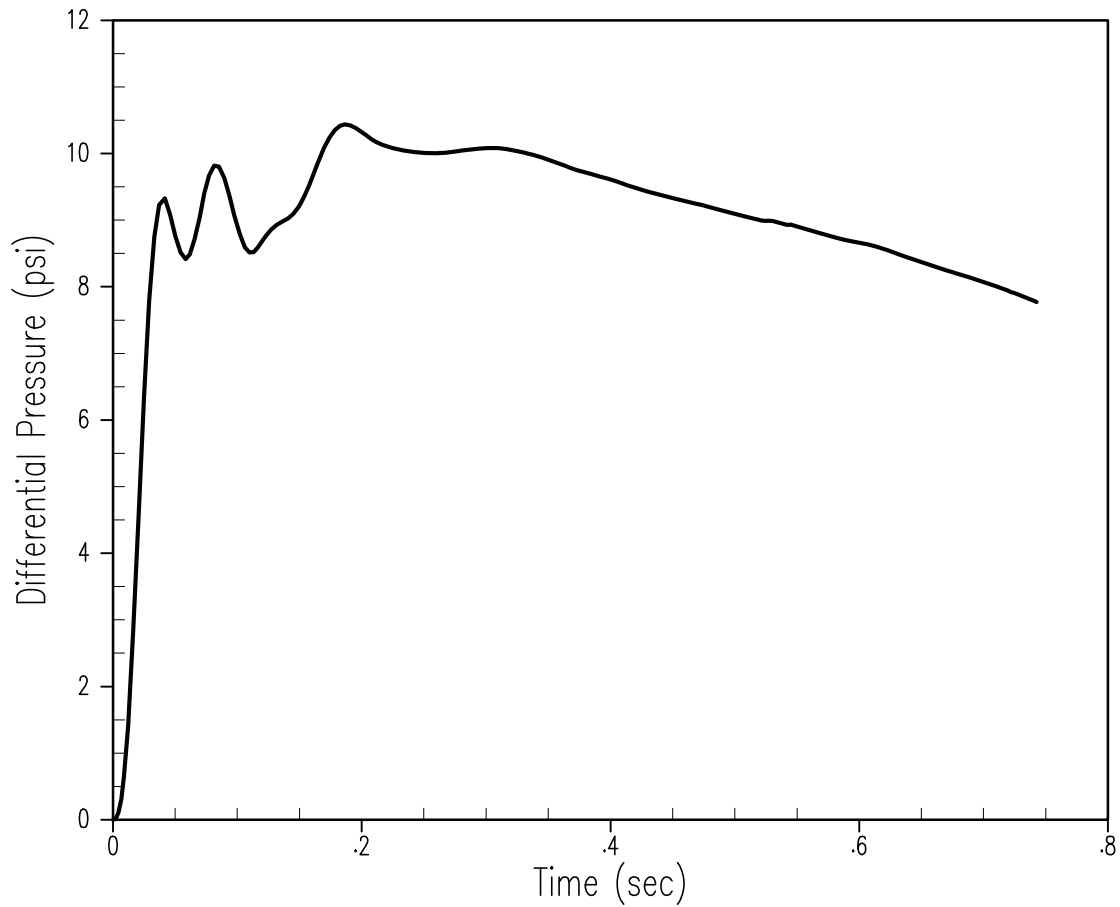
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 27 – 3**

UFSAR Figure: **14.3.4-91**

Sheet 1 of 1



Revision: **17.1**

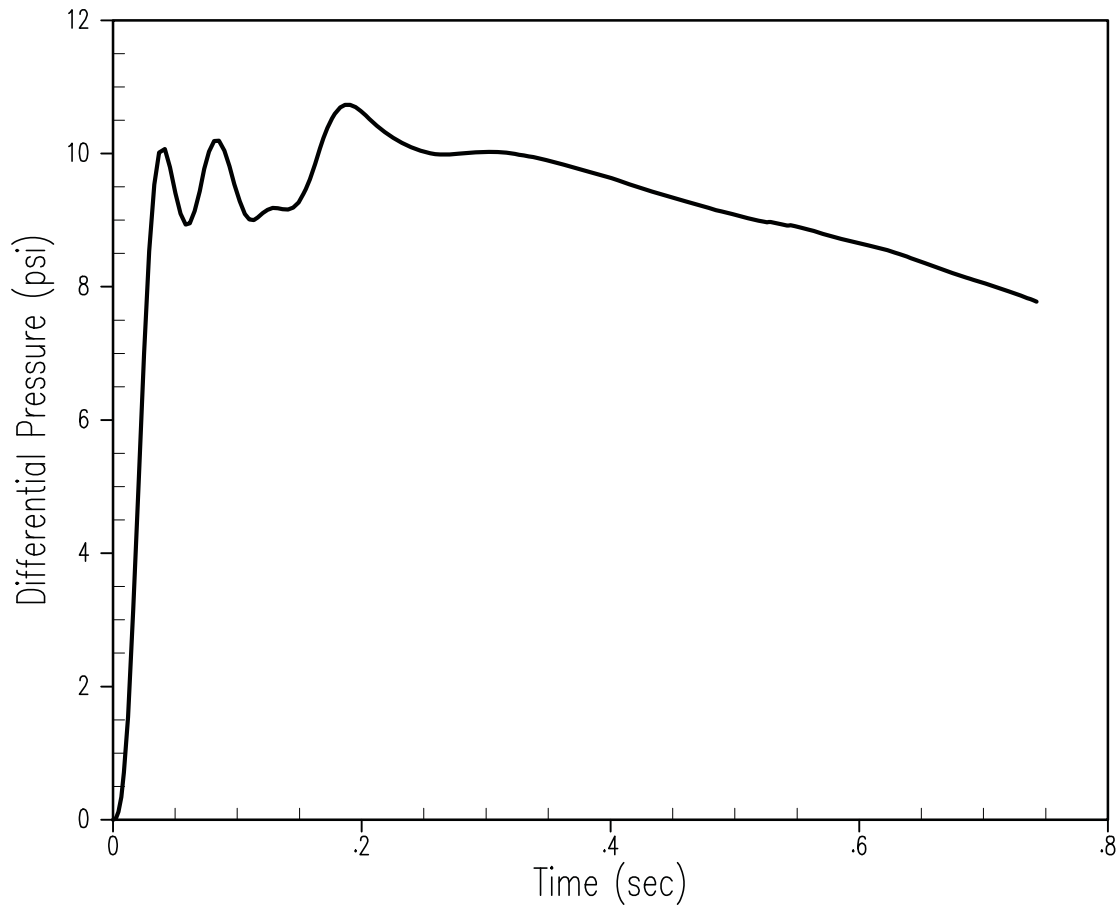
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 54 - 2**

UFSAR Figure: **14.3.4-92**

Sheet 1 of 1



Revision: **17.1**

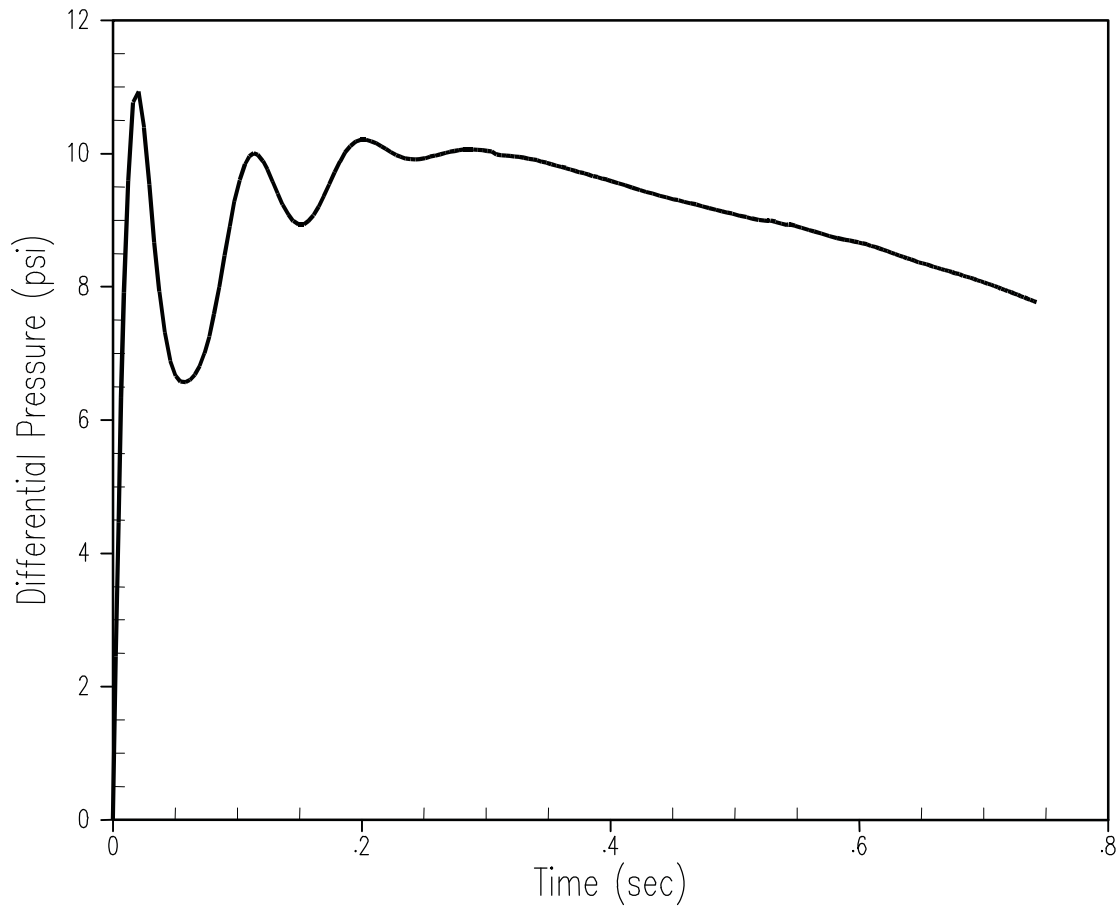
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 54 - 3**

UFSAR Figure: **14.3.4-93**

Sheet 1 of 1



Revision: **17.1**

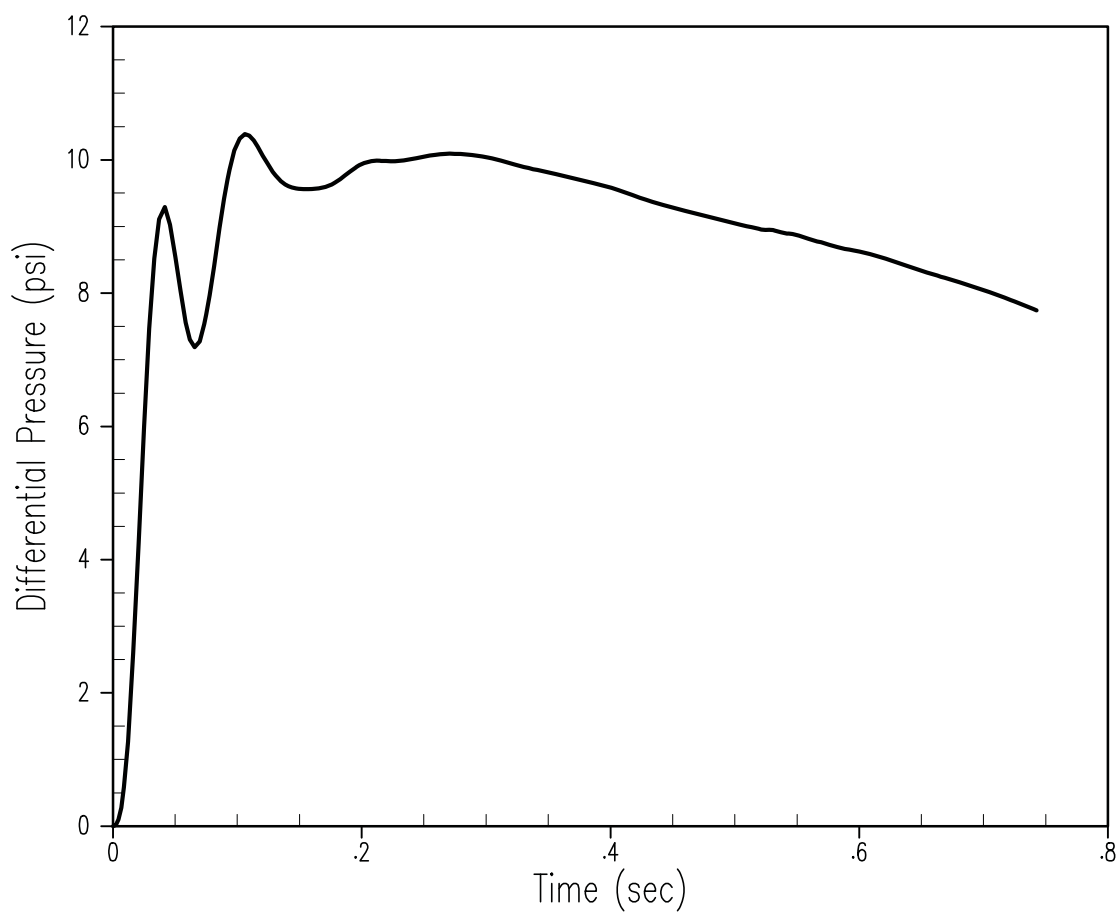
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 55 - 2**

UFSAR Figure: **14.3.4-94**

Sheet 1 of 1



Revision: **17.1**

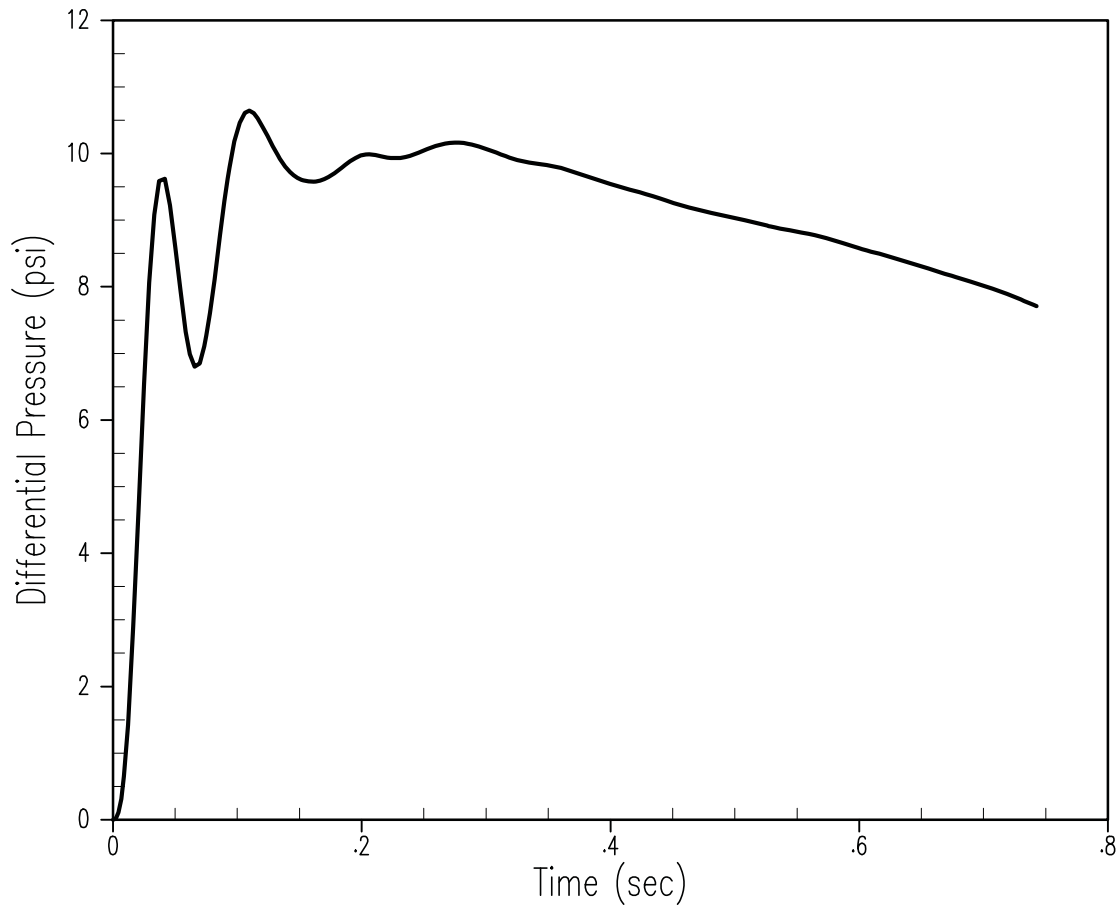
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 56 - 2**

UFSAR Figure: **14.3.4-95**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

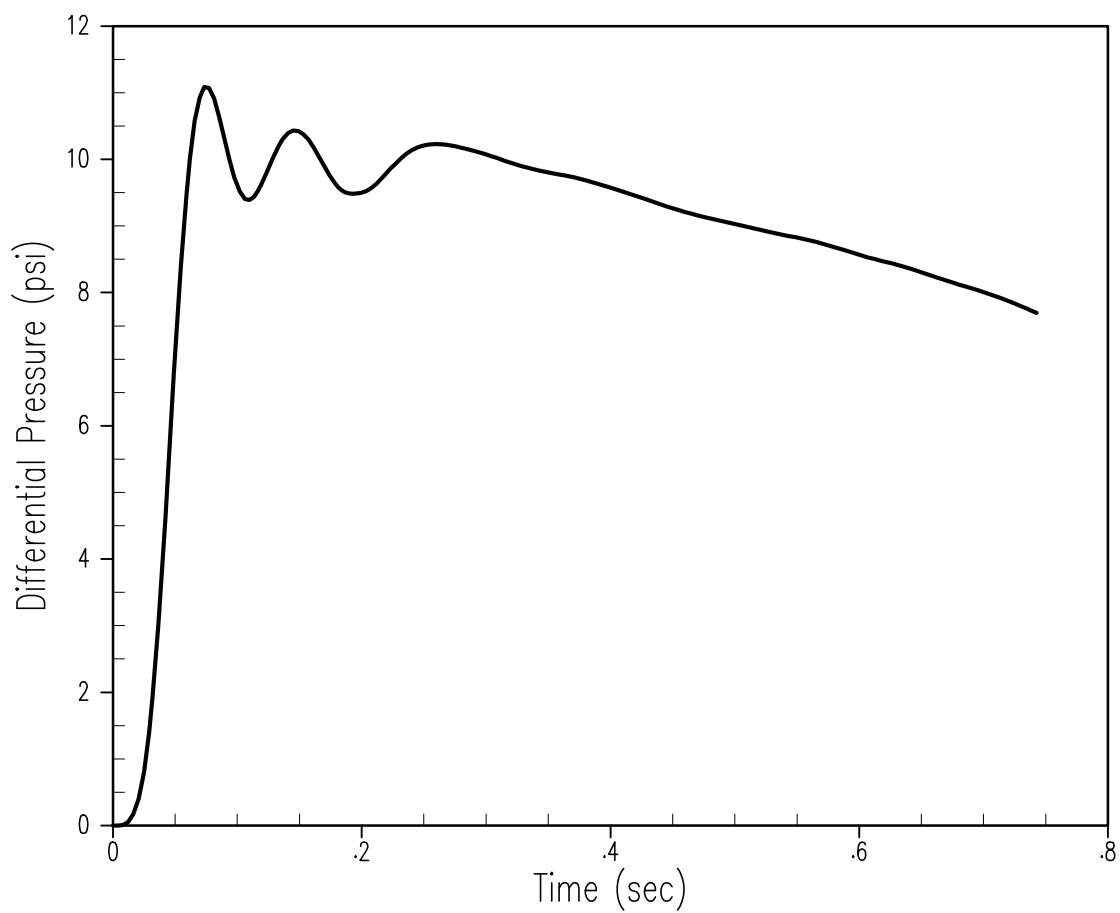
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 56 - 1**

UFSAR Figure: **14.3.4-96**

Sheet 1 of 1





Revision: **17.1**

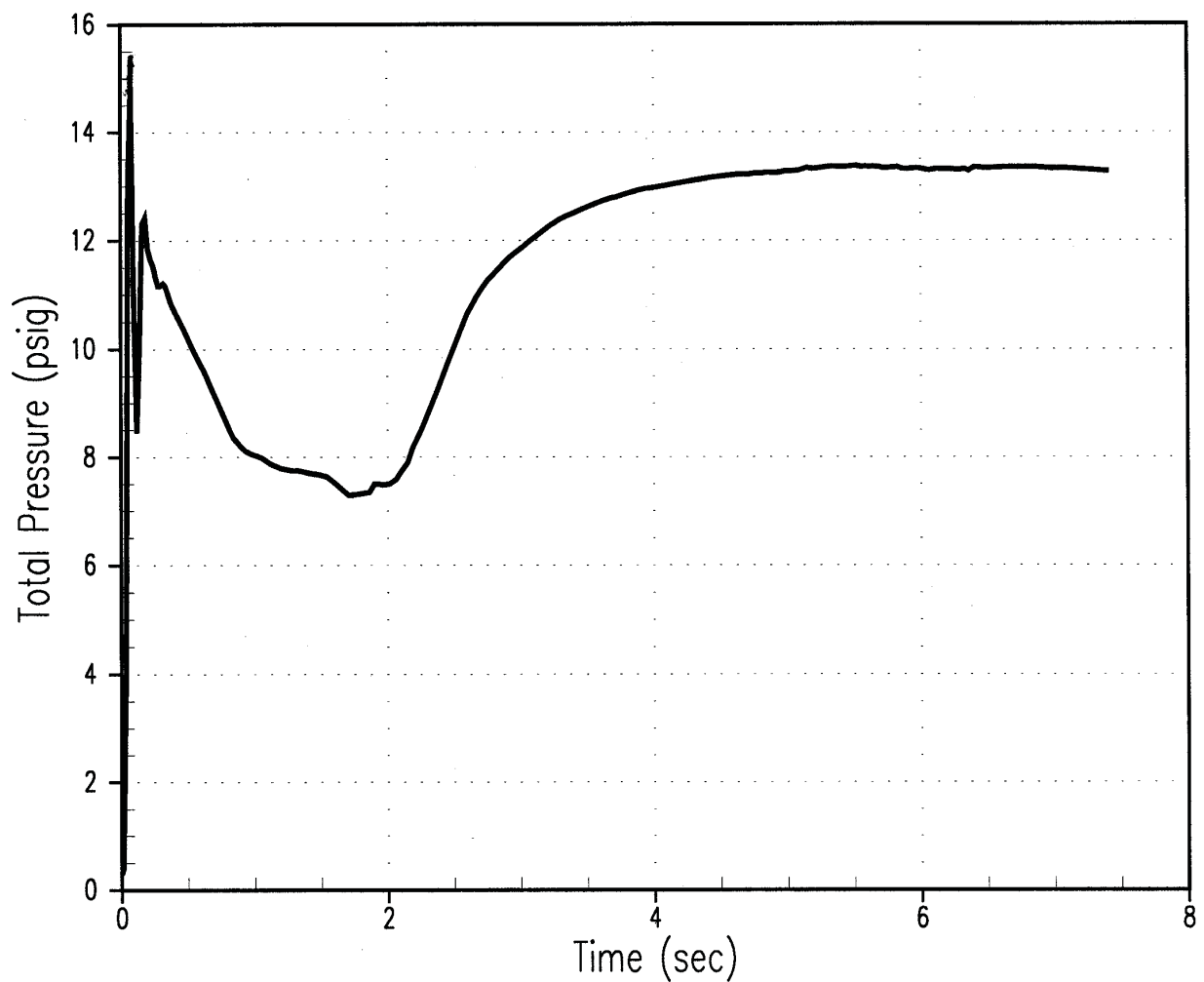
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Between Elements: 57 - 1**

UFSAR Figure: **14.3.4-97**

Sheet 1 of 1



Revision: **17.1**

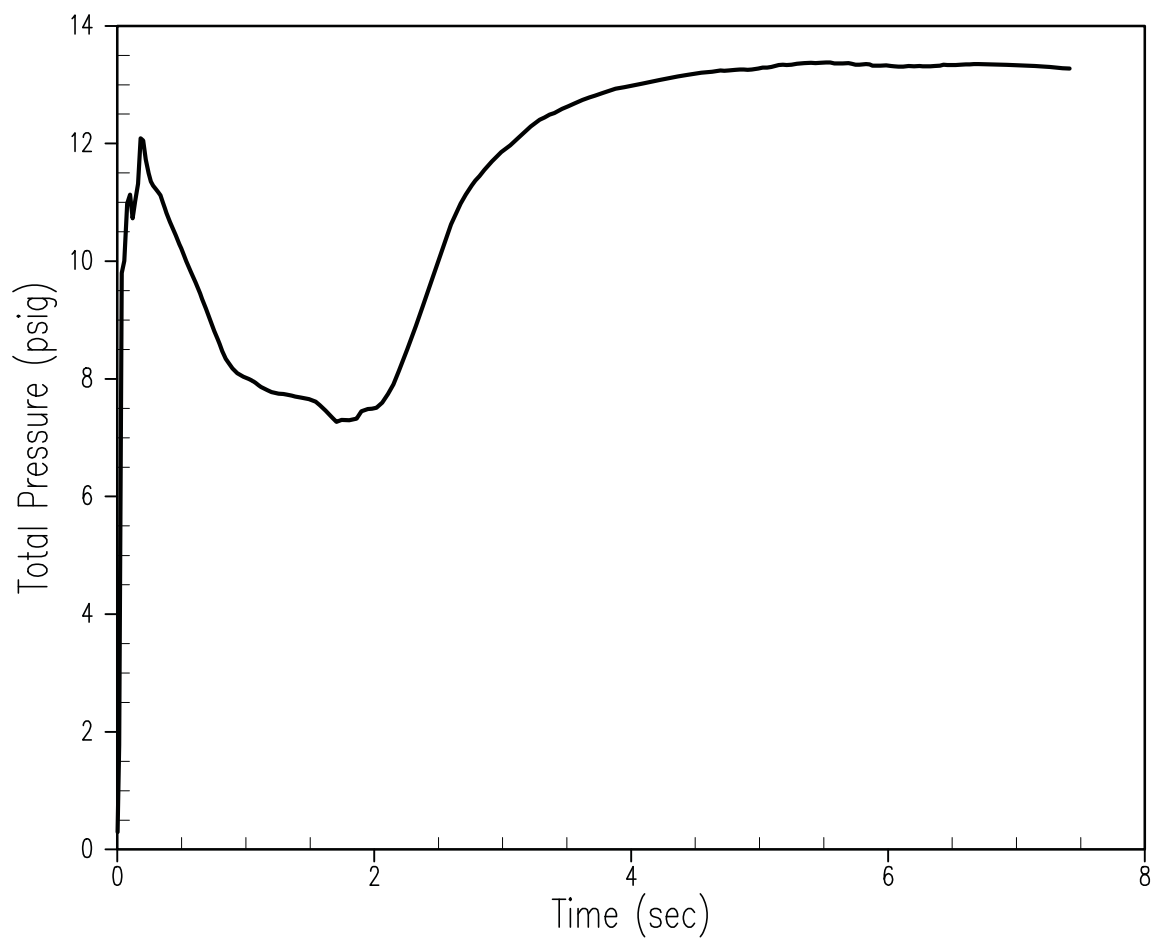
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Fan / Accumulator Room Element 27**

UFSAR Figure: **14.3.4-98**

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Revision: **17.1**

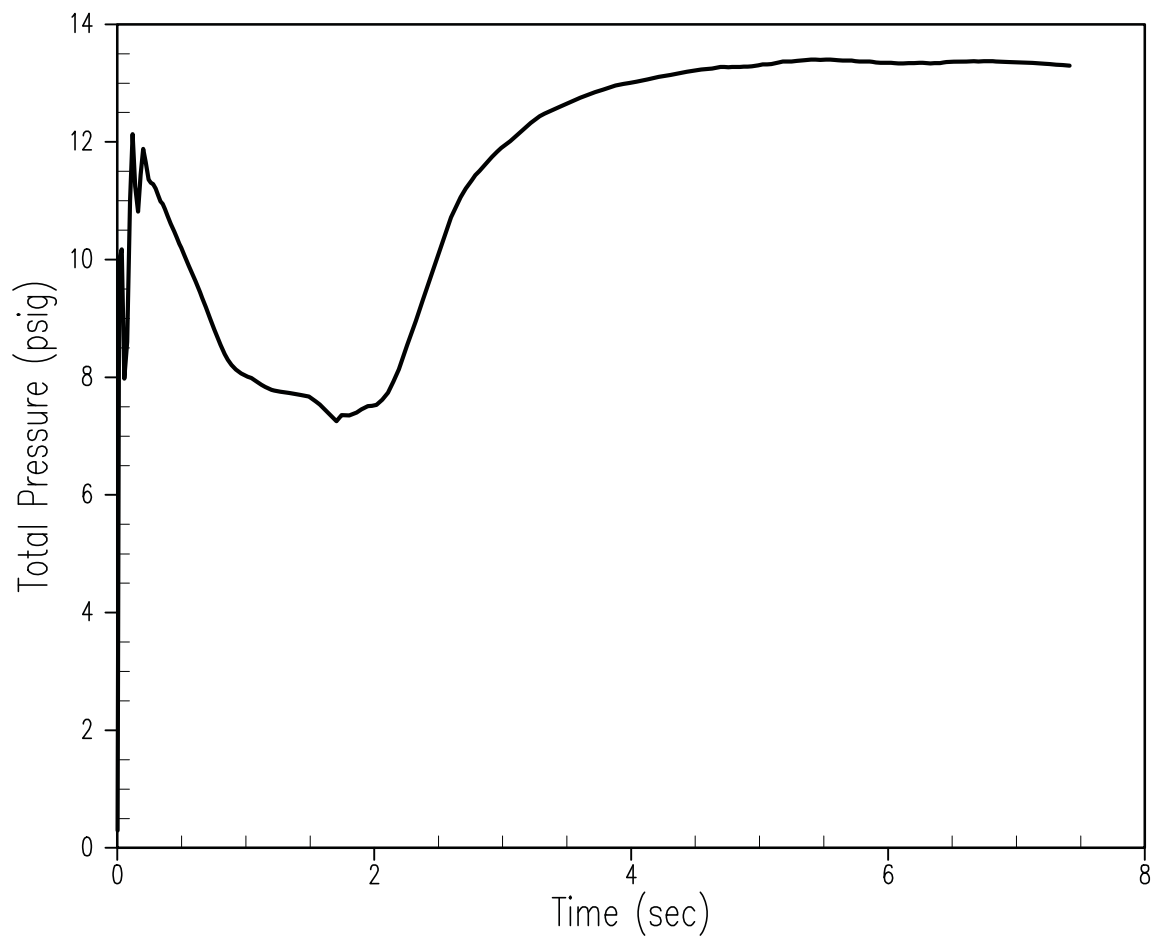
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Fan / Accumulator Room Element 54**

