
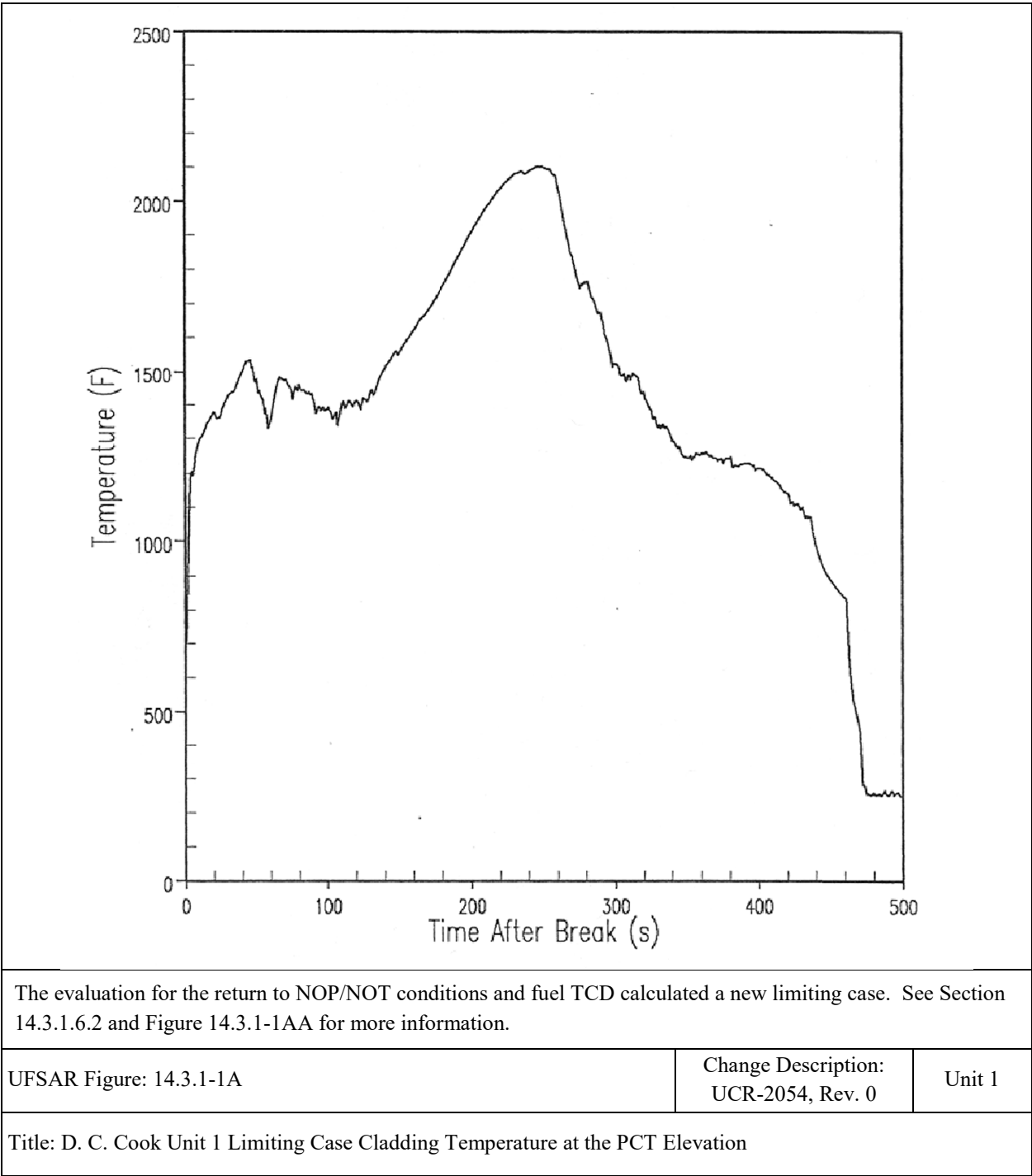



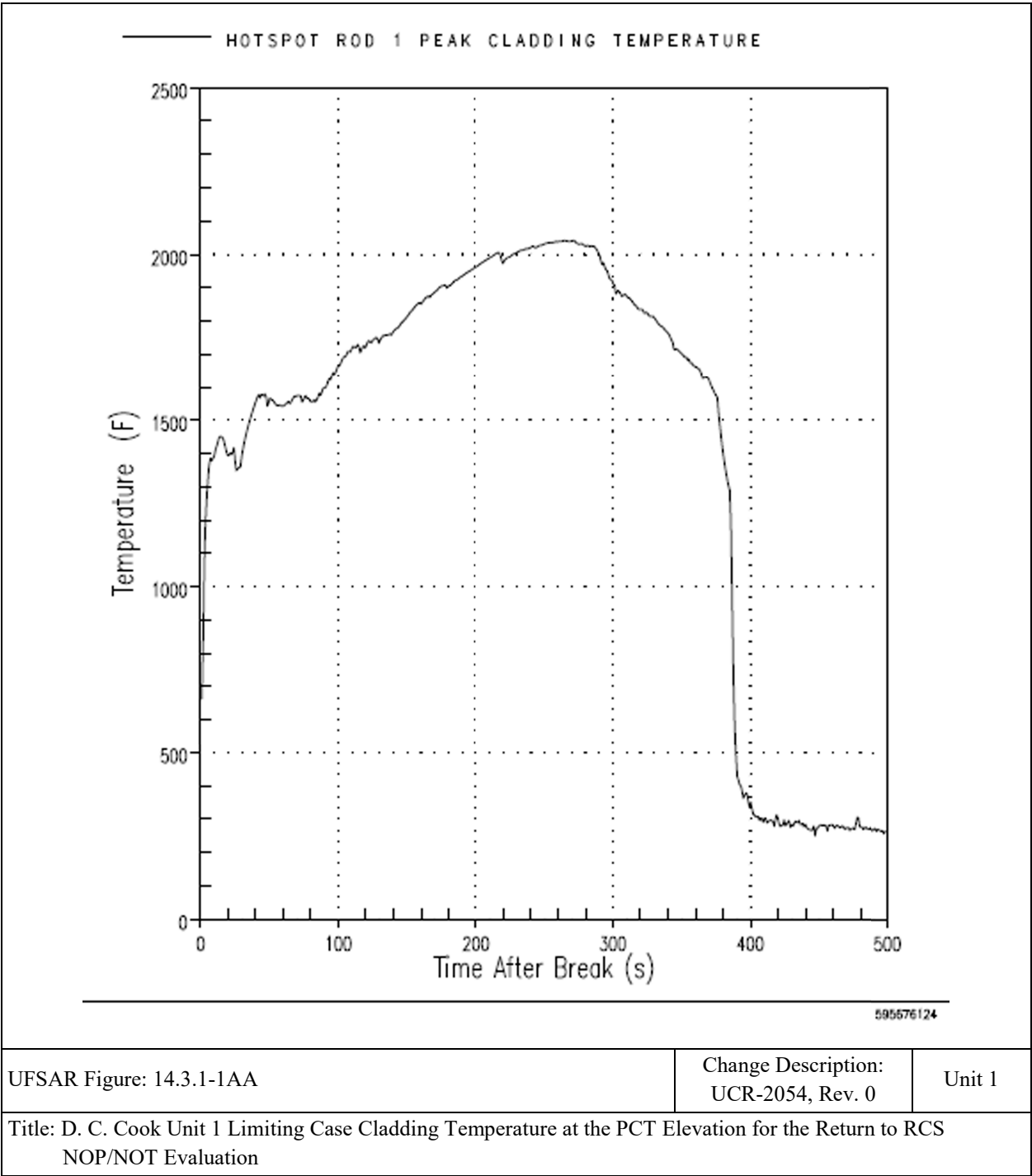
UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revised: 27.0 Chapter: 14 Sheet: 1 of 1</p>
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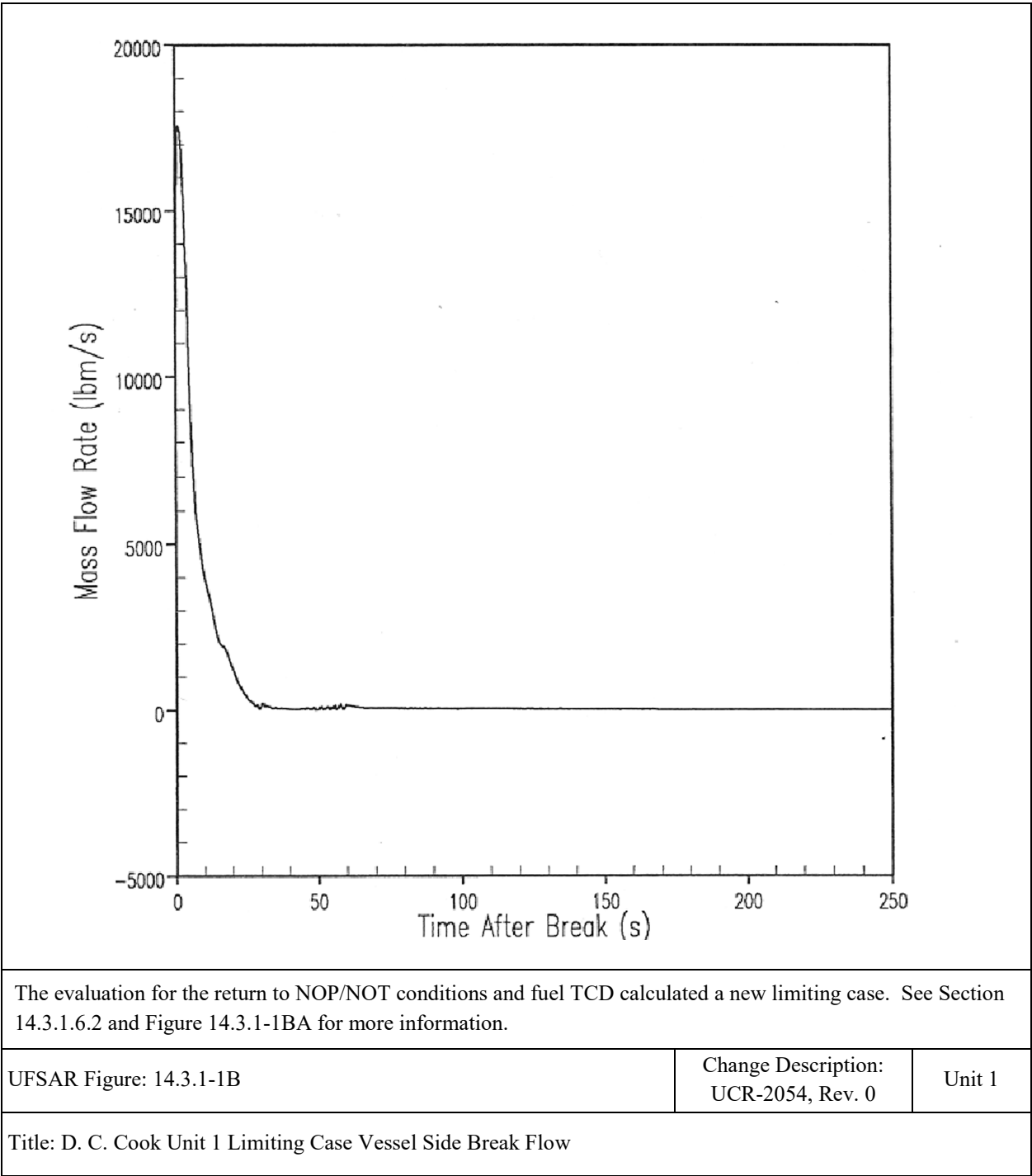
UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revised: 27.0 Chapter: 14 Sheet: 1 of 1</p>
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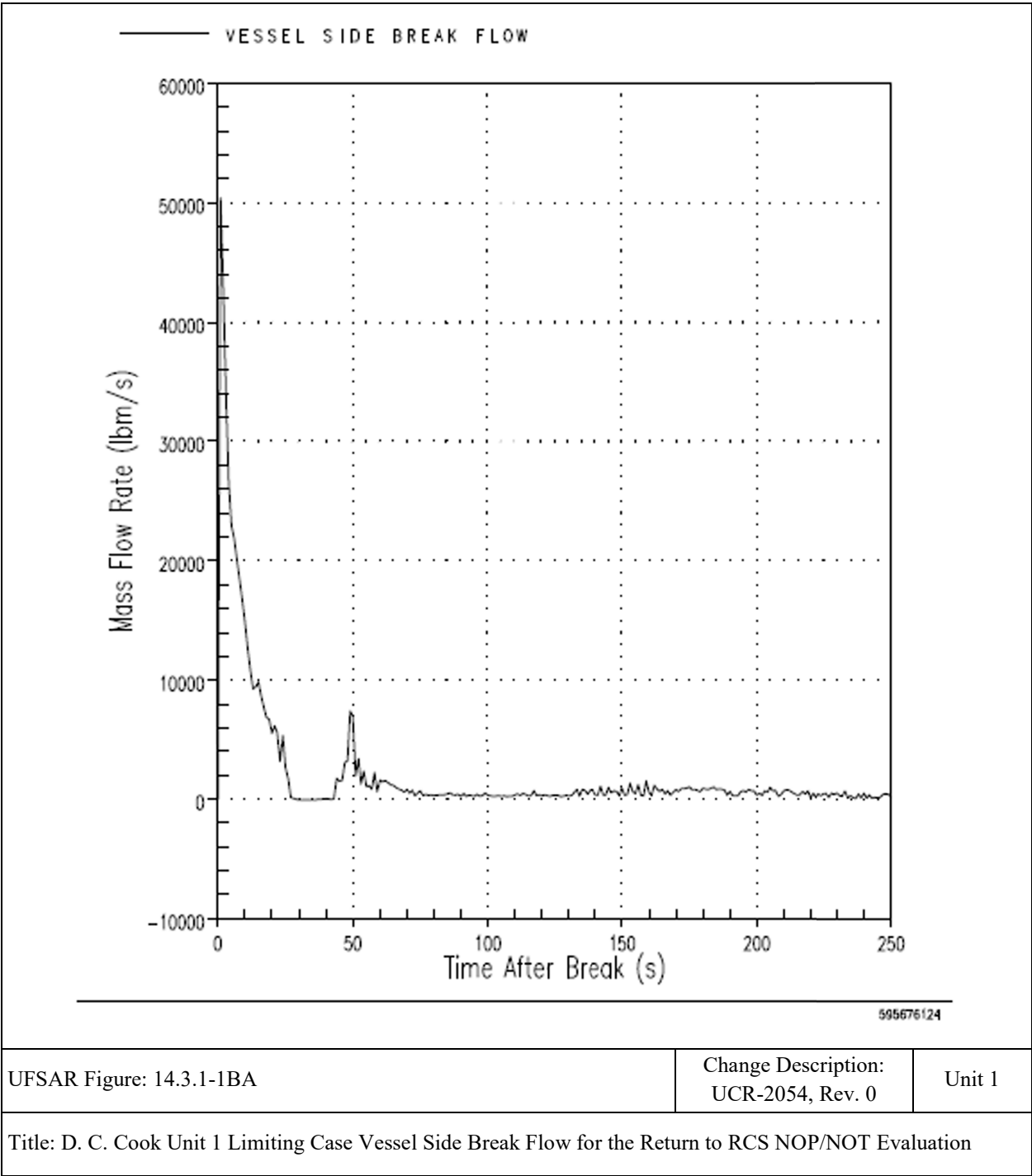
UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revised: 27.0 Chapter: 14 Sheet: 1 of 1</p>
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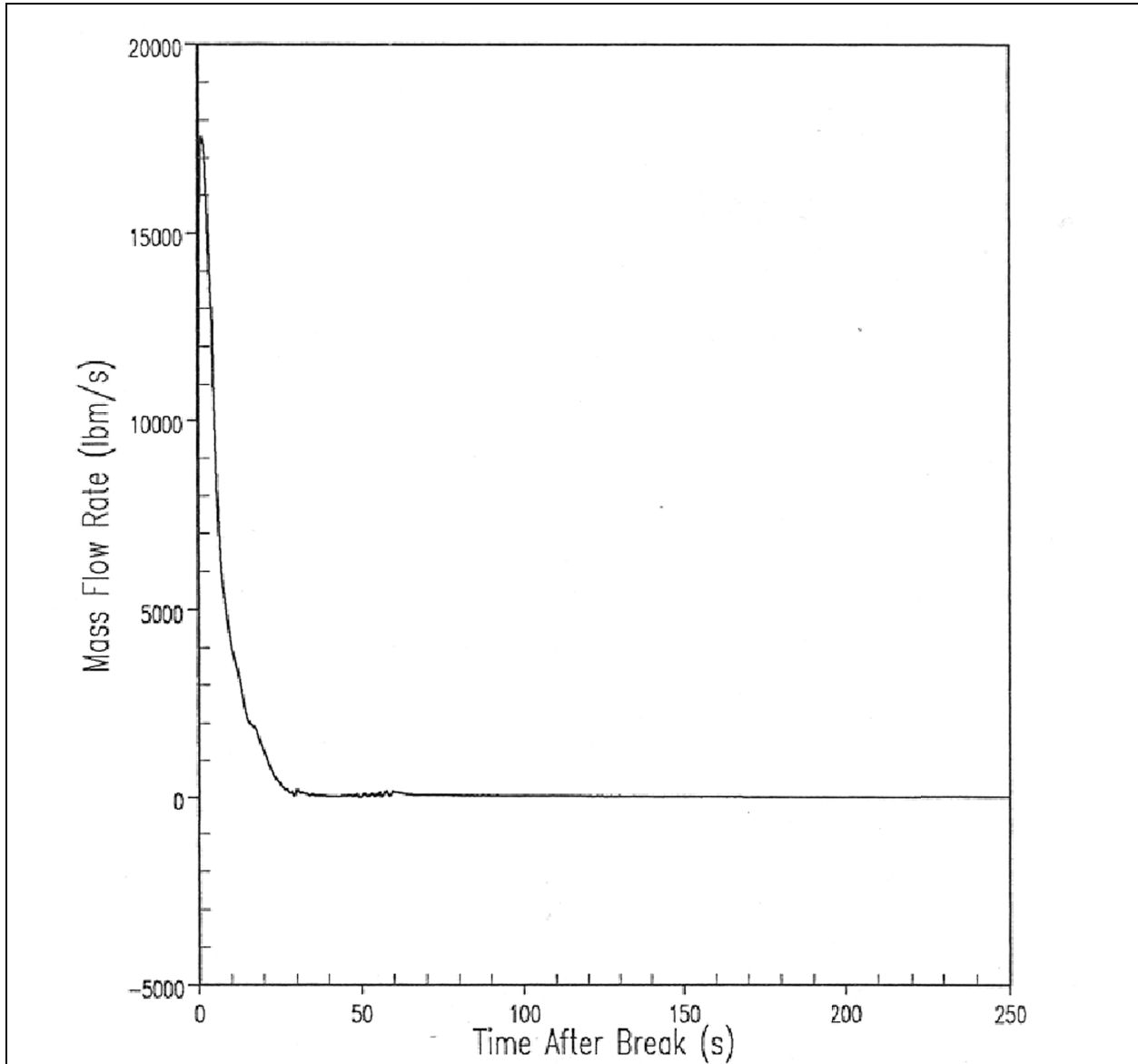
 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revised: 27.0 Chapter: 14 Sheet: 1 of 1</p>
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 An AEP Company	<p style="text-align: center;"><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revised: 27.0 Chapter: 14 Sheet: 1 of 1</p>
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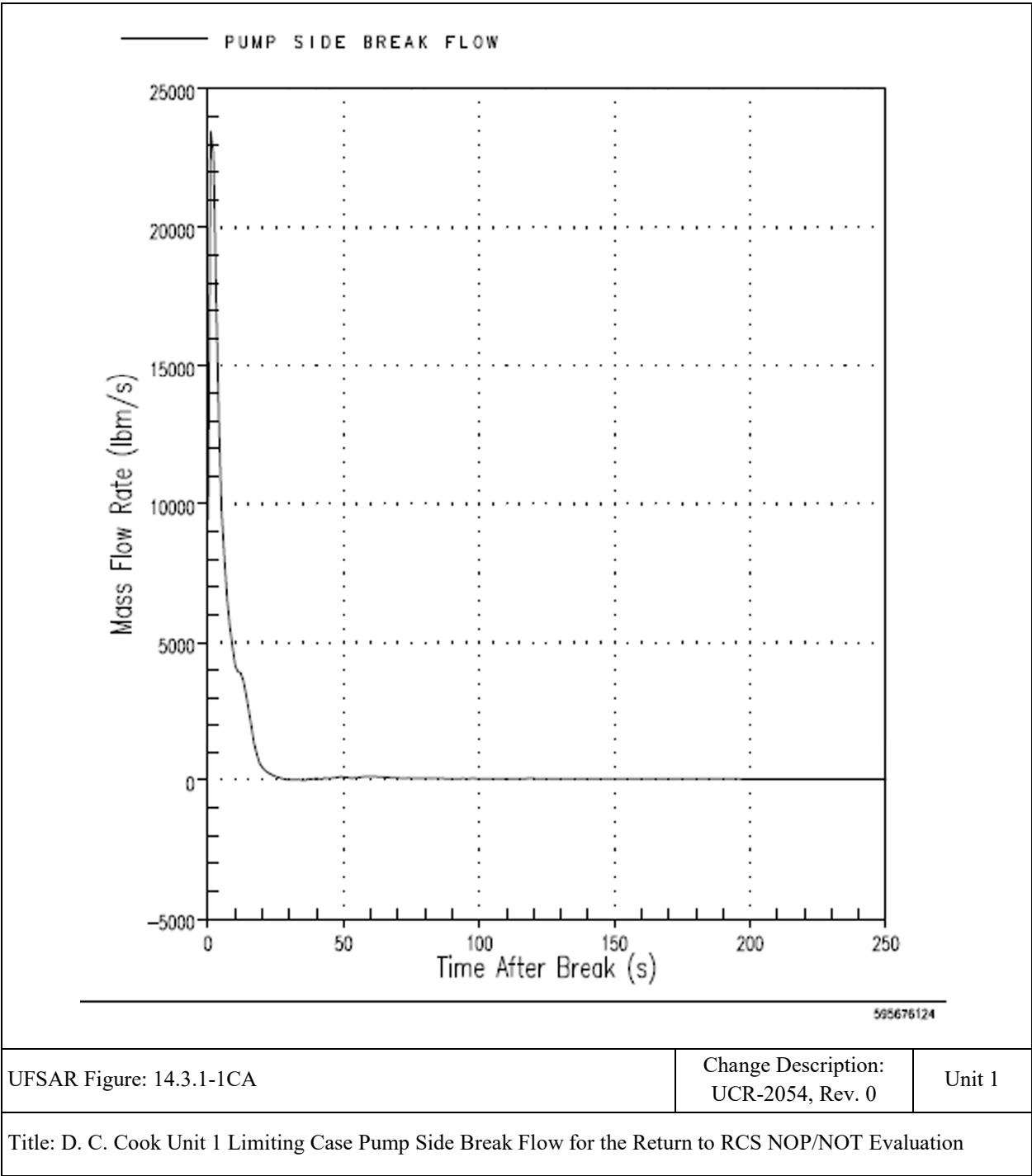