UFSAR Figure: **14.3.4-99**

Sheet 1 of 1



Revision: **17.1**

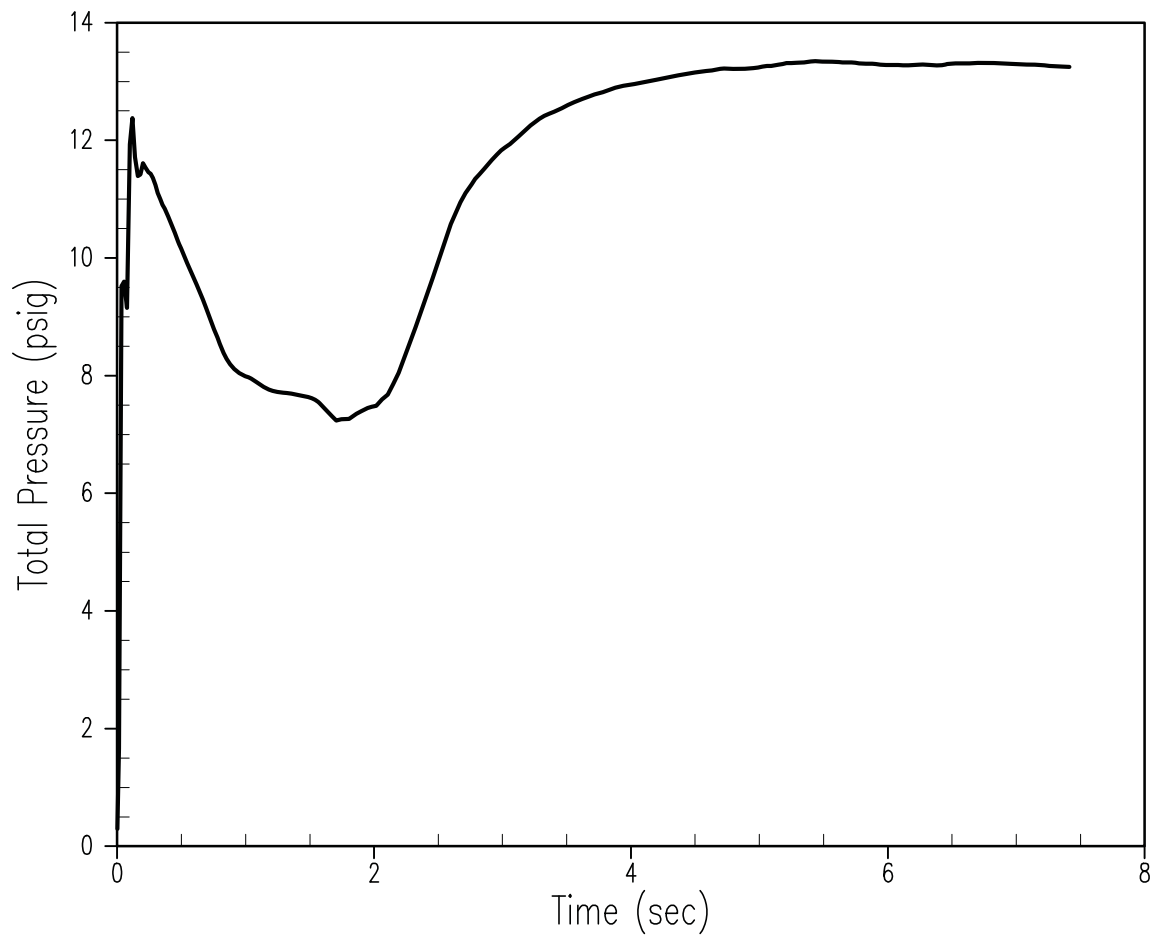
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Fan / Accumulator Room Element 55**

UFSAR Figure: **14.3.4-100**

Sheet 1 of 1



Revision: **17.1**

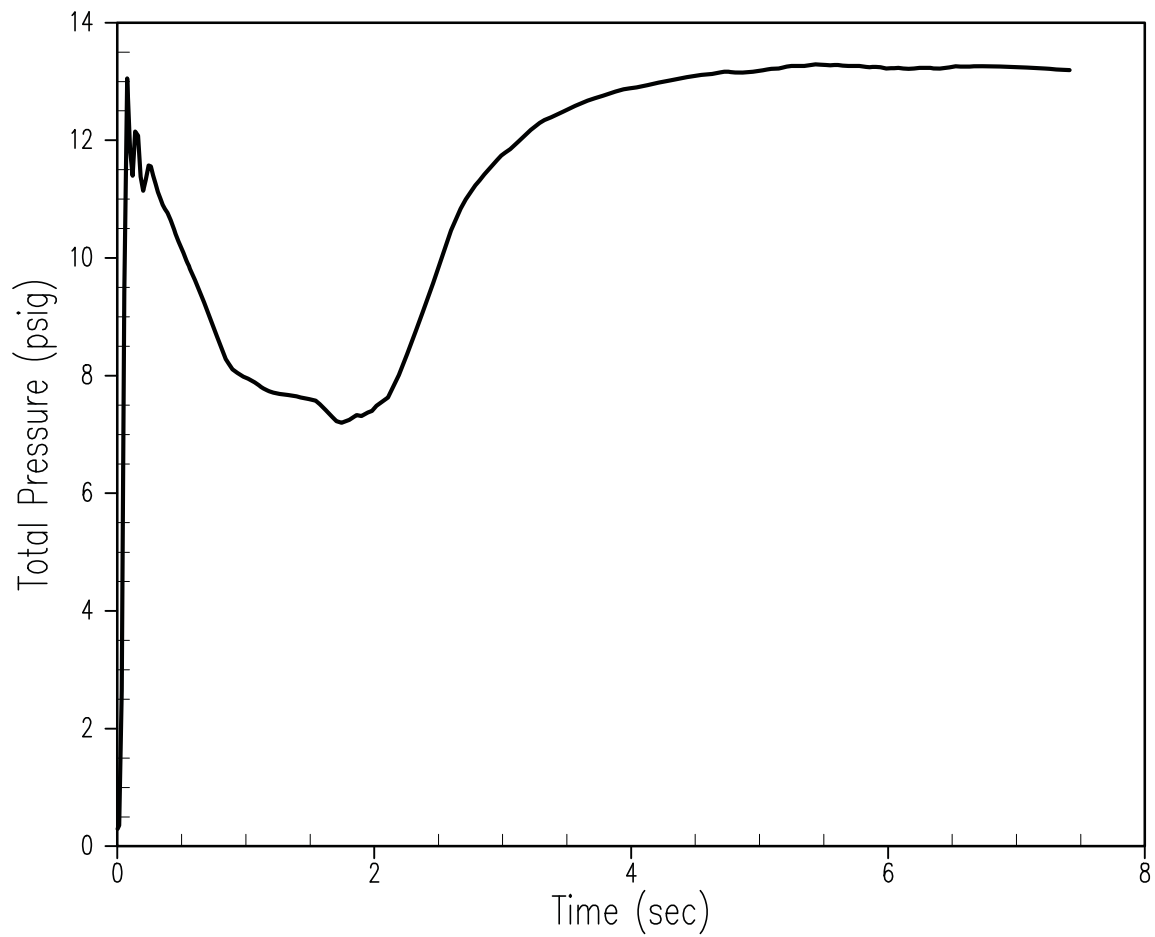
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Fan / Accumulator Room Element 56**

UFSAR Figure: **14.3.4-101**

Sheet 1 of 1



Revision: **17.1**

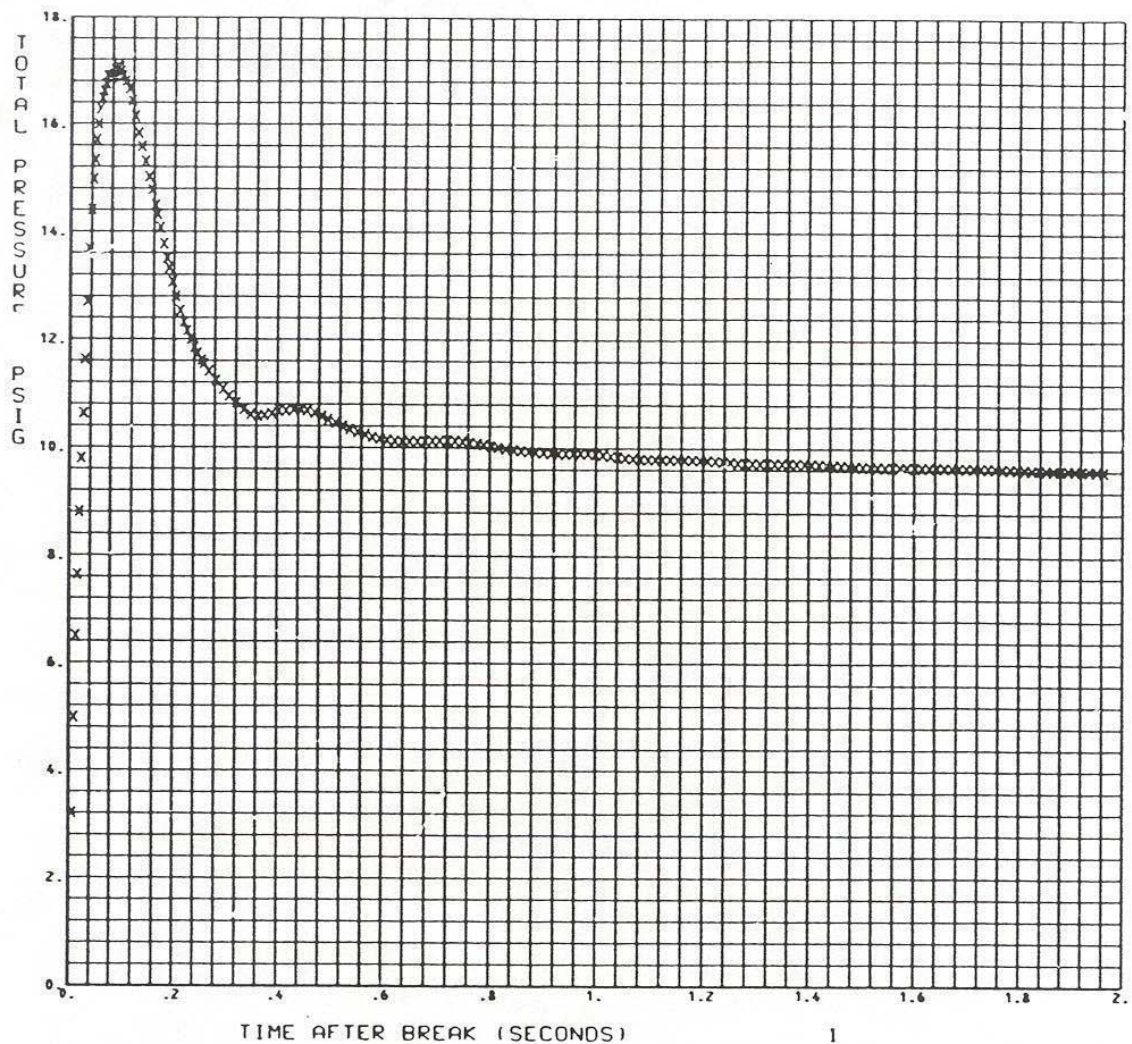
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Fan / Accumulator Room Element 57**

UFSAR Figure: **14.3.4-102**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

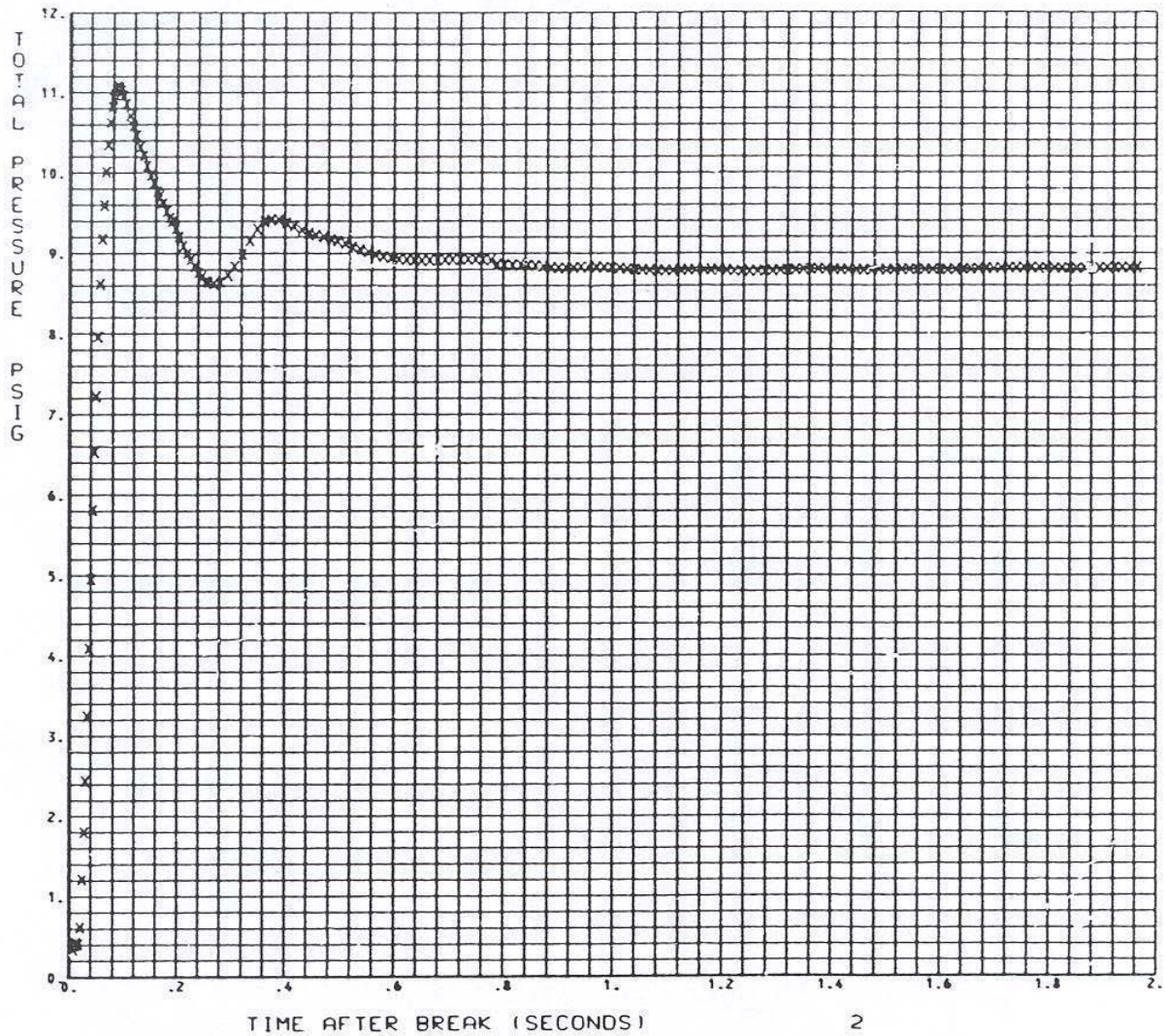
AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time in Element 1 for a DEHL Break  
in Element 1**

UFSAR Figure: **14.3.4-103**

Sheet 1 of 1





Revision: **17.1**

Change Description: **UCR-850**

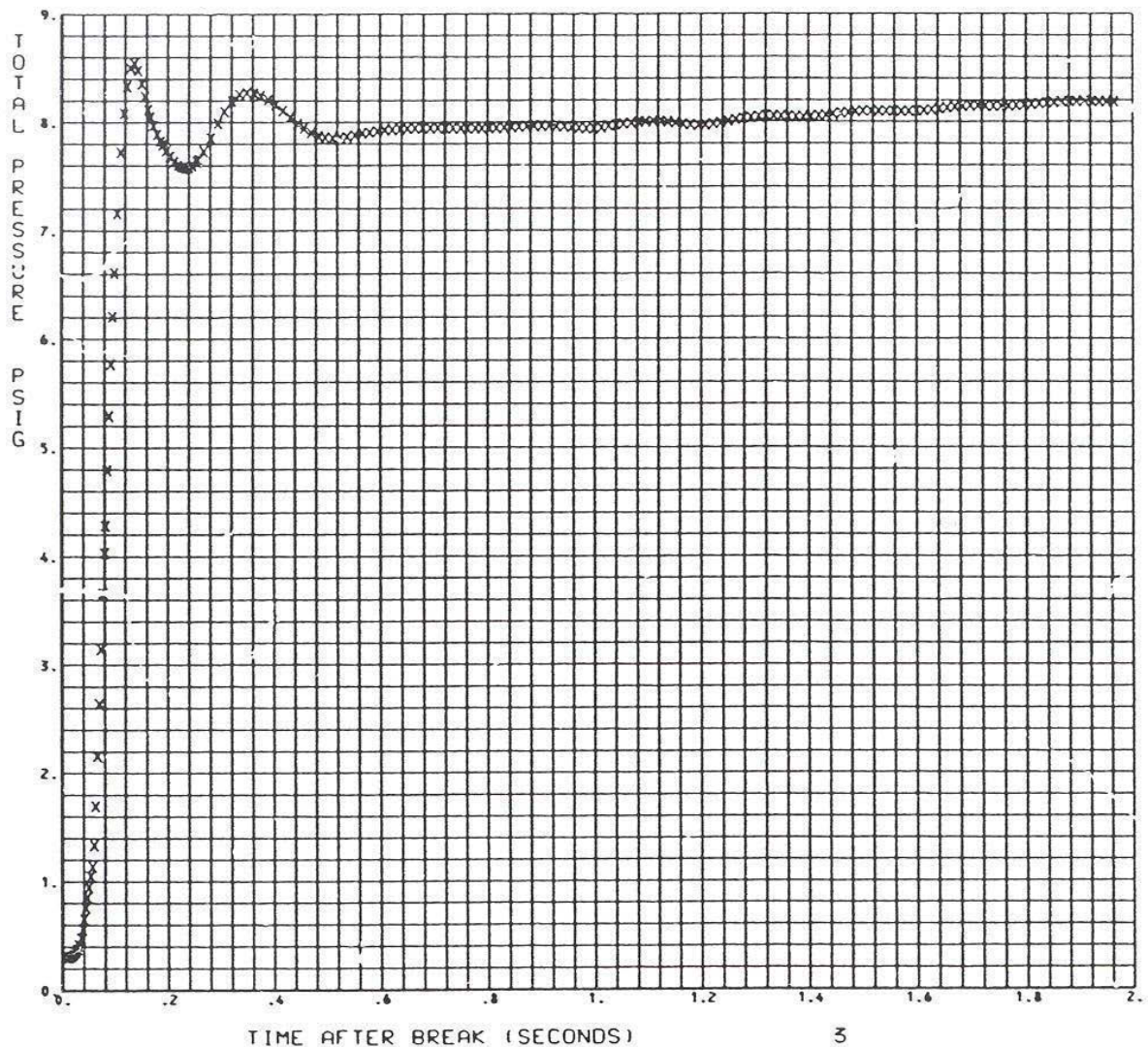
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time in Element 2 for a DEHL Break  
in Element 1**

UFSAR Figure: **14.3.4-104**

Sheet 1 of 1





Revision: **17.1**

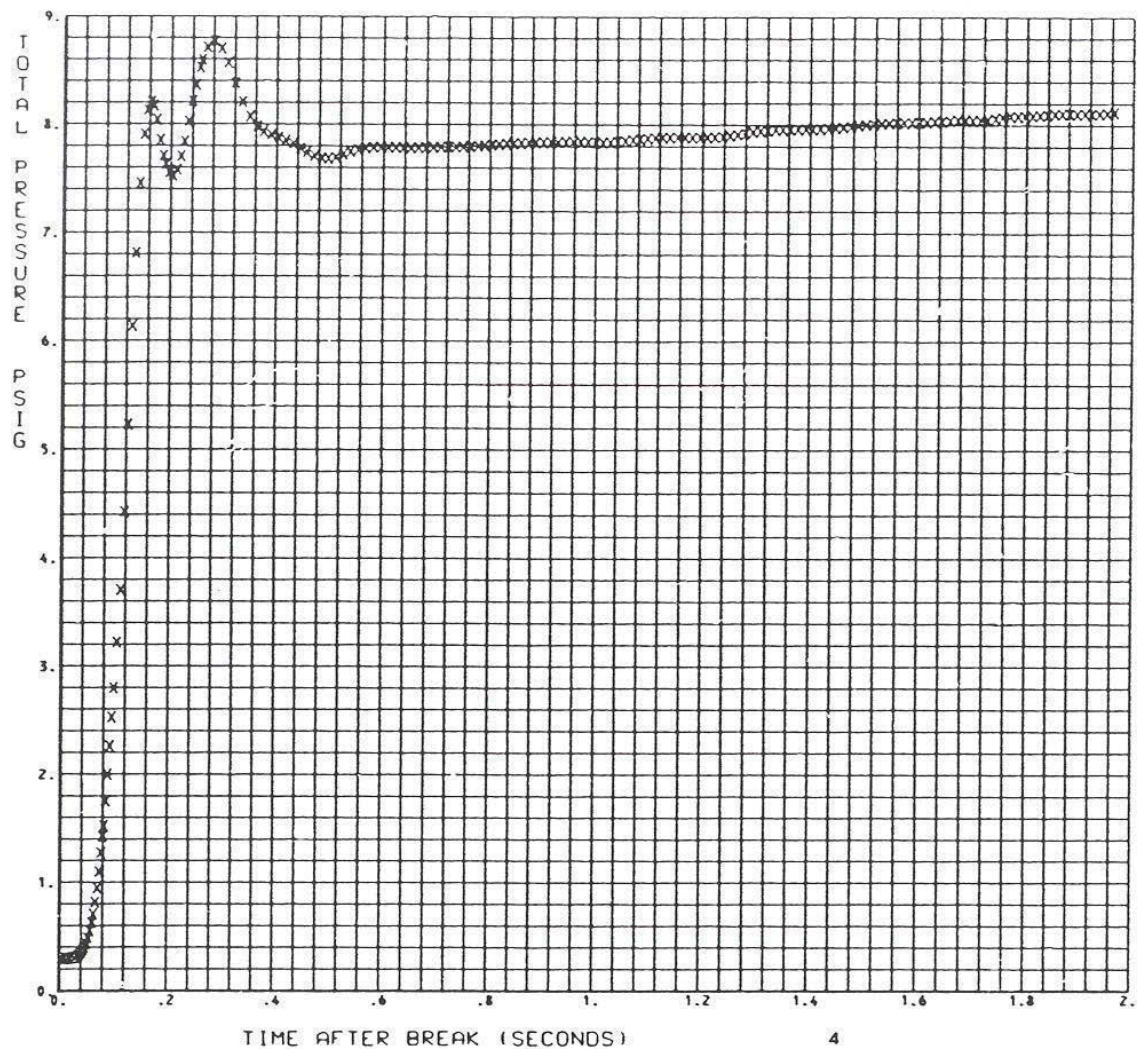
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time in Element 3 for a DEHL Break  
in Element 1**

UFSAR Figure: **14.3.4-105**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

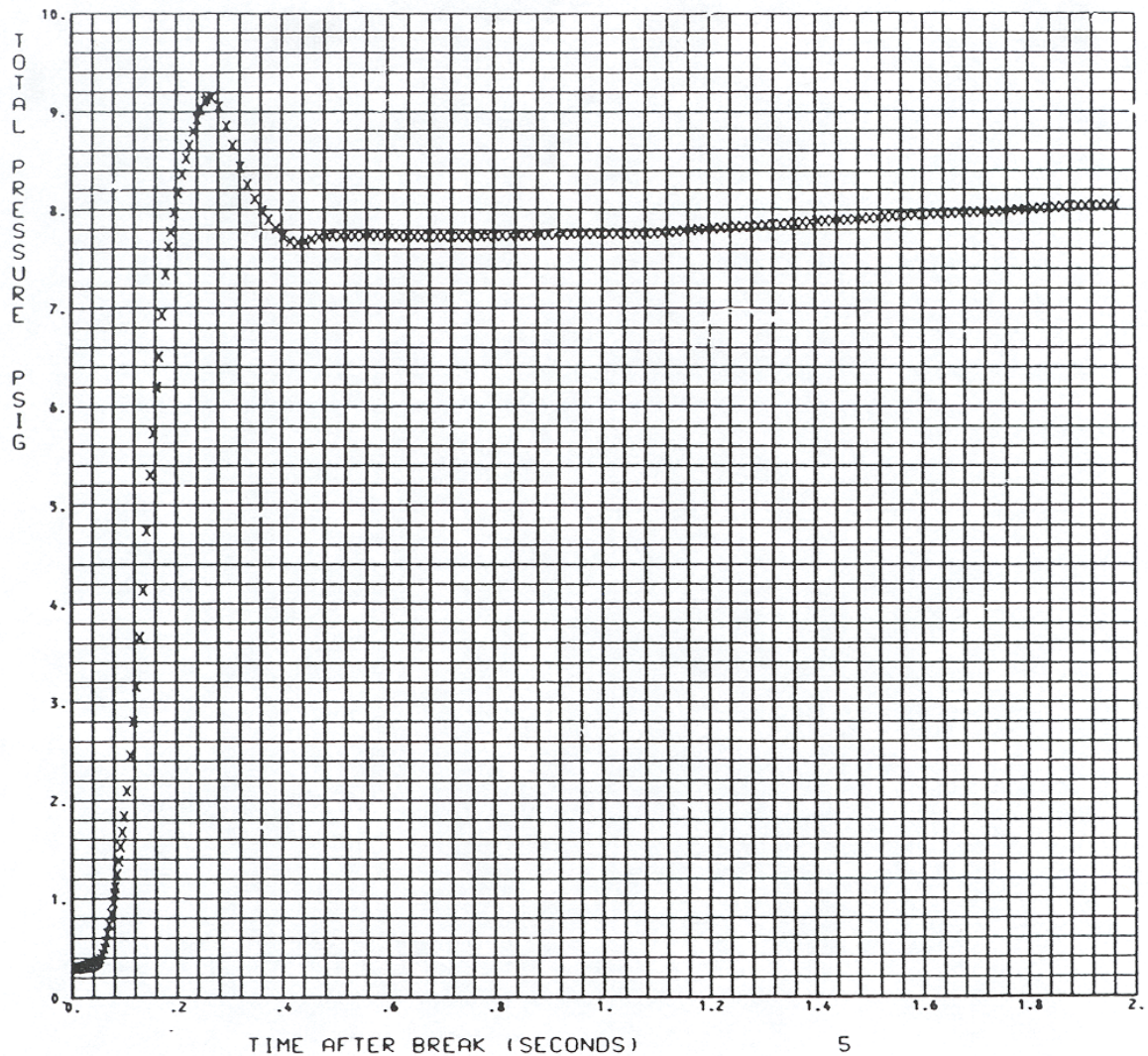
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time in Element 4 for a DEHL Break  
in Element 1**

UFSAR Figure: **14.3.4-106**

Sheet 1 of 1





Revision: **17.1**

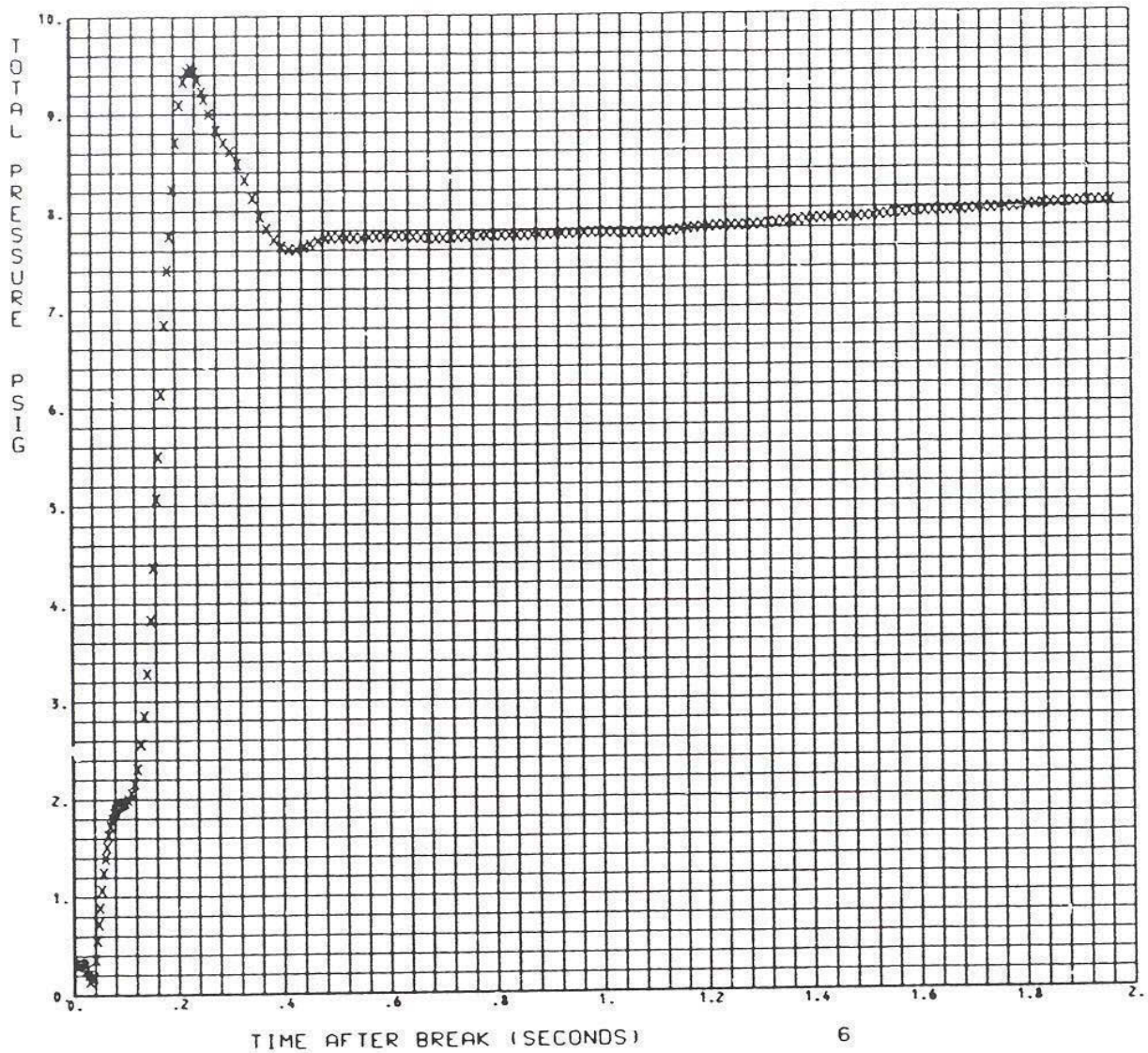
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time in Element 5 for a DEHL Break  
in Element 1**

UFSAR Figure: **14.3.4-107**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