The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1CA for more information.

UFSAR Figure: 14.3.1-1C	Change Description: UCR-2054, Rev. 0	Unit 1
Title: D. C. Cook Unit 1 Limiting Case Pump Side Break Flow		

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 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revised: 27.0 Chapter: 14 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.1-1CA

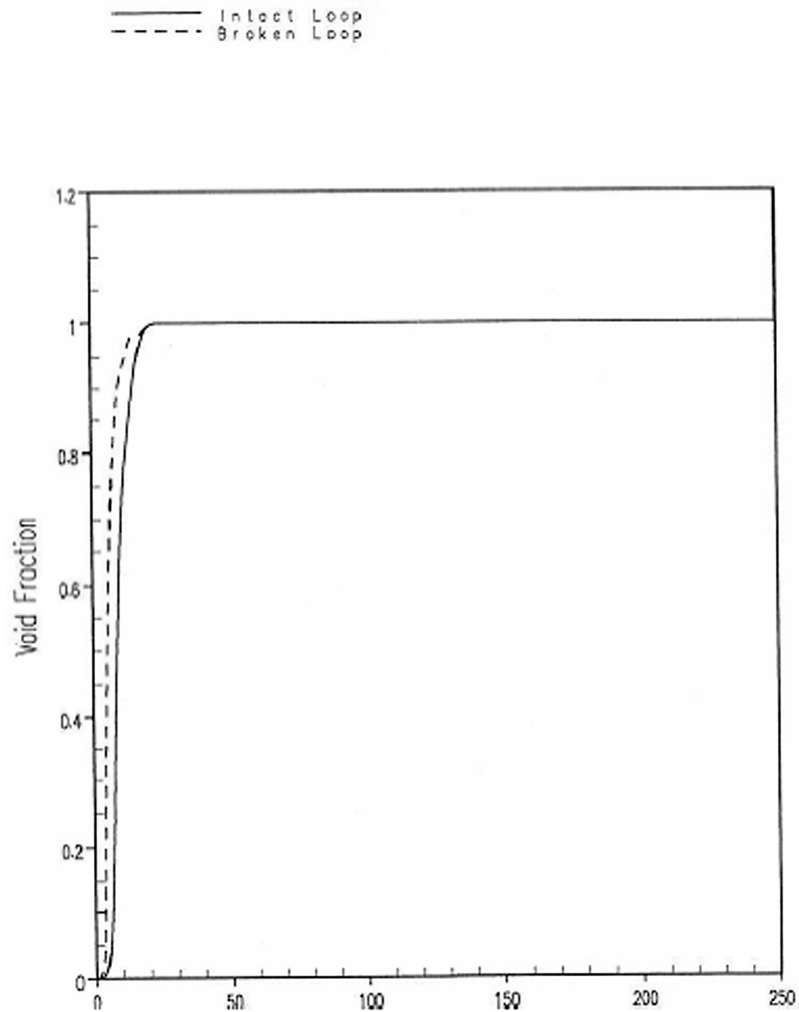
Change Description:  
UCR-2054, Rev. 0

Unit 1

Title: D. C. Cook Unit 1 Limiting Case Pump Side Break Flow for the Return to RCS NOP/NOT Evaluation

# UFSAR Revision 30.0


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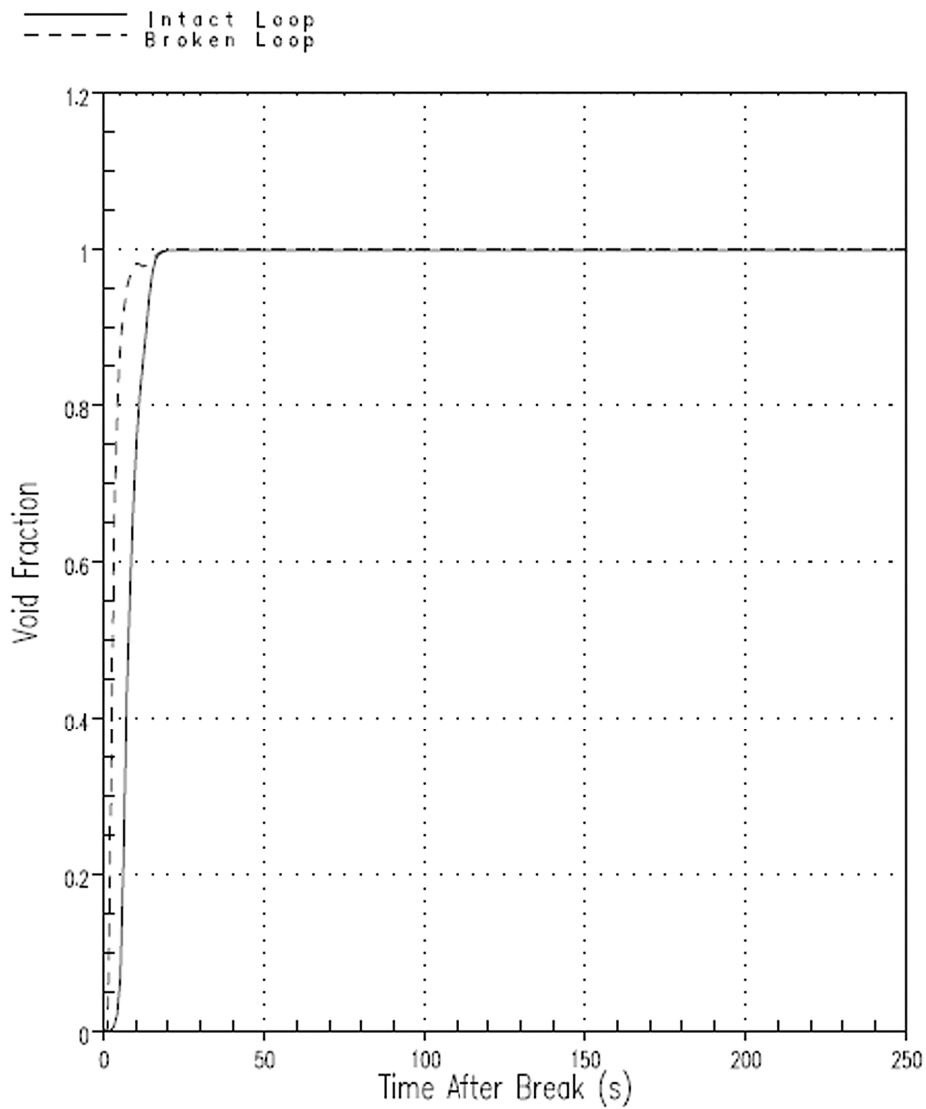


The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1Da for more information.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1D	Change Description: UCR-2178, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Broken and Intact Loop Pump Void Fraction		


 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA 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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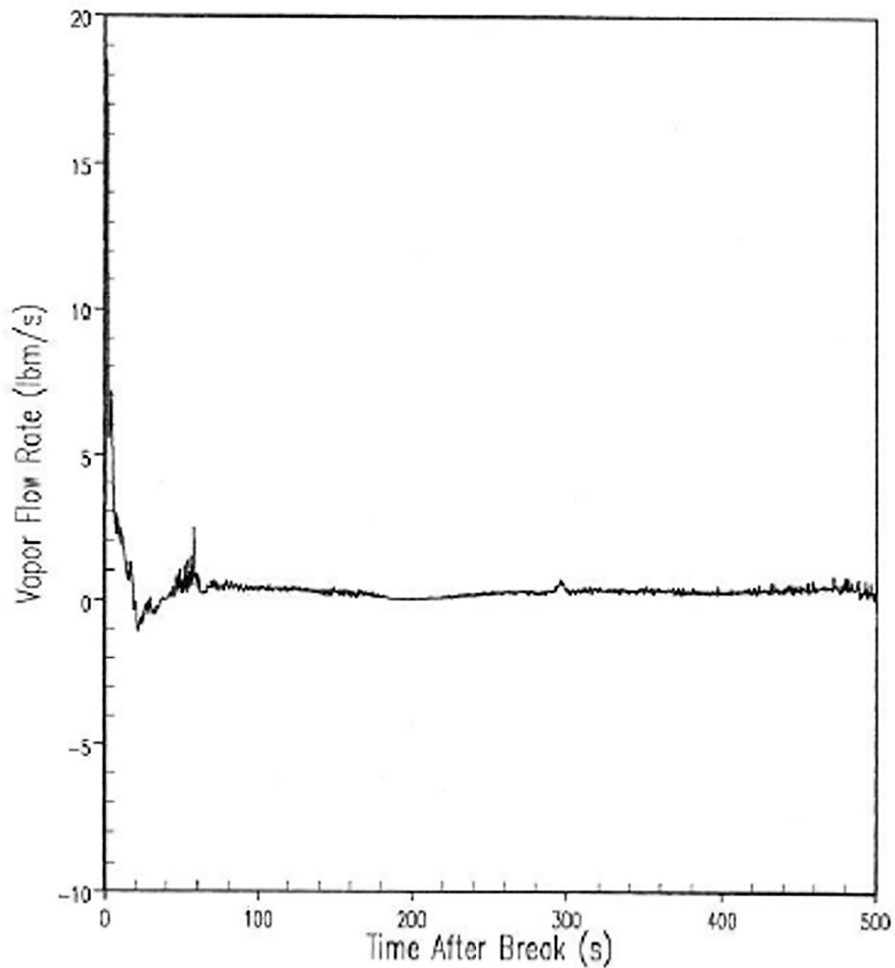


(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1Da	Change Description: UCR-2178, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Broken and Intact Loop Pump Void Fraction for the Return to RCS NOP/NOT Evaluation		

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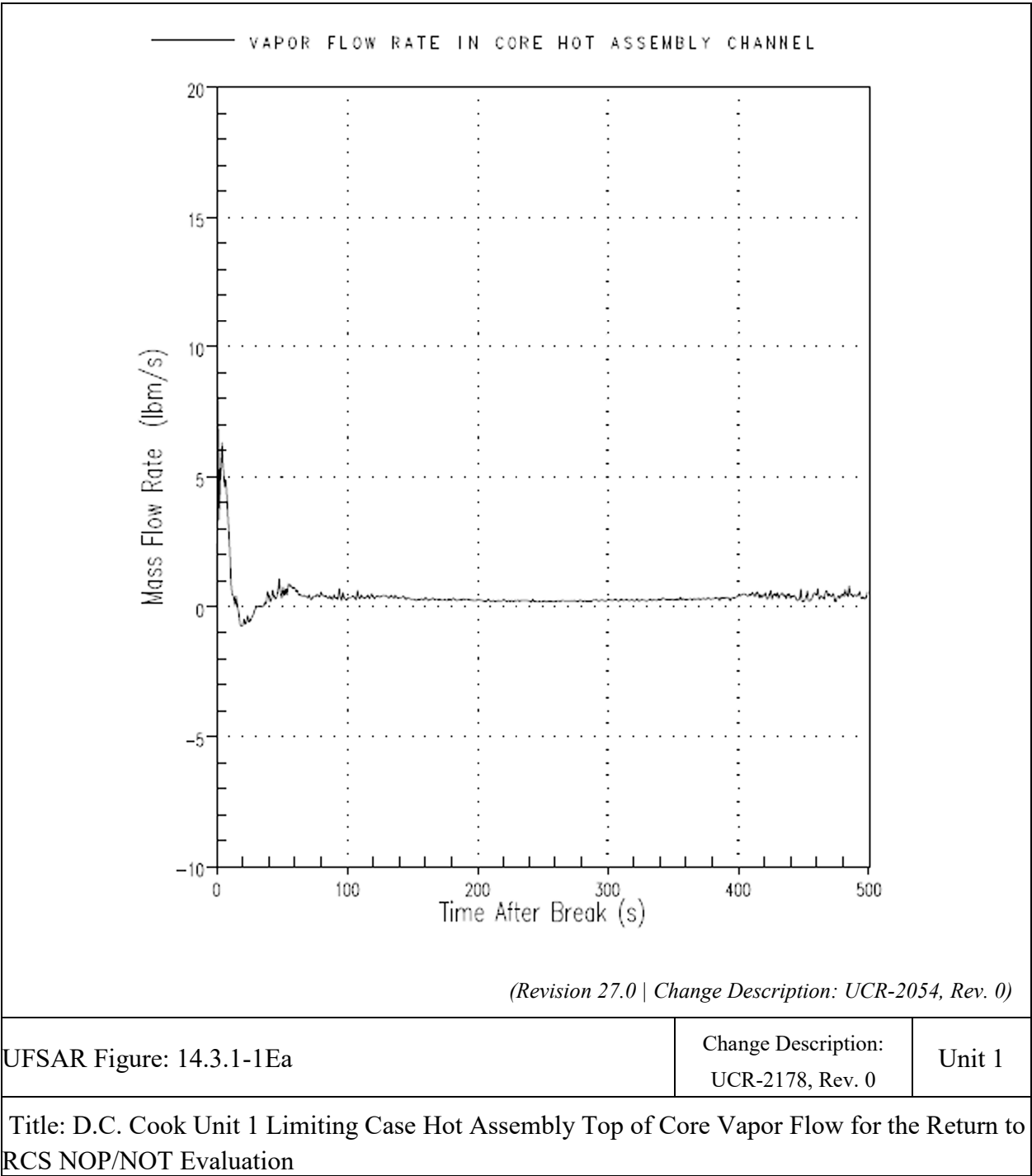
The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1Ea for more information.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)


UFSAR Figure: 14.3.1-1E	Change Description: UCR-2178, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Hot Assembly Top of Core Vapor Flow		

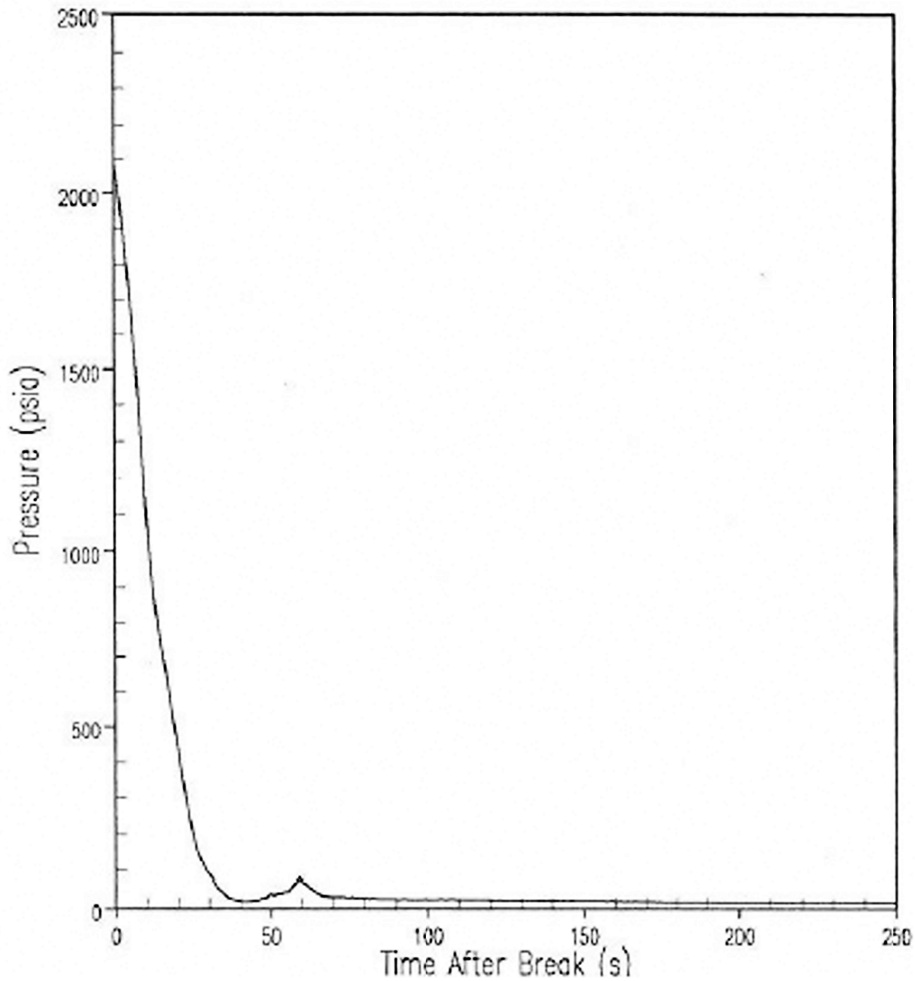
UFSAR Revision 30.0

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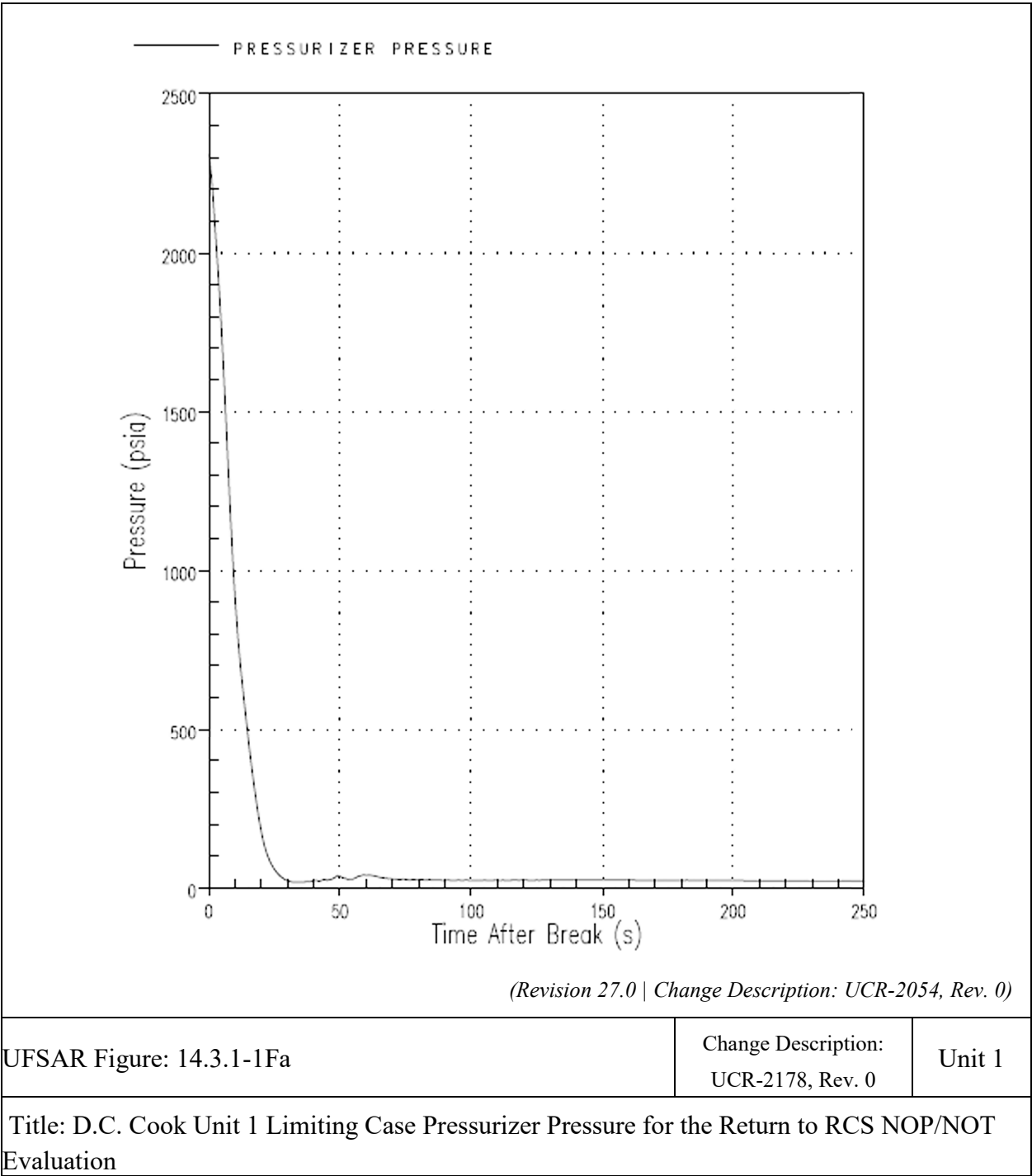


The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1Fa for more information.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)


UFSAR Figure: 14.3.1-1F	Change Description: UCR-2178, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Pressurizer Pressure		

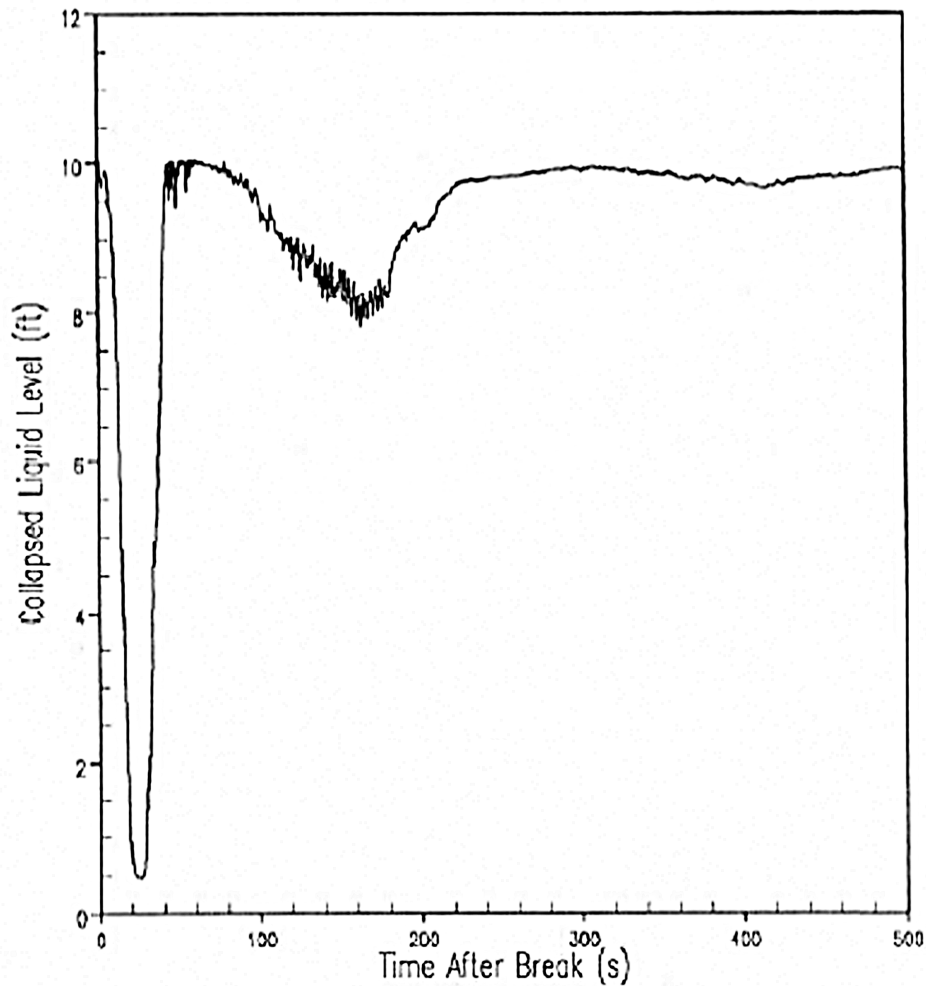
 An AEP Company	<p>INDIANA MICHIGAN POWER</p> <p>D. C. COOK NUCLEAR PLANT</p> <p>UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revised: 28.0</p> <p>Chapter: 14</p> <p>Sheet: 1 of 1</p>
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\* The reference point for the lower plenum liquid level is the bottom of the vessel (10.1 feet below the bottom of the active fuel)

The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1Ga for more information.


(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

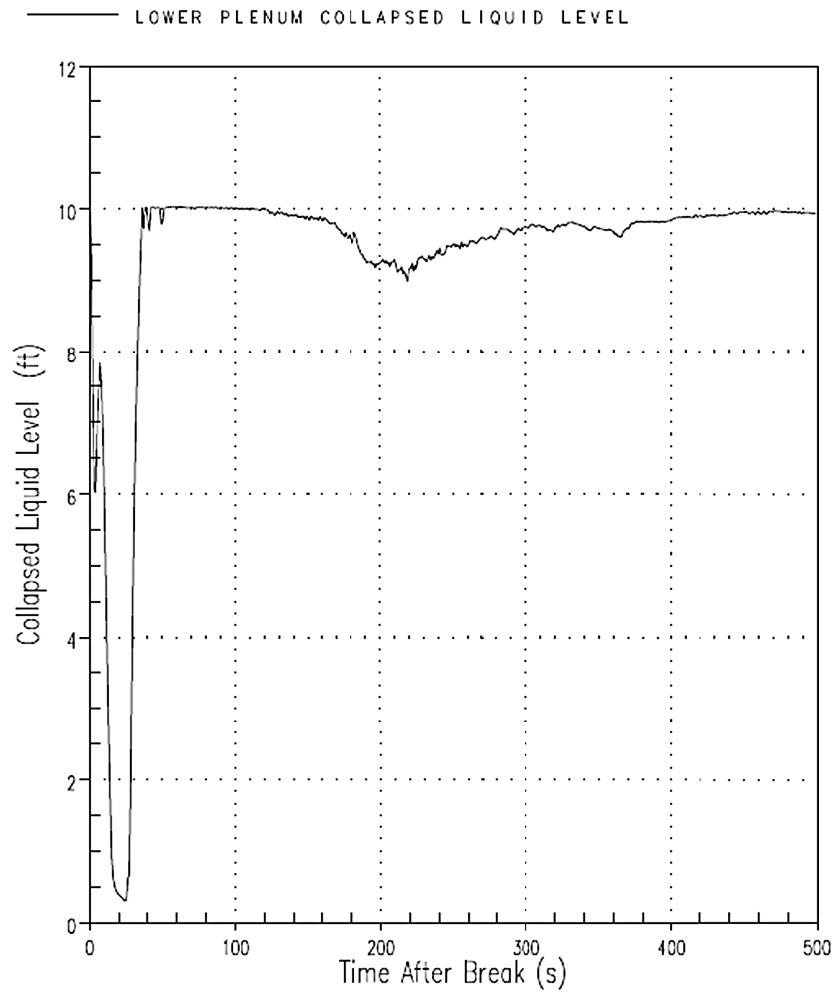
UFSAR Figure: 14.3.1-1G

Change Description:  
UCR-2178, Rev. 0

Unit 1

Title: D.C. Cook Unit 1 Limiting PCT Lower Plenum Collapsed Liquid Level \*

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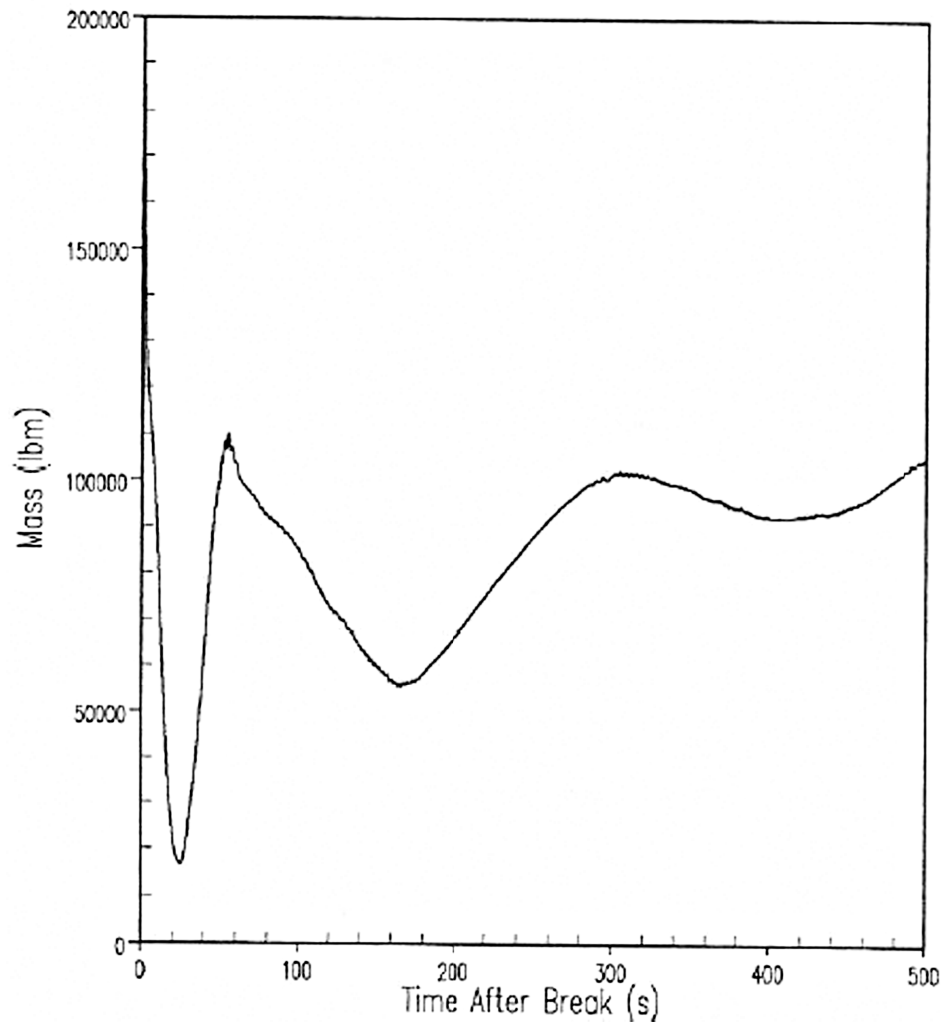
\* The reference point for the lower plenum liquid level is the bottom of the vessel (10.1 feet below the bottom of the active fuel).

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1Ga	Change Description: UCR-2178, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting PCT Lower Plenum Collapsed Liquid Level for the Return to RCS NOP/NOT Evaluation *		

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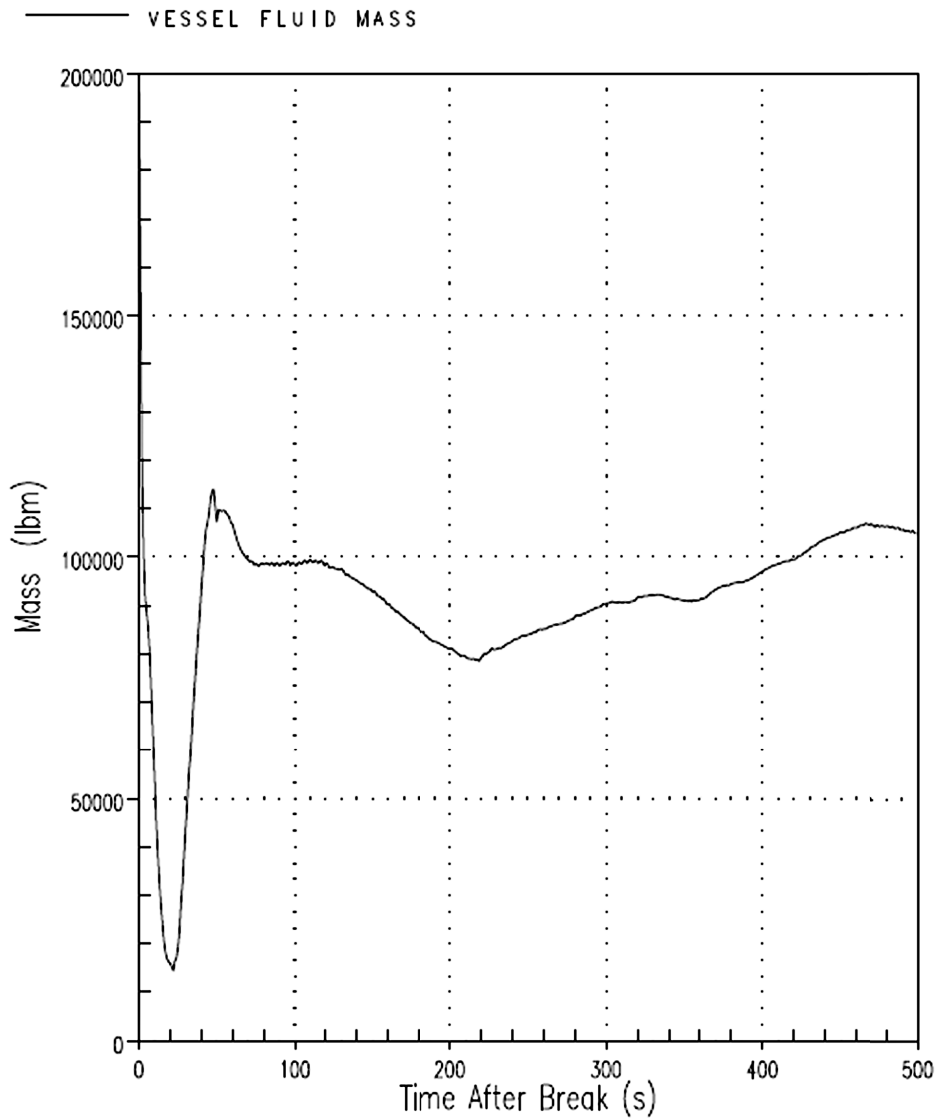
The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1Ha for more information.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1H	Change Description: UCR-2178, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Vessel Fluid Mass		

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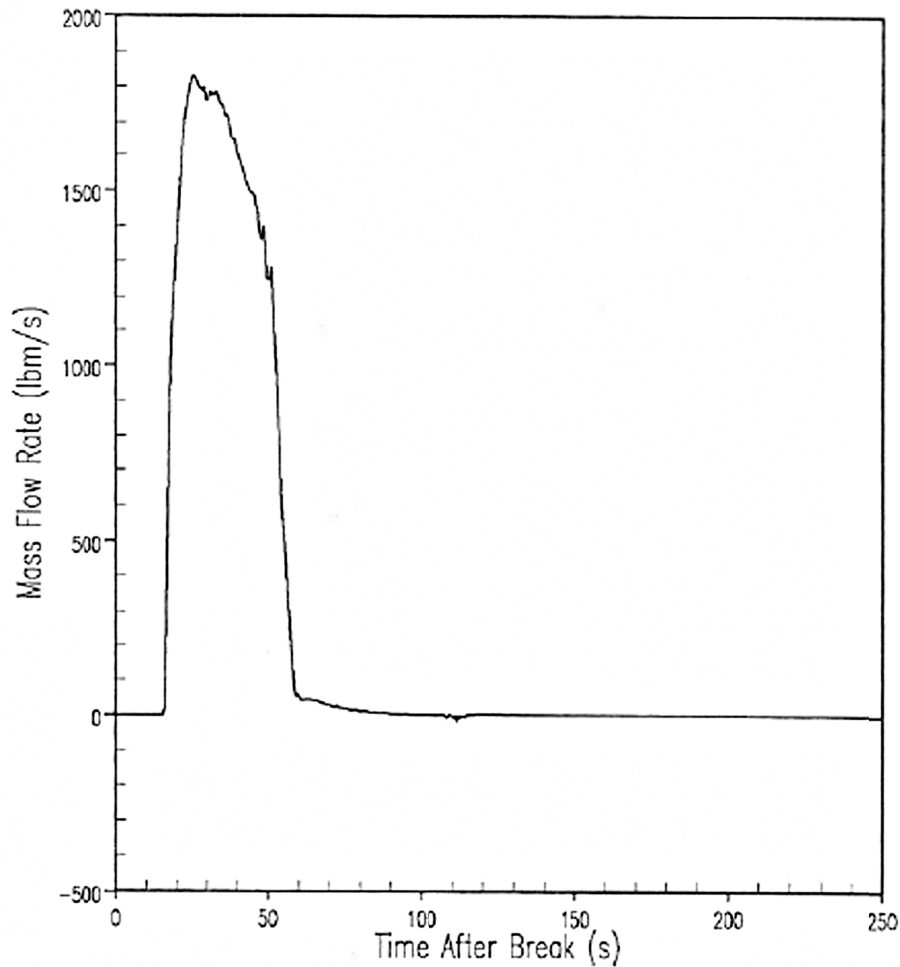
<div><div><div>INDIANA MICHIGAN POWER</div><div>An AEP Company</div></div></div>	<div>INDIANA MICHIGAN POWER</div> <div>D. C. COOK NUCLEAR PLANT</div> <div>UPDATED FINAL SAFETY ANALYSIS REPORT</div>	<div>Revised: 28.0</div> <div>Chapter: 14</div> <div>Sheet: 1 of 1</div>
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(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1Ha	Change Description: UCR-2178, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Vessel Fluid Mass for the Return to RCS NOP/NOT Evaluation		