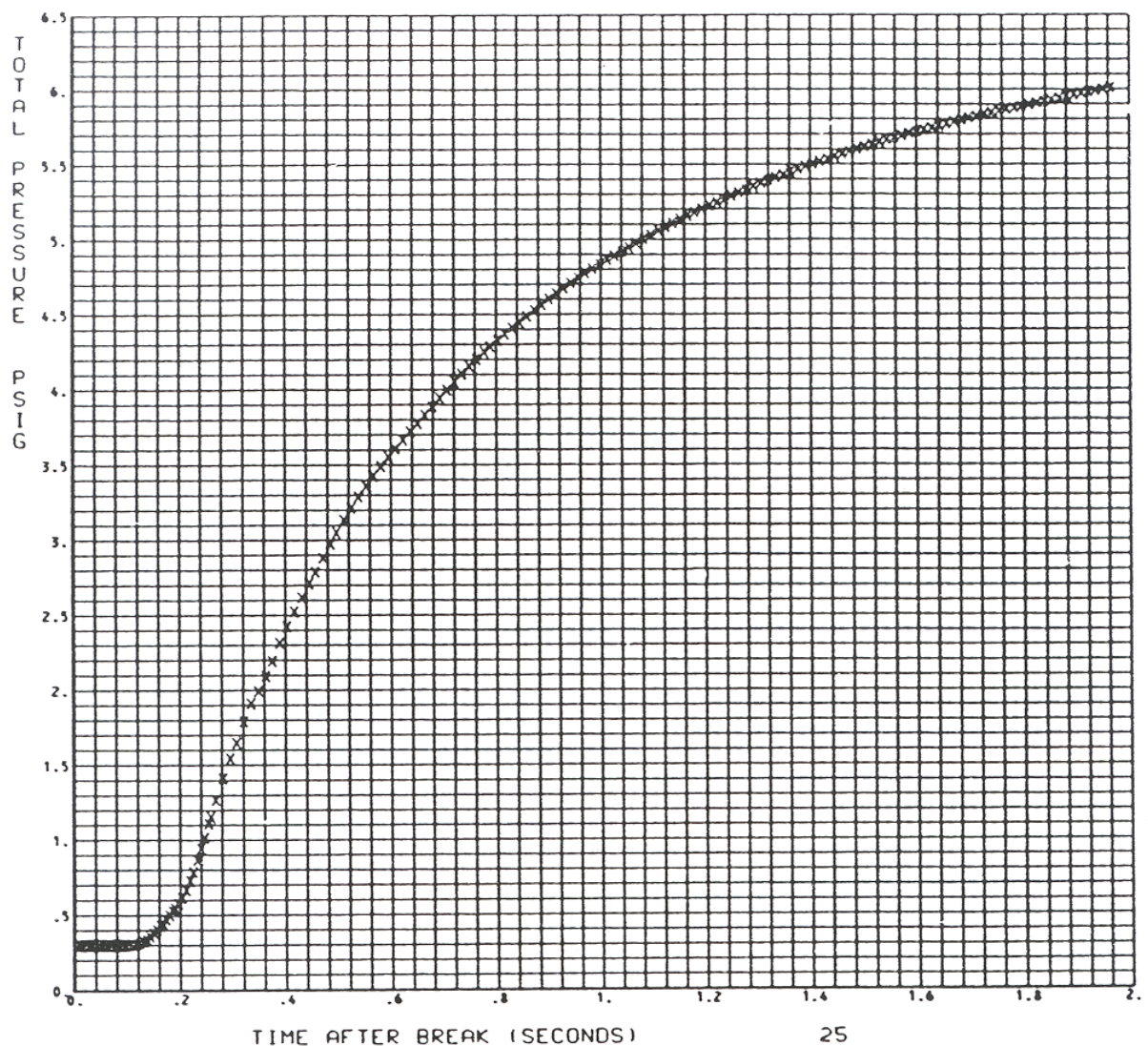
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time in Element 6 for a DEHL Break  
in Element 1**

UFSAR Figure: **14.3.4-108**

Sheet 1 of 1





Revision: **17.1**

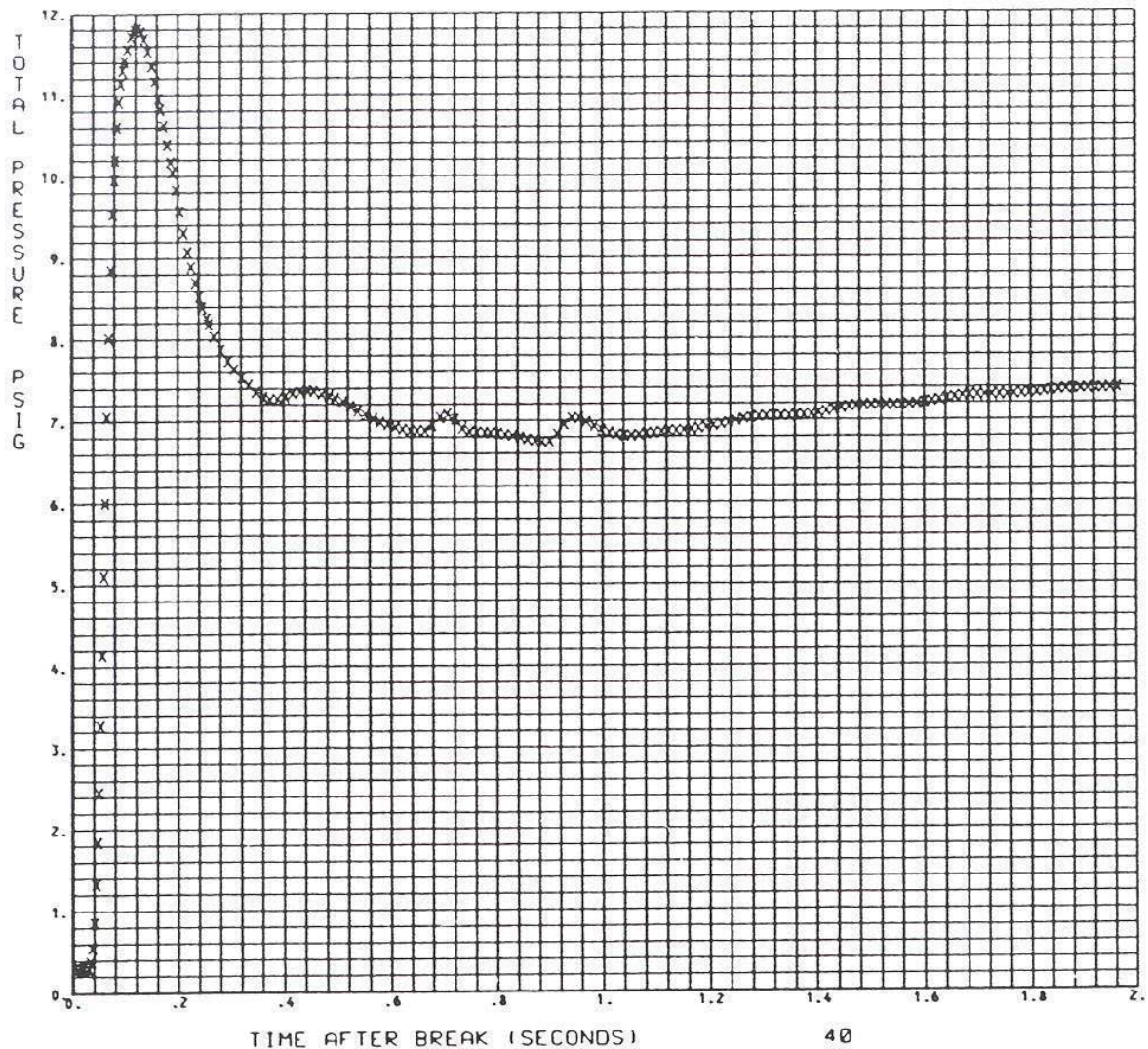
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time in Element 25 for a DEHL  
Break in Element 1**

UFSAR Figure: **14.3.4-109**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

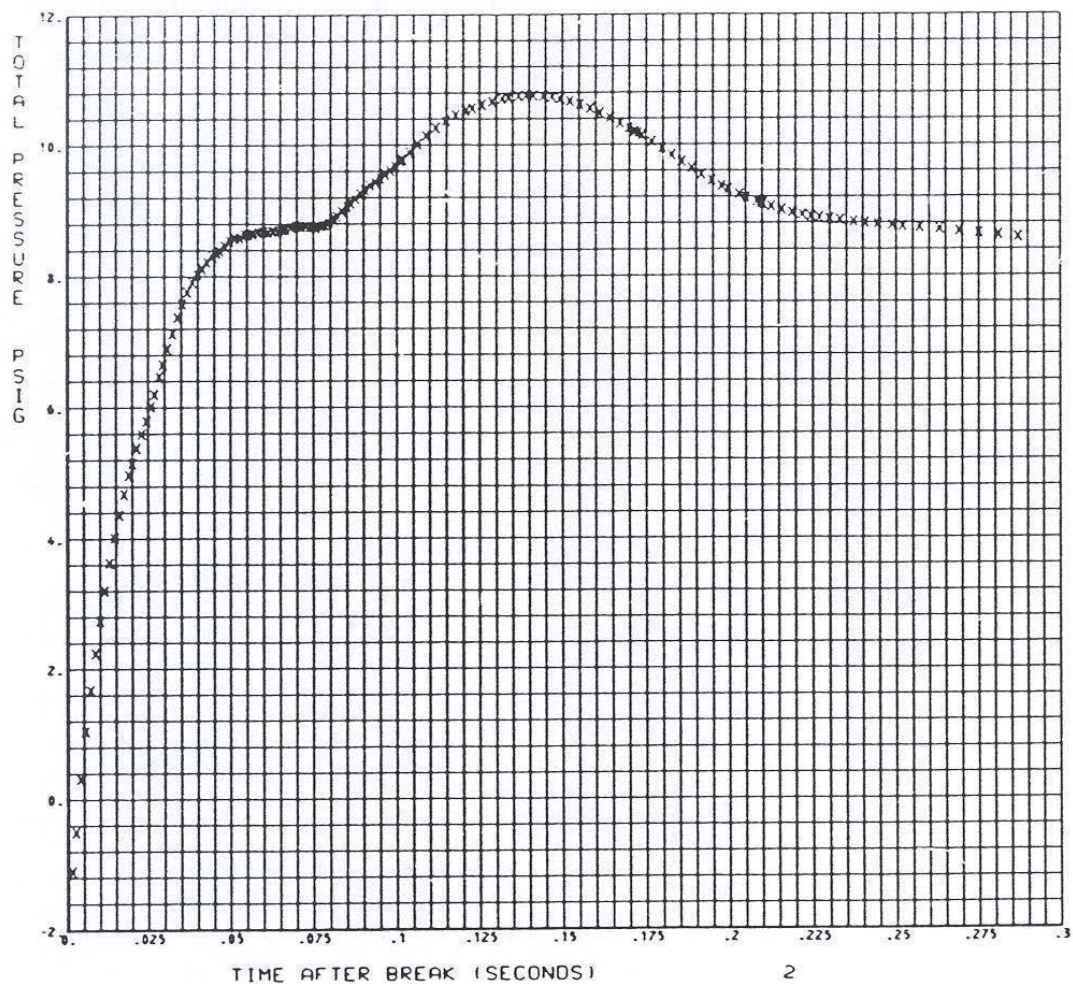
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time in Element 40 for a DEHL  
Break in Element 1**

UFSAR Figure: **14.3.4-110**

Sheet 1 of 1





Revision: **17.1**

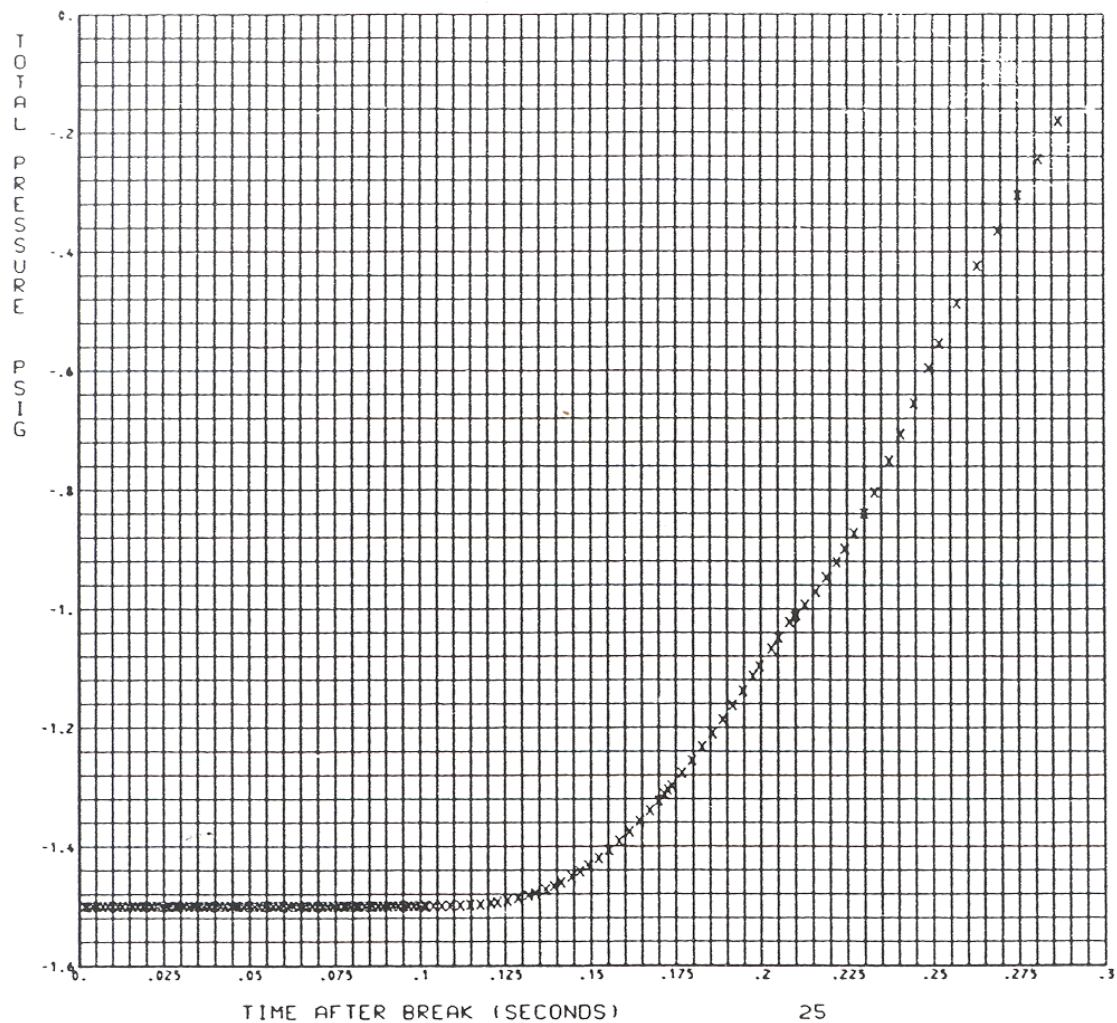
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time Element 2 for DEHL Break in  
Element 2**

UFSAR Figure: **14.3.4-111**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

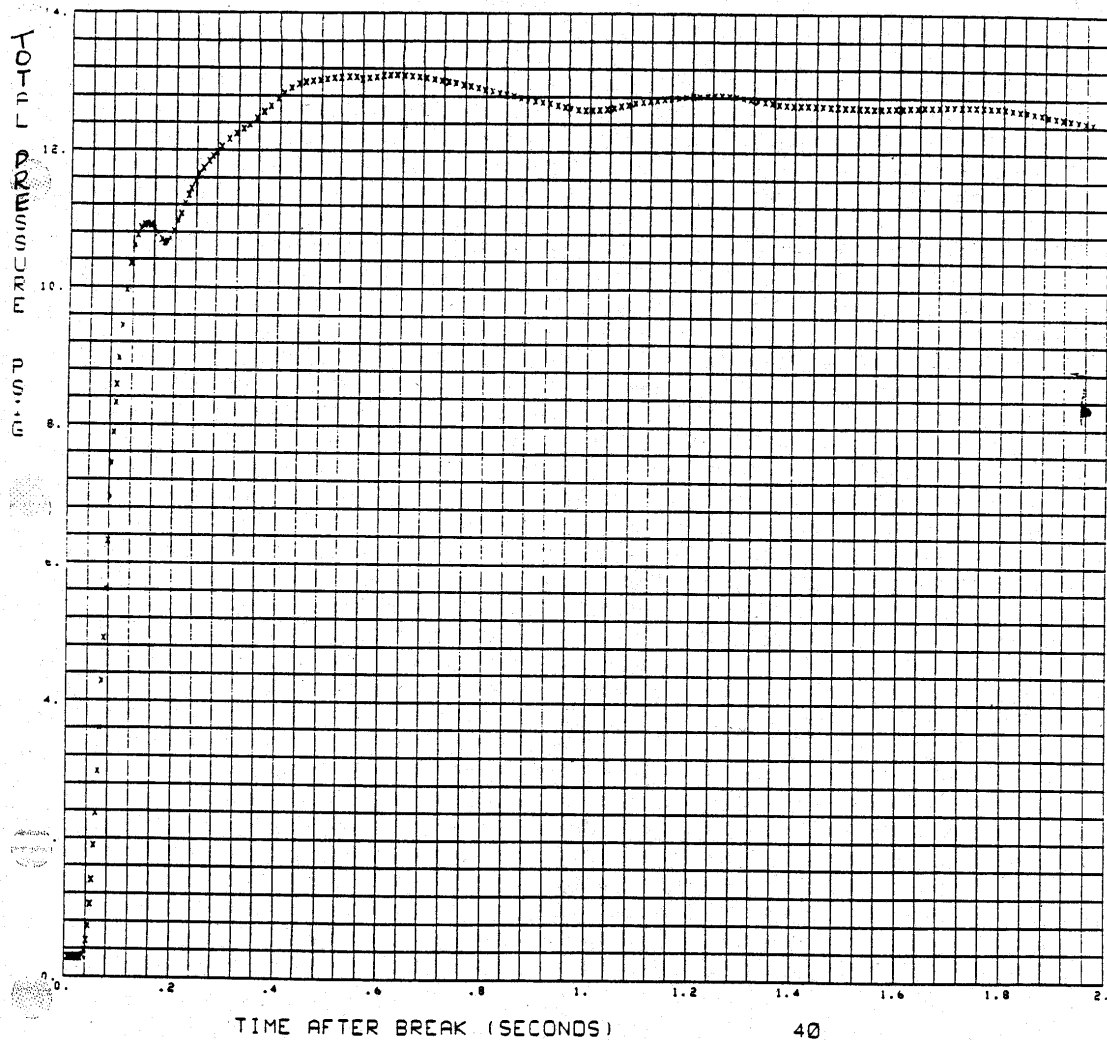
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time in Element 25 for a DEHL  
Break in Element 2**

UFSAR Figure: **14.3.4-112**

Sheet 1 of 1





Revision: **17.1**

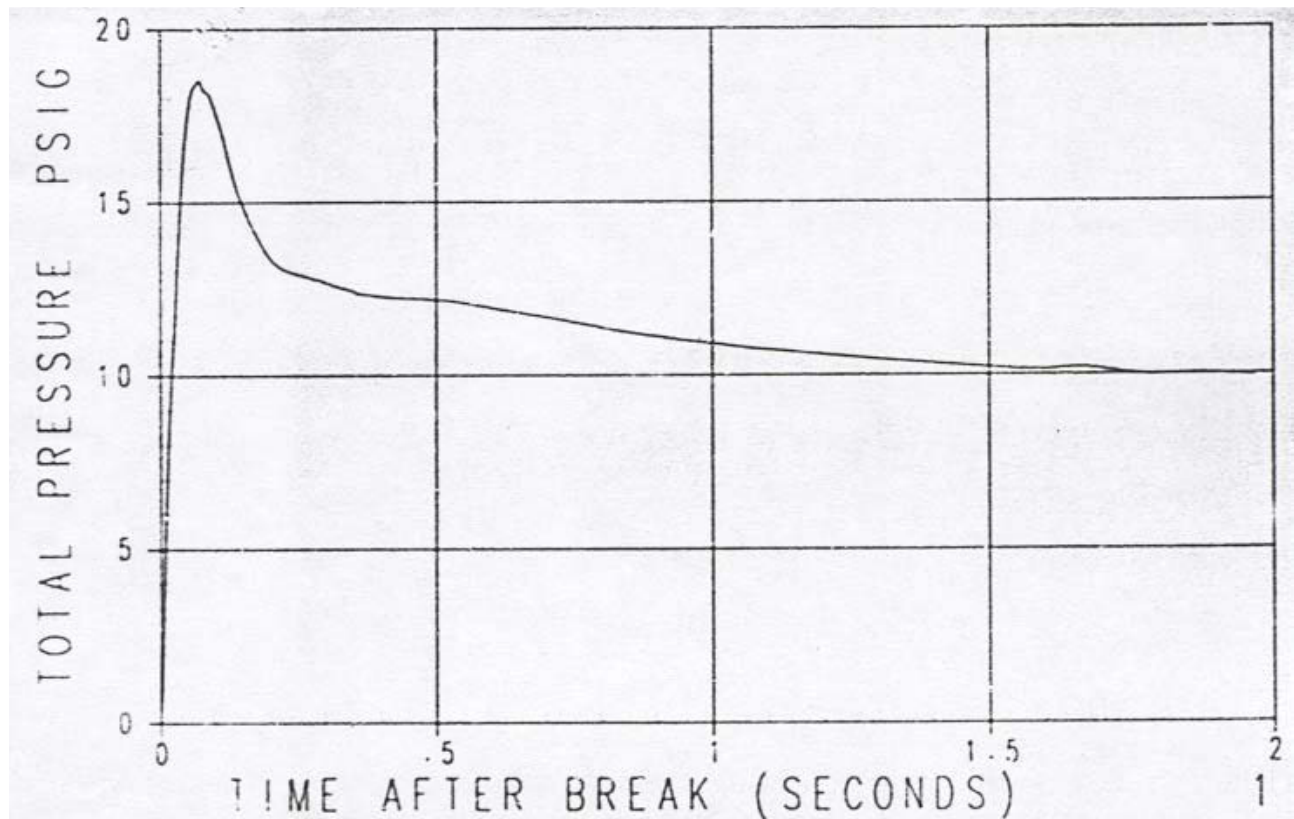
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Plot of the Peak Compartment Pressure as a  
Function of Time in Element 40 for a DECL  
Break in Element 1**

UFSAR Figure: **14.3.4-113**

Sheet 1 of 1



(When using this figure, the differential pressure time history should be increased by an adder of 1.936.)

Revision: **17.1**

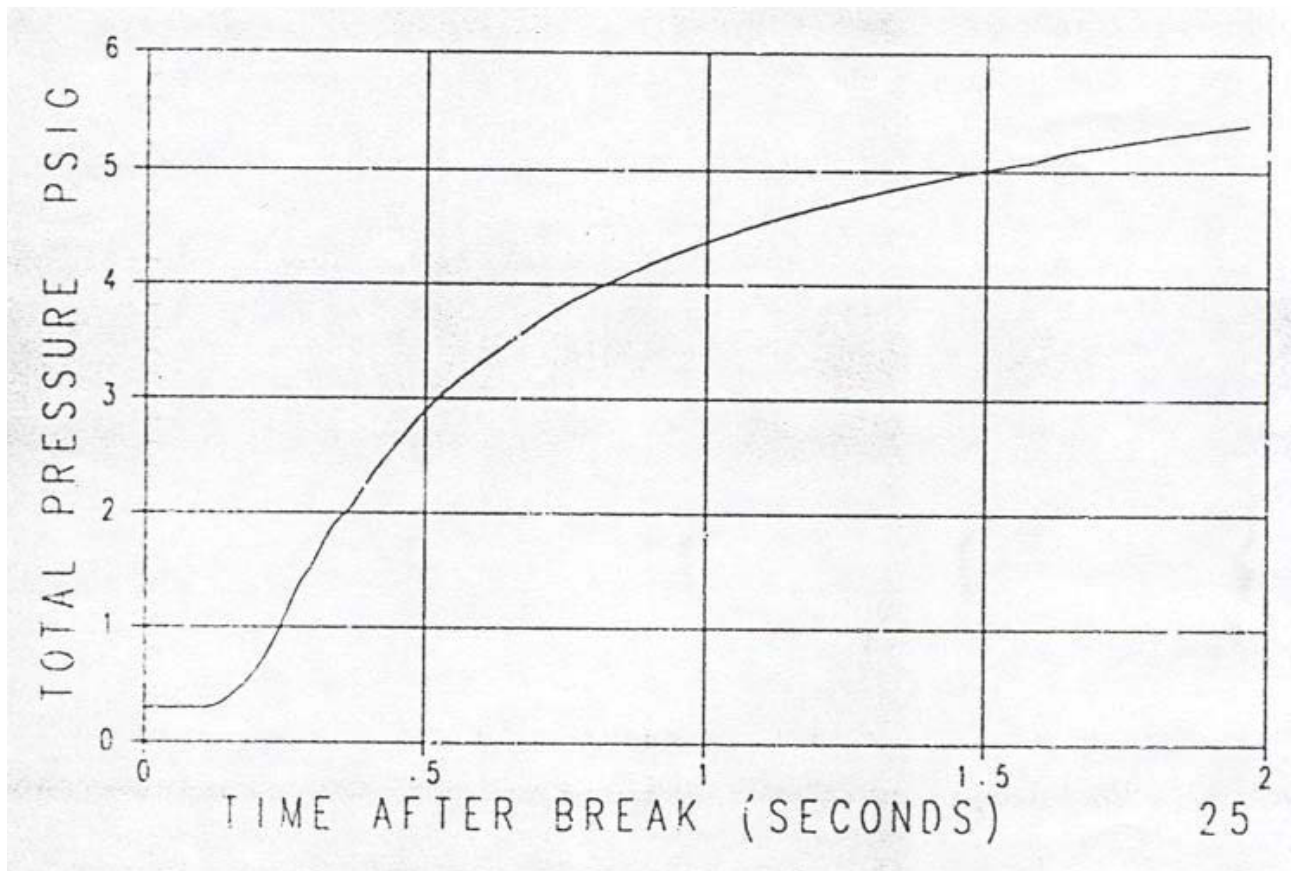
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History in the Lower  
Compartment**

UFSAR Figure: **14.3.4-114**

Sheet 1 of 1



(When using this figure, the differential pressure time history should be increased by an adder of 1.936.)

Revision: **17.1**

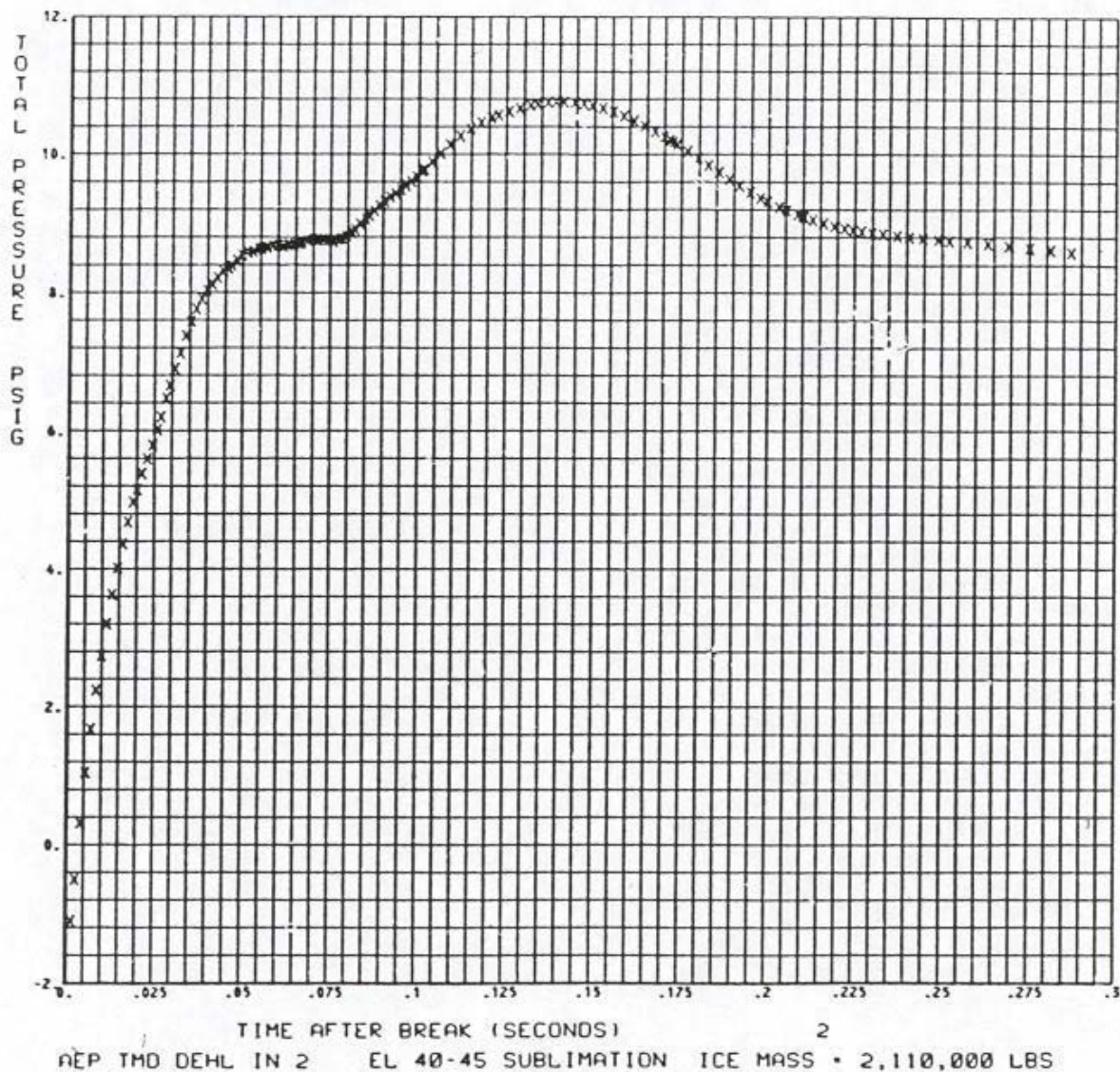
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History in the Upper  
Compartment**

UFSAR Figure: **14.3.4-115**

Sheet 1 of 1



(When using this figure, the differential pressure time history should be first increased by a factor 1.087 psi and then an adder of 0.75 psi included.)

Revision: **17.1**

Change Description: **UCR-850**

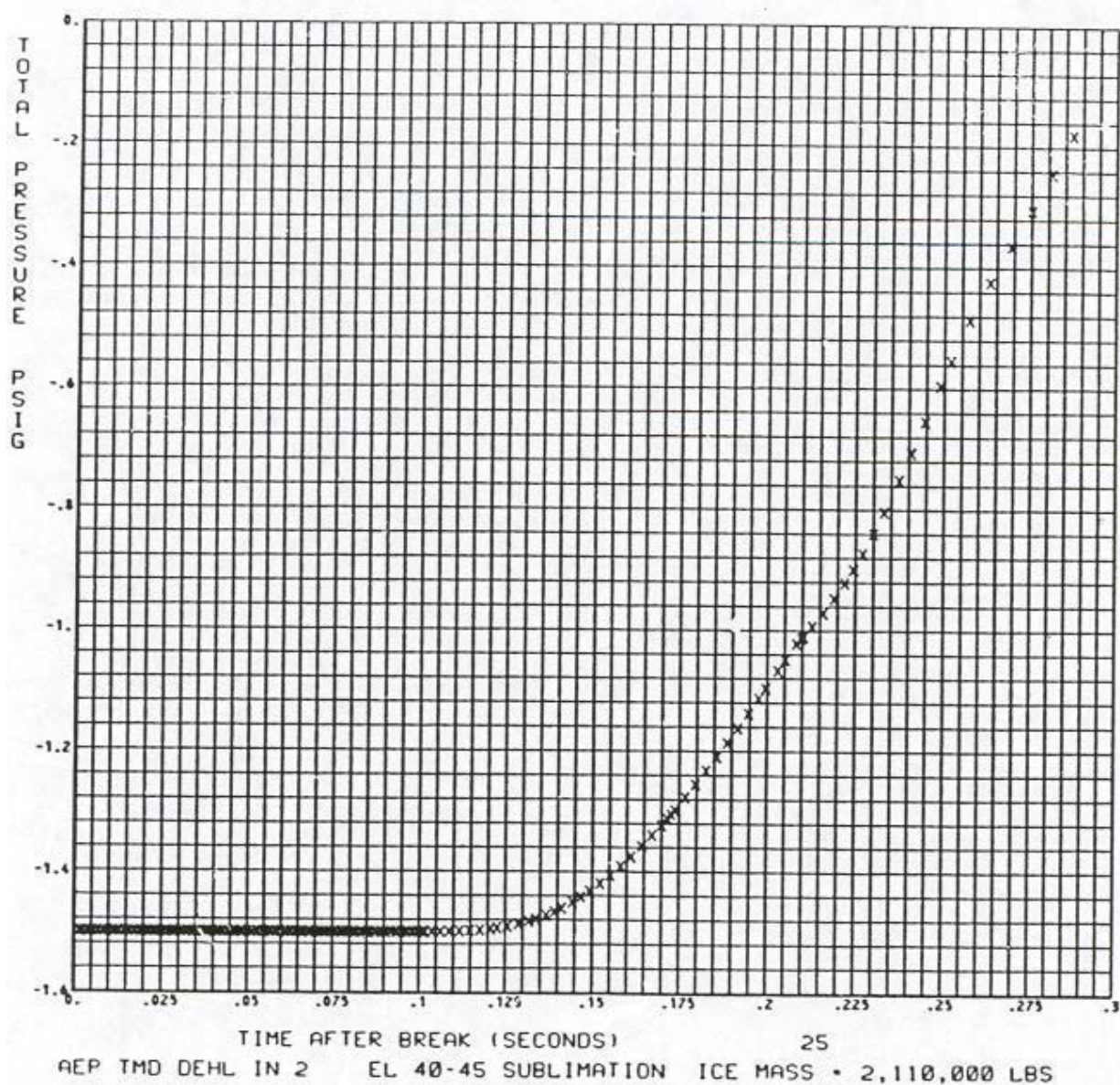
**AMERICAN ELECTRIC POWER  
 COOK NUCLEAR PLANT  
 NUCLEAR GENERATION GROUP  
 BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
 Pressure Time History in the Lower  
 Compartment**

UFSAR Figure: **14.3.4-116**

Sheet 1 of 1





(When using this figure, the differential pressure time history should be first increased by a factor 1.087 psi and then an adder of 0.75 psi included.)

Revision: **17.1**

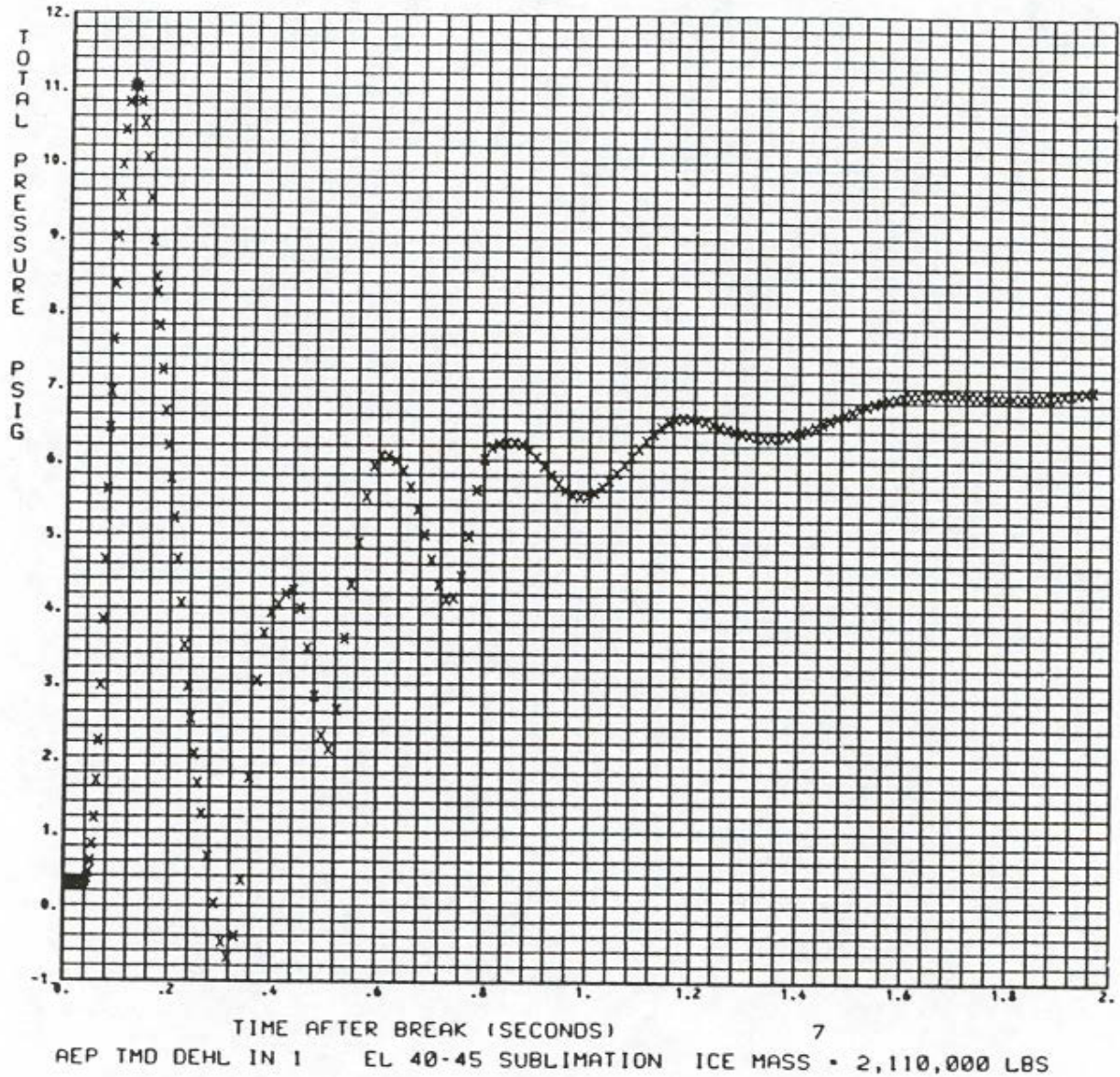
Change Description: **UCR-850**

AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN

Title: **Cook Unit 1 & 2  
Pressure Time History in the Upper  
Compartment**

UFSAR Figure: **14.3.4-117**

Sheet 1 of 1



(When using this figure, the differential pressure time history should be first increased by a factor 1.013 psi and then an adder of 0.9426 psi included.)

Revision: 17.1

Change Description: UCR-850

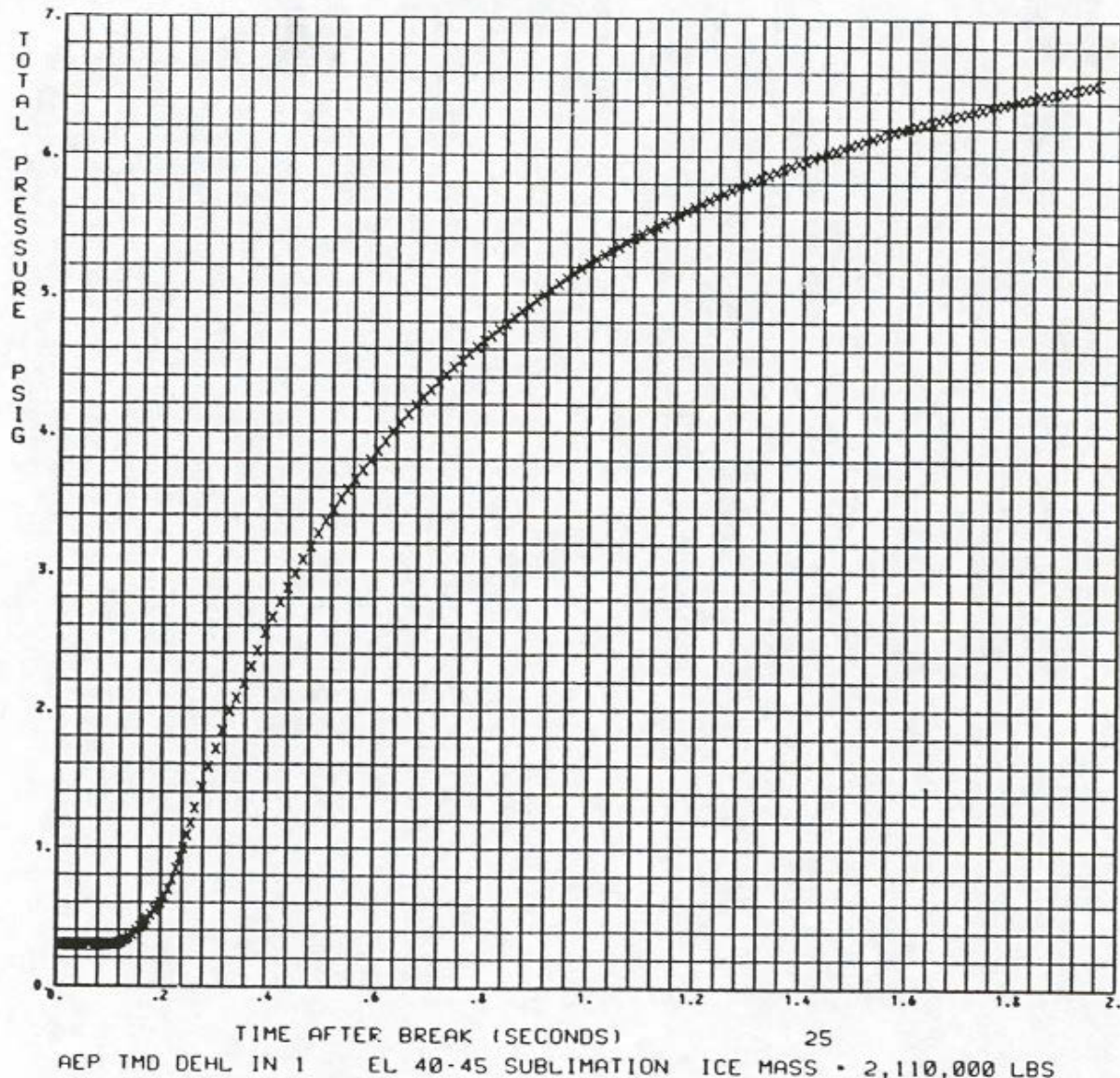
AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN

Title: Cook Unit 1 & 2  
Pressure Time History in the Ice Condenser  
Compartment

UFSAR Figure: 14.3.4-118

Sheet 1 of 1





(When using this figure, the differential pressure time history should be first increased by a factor 1.013 psi and then an adder of 0.9426 psi included.)

Revision: **17.1**

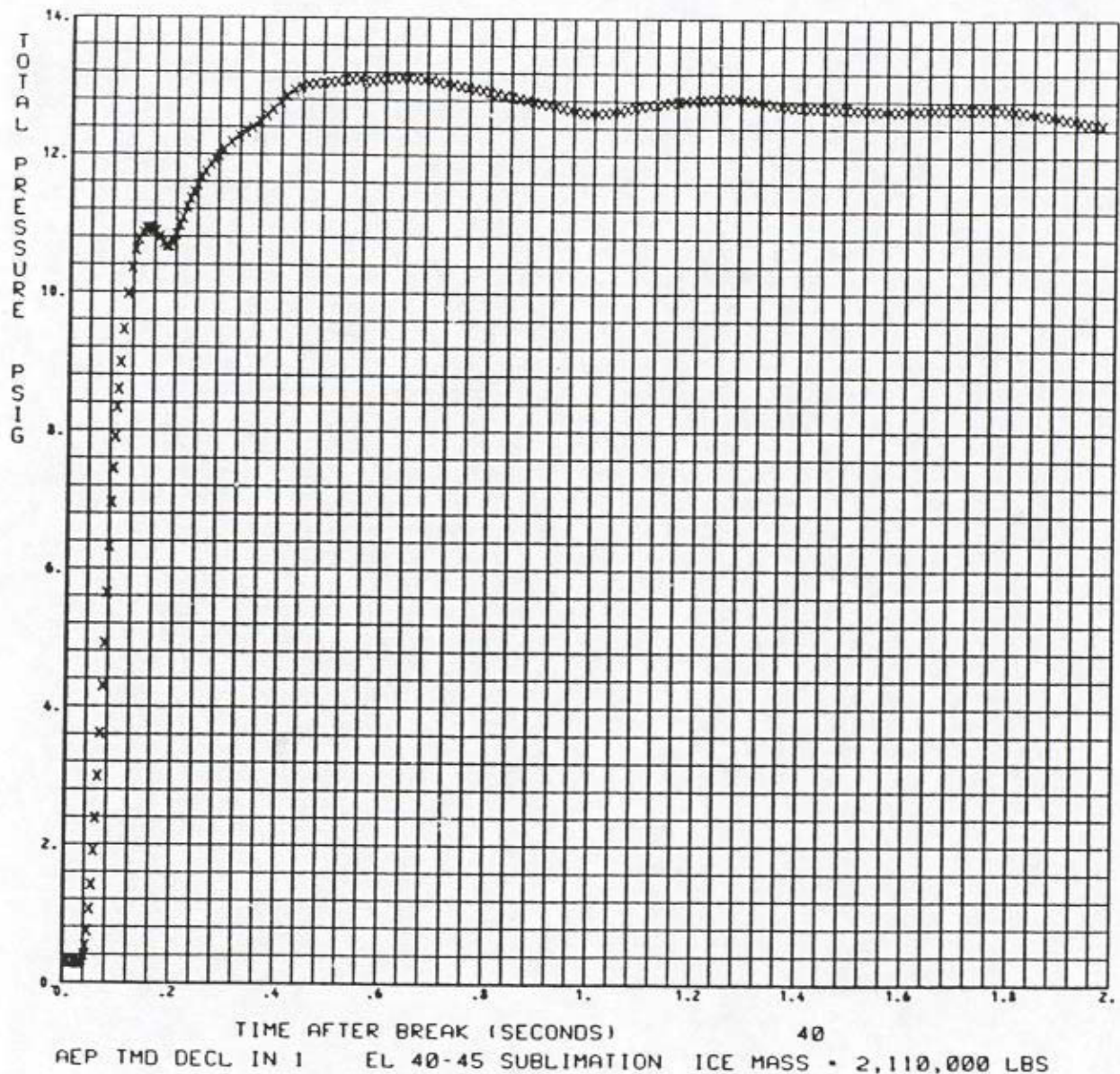
Change Description: **UCR-850**

AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN

Title: **Cook Unit 1 & 2  
Pressure Time History in the Upper  
Compartment**

UFSAR Figure: **14.3.4-119**

Sheet 1 of 1



(When using this figure for the differential pressure time history, it should be first increased by a factor 1.06 psi and then an adder of 0.866 psi included.)

Revision: **17.1**

Change Description: **UCR-850**

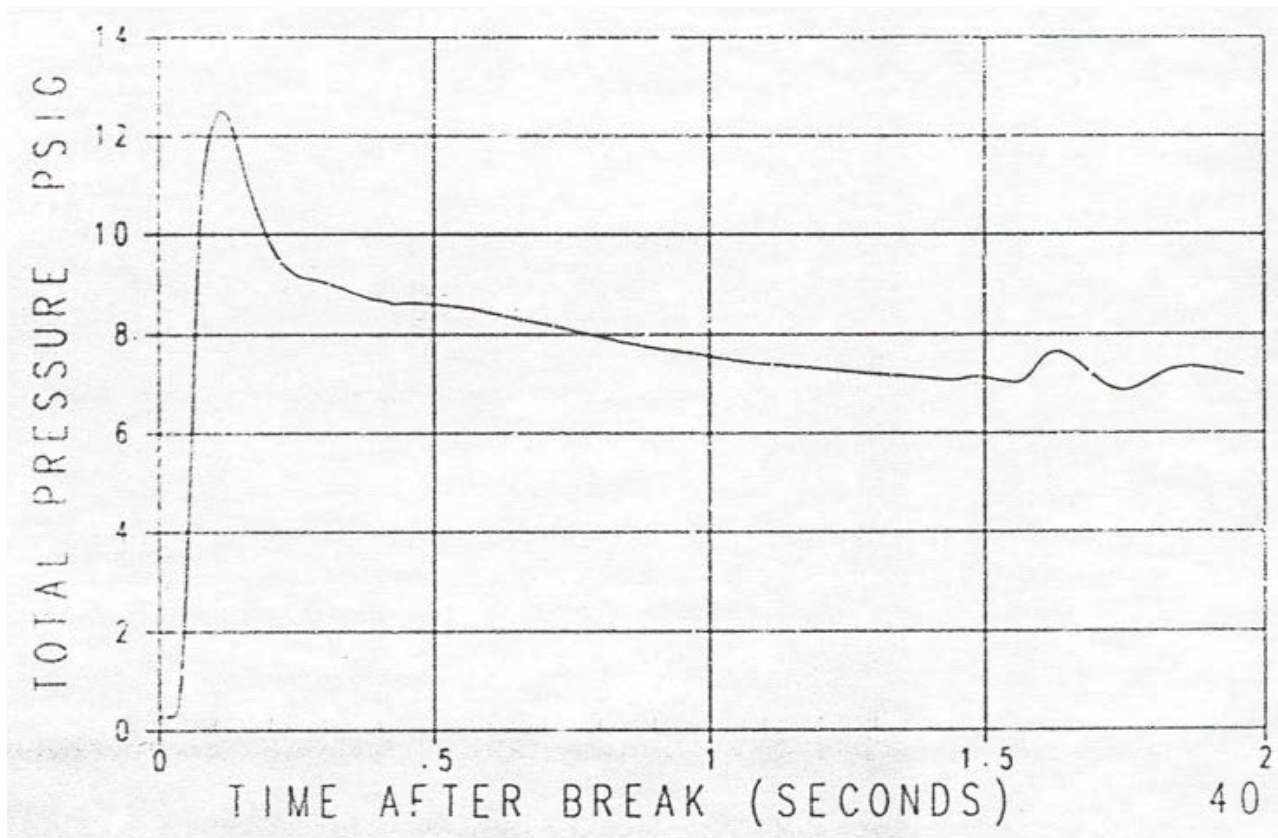
AMERICAN ELECTRIC POWER  
 COOK NUCLEAR PLANT  
 NUCLEAR GENERATION GROUP  
 BRIDGMAN, MICHIGAN

Title: **Cook Unit 1 & 2  
 Pressure Time History in the Lower Plenum of  
 the Ice Condenser**

UFSAR Figure: **14.3.4-120**

Sheet 1 of 1





(When using this figure, the differential pressure time history should be increased by a factor 1.15 psi .)

Revision: **17.1**

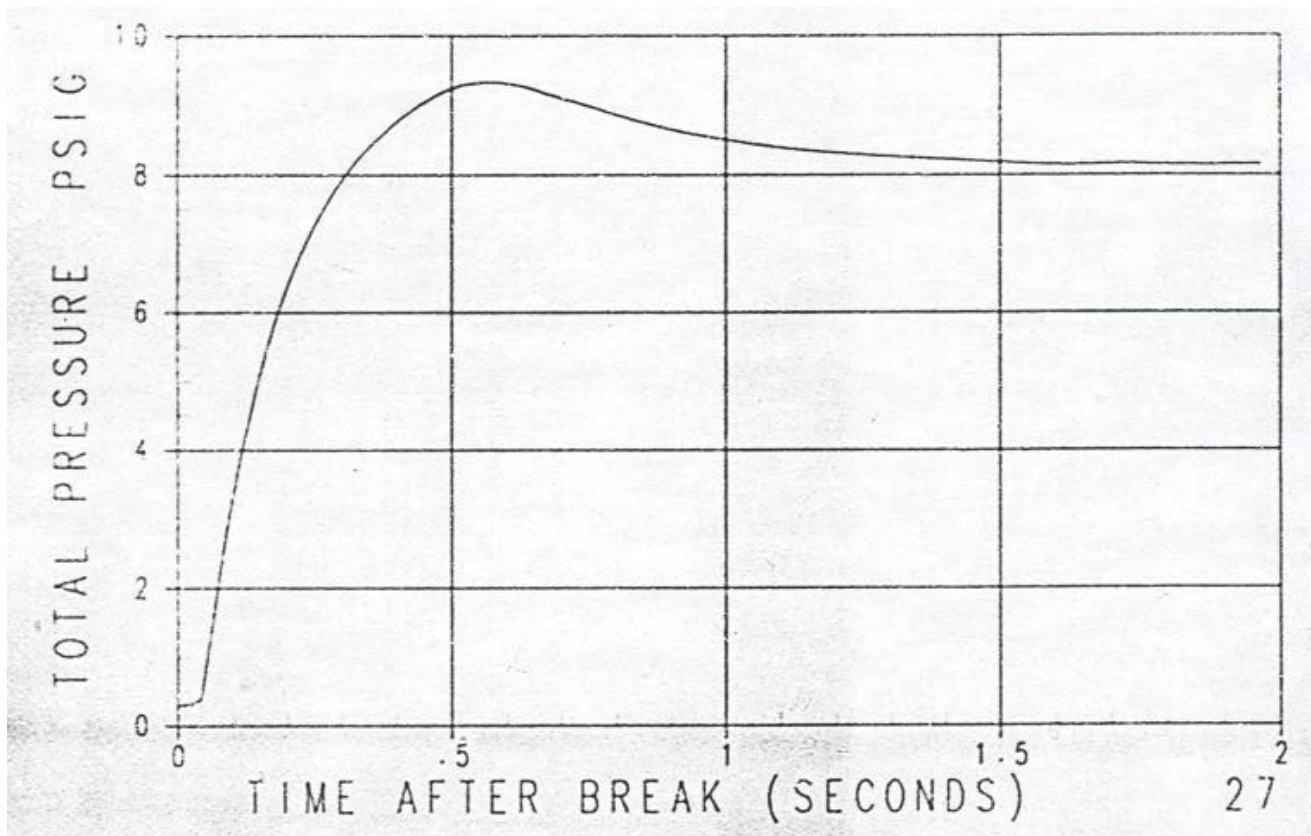
Change Description: **UCR-850**

AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN

Title: **Cook Unit 1 & 2  
Pressure Time History in the Lower Plenum of  
the Ice Condenser**

UFSAR Figure: **14.3.4-121**

Sheet 1 of 1



(When using this figure, the differential pressure time history should be increased by a factor 1.15 psi .)

Revision: **17.1**

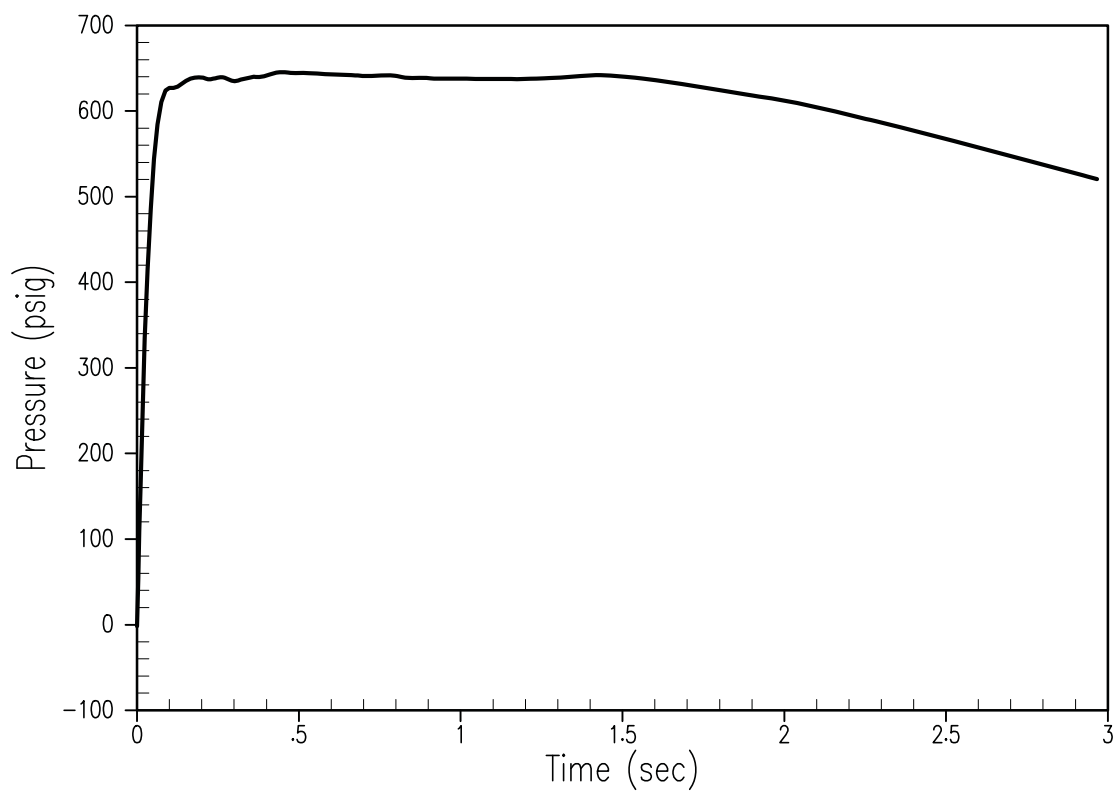
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History in the Fan / Accumulator Room**

UFSAR Figure: **14.3.4-122**

Sheet 1 of 1



Revision: **17.1**

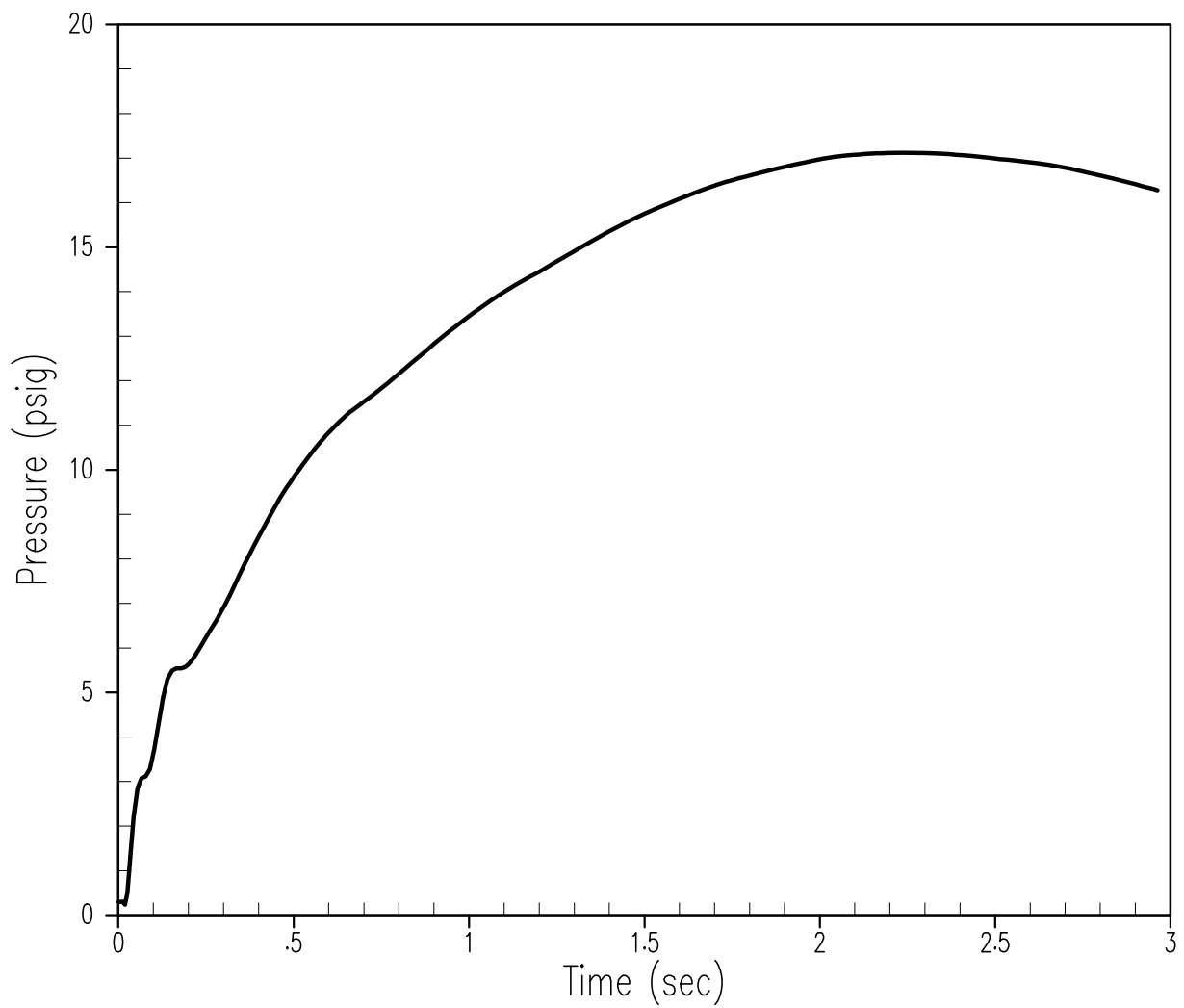
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Reactor Cavity Subcompartment**