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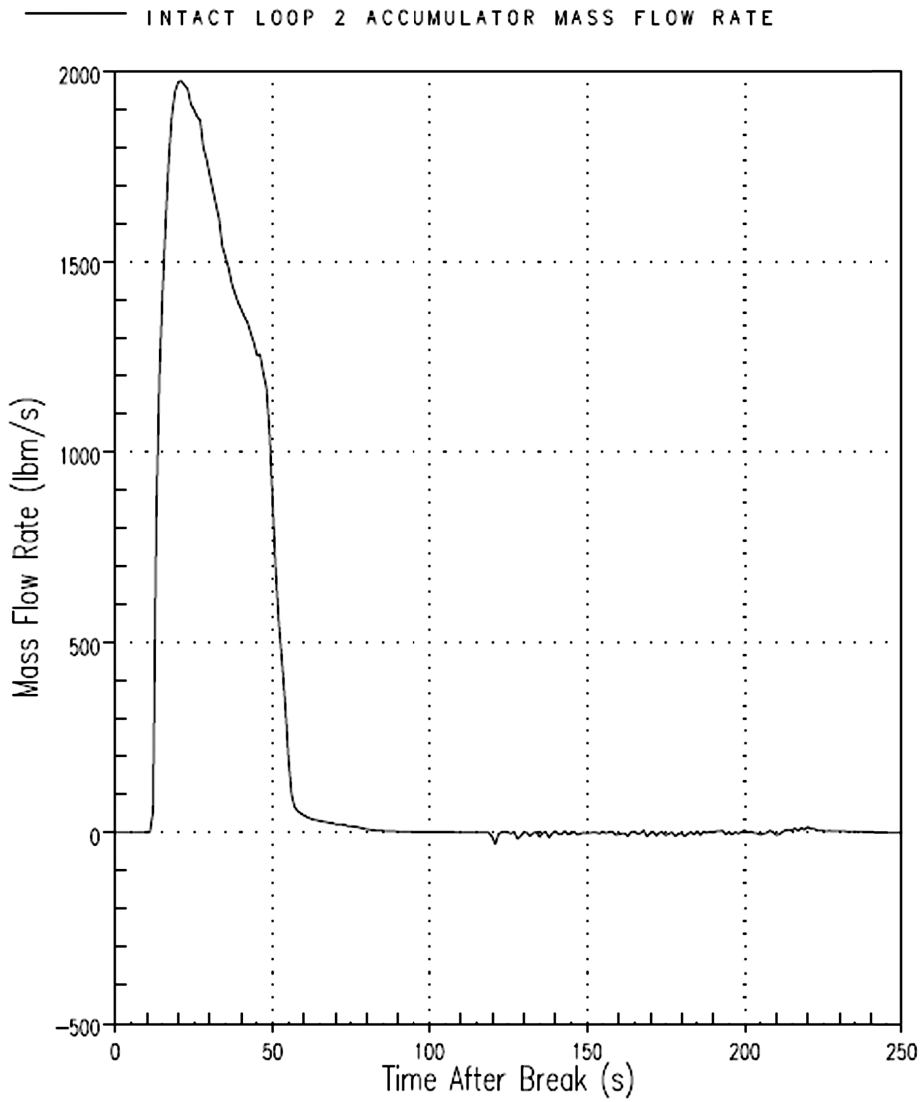


The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1Ia for more information.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1I	Change Description: UCR-2179, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Loop 2 Accumulator Flow		

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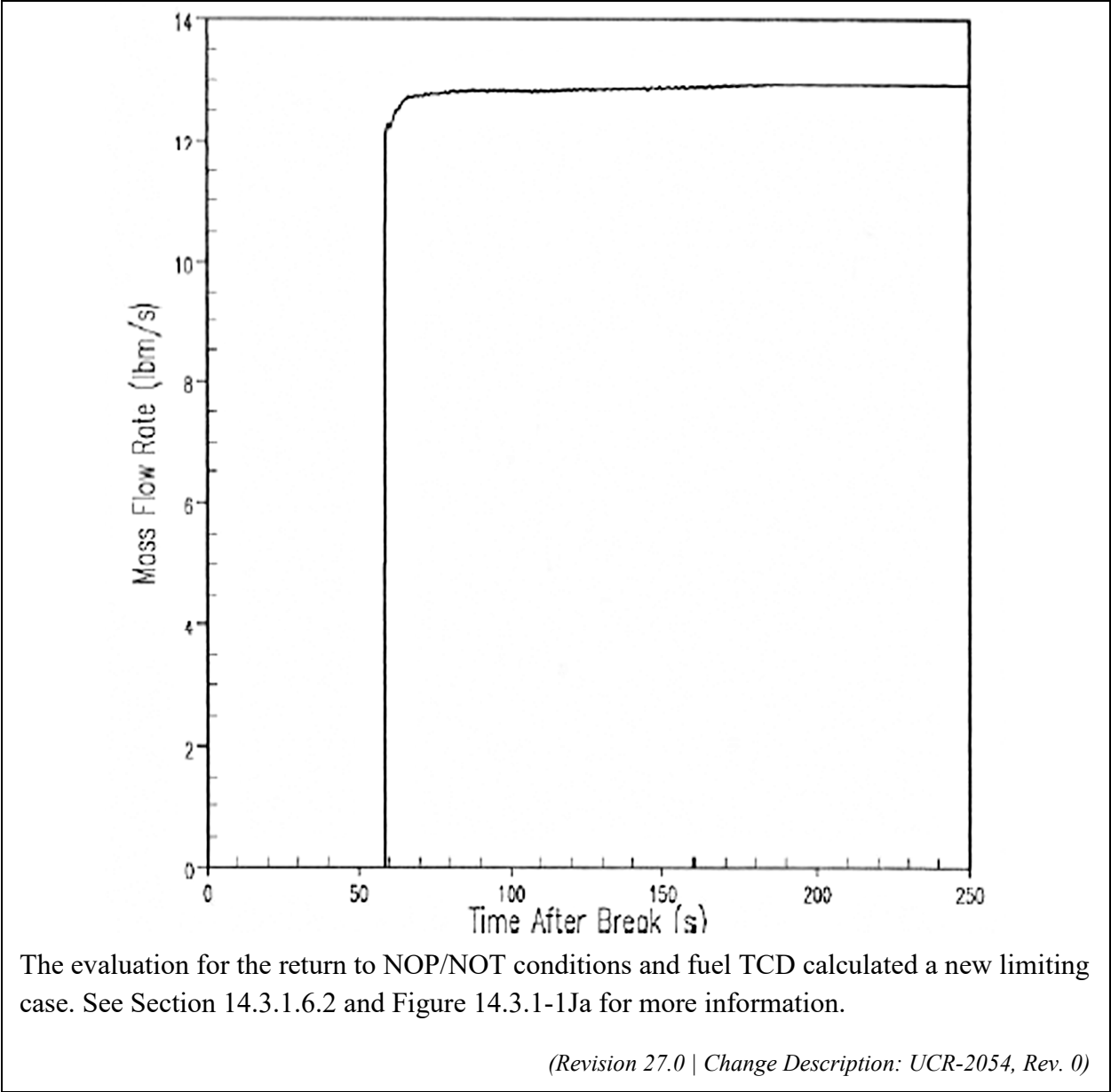


(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1Ia	Change Description: UCR-2179, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Loop 2 Accumulator Flow for the Return to RCS NOP/NOT Evaluation		

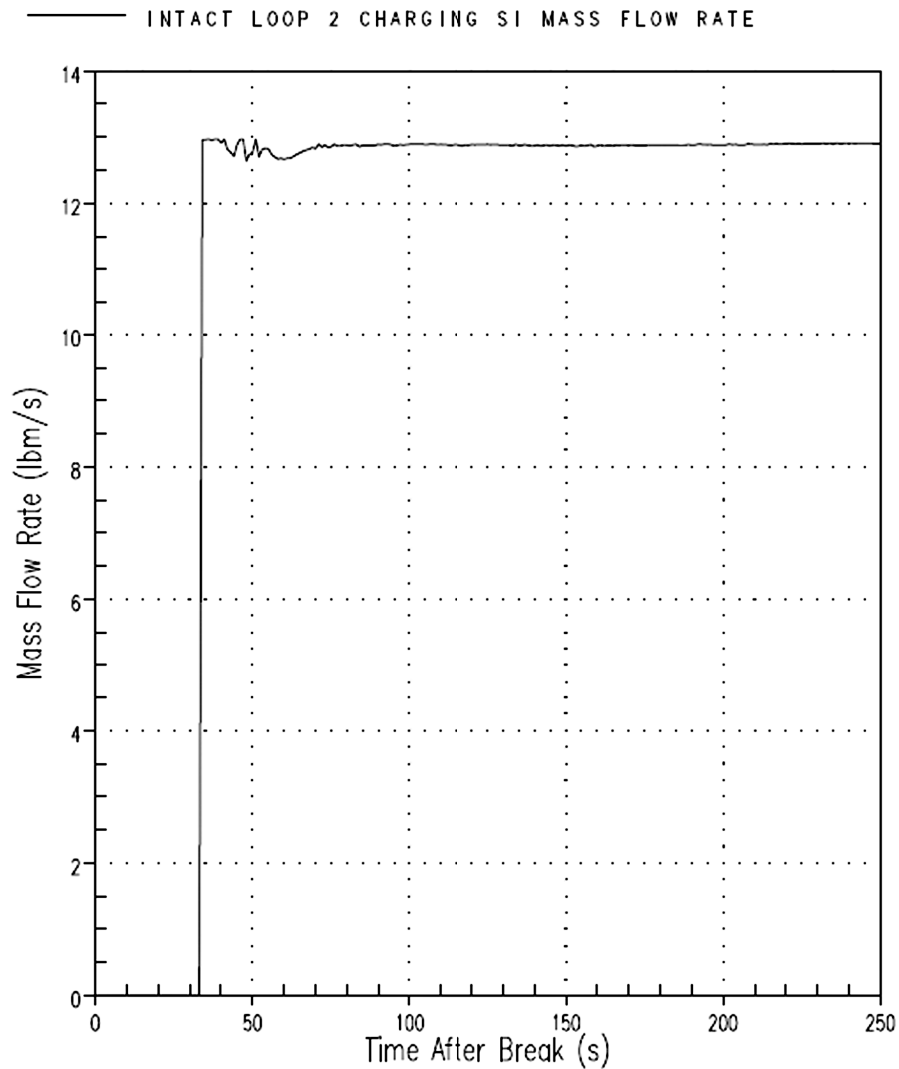
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UFSAR Figure: 14.3.1-1J	Change Description: UCR-2179, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Loop 2 Charging Safety Injection Flow		

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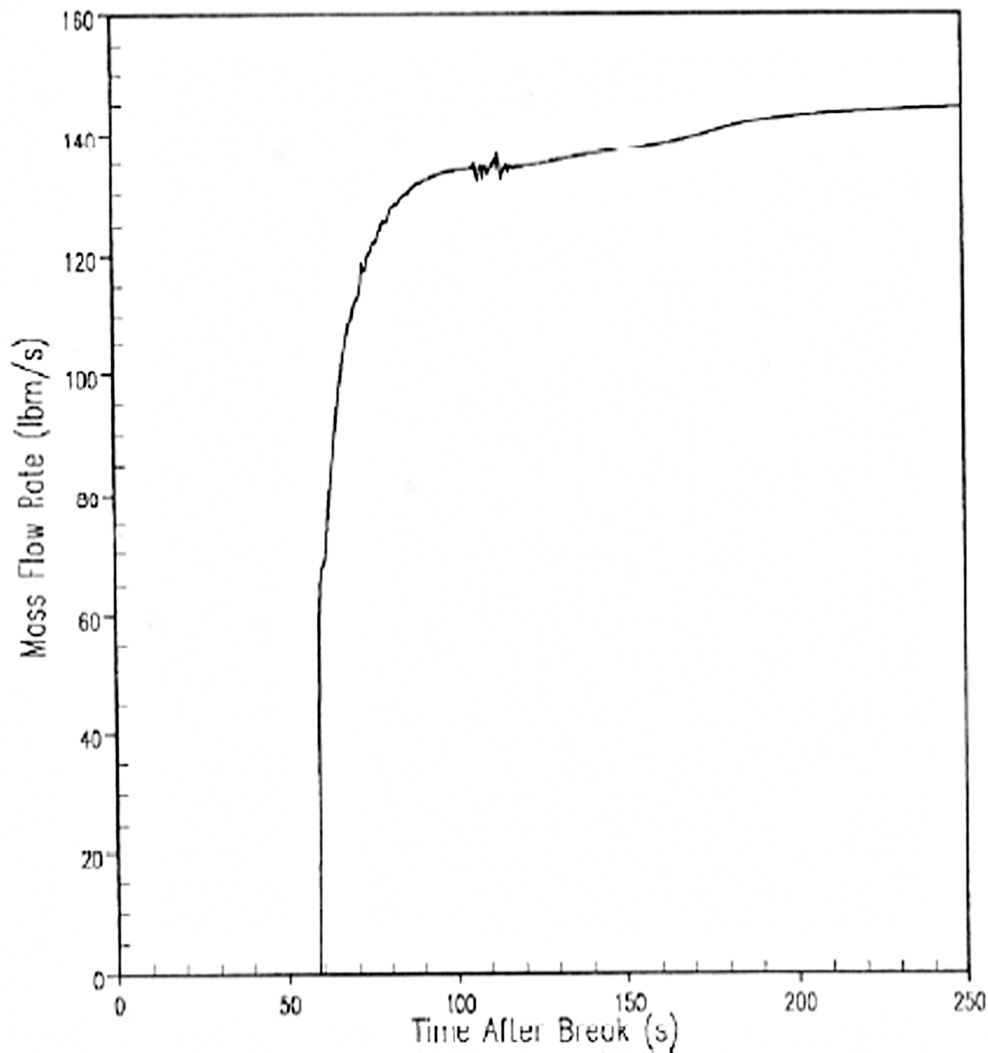
(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1Ja	Change Description: UCR-2179, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Loop 2 Charging Safety Injection Flow for the Return to RCS NOP/NOT Evaluation		



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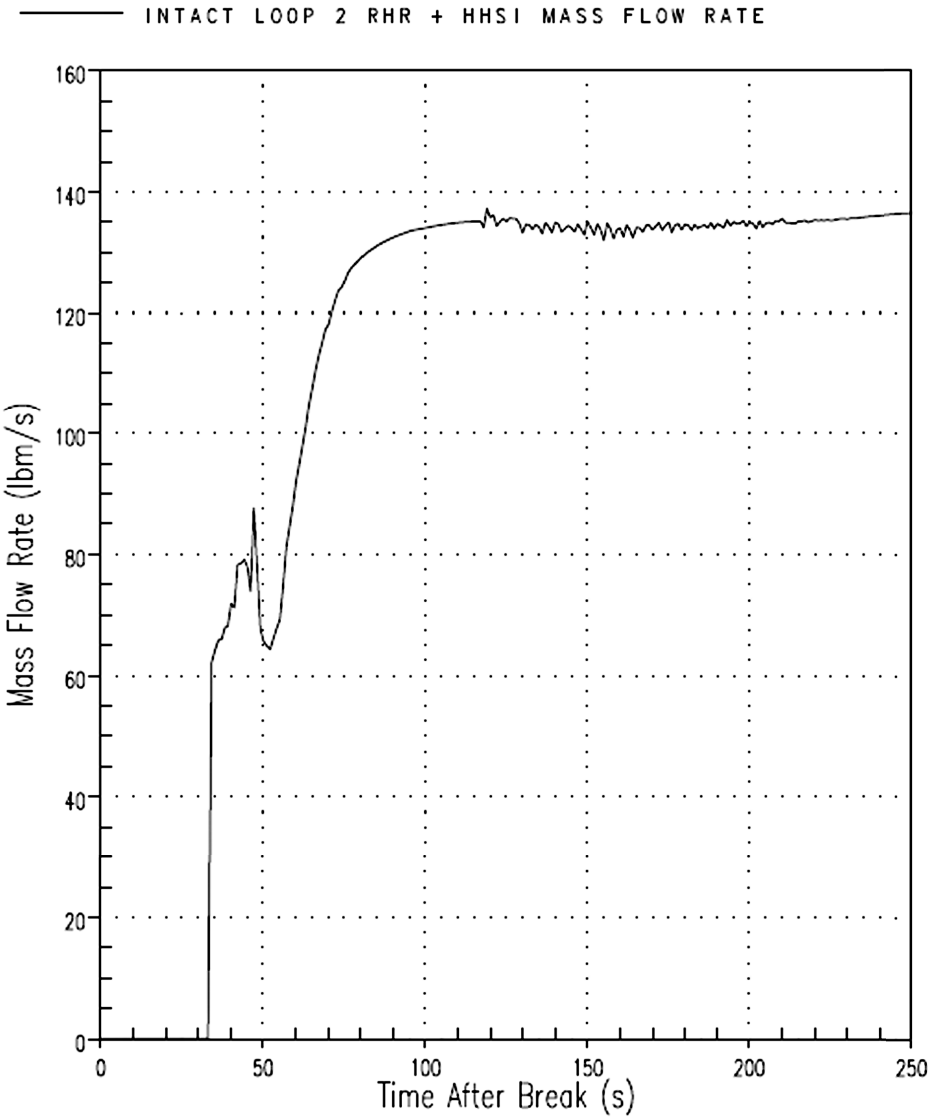
The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1Ka for more information.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1K	Change Description: UCR-2179, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Loop 2 RHR and HHSI Flow		

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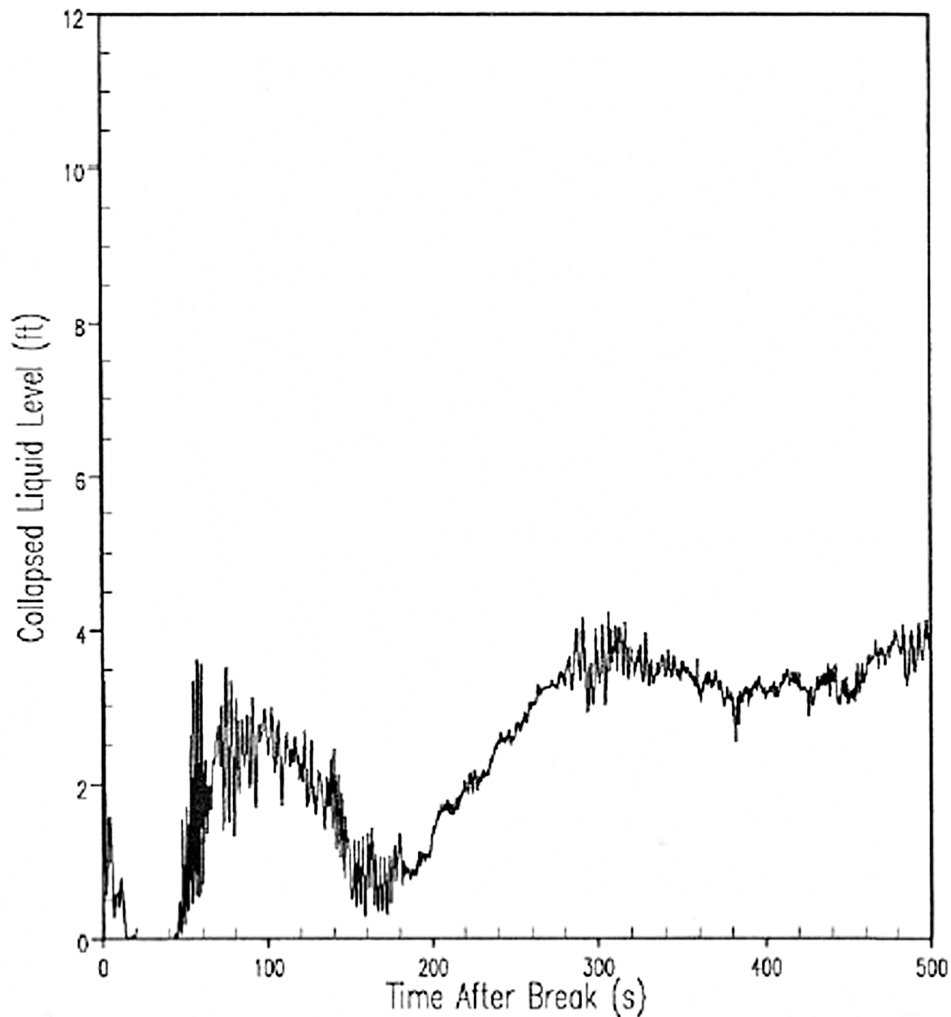


(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1Ka	Change Description: UCR-2179, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Loop 2 RHR and HHSI Flow for the Return to RCS NOP/NOT Evaluation		

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\* The reference point for the collapsed liquid level is the bottom of the active fuel.