UFSAR Figure: **14.3.4-123**

Sheet 1 of 1



Revision: **17.1**

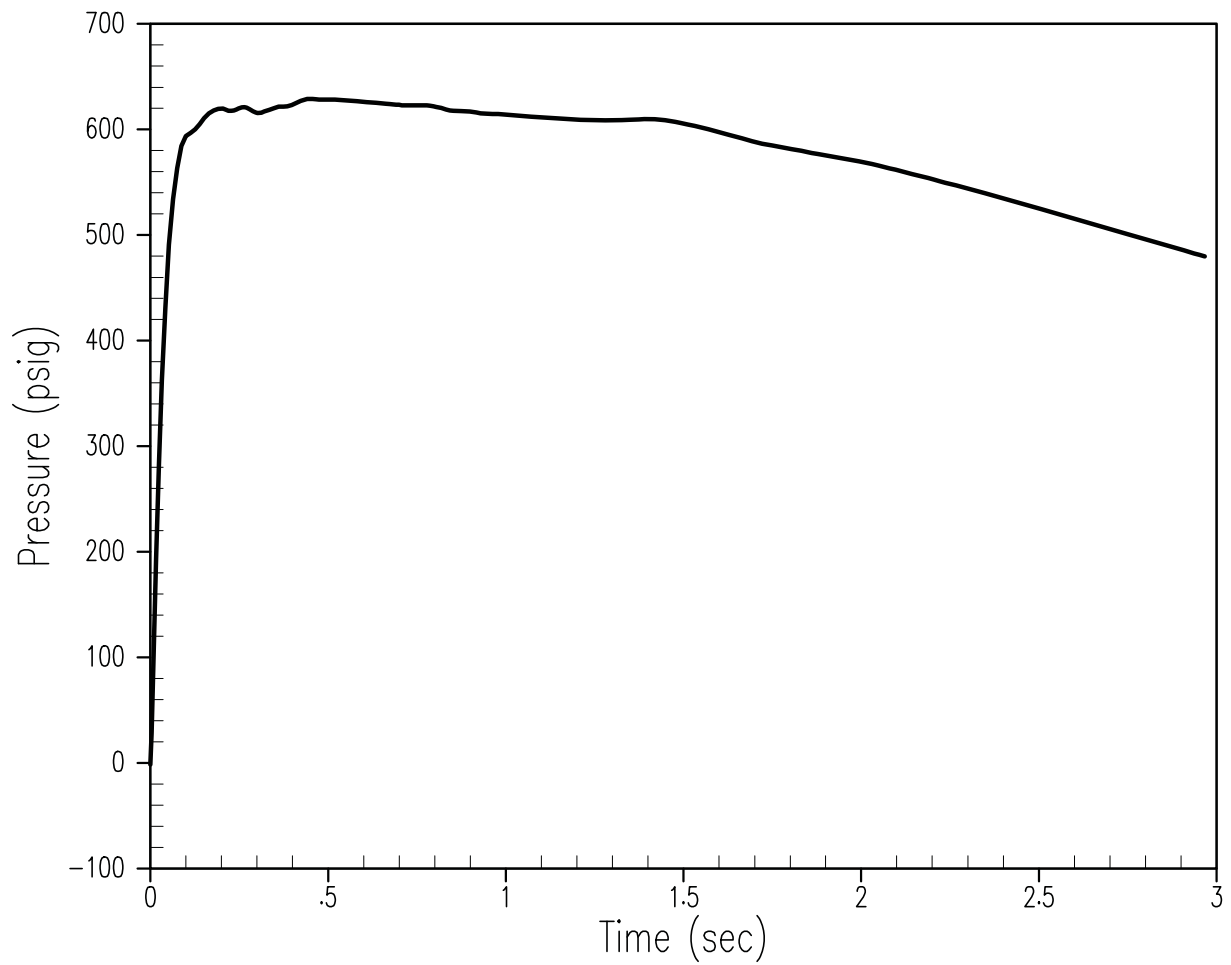
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Reactor Cavity Subcompartment**

UFSAR Figure: **14.3.4-124**

Sheet 1 of 1



Revision: **17.1**

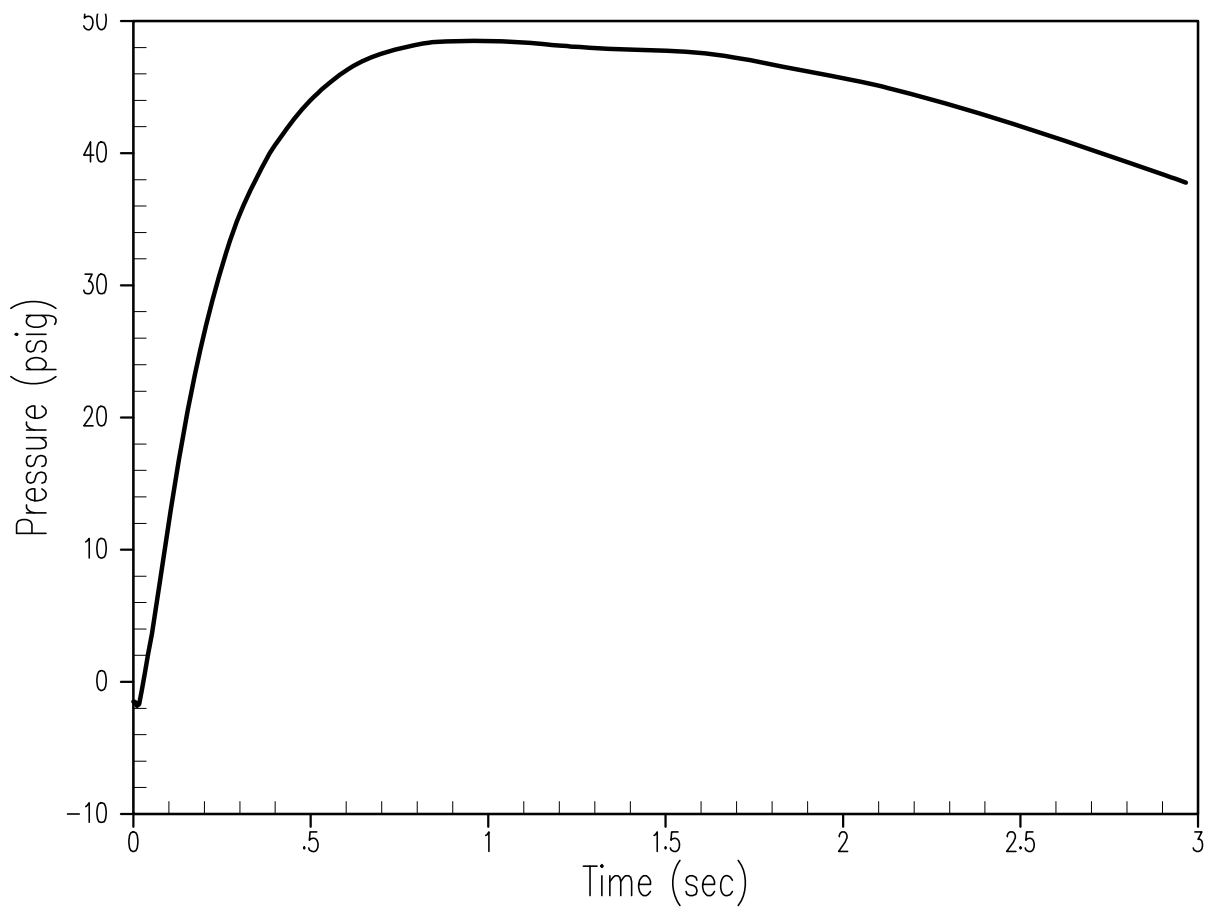
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Reactor Cavity Subcompartment**

UFSAR Figure: **14.3.4-125**

Sheet 1 of 1



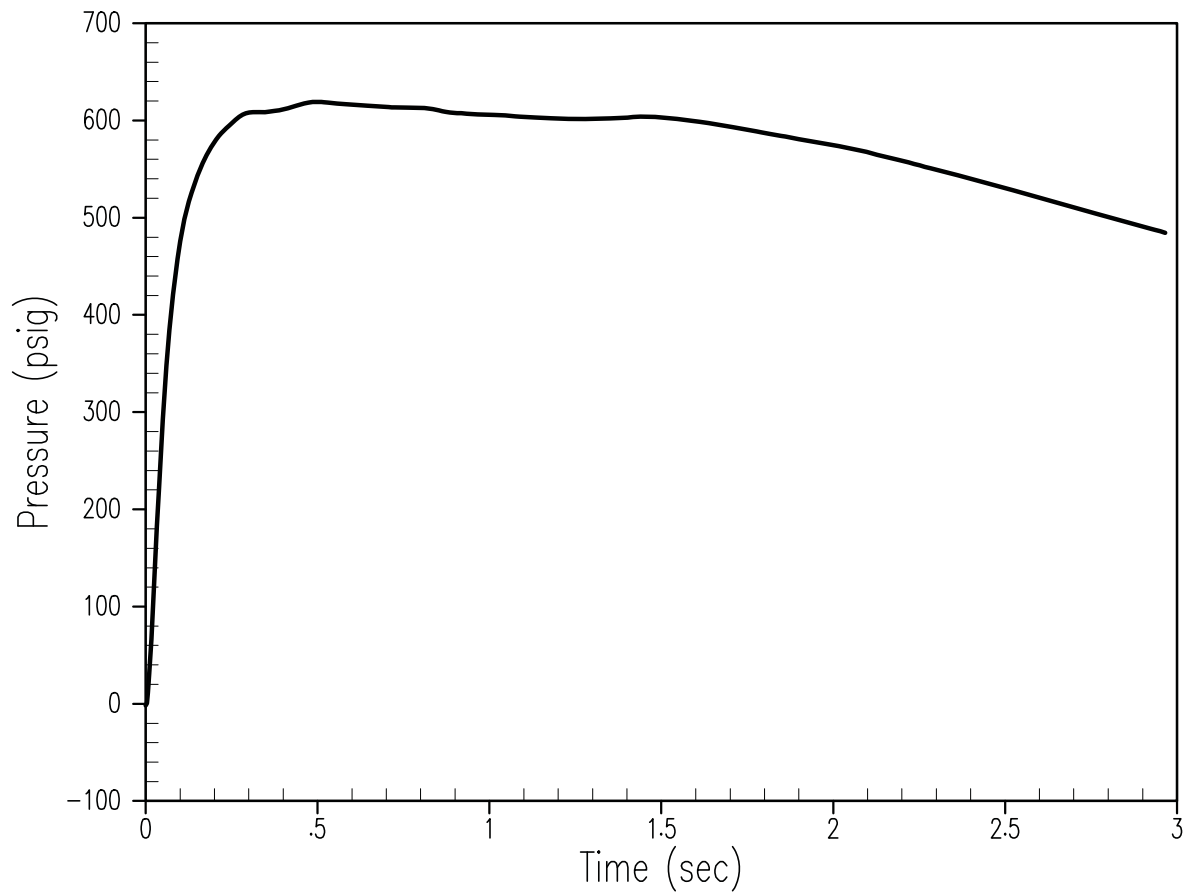
Revision: **17.1**      Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Reactor Cavity Subcompartment**

UFSAR Figure: **14.3.4-126**

Sheet 1 of 1



Revision: **17.1**

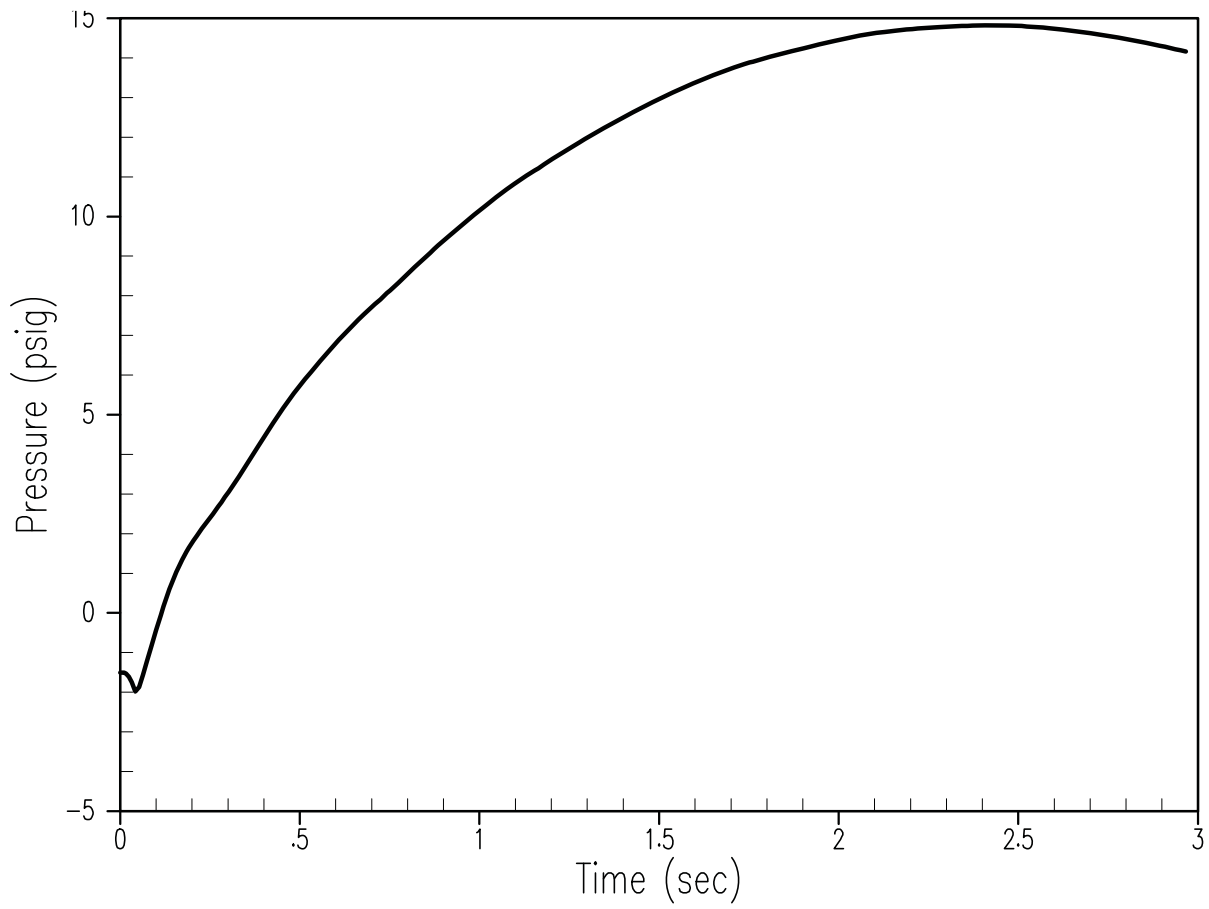
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Reactor Cavity Subcompartment**

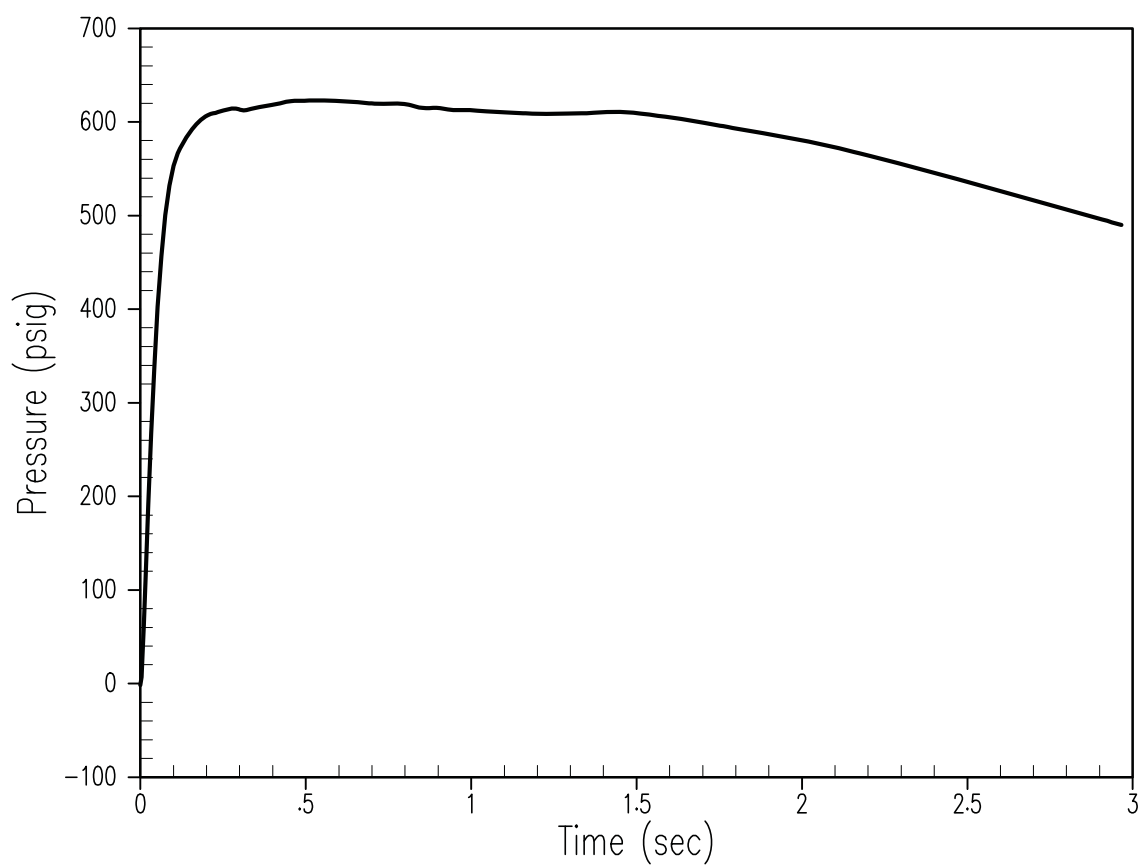
UFSAR Figure: **14.3.4-127**

Sheet 1 of 1



Revision: 17.1		Change Description: UCR-850	
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN		Title: Cook Unit 1 & 2 Pressure Time History Reactor Cavity Subcompartment	
		UFSAR Figure: 14.3.4-128	Sheet 1 of 1





Revision: **17.1**

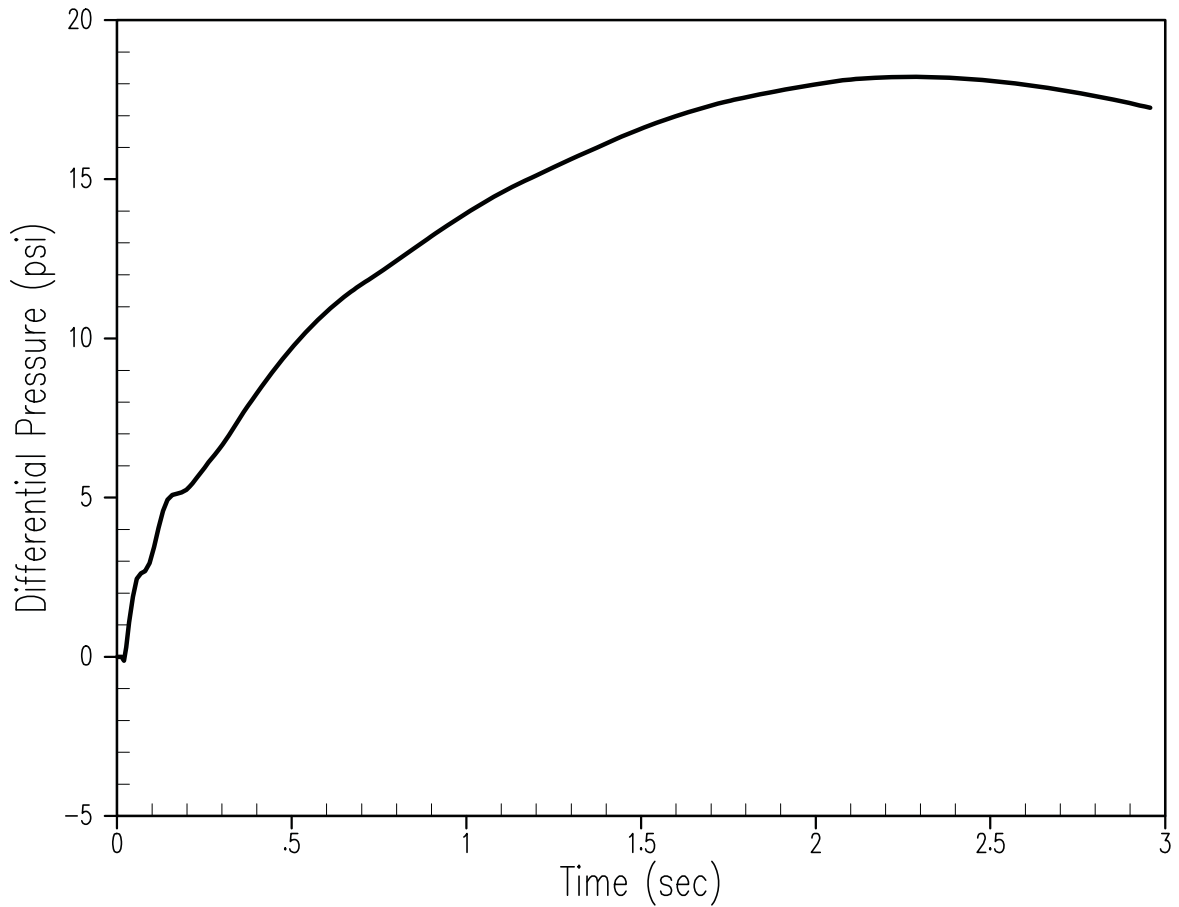
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressure Time History  
Reactor Cavity Subcompartment**

UFSAR Figure: **14.3.4-129**

Sheet 1 of 1



Revision: **17.1**

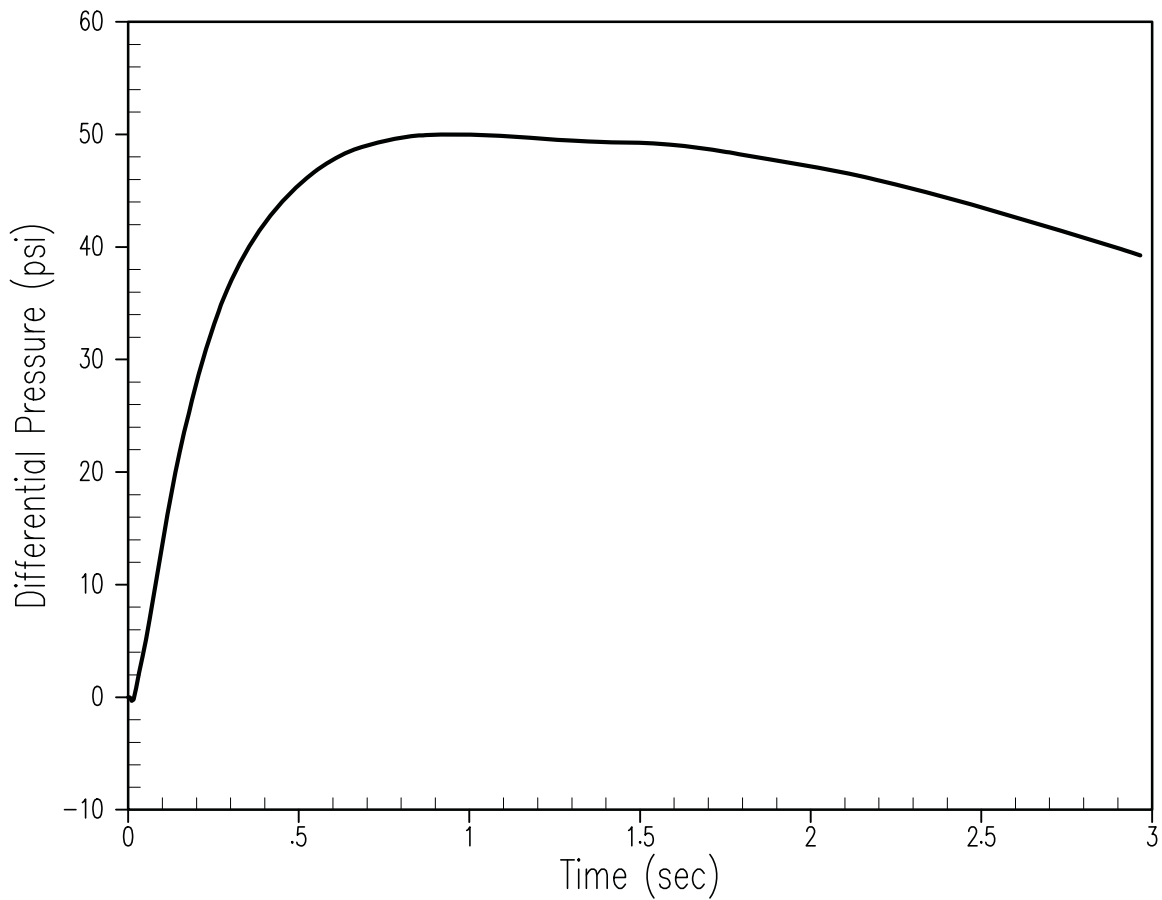
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Reactor Cavity Subcompartment**

UFSAR Figure: **14.3.4-130**

Sheet 1 of 1



Revision: **17.1**

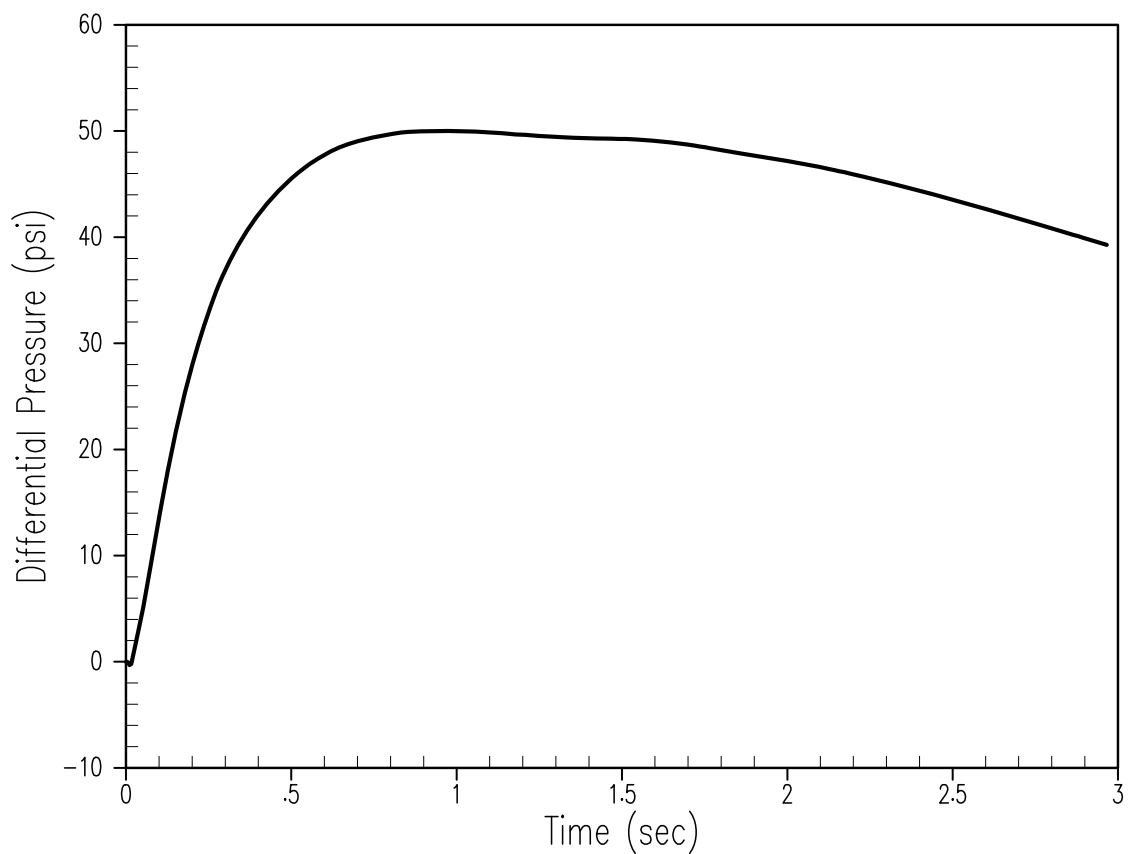
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Reactor Cavity Subcompartment**

UFSAR Figure: **14.3.4-131**

Sheet 1 of 1



“This figure is not updated because it is considered as a representative for the TMD analysis. UCR-1923 provides details for minor increase (1.6928%) in operating deck accident pressure”.

Revision: **22.1**

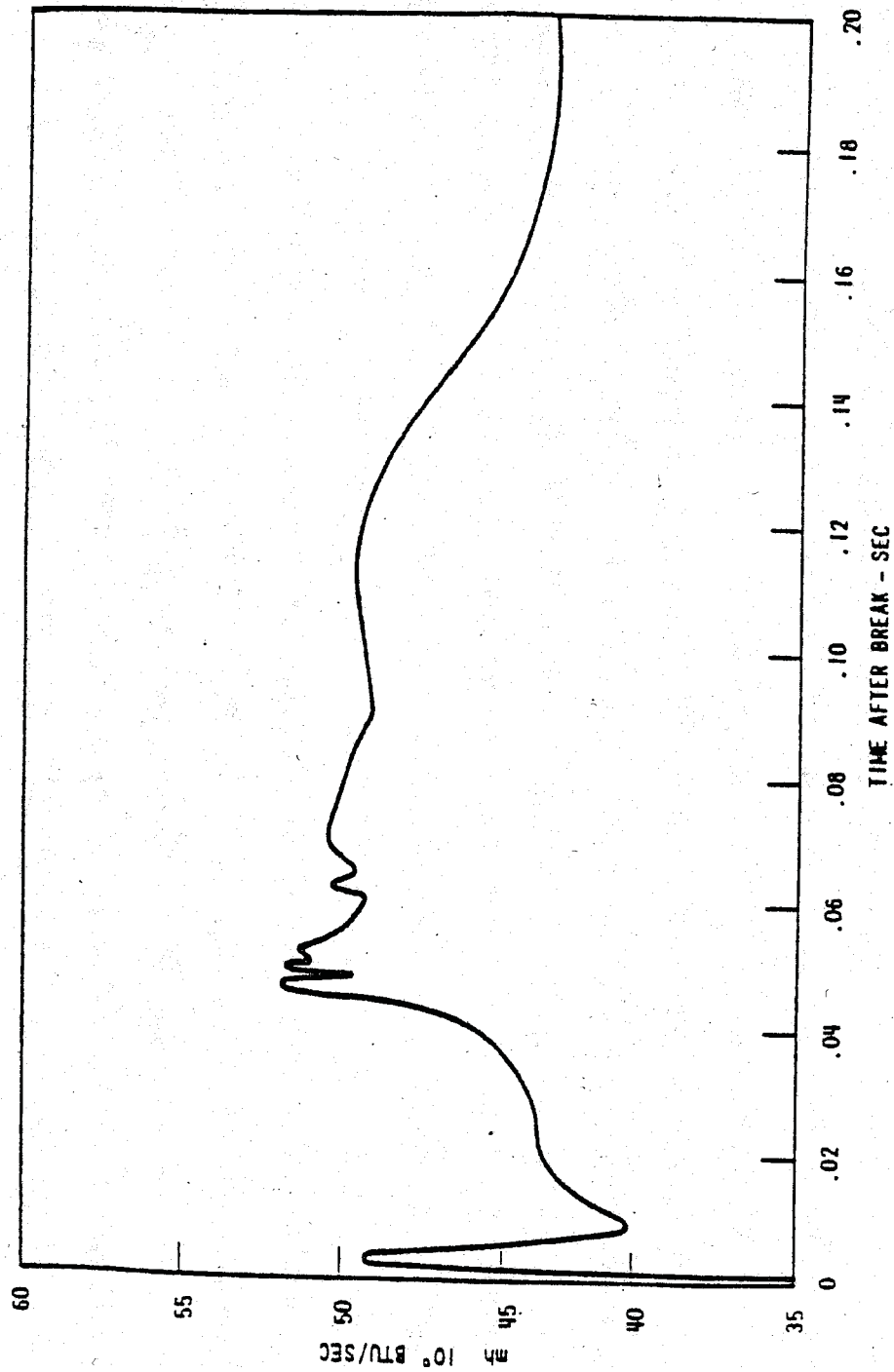
Change Description: **UCR-1923**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Reactor Cavity Subcompartment**

UFSAR Figure: **14.3.4-132**

Sheet 1 of 1



Revision: **17.1**

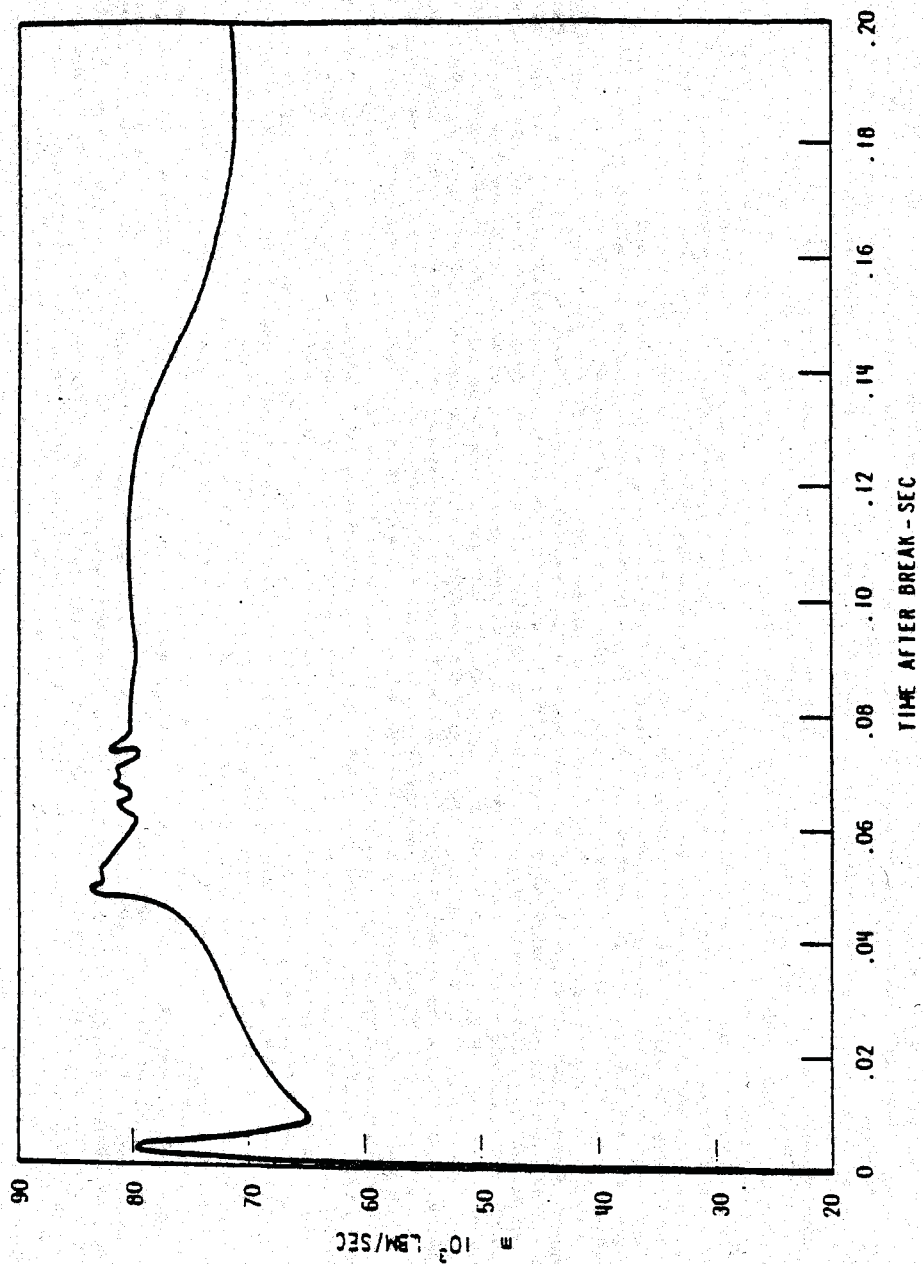
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Hot Leg Double Ended Guillotine Full Power mh  
Transient**

UFSAR Figure: **14.3.4-133**

Sheet 1 of 1



Revision: **17.1**

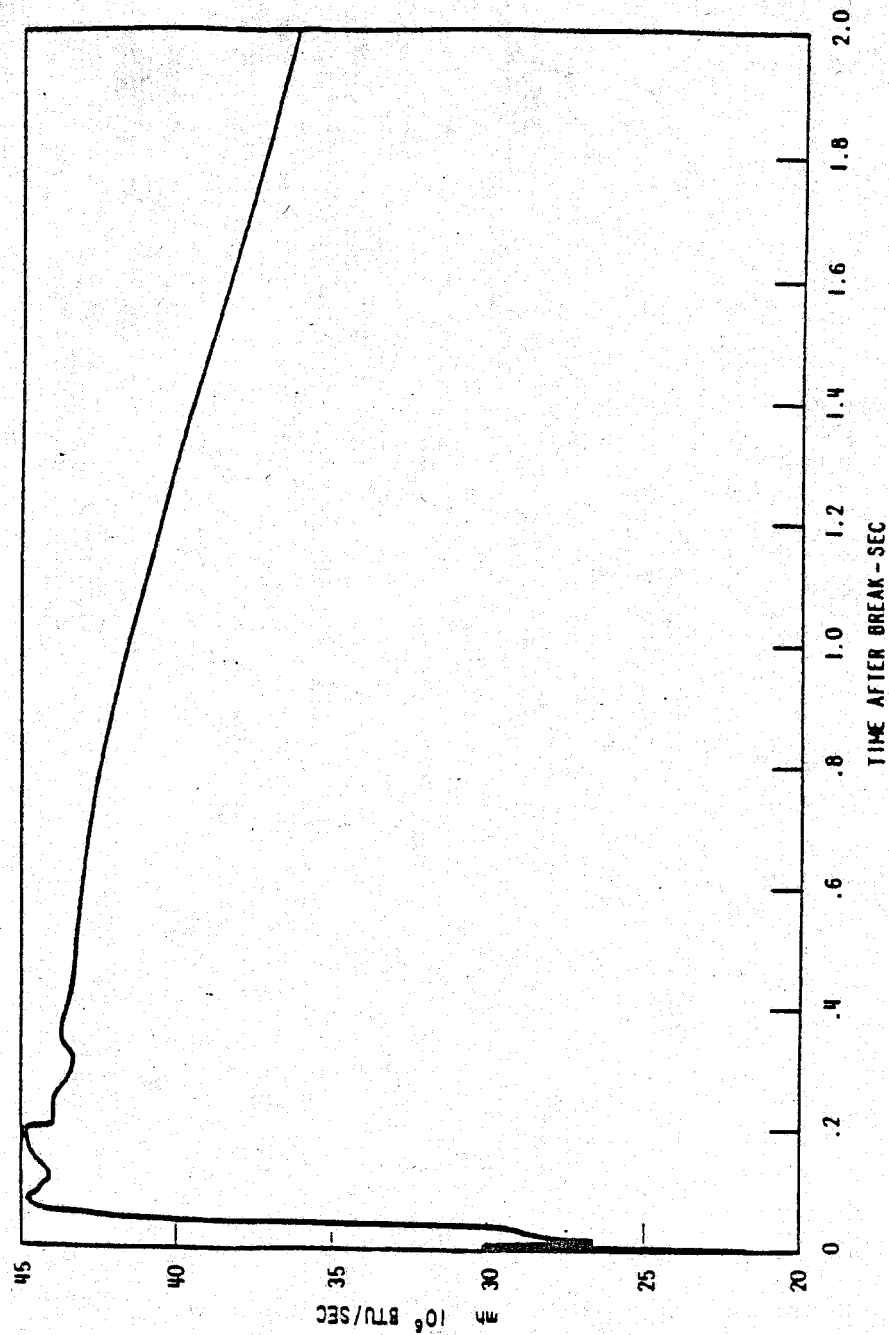
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Hot Leg Double Ended Guillotine Full Power m  
Transient**

UFSAR Figure: **14.3.4-134**

Sheet 1 of 1



Revision: **17.1**

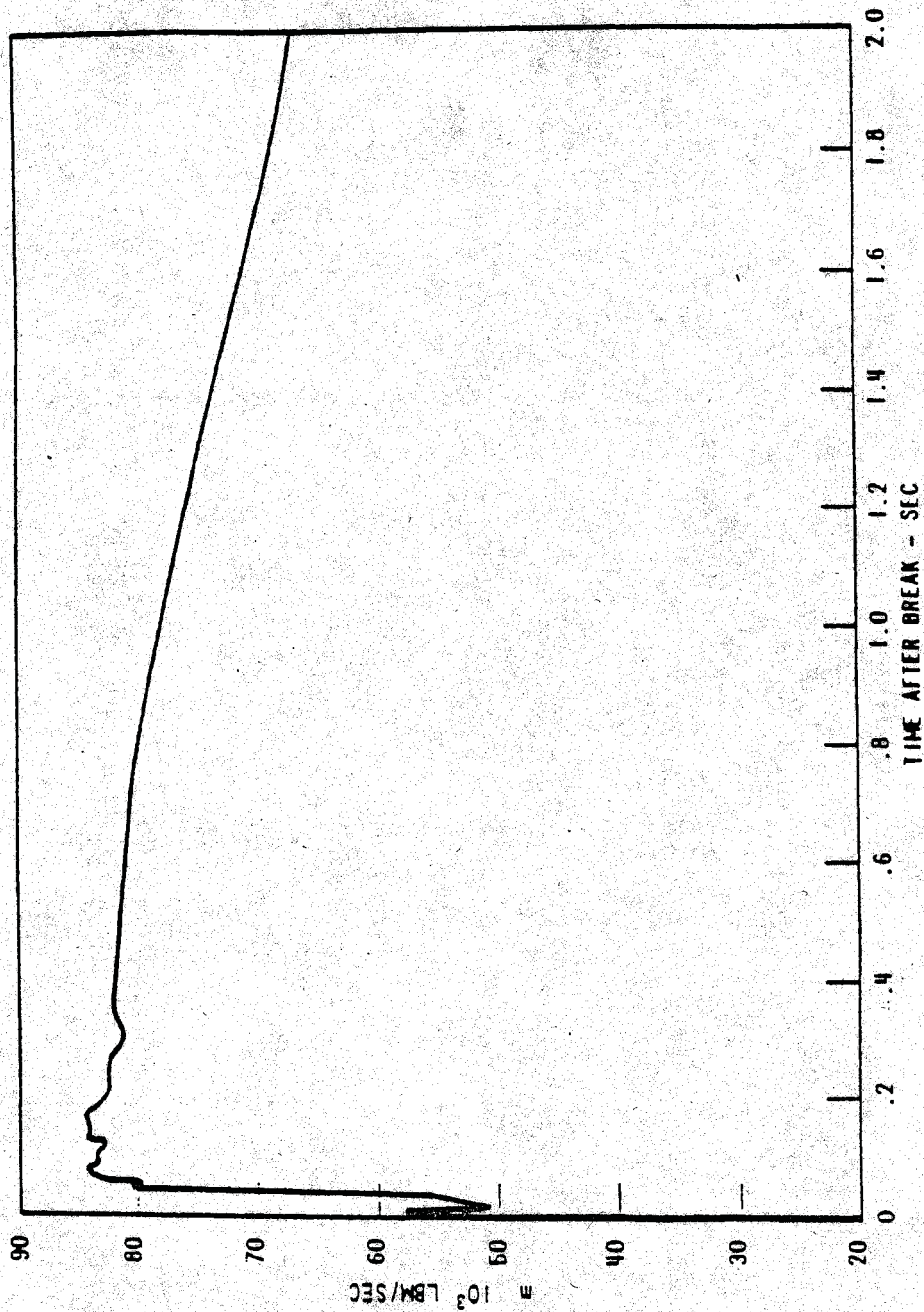
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cold Leg Double Ended Guillotine Full Power  
Condition mh Transient**

UFSAR Figure: **14.3.4-135**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

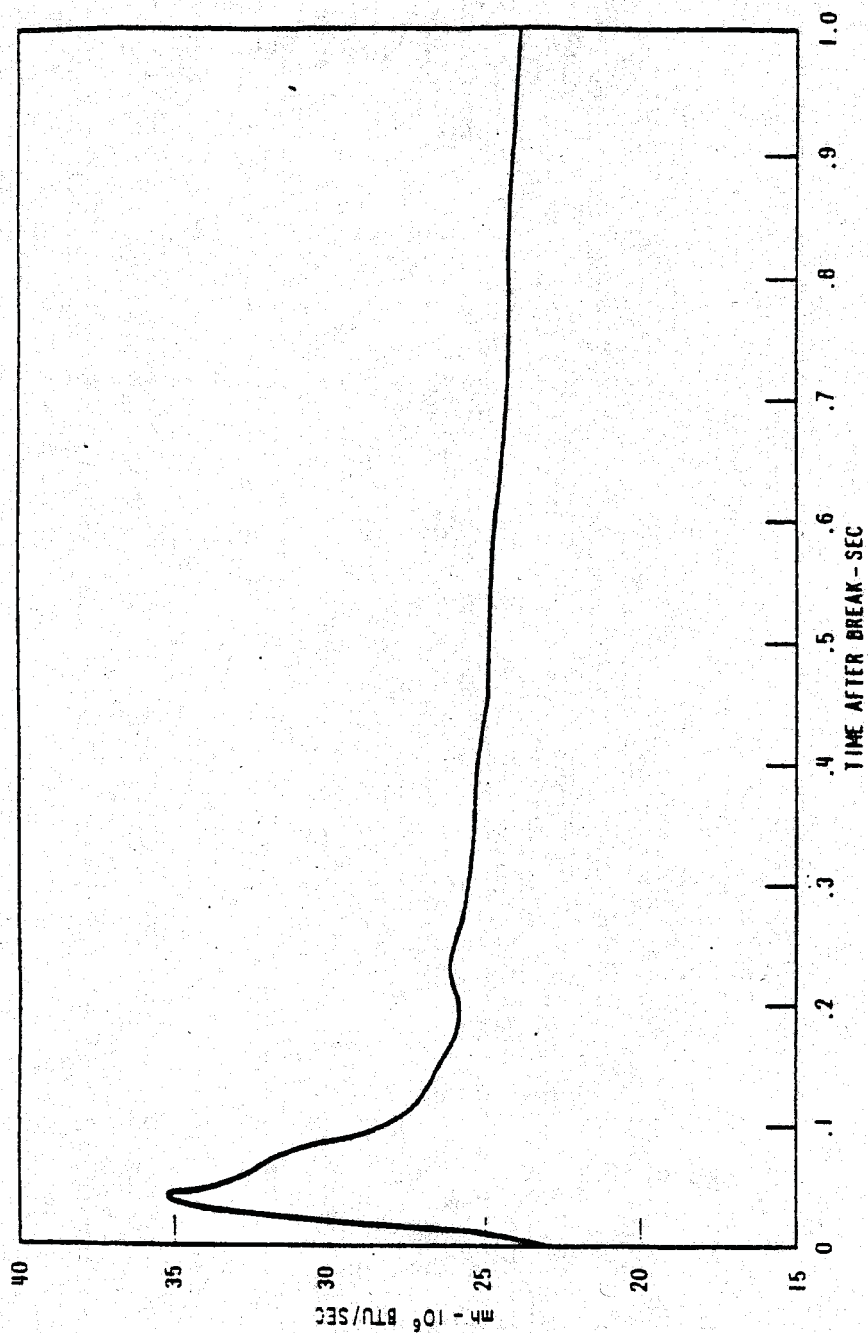
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cold Leg Double Ended Guillotine Full Power  
Condition m Transient**

UFSAR Figure: **14.3.4-136**

Sheet 1 of 1





Revision: **17.1**

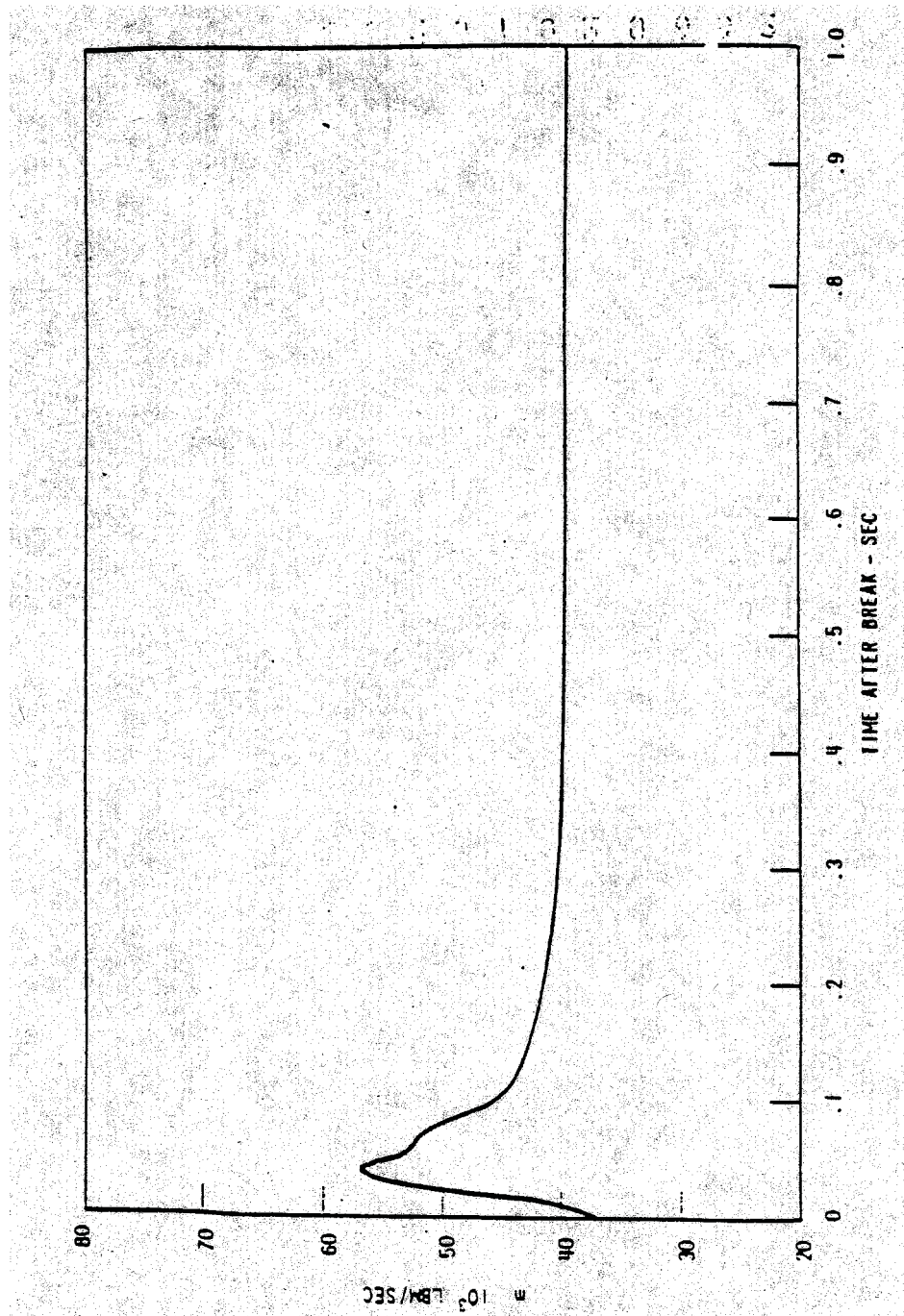
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Hot Leg Single Ended Split Full Power Condition  
mh Transient**

UFSAR Figure: **14.3.4-137**

Sheet 1 of 1



Revision: **17.1**

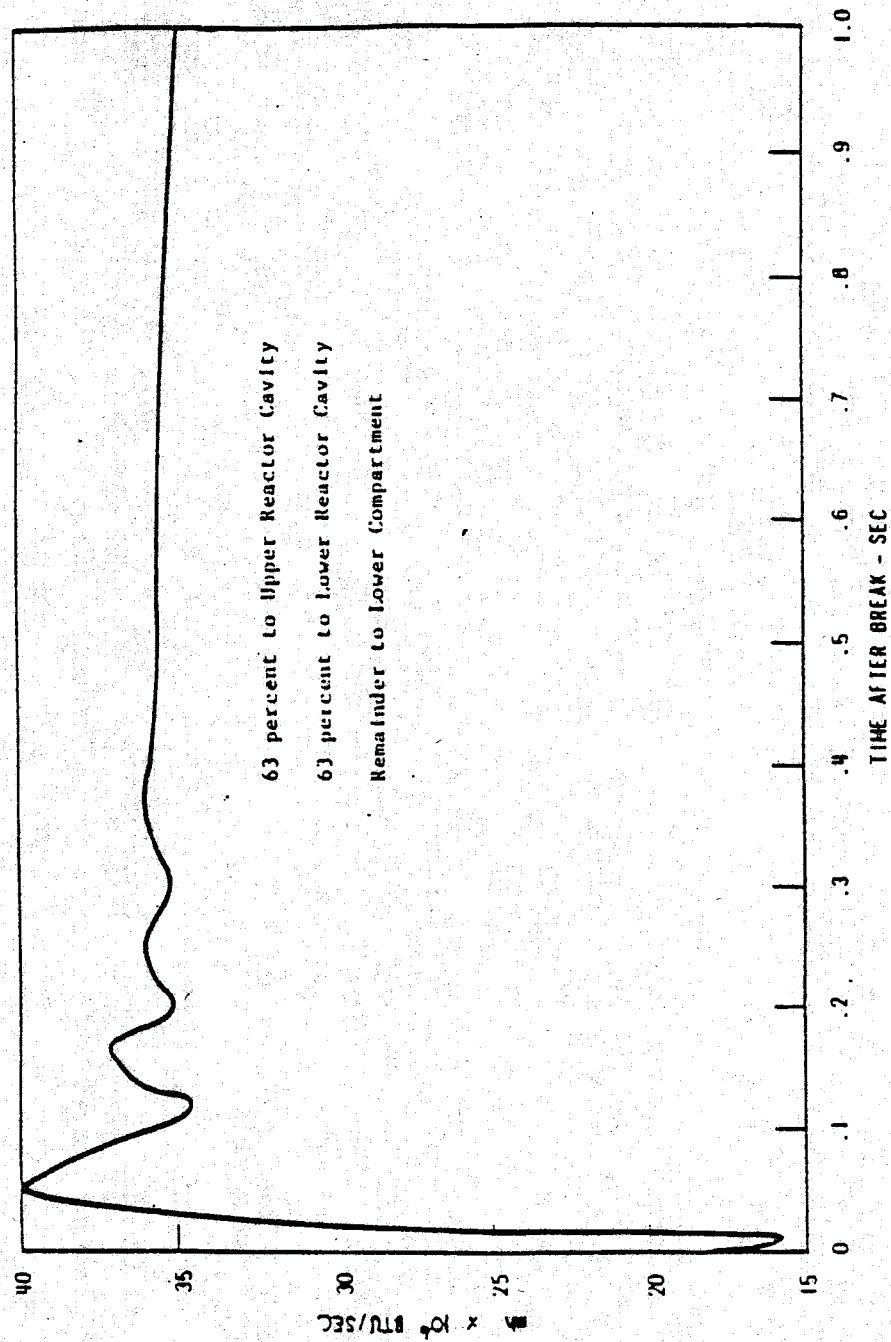
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Hot Leg Single Ended Split Full Power Condition  
m Transient**

UFSAR Figure: **14.3.4-138**

Sheet 1 of 1



Revision: **17.1**

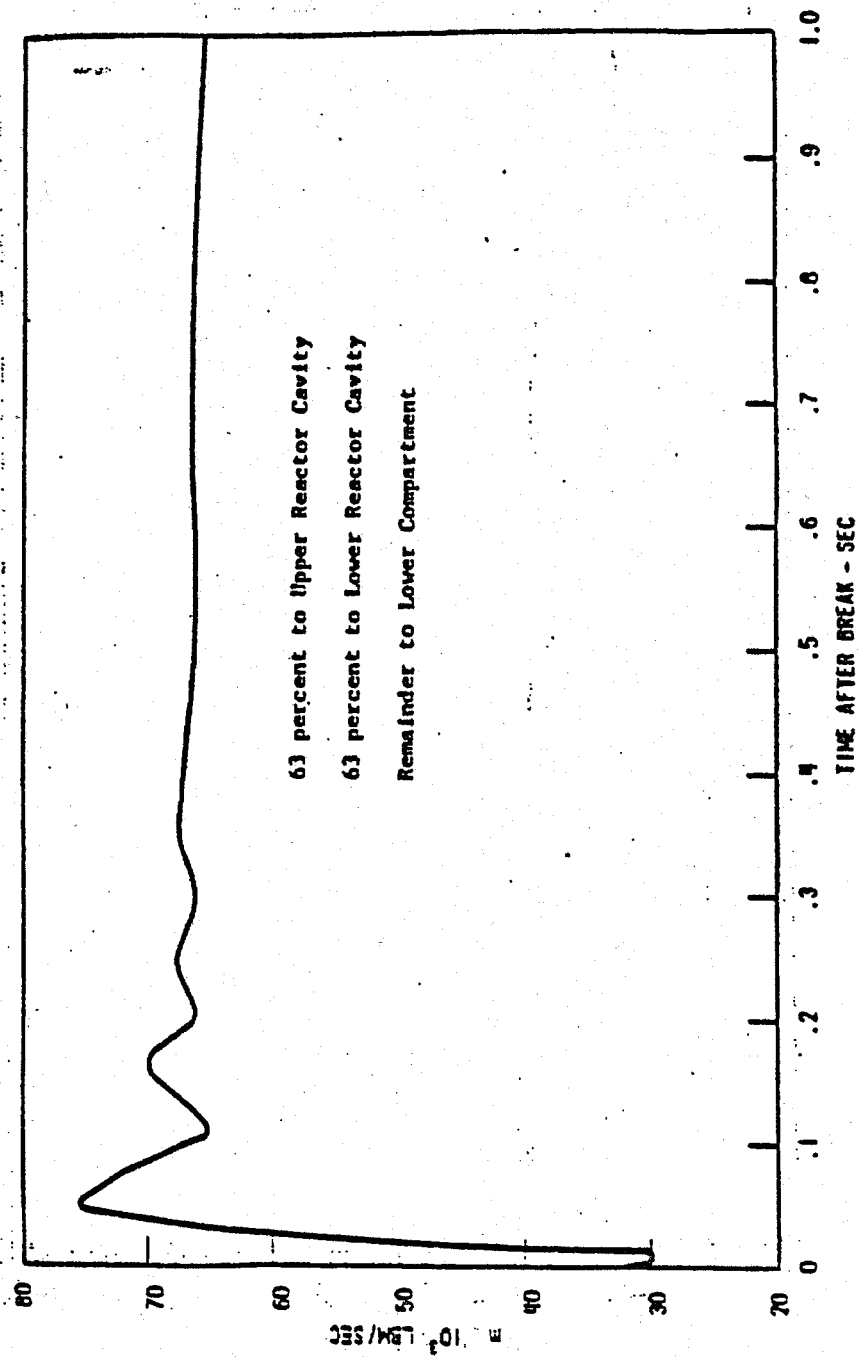
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
 COOK NUCLEAR PLANT  
 NUCLEAR GENERATION GROUP  
 BRIDGMAN, MICHIGAN**

Title: **Cold Leg Single Ended Split Full Power mh  
 Transient**

UFSAR Figure: **14.3.4-139**

Sheet 1 of 1



Revision: **17.1**

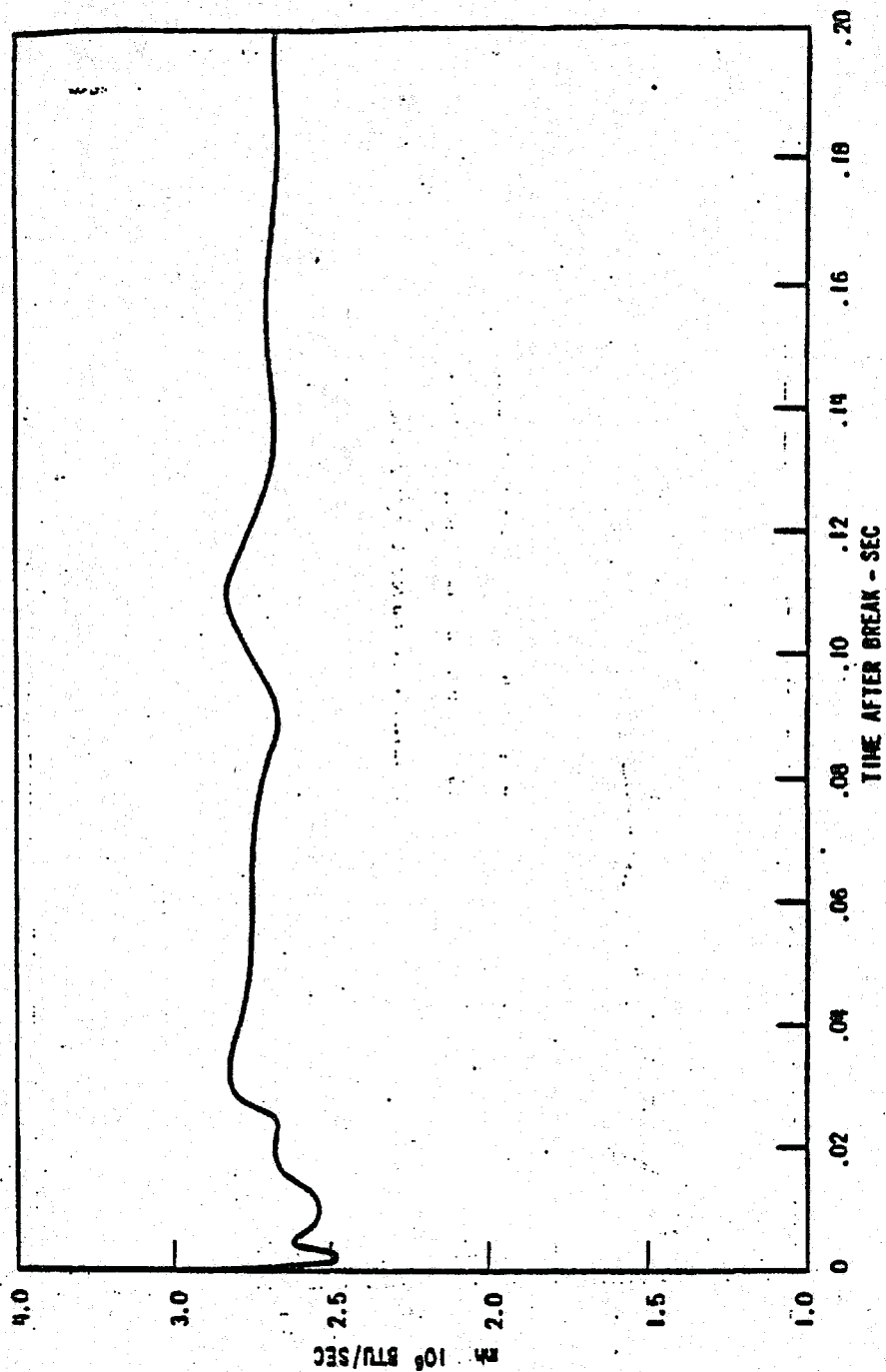
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
 COOK NUCLEAR PLANT  
 NUCLEAR GENERATION GROUP  
 BRIDGMAN, MICHIGAN**