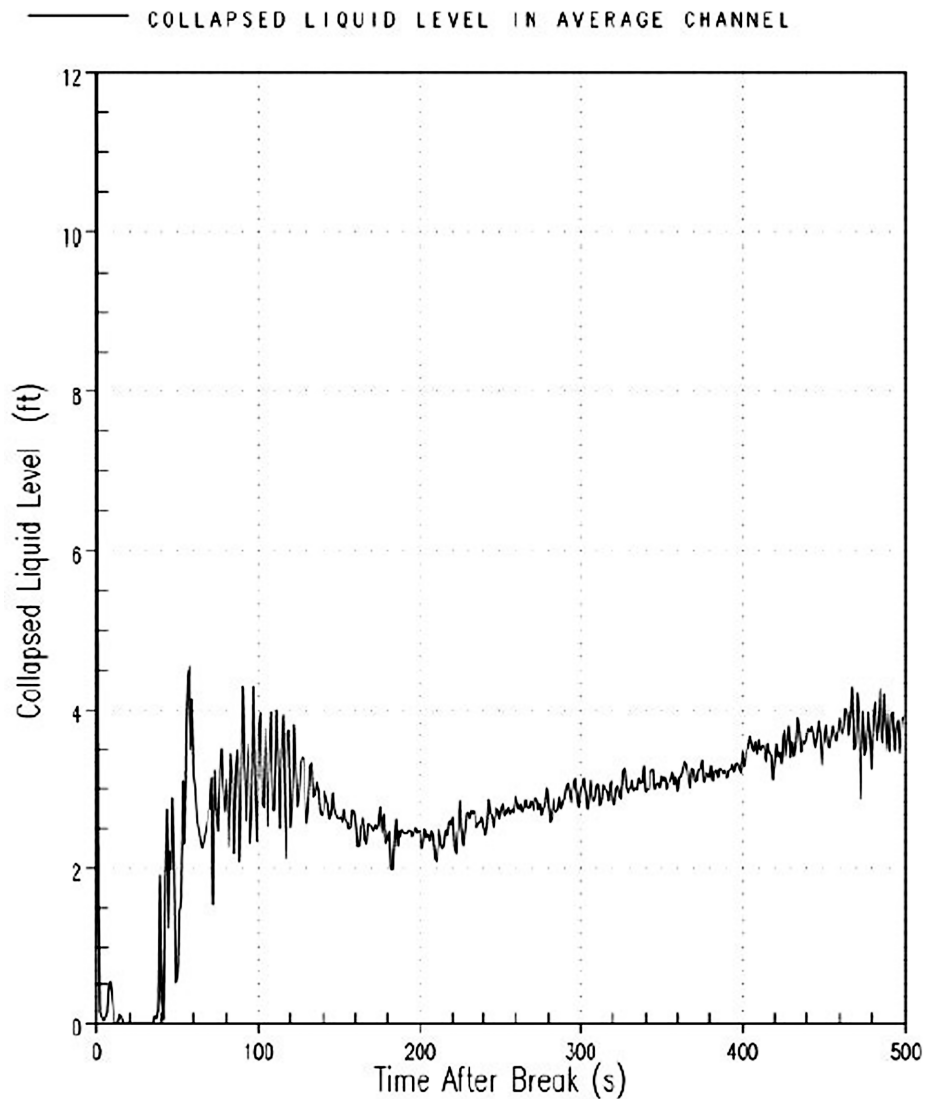
The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1La for more information.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1L	Change Description: UCR-2179, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Core Average Channel Collapsed Liquid Level *		

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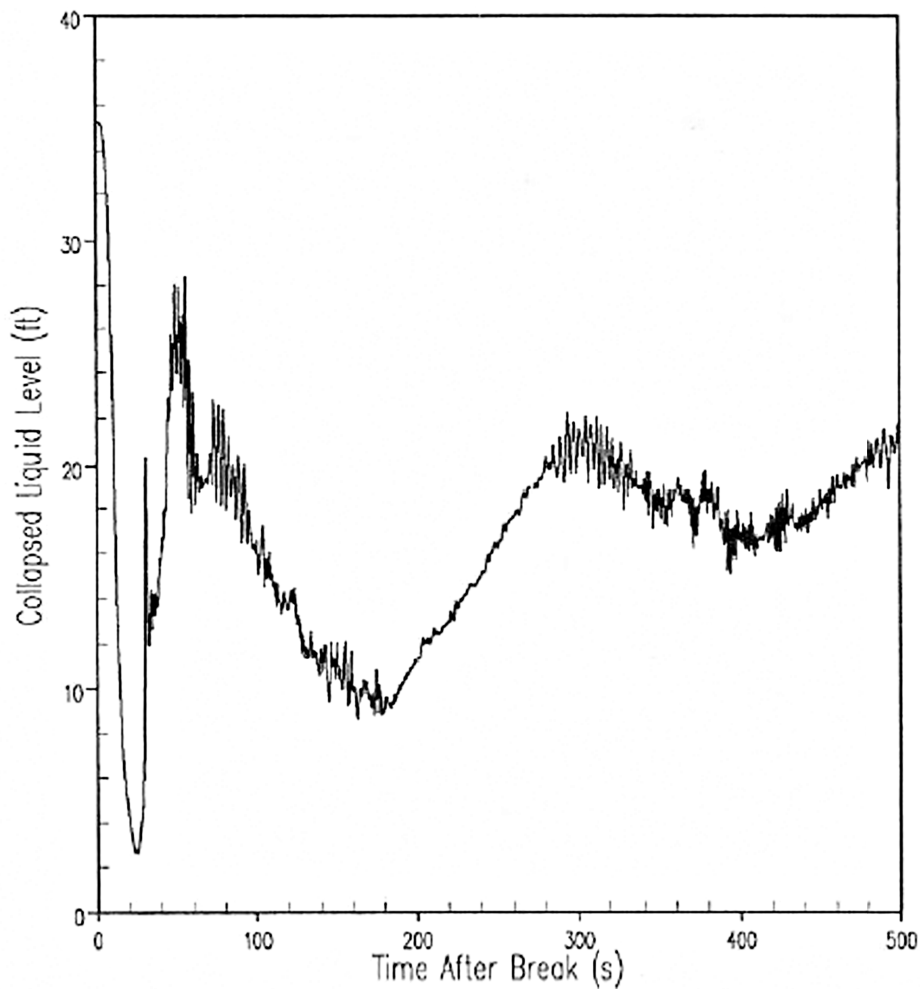
\* The reference point for the collapsed liquid level is the bottom of the active fuel.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1La	Change Description: UCR-2179, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Core Average Channel Collapsed Lipid Level or the Return to RCS NOP/NOT Evaluation*		

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\* The reference point for the downcomer liquid level is the bottom of the vessel.

The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1Ma for more information.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

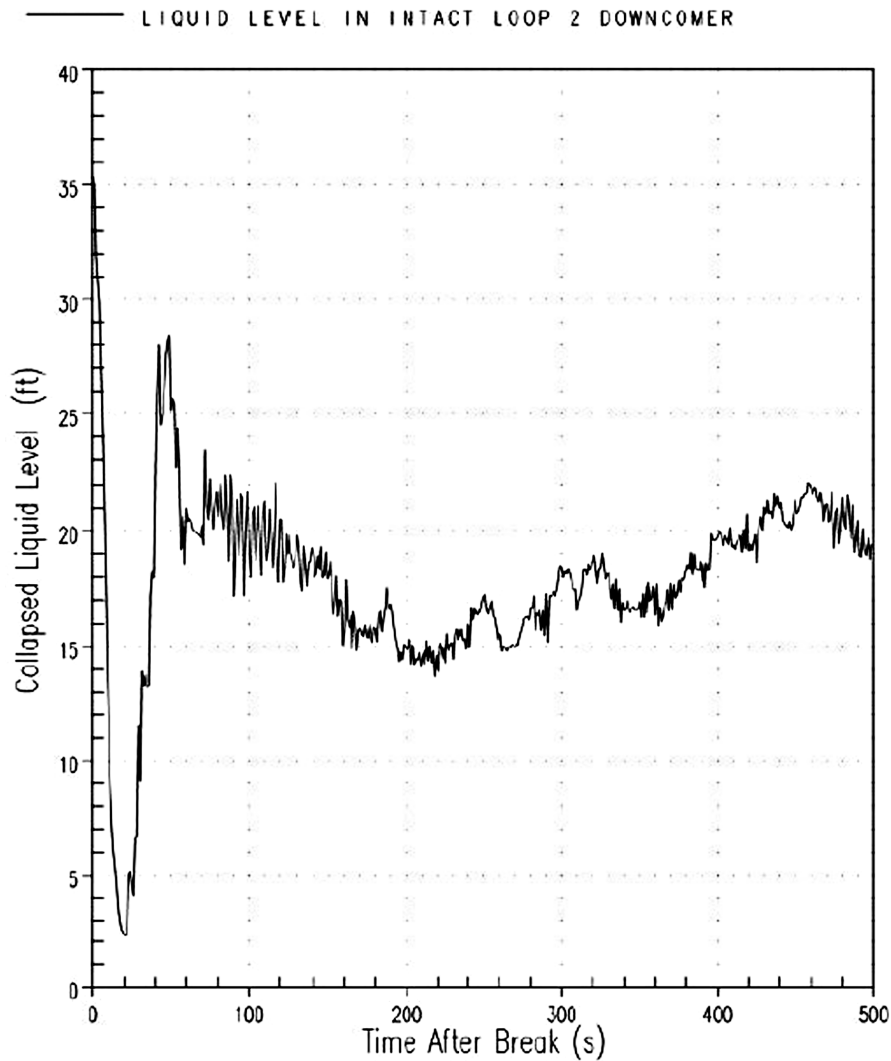
UFSAR Figure: 14.3.1-1M

Change Description:  
UCR-2179, Rev. 0

Unit 1

Title: D.C. Cook Unit 1 Limiting Case Loop 2 Downcomer Collapsed Liquid Level \*

<div><div><div>INDIANA MICHIGAN POWER</div><div>An AEP Company</div></div></div>	<div>INDIANA MICHIGAN POWER</div> <div>D. C. COOK NUCLEAR PLANT</div> <div>UPDATED FINAL SAFETY ANALYSIS REPORT</div>	<div>Revised: 28.0</div> <div>Chapter: 14</div> <div>Sheet: 1 of 1</div>
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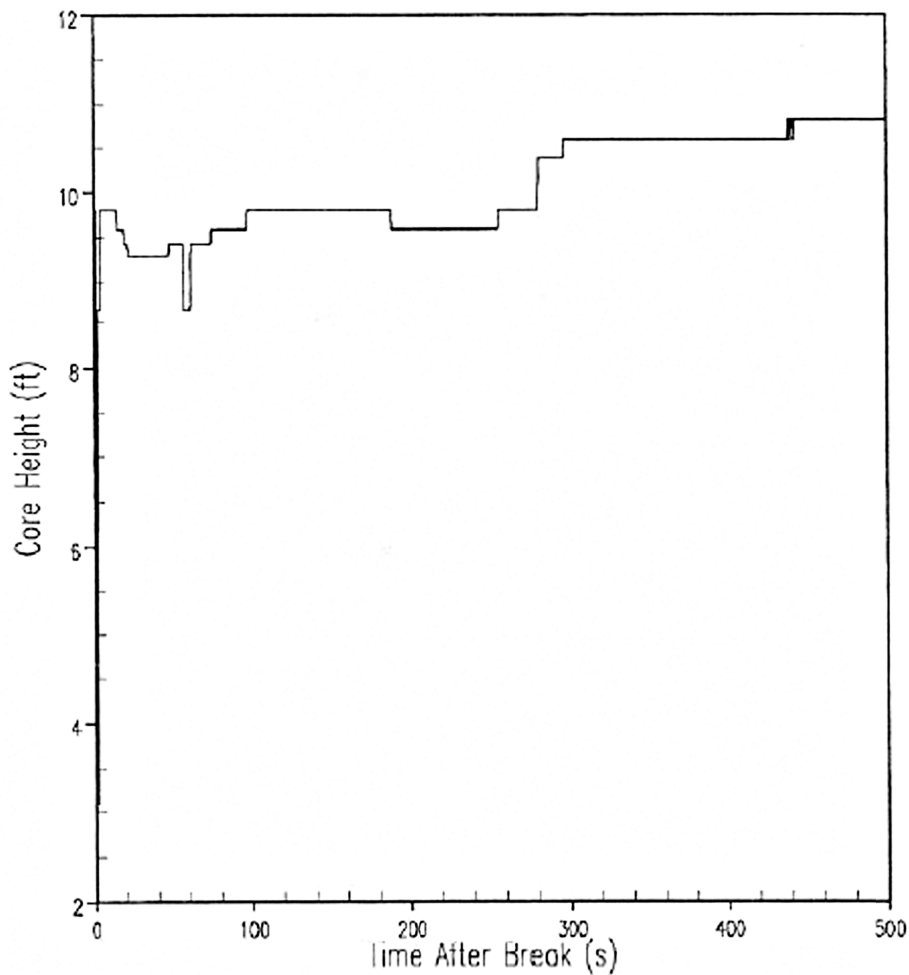
\* The reference point for the downcomer liquid level is the bottom of the vessel.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1Ma	Change Description: UCR-2179, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case Loop 2 Downcomer Collapsed Liquid Level for the Return to RCS NOP/NOT Evaluation*		

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\* The reference point for the PCT Location is the bottom of the active fuel.

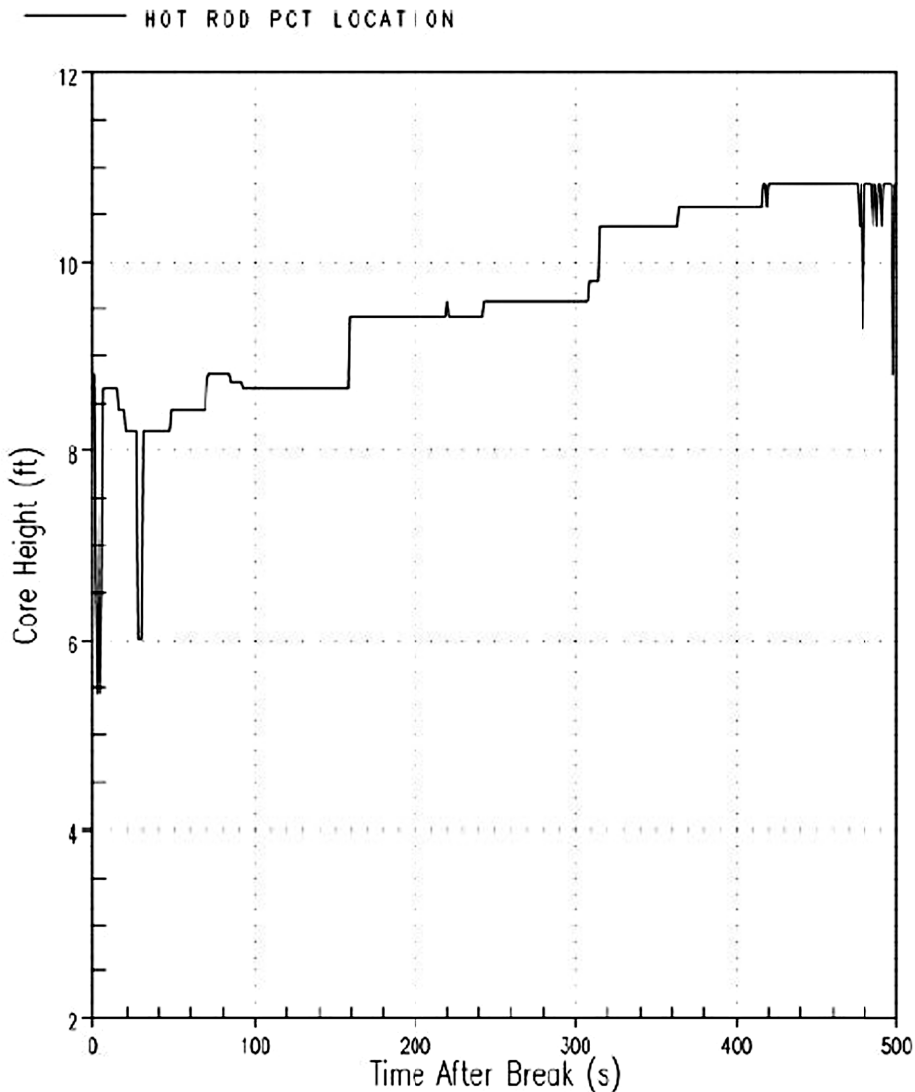
The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new limiting case. See Section 14.3.1.6.2 and Figure 14.3.1-1Na for more information.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1N	Change Description: UCR-2180, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case PCT Location *		

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\* The reference point for the PCT location is the bottom of the active fuel.

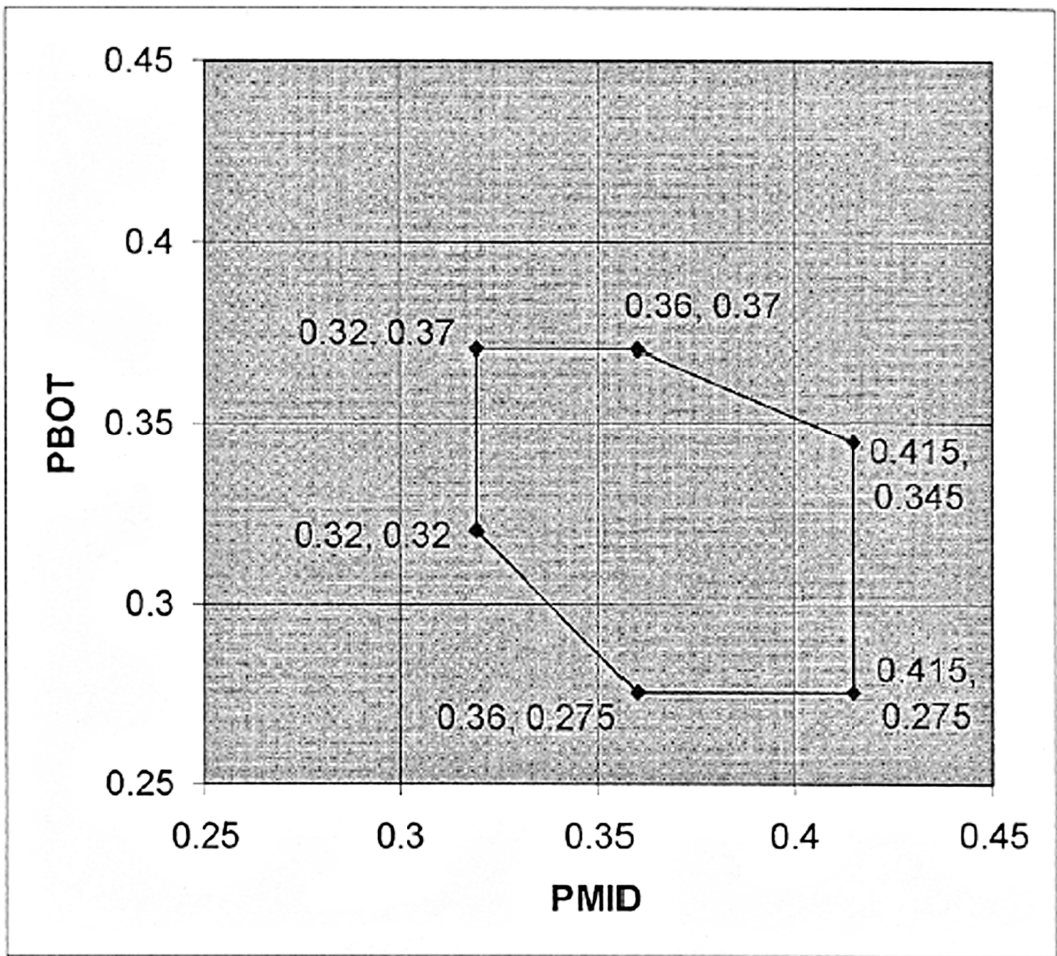
(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-1Na	Change Description: UCR-2180, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Limiting Case PCT Location for the Return to RCS NOP/NOT Evaluation *		



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

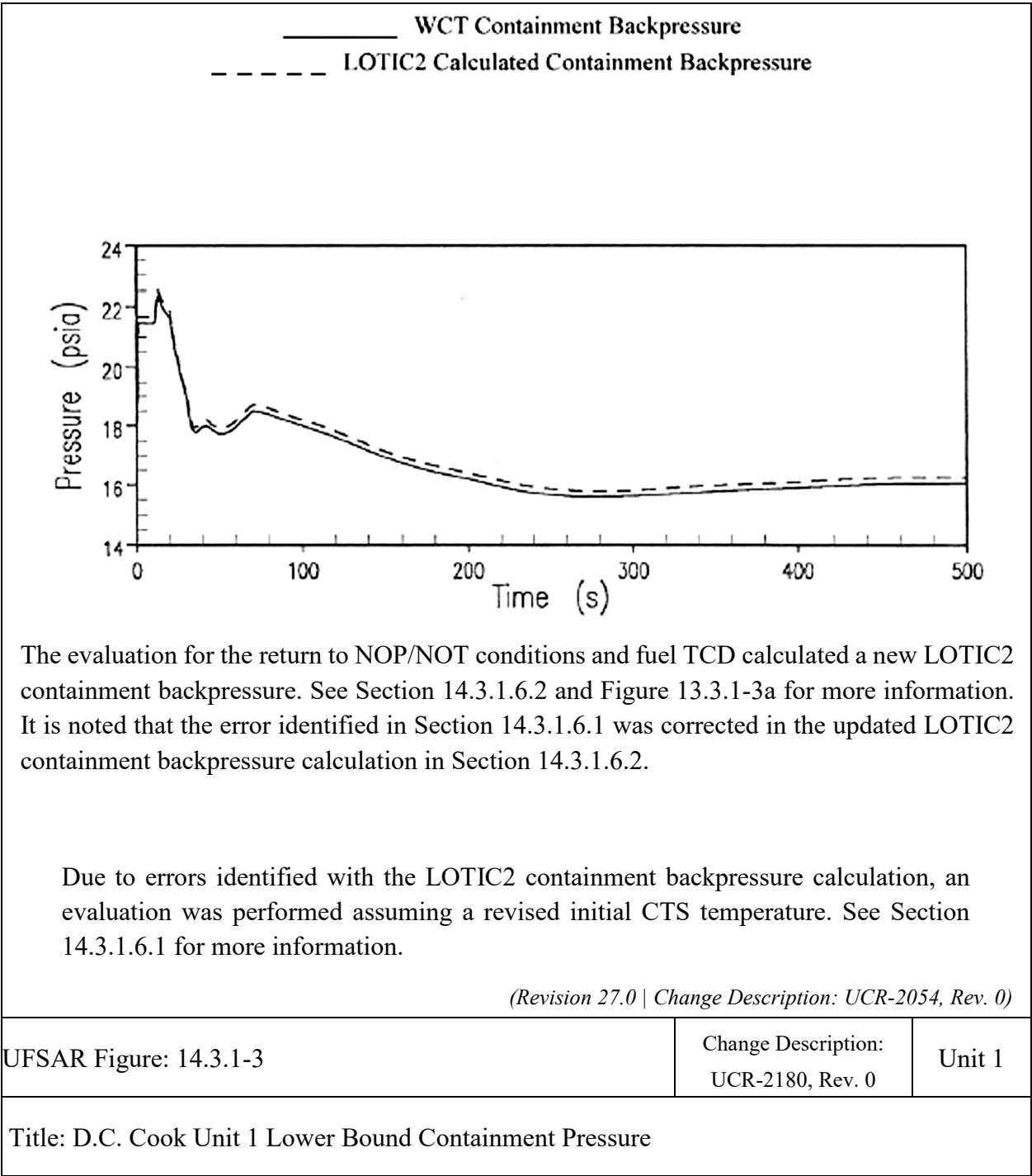
PMID = integrated power fraction in the middle third of the core

(Revision 23.0 | Change Description: UCR-1947, Rev. 0)

UFSAR Figure: 14.3.1-2	Change Description: UCR-2180, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 BELOCA Analysis Axial Power Shape Operating Space Envelope		

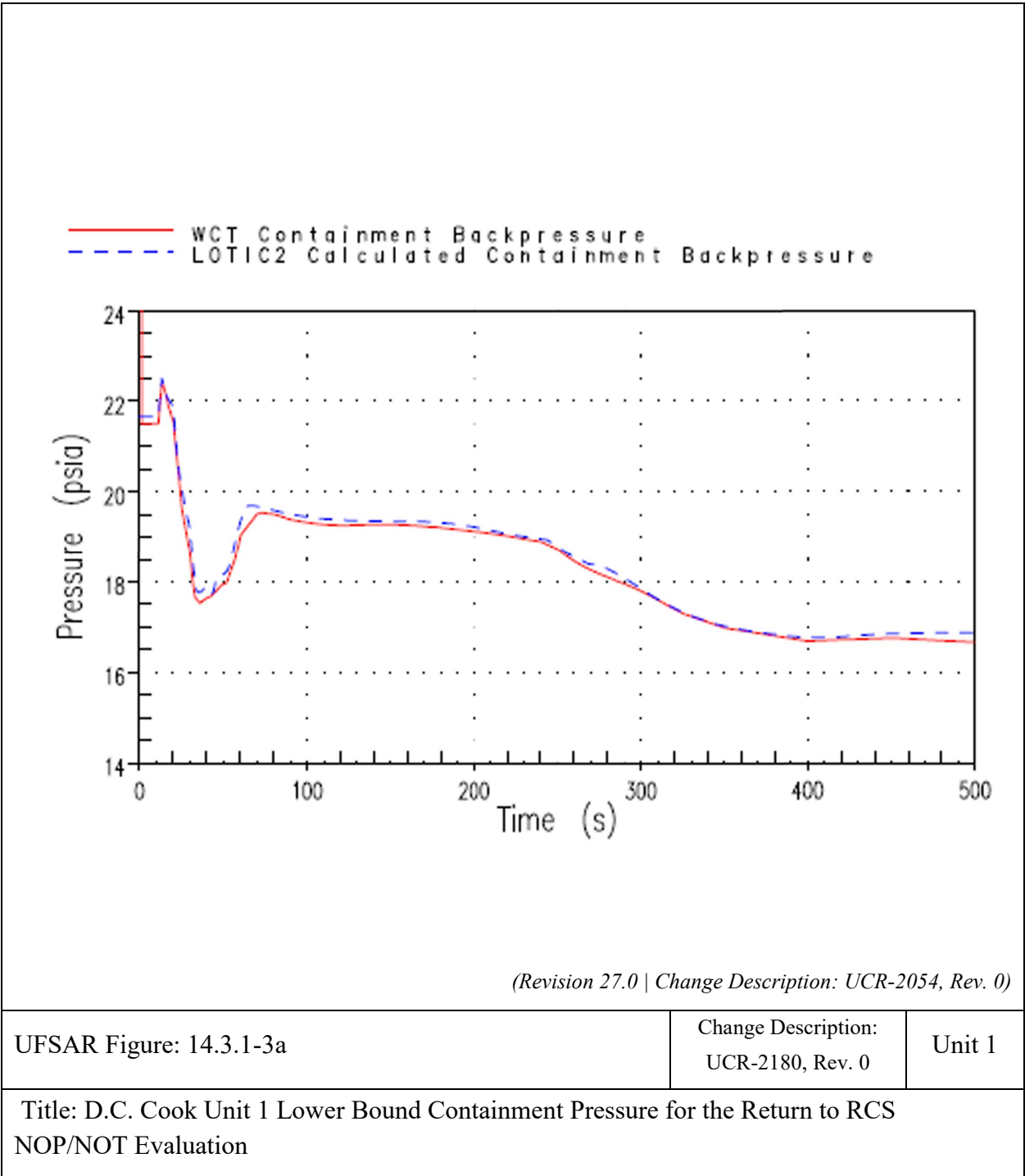
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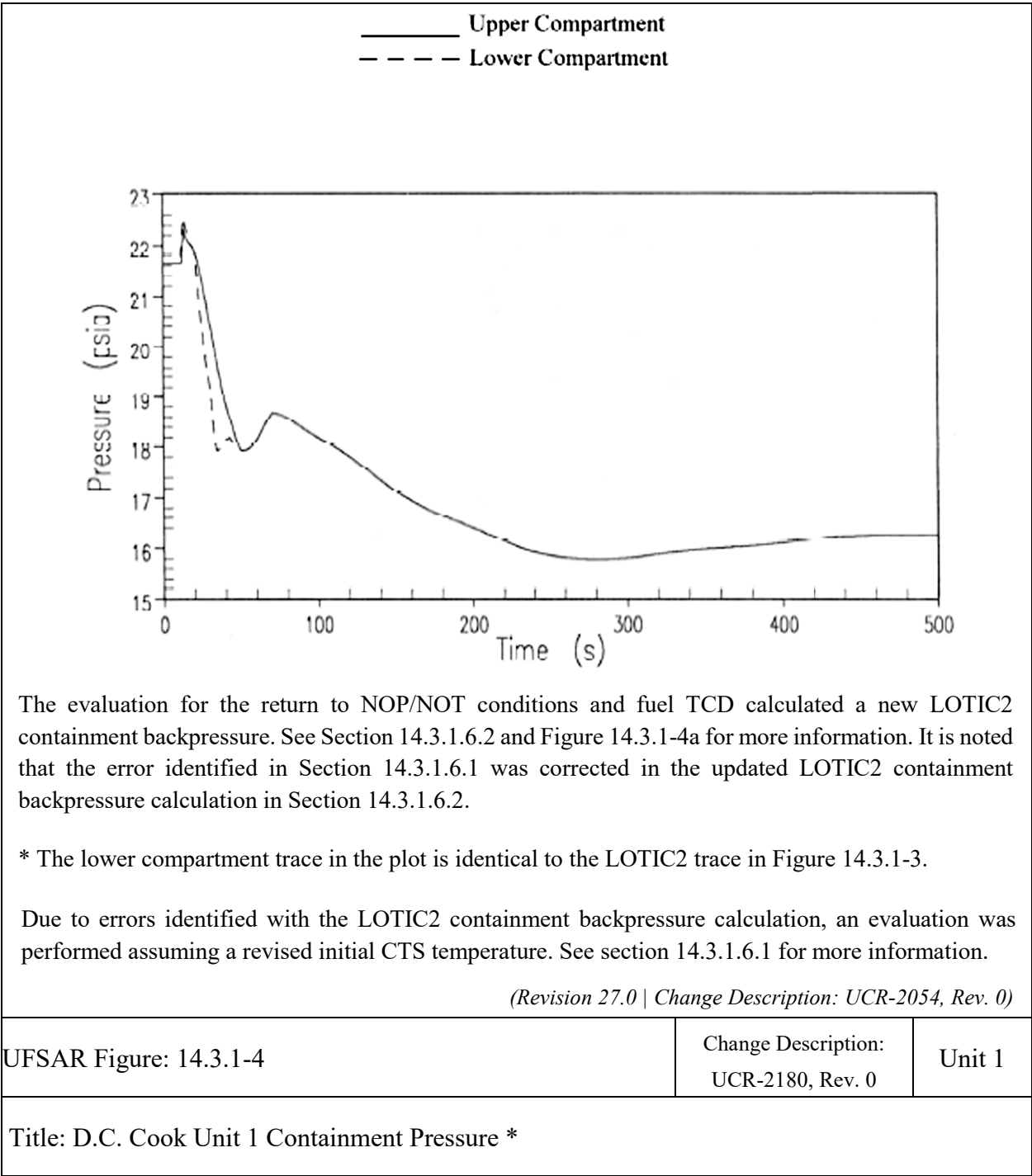
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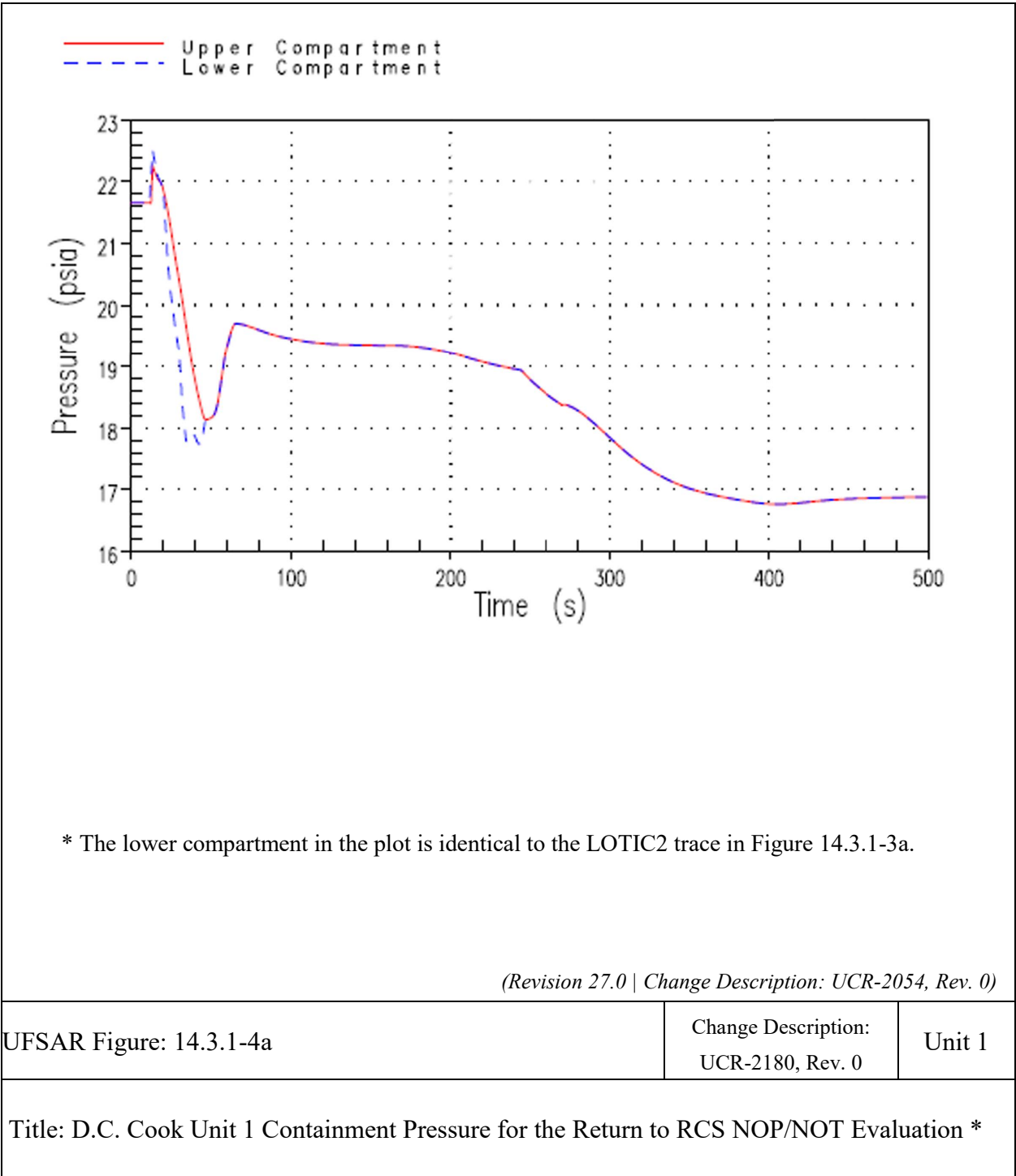
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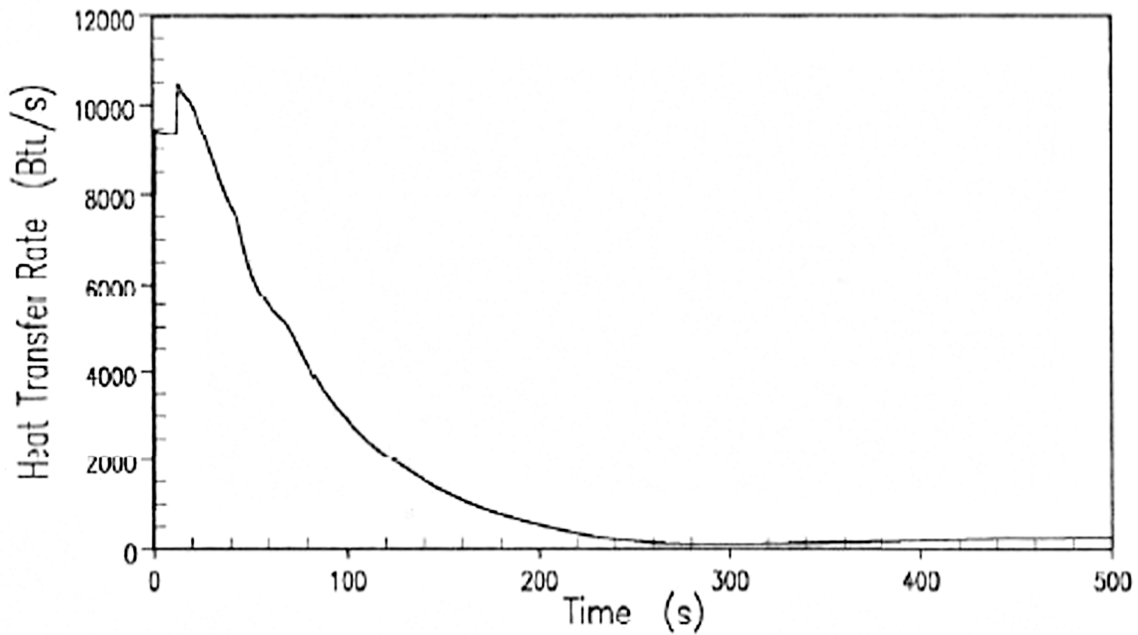
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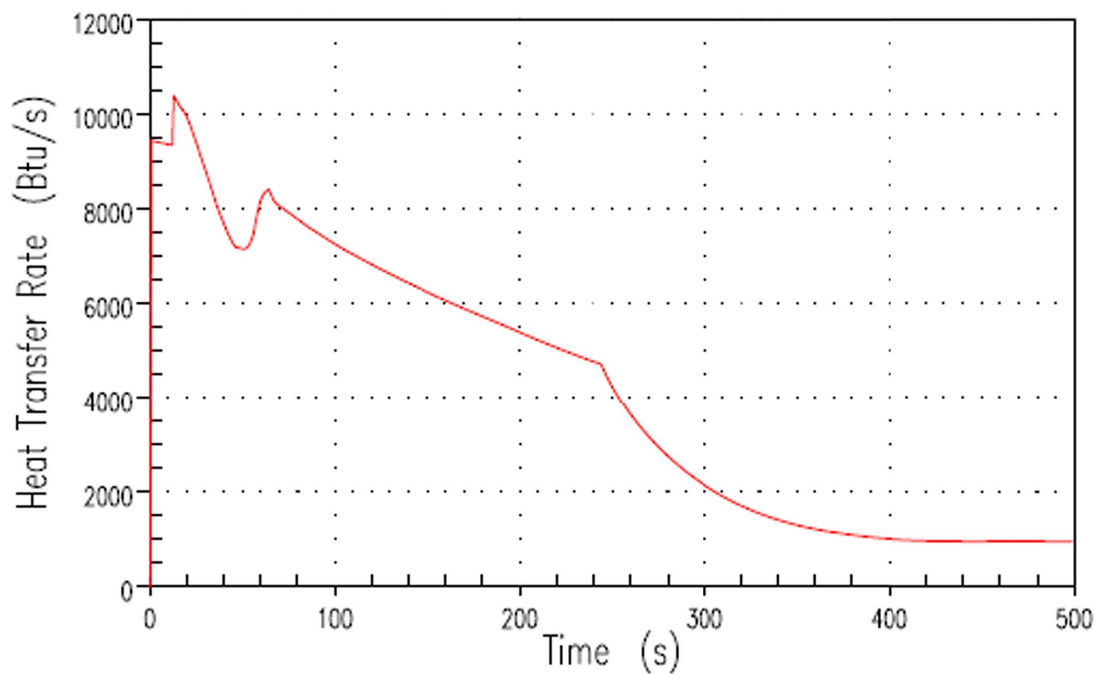
The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new LOTIC2 containment backpressure. See Section 14.3.1.6.2 and Figure 13.3.1-5a for more information. It is noted that the error identified in Section 14.3.1.6.1 was corrected in the updated LOTIC2 containment backpressure calculation in Section 14.3.1.6.2.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-5	Change Description: UCR-2180, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Structural Heat Removal Rate		

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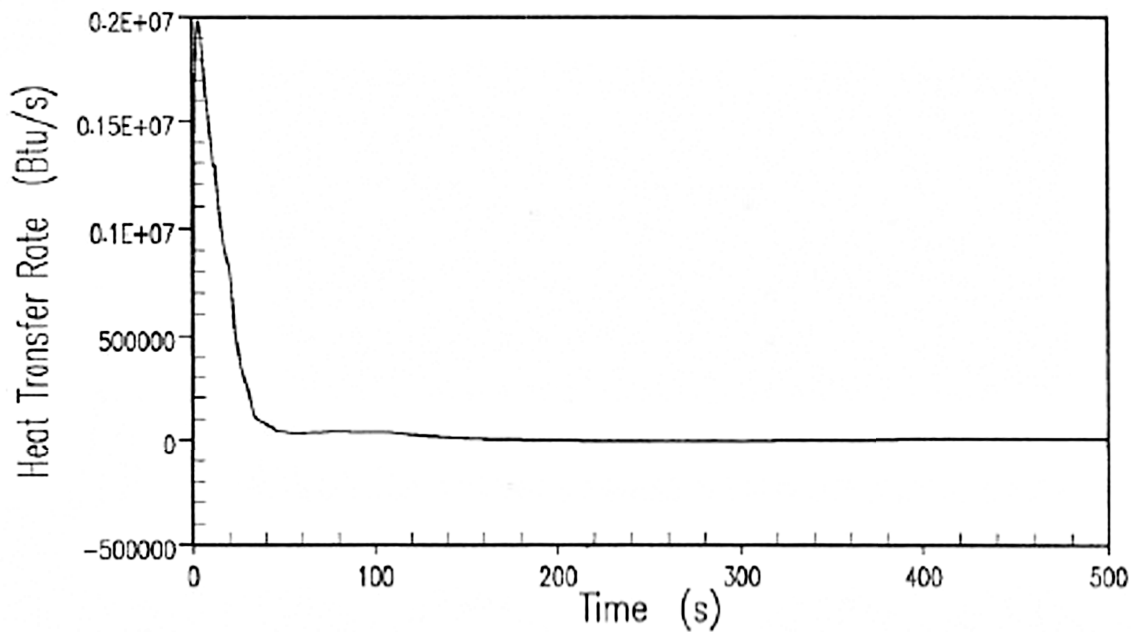


(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-5a	Change Description: UCR-2180, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Structural Heat Removal Rate for the Return to RCS NOP/NOT Evaluation		

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The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new LOTIC2 containment backpressure. See Section 14.3.1.6.2 and Figure 13.3.1-6a for more information. It is noted that the error identified in Section 14.3.1.6.1 was corrected in the updated LOTIC2 containment backpressure calculation in Section 14.3.1.6.2.