Title: **Cold Leg Single Ended Split Full Power m  
 Transient**

UFSAR Figure: **14.3.4-140**

Sheet 1 of 1



Revision: **17.1**

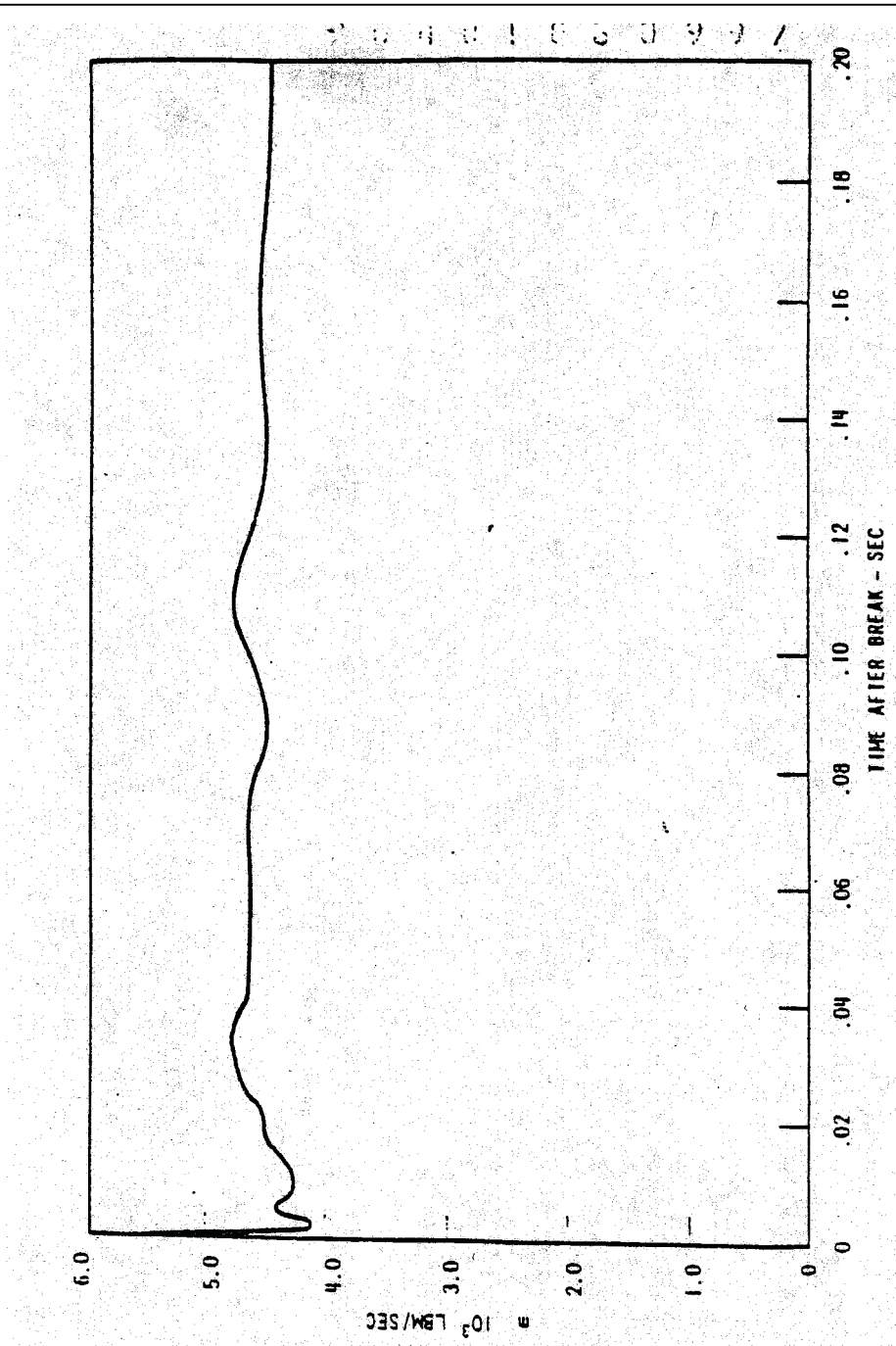
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

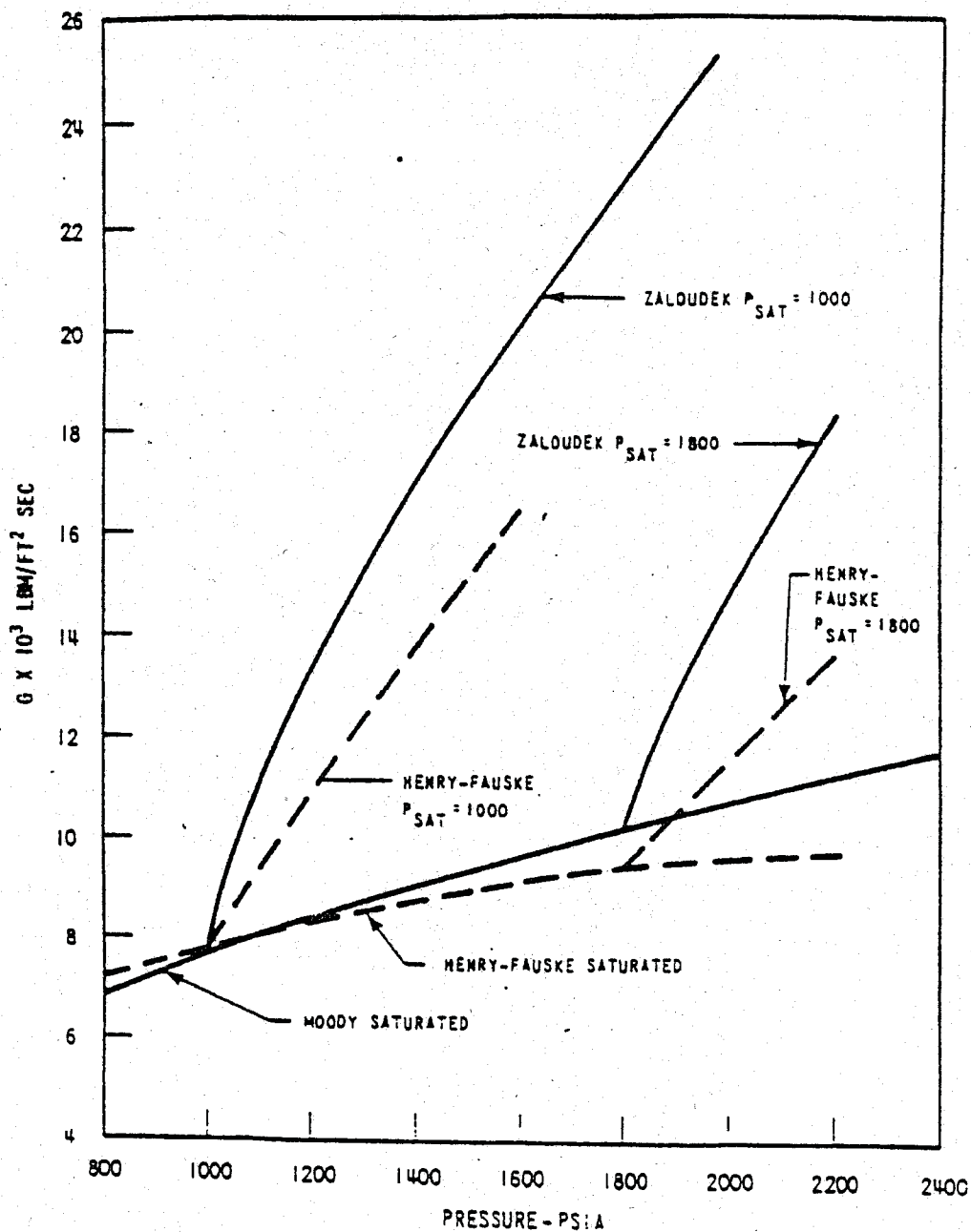
Title: **Pressurizer Spray Line mh Transient**

UFSAR Figure: **14.3.4-141**

Sheet 1 of 1



Revision: 17.1	Change Description: UCR-850		
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN		Title: Pressurizer Spray Line m Transient	
		UFSAR Figure: 14.3.4-142	Sheet 1 of 1



Revision: **17.1**

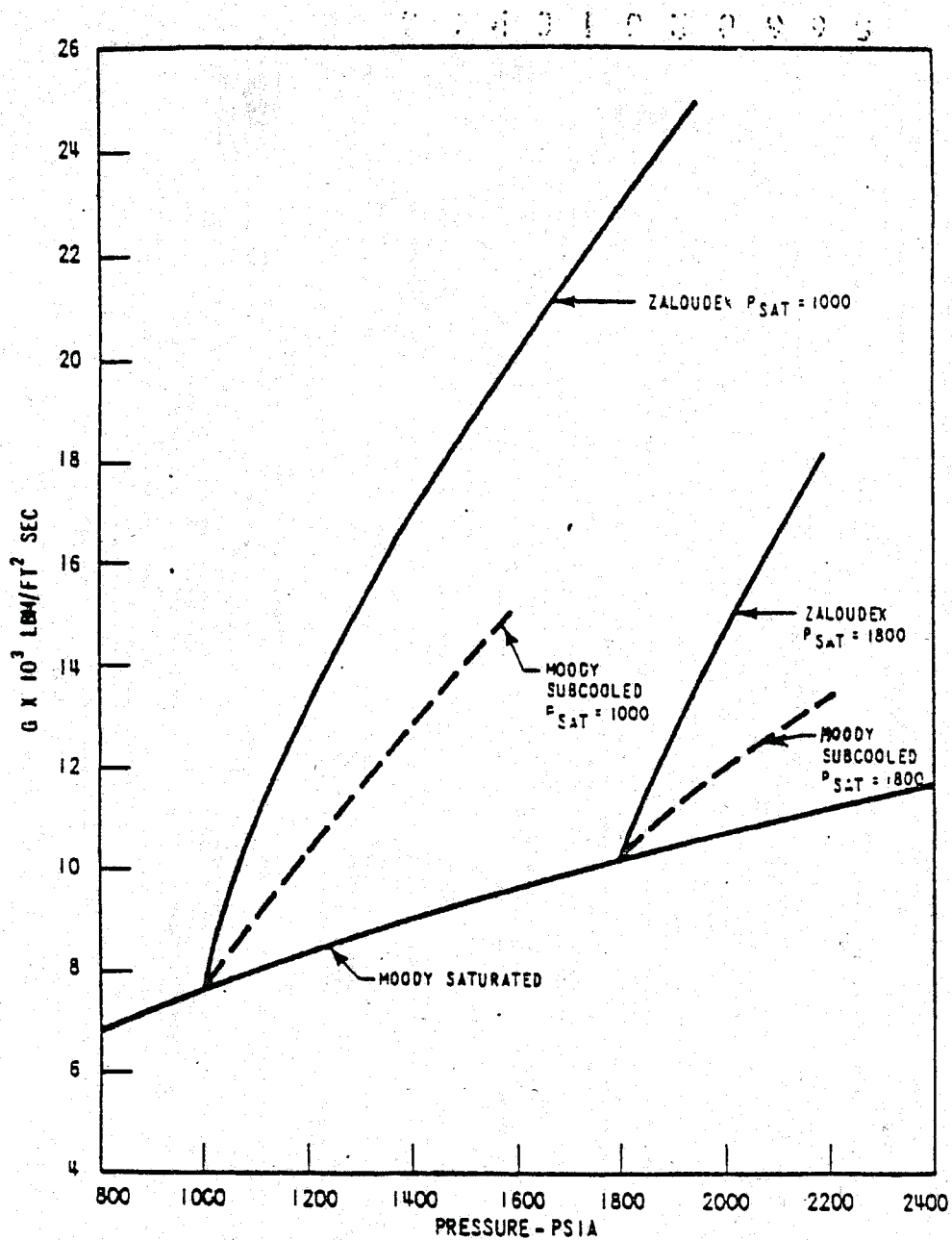
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Comparison of Satan (Zaloudek-Moody) to  
Henry-Fauske**

UFSAR Figure: **14.3.4-143**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

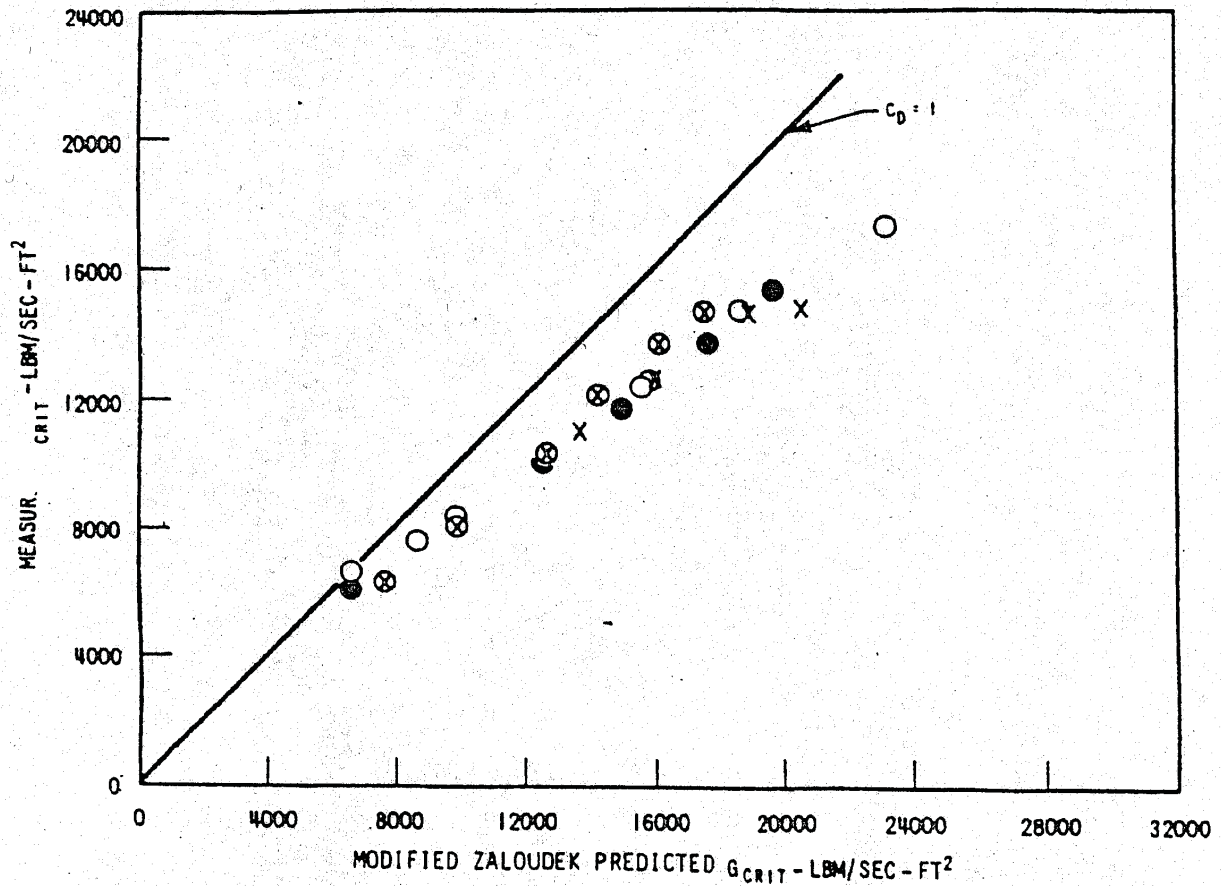
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Comparison of Satan (Zaloudek) to Moody  
Subcooled**

UFSAR Figure: **14.3.4-144**

Sheet 1 of 1





Revision: **17.1**

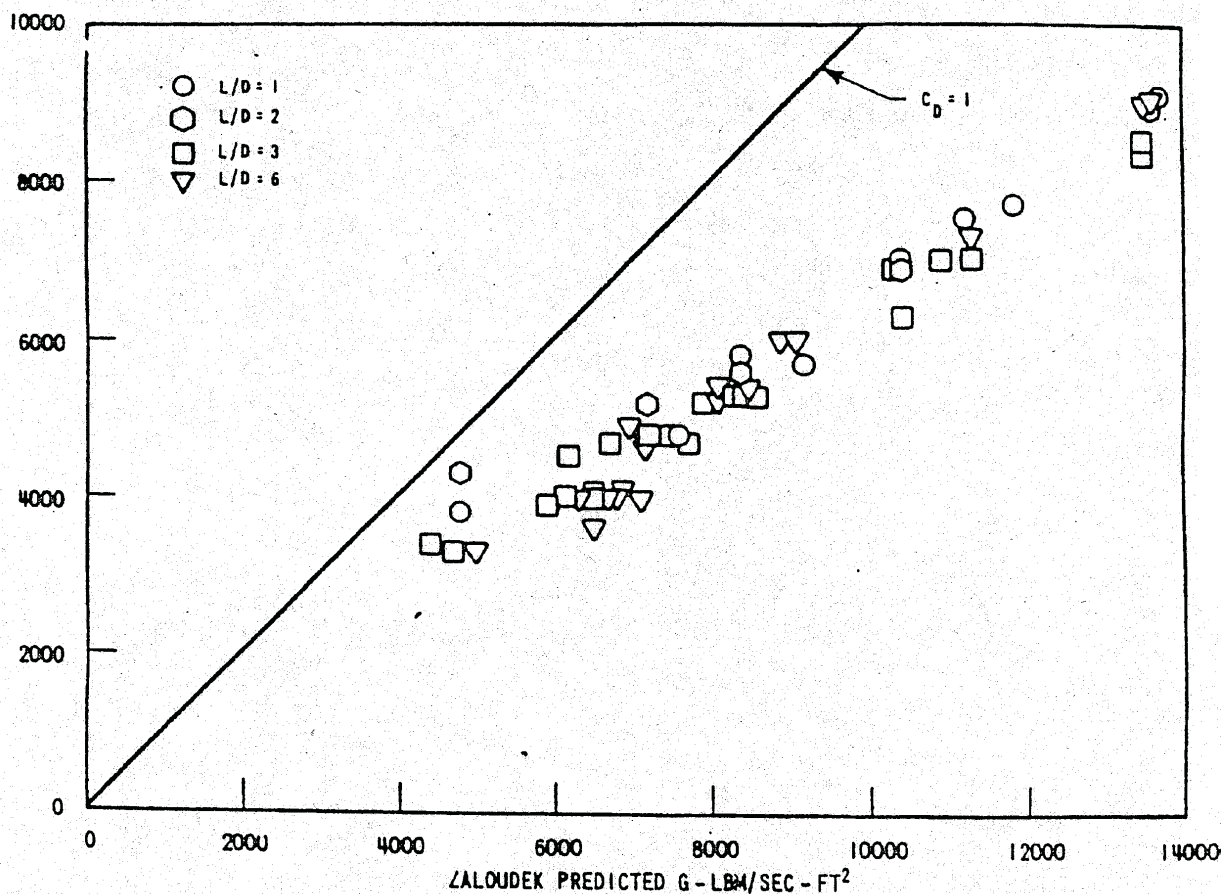
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Zaloudek Measured Data versus Modified  
Zaloudek Corp.**

UFSAR Figure: **14.3.4-145**

Sheet 1 of 1



Revision: **17.1**

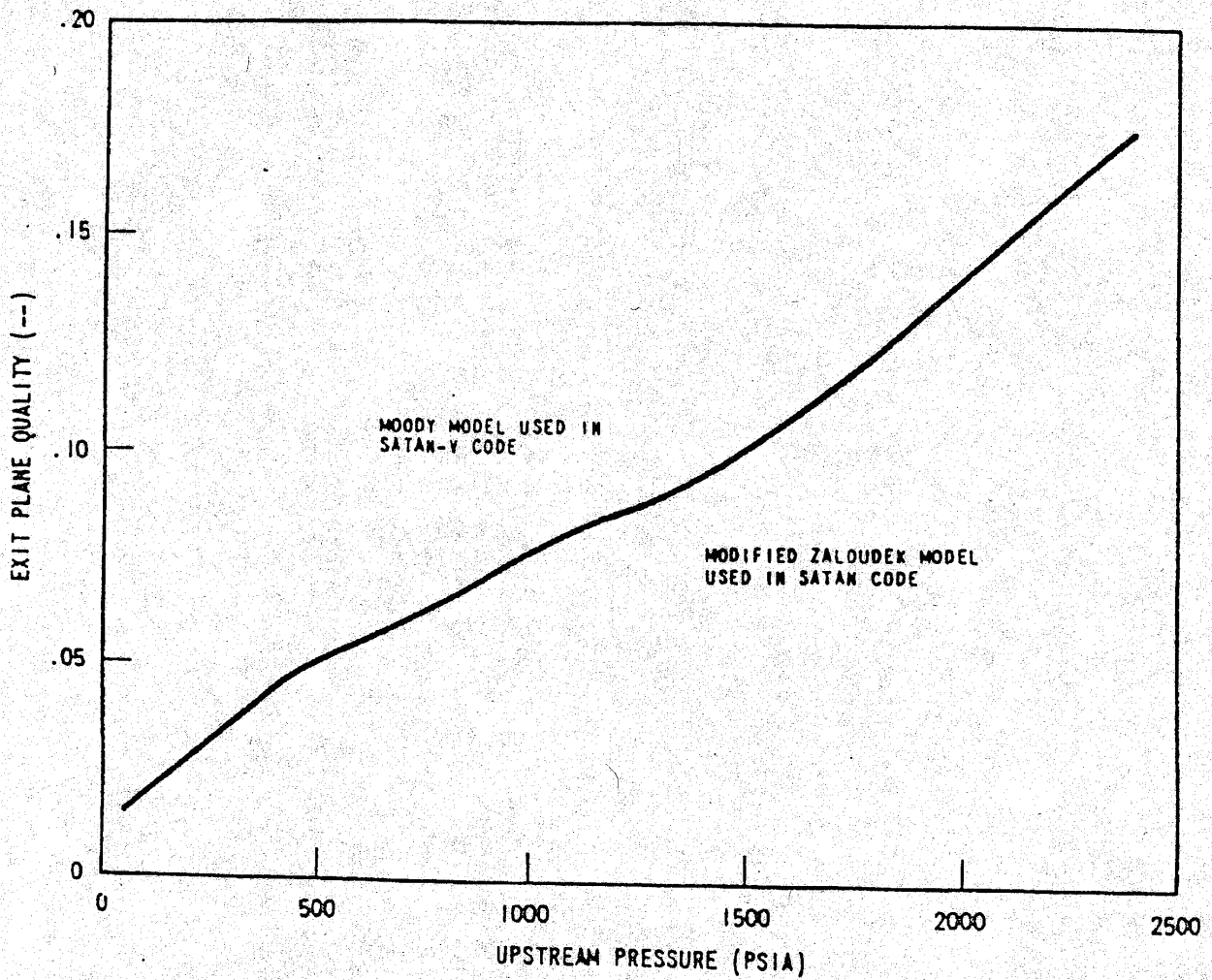
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Zaloudek Short Tube Data**

UFSAR Figure: **14.3.4-146**

Sheet 1 of 1



Revision: **17.1**

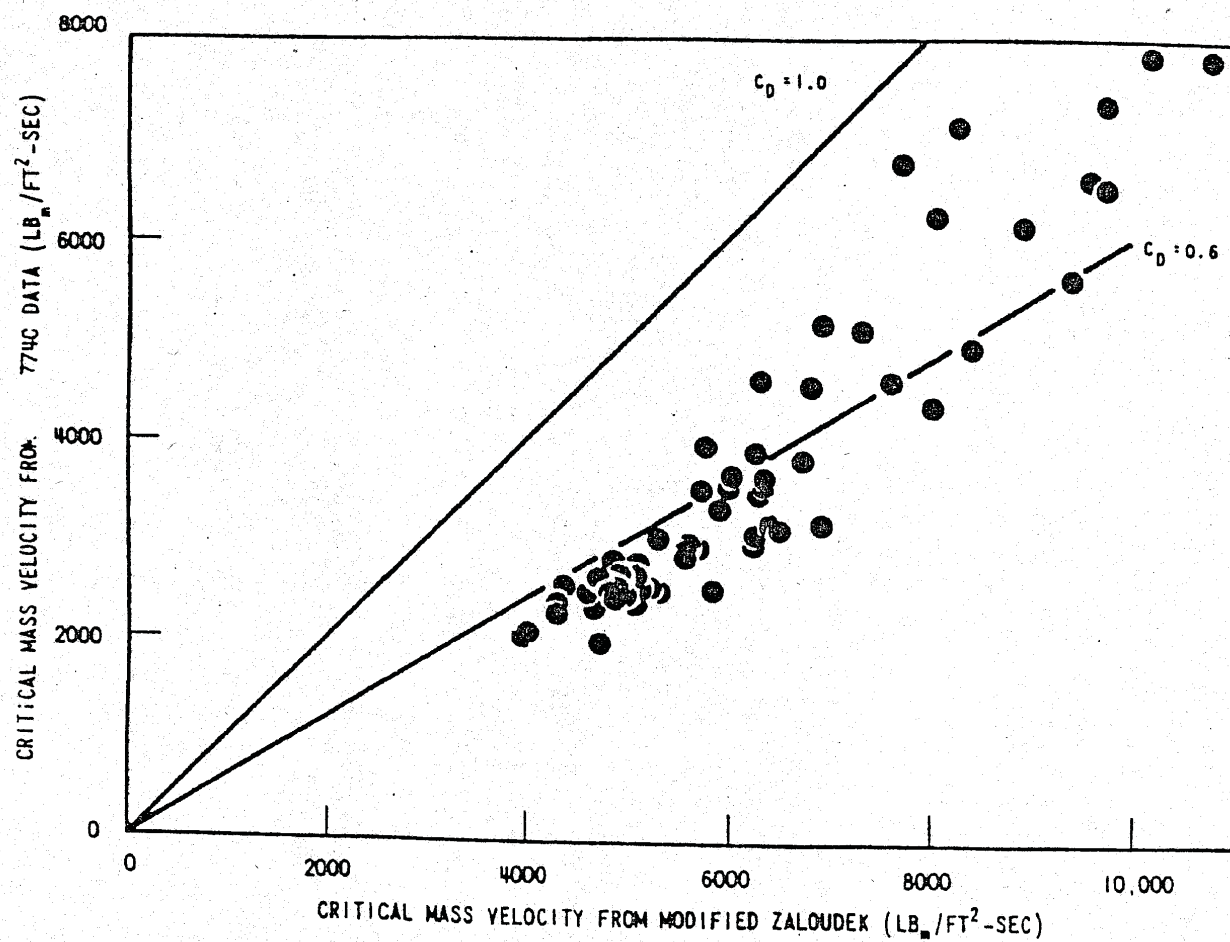
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Exit Plane Quality as a Function of Upstream  
Pressure for Saturated Liquid (Moody Model)**

UFSAR Figure: **14.3.4-147**

Sheet 1 of 1



Revision: **17.1**

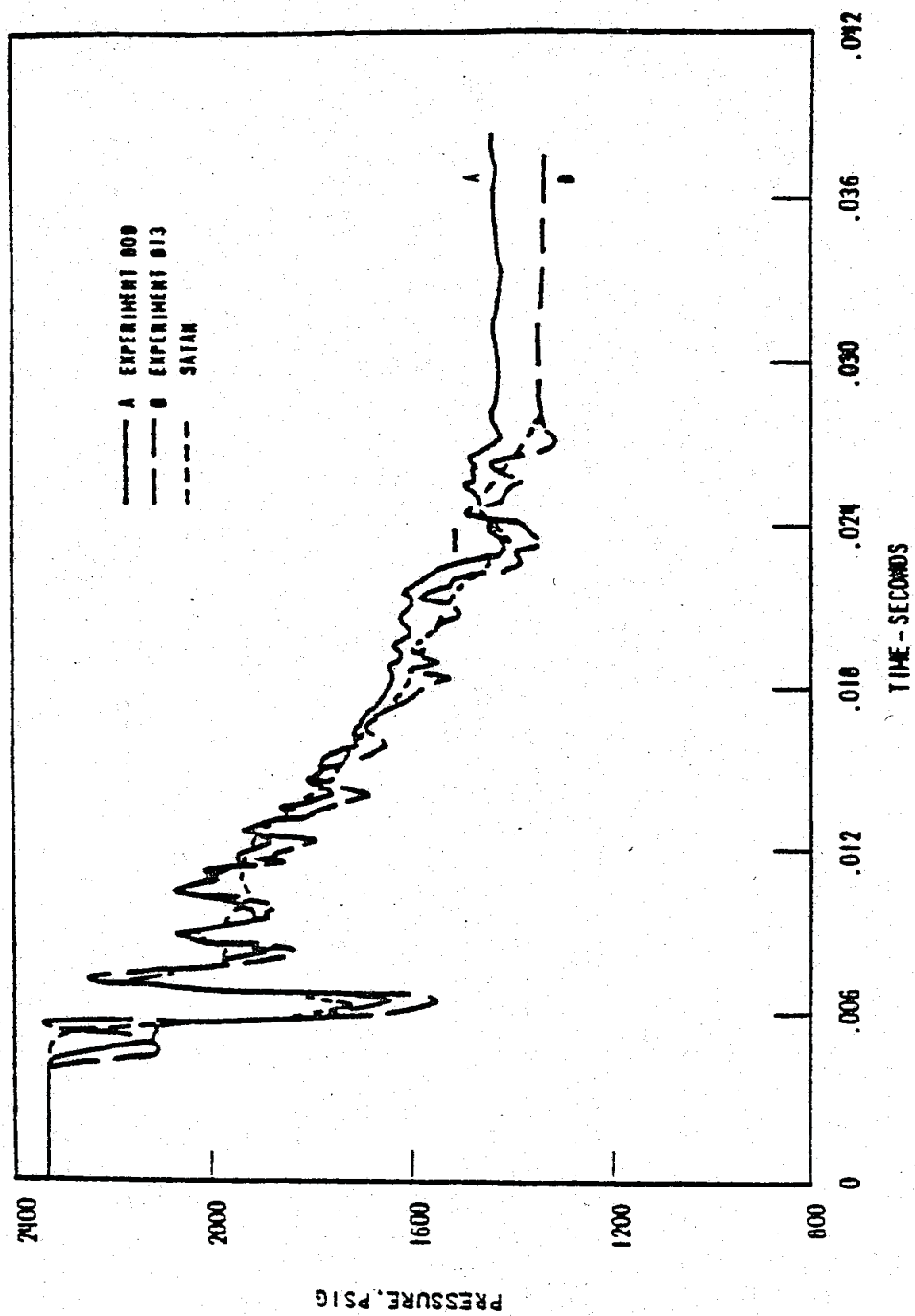
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Henry ANL 7740 Data**

UFSAR Figure: **14.3.4-148**

Sheet 1 of 1



Revision: 17.1

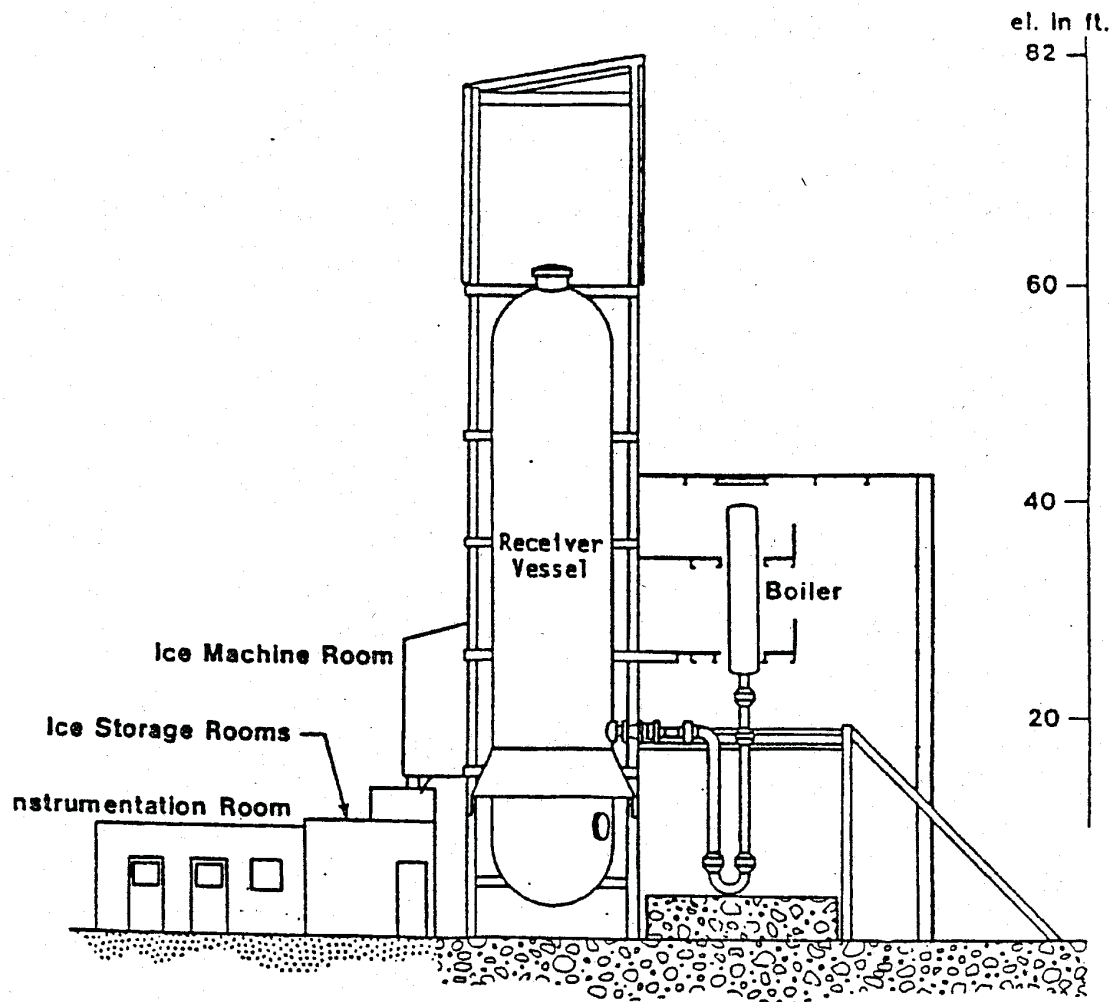
Change Description: UCR-850

AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN

Title: Loft Tests 809 and 813 Pressure Gage P-1  
(Near Rupture)

UFSAR Figure: 14.3.4-149

Sheet 1 of 1



Revision: **17.1**

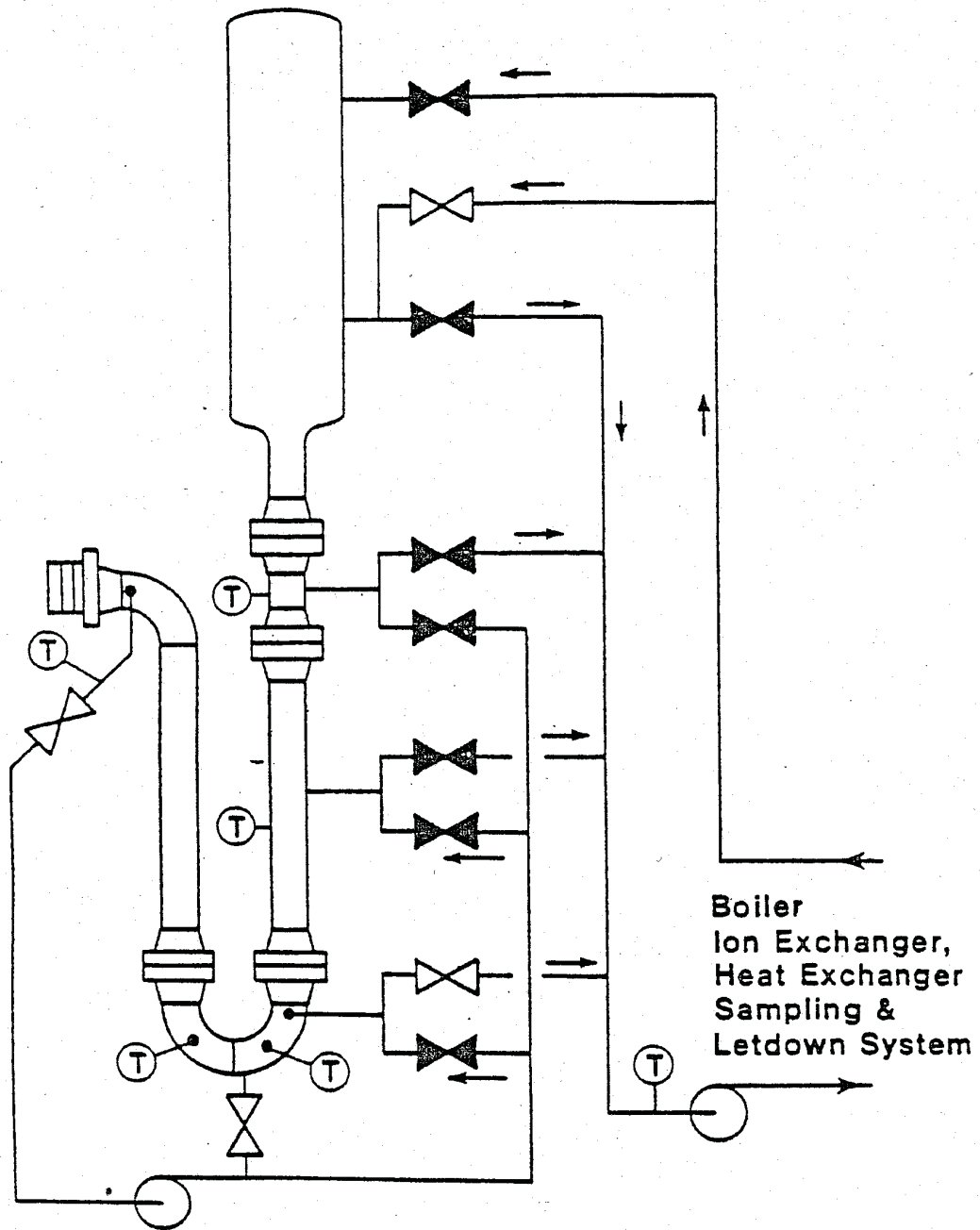
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Full-Scale Section Test Facility**

UFSAR Figure: **14.3.4-150**

Sheet 1 of 1



Revision: **17.1**

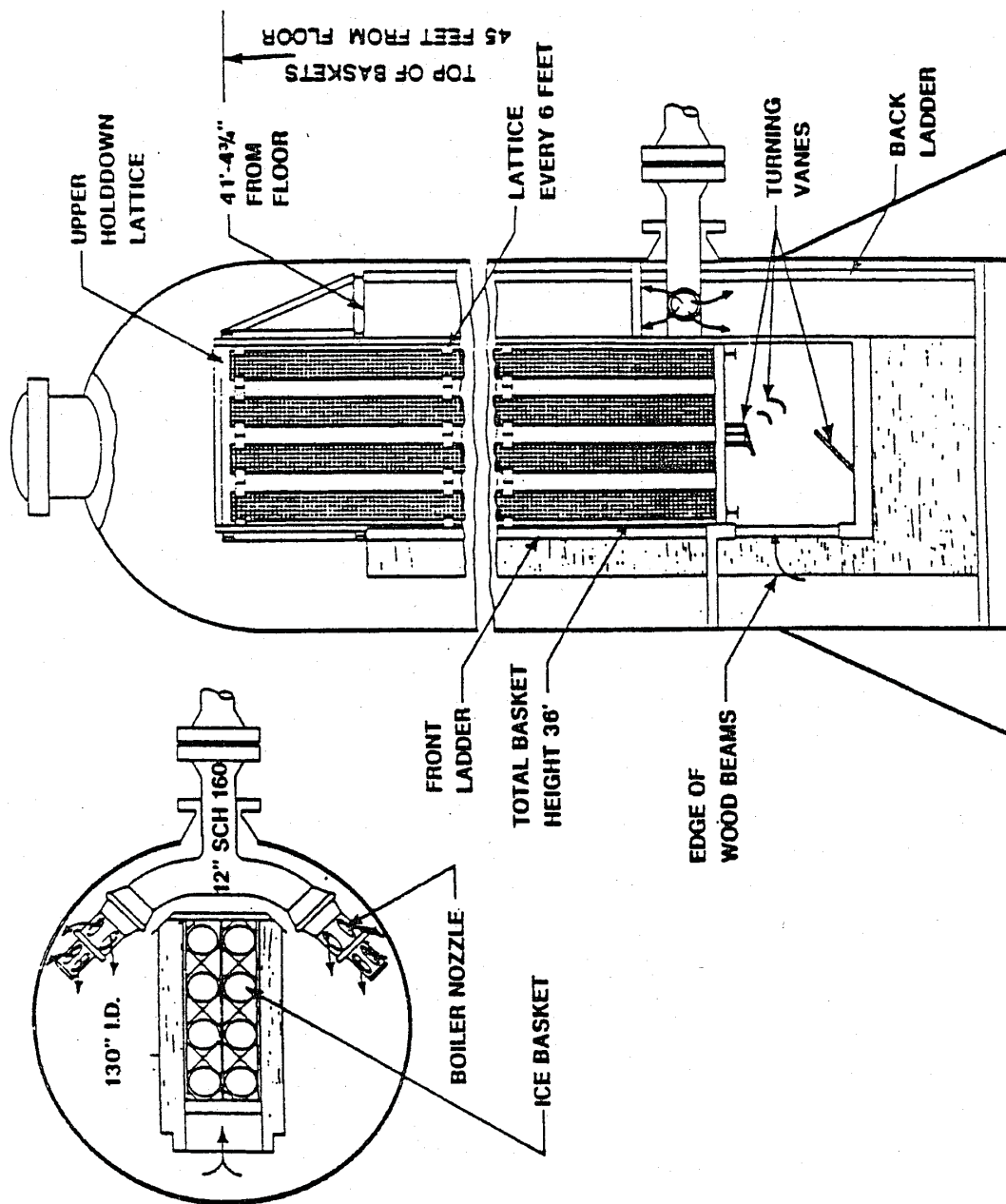
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Discharge Piping Circulation Pump**

UFSAR Figure: **14.3.4-151**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

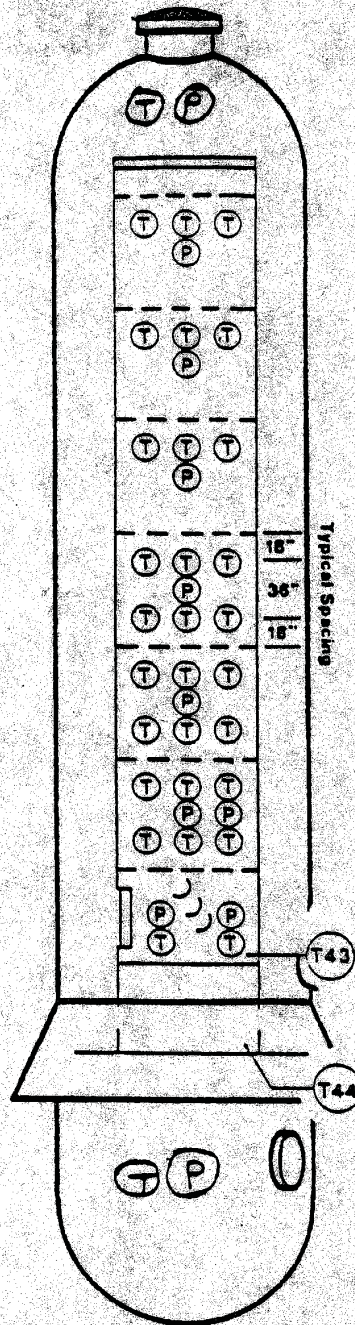
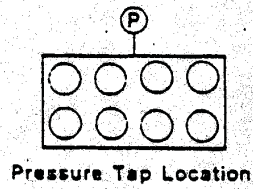
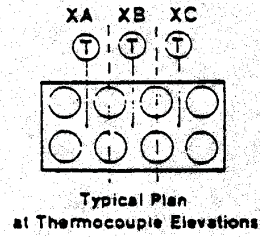
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Receiver Vessel**

UFSAR Figure: **14.3.4-152**

Sheet 1 of 1





Revision: **17.1**

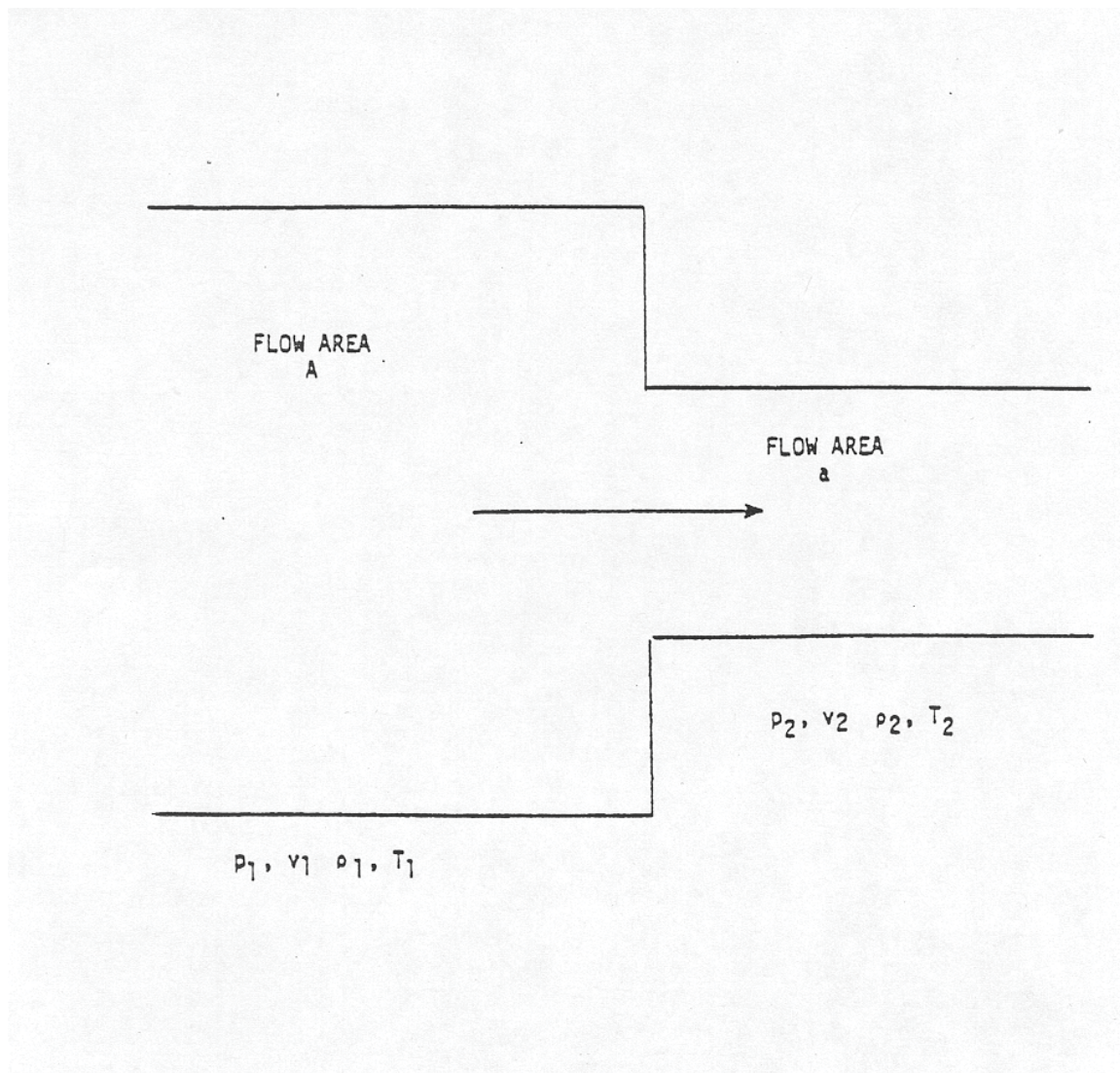
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

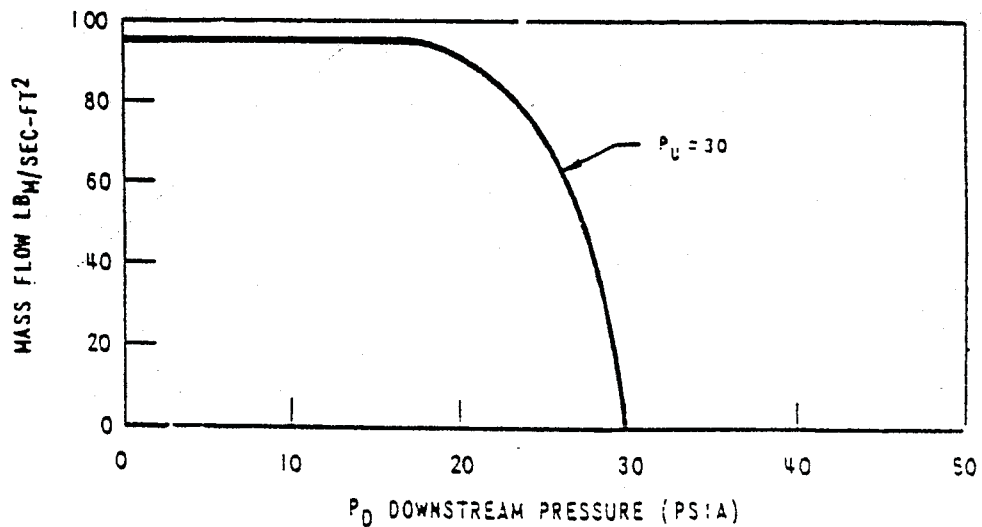
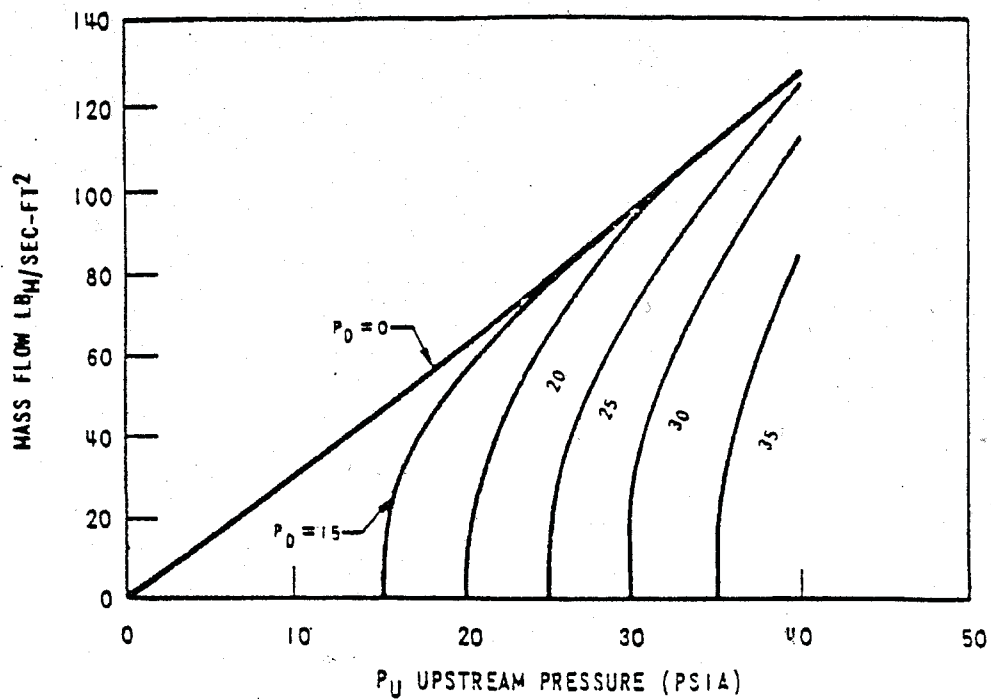
Title: **Instrument Location**

UFSAR Figure: **14.3.4-153**

Sheet 1 of 1



Revision: <b>17.1</b>	Change Description: <b>UCR-850</b>		
<b>AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN</b>		Title: <b>Variable Area Flow Path</b>	
		UFSAR Figure: <b>14.3.4-154</b>	Sheet 1 of 1



Revision: **17.1**

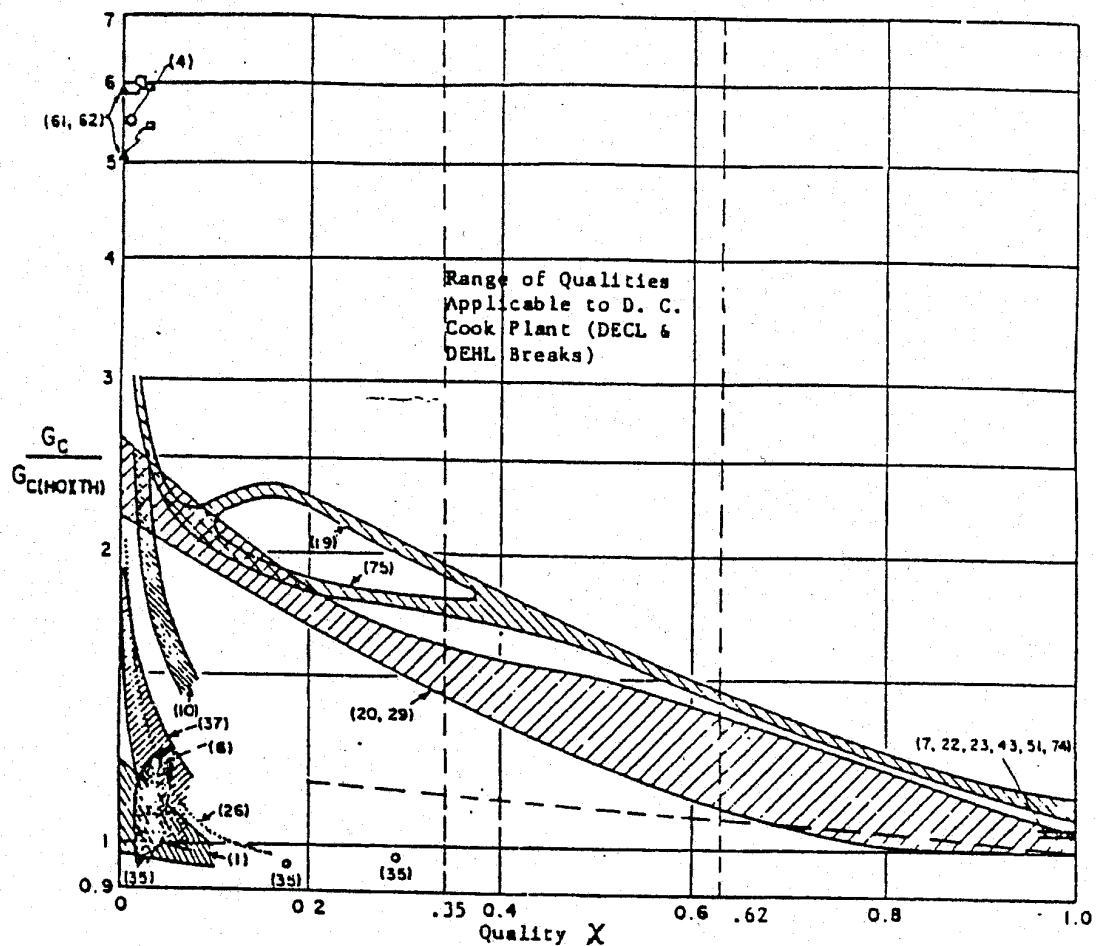
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Illustration of Choked Flow Characteristics**

UFSAR Figure: **14.3.4-155**

Sheet 1 of 1



A summary of experimental, two-phase, choking flow studies

Revision: **17.1**

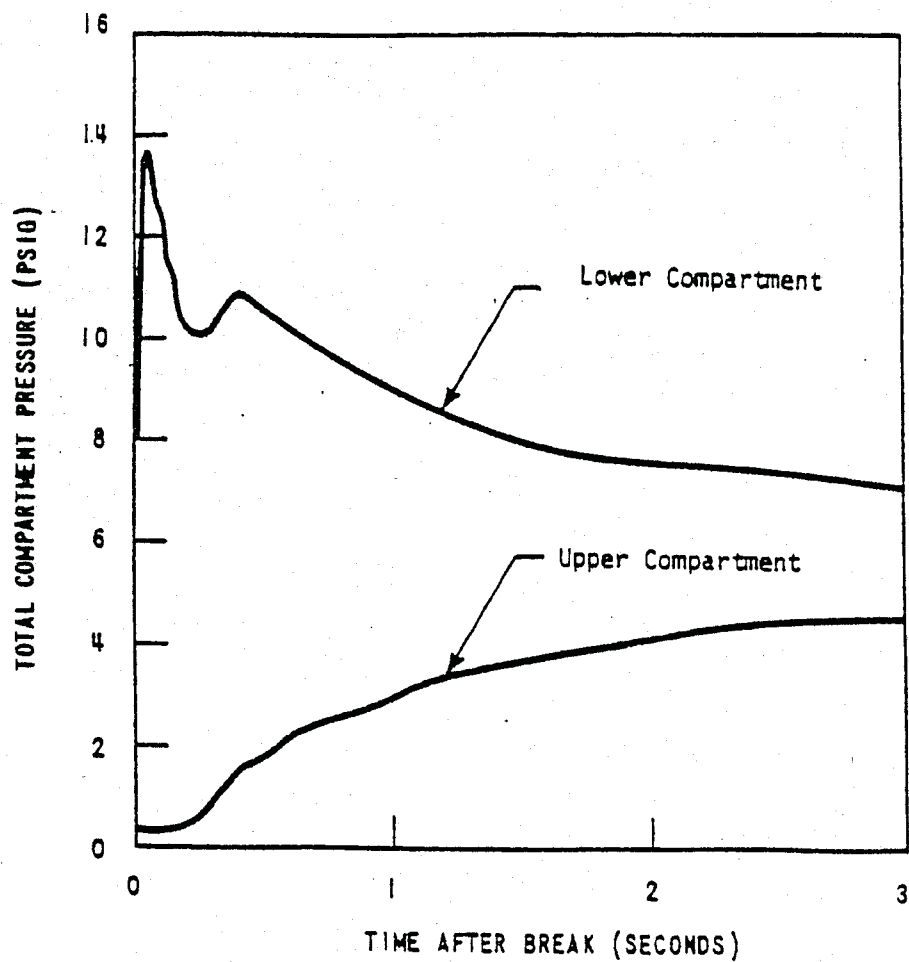
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Experimental Critical Mass Flow / Homogeneous  
Thermal Equilibrium Mode**

UFSAR Figure: **14.3.4-156**

Sheet 1 of 1



Revision: **17.1**

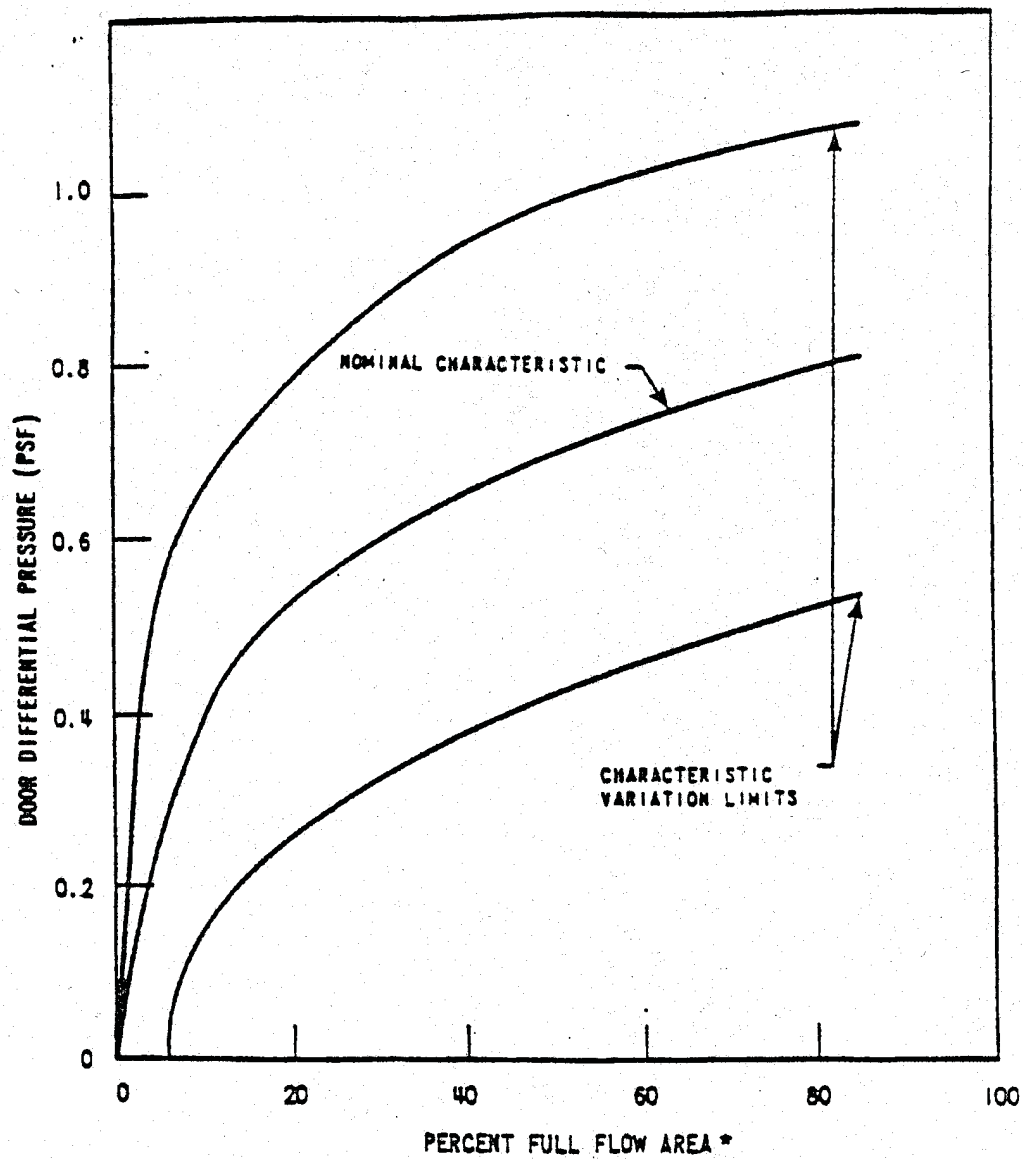
Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Upper and Lower Compartment Pressure  
Transient for Worst Case Break Compartment  
(Element 6) Having a DEHL Break (Historical)**

UFSAR Figure: **14.3.4-157**

Sheet 1 of 1



\* Full flow area is defined as door port area at maximum door opening

Revision: **17.1**

Change Description: **UCR-850**

**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Flow Area – Pressure Differential**

UFSAR Figure: **14.3.4-158**

Sheet 1 of 1