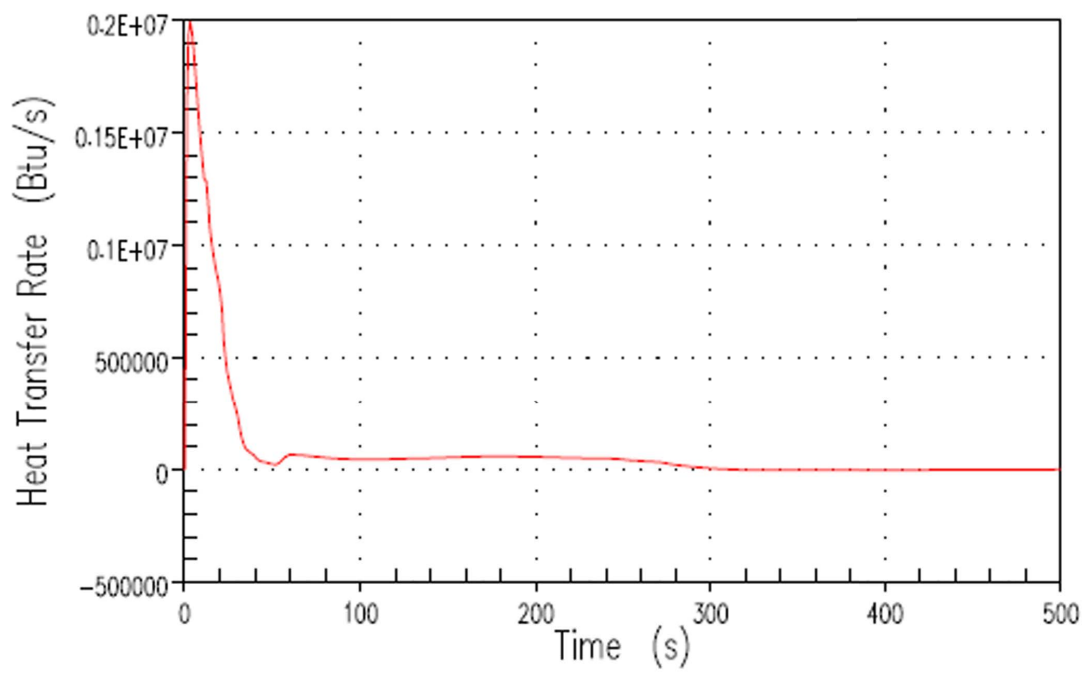
(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-6	Change Description: UCR-2180, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Lower Compartment Structural Heat Removal Rate		



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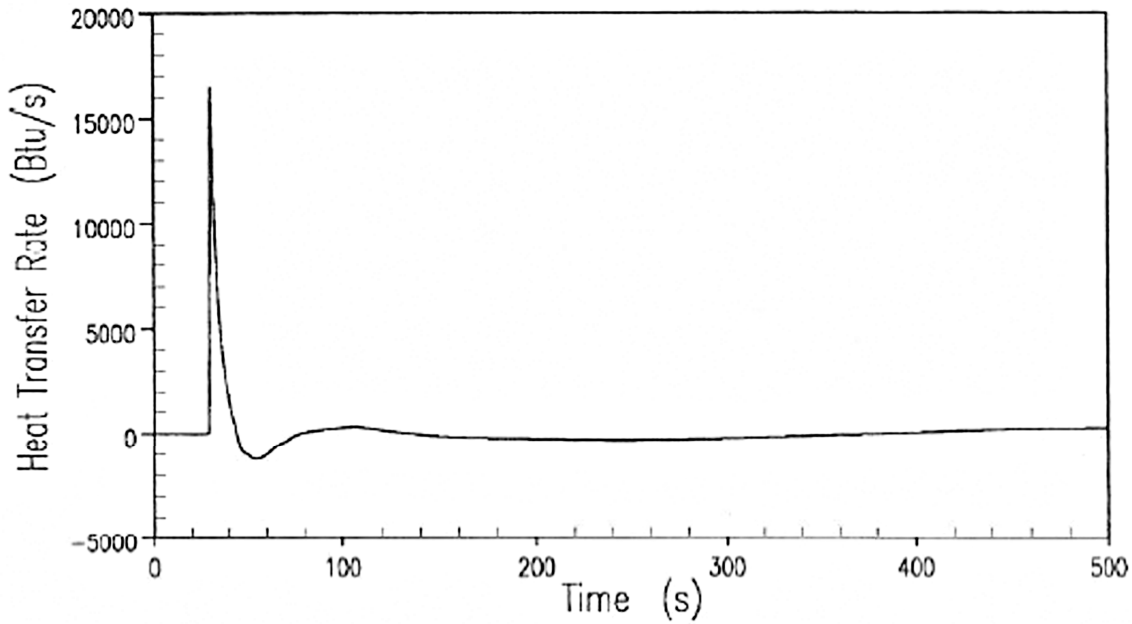


(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-6a	Change Description: UCR-2181, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Lower Compartment Structural Heat Removal Rate for the Return to RCS NOP/NOT Evaluation		

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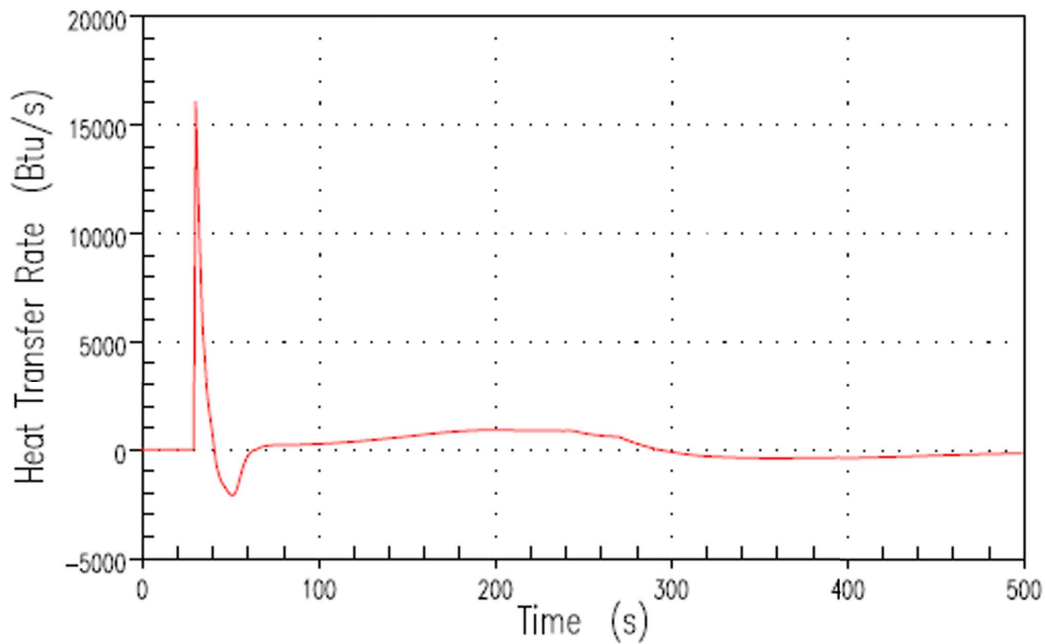
The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new LOTIC2 containment backpressure. See Section 14.3.1.6.2 and Figure 14.3.1-7a for more information. It is noted that the error identified in Section 14.3.1.6.1 was corrected in the updated LOTIC2 containment backpressure calculation in Section 14.3.1.6.2.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-7	Change Description: UCR-2181, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Heat Removal by Sump		

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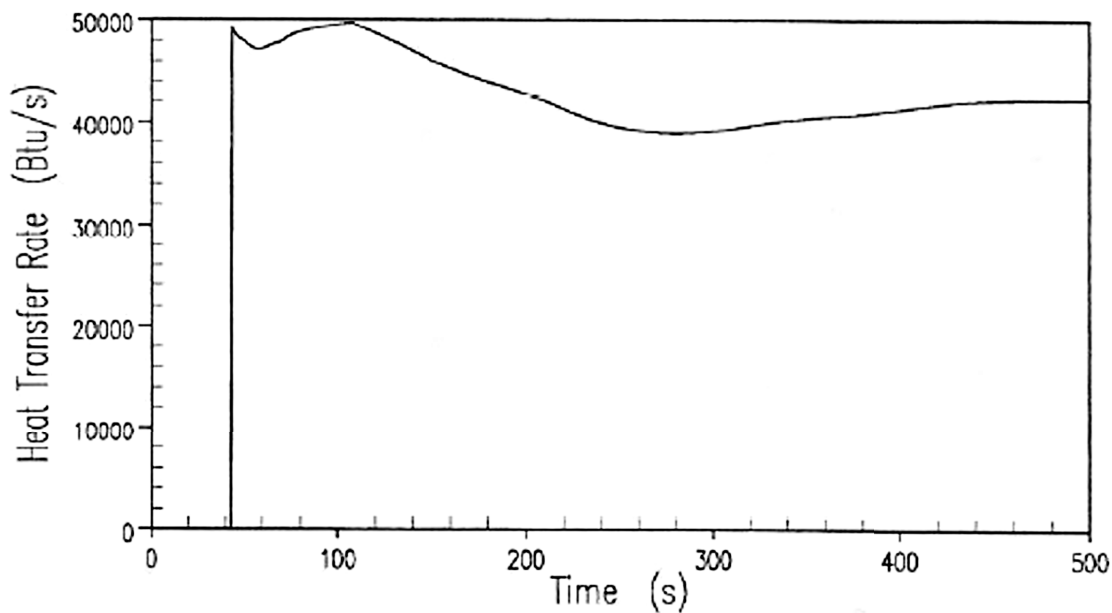


(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

UFSAR Figure: 14.3.1-7a	Change Description: UCR-2181, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Heat Removal by Sump for the Return to RCS NOP/NOT Evaluation		

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The evaluation for the return to NOP/NOT conditions and fuel TCD calculated a new LOTIC2 containment backpressure. See Section 14.3.1.6.2 and Figure 14.3.1-8a for more information. It is noted that the error identified in Section 14.3.1.6.1 was corrected in the updated LOTIC2 containment backpressure calculation in Section 14.3.1.6.2.

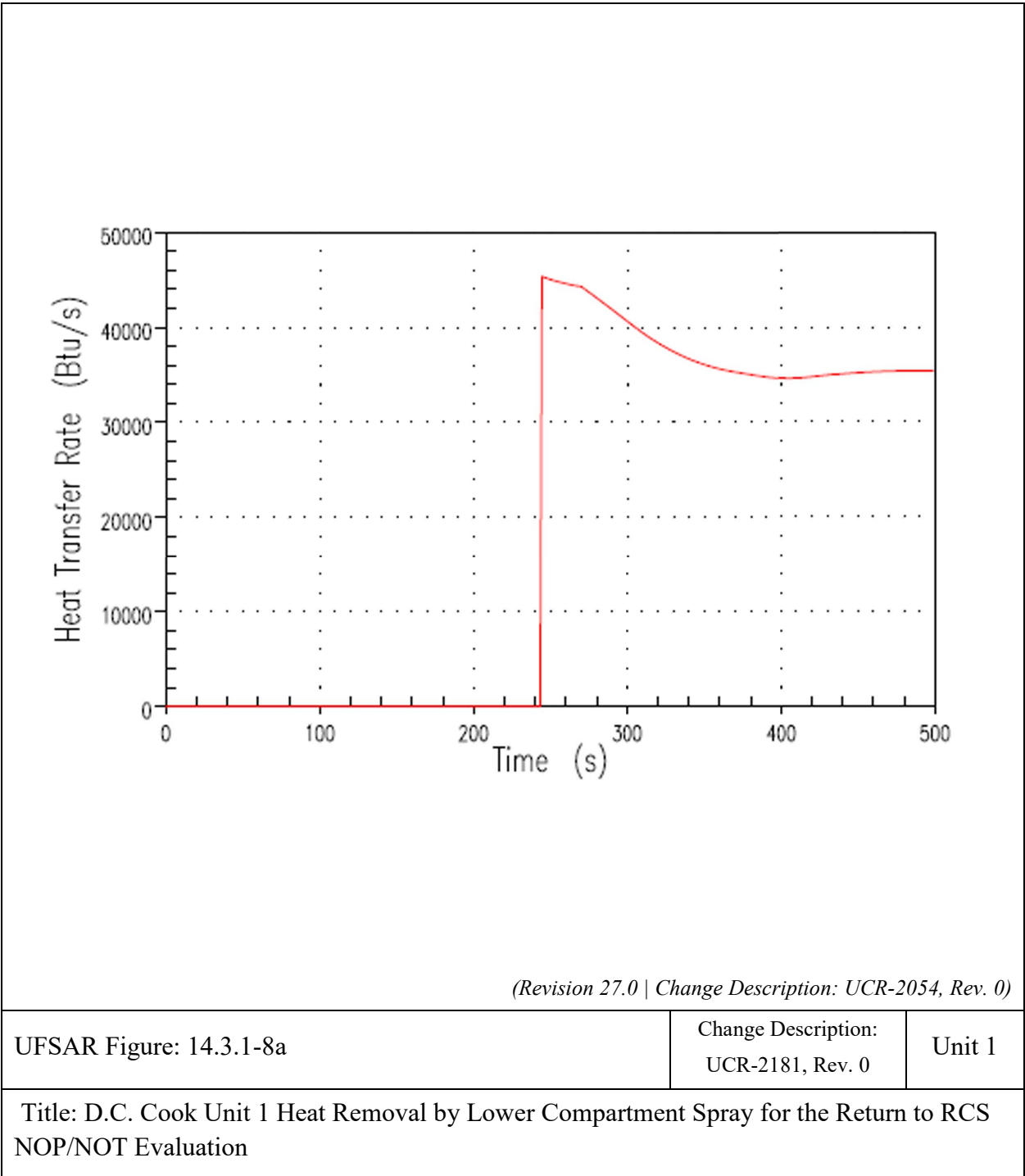
Due to errors identified with the LOTIC2 containment backpressure calculation, an evaluation was performed assuming a revised initial CTS temperature. See section 14.3.1.6.1 for more information.

*(Revision 27.0 | Change Description: UCR-2054, Rev. 0)*


UFSAR Figure: 14.3.1-8	Change Description: UCR-2181, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Heat Removal by Lower Compartment Spray		

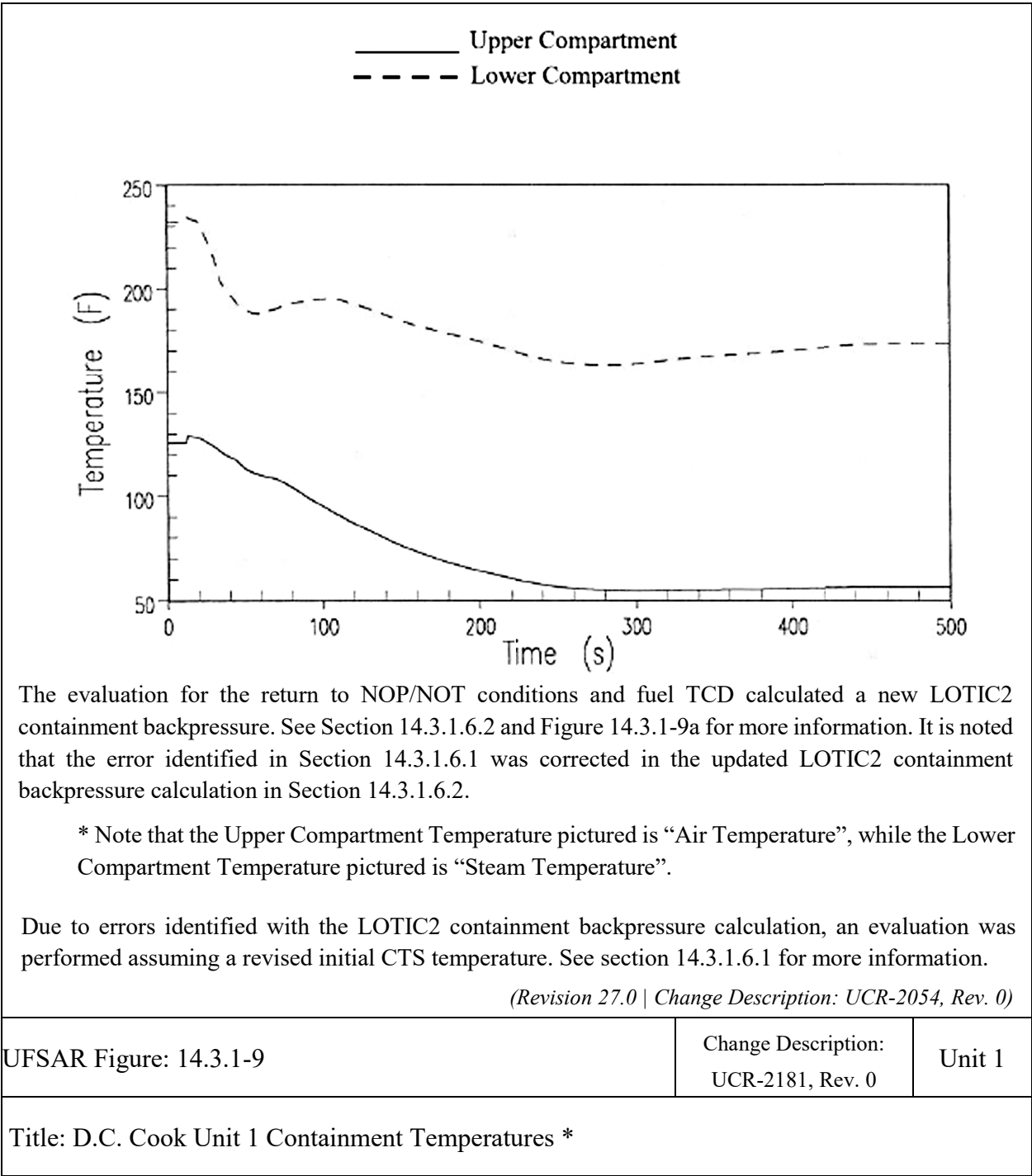
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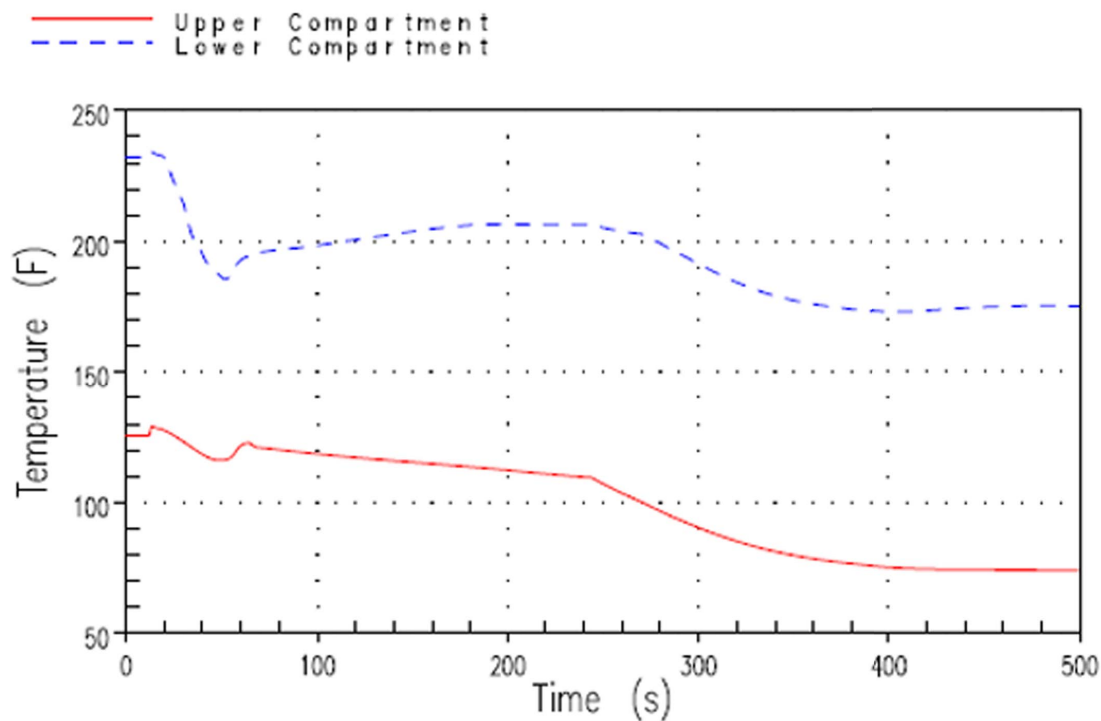
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\* Note that the Upper Compartment Temperature pictured is “Air Temperature”, while the Lower Compartment Temperature pictured is “Steam Temperature”.

(Revision 27.0 | Change Description: UCR-2054, Rev. 0)

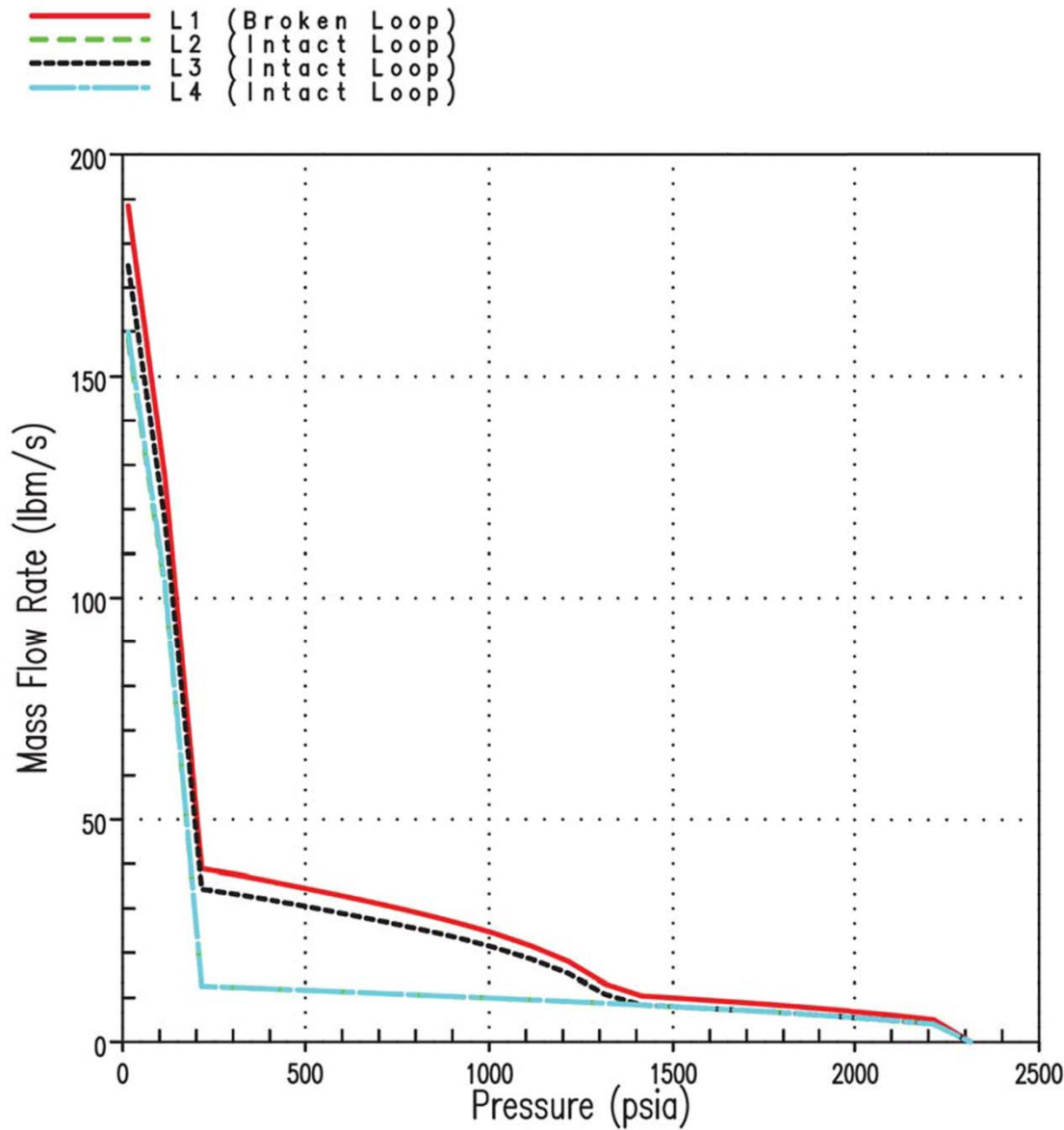
UFSAR Figure: 14.3.1-9a	Change Description: UCR-2181, Rev. 0	Unit 1
Title: D.C. Cook Unit 1 Containment Temperatures for the Return to RCS NOP/NOT Evaluation *		

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UFSAR Figure: 14.3.2-1

Change Description:  
**UCR-2001, Rev. 0**


Title: **Pumped Safety Injection Flow Rate – Injection Phase  
Faulted Loop Spilling to Reactor Coolant Pressure**

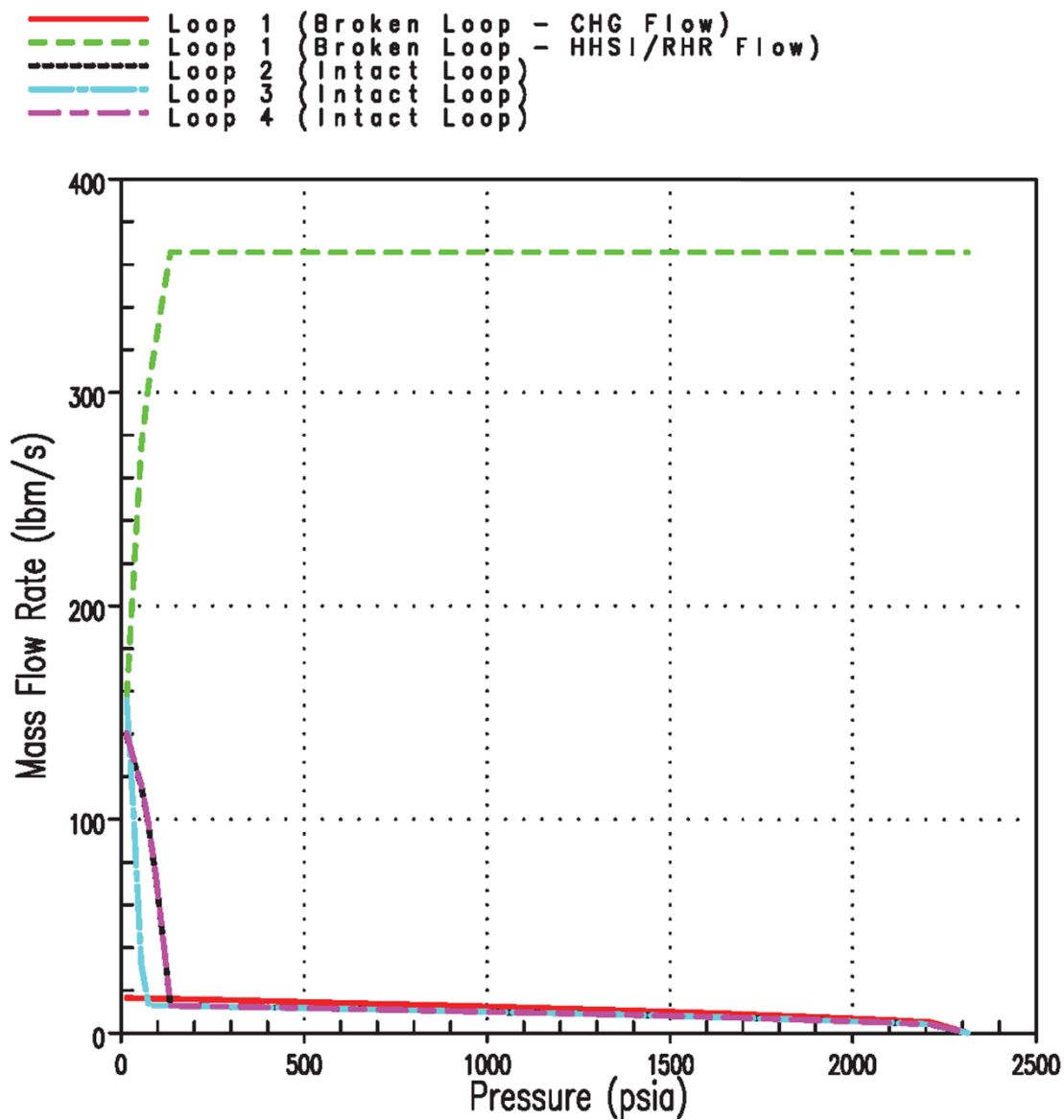
Unit: **1**

Last Revised: Revision 25.0



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UFSAR Figure: 14.3.2-2

Change Description:  
UCR-2001, Rev. 0

Title: Pumped Safety Injection Flow Rate - Injection Phase-  
Faulted Loop CHG Spilling to RCS Pressure - Faulted Loop  
HHSI/RHR Spilling to Containment Pressure

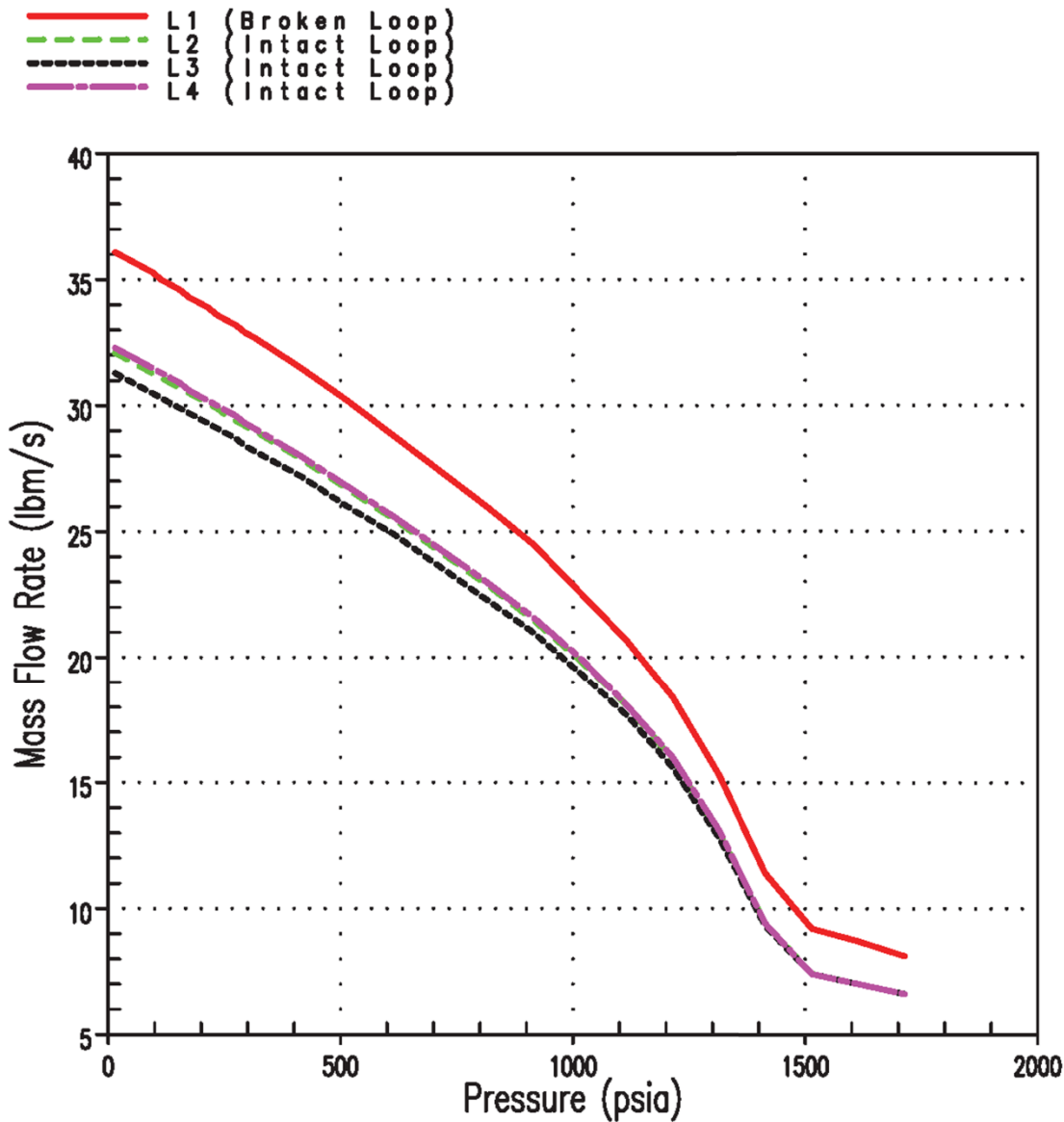
Unit: 1

Last Revised: Revision 25.0



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UFSAR Figure: 14.3.2-3

Change Description:  
**UCR-2001, Rev. 0**

Title: **Pumped Safety Injection Flow Rate – Recirculation  
Phase Faulted Loop Spilling to Reactor Coolant System  
Pressure**

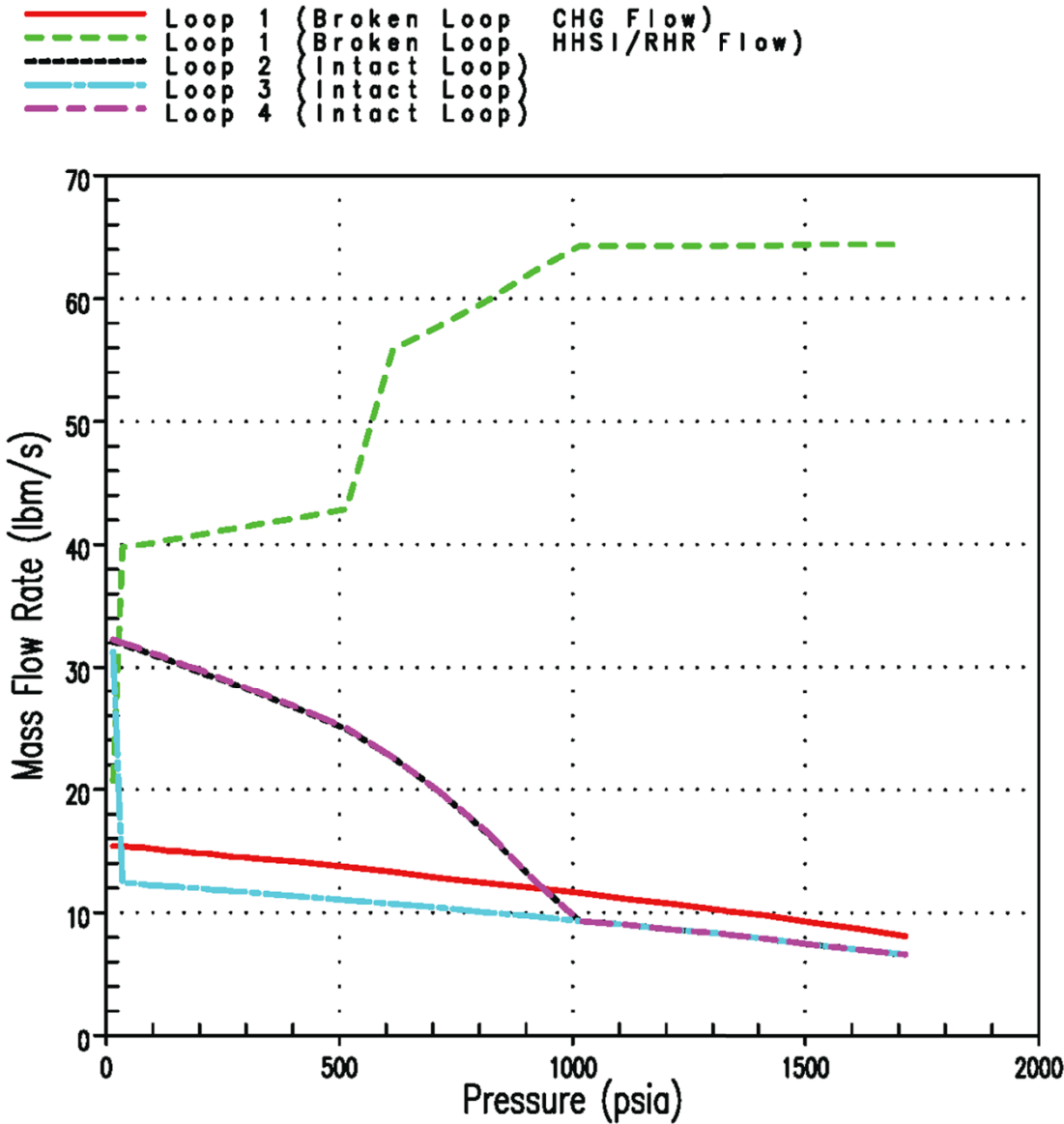
Unit: **1**

Last Revised: Revision 25.0



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UFSAR Figure: 14.3.2-4

Change Description:  
UCR-2001, Rev. 0

Title: Pumped Safety Injection Flow Rate - Recirculation  
Phase - Faulted Loop CHG Spilling to RCS Pressure - Faulted  
Loop HHSI/RHR Spilling to Containment Pressure

Unit: 1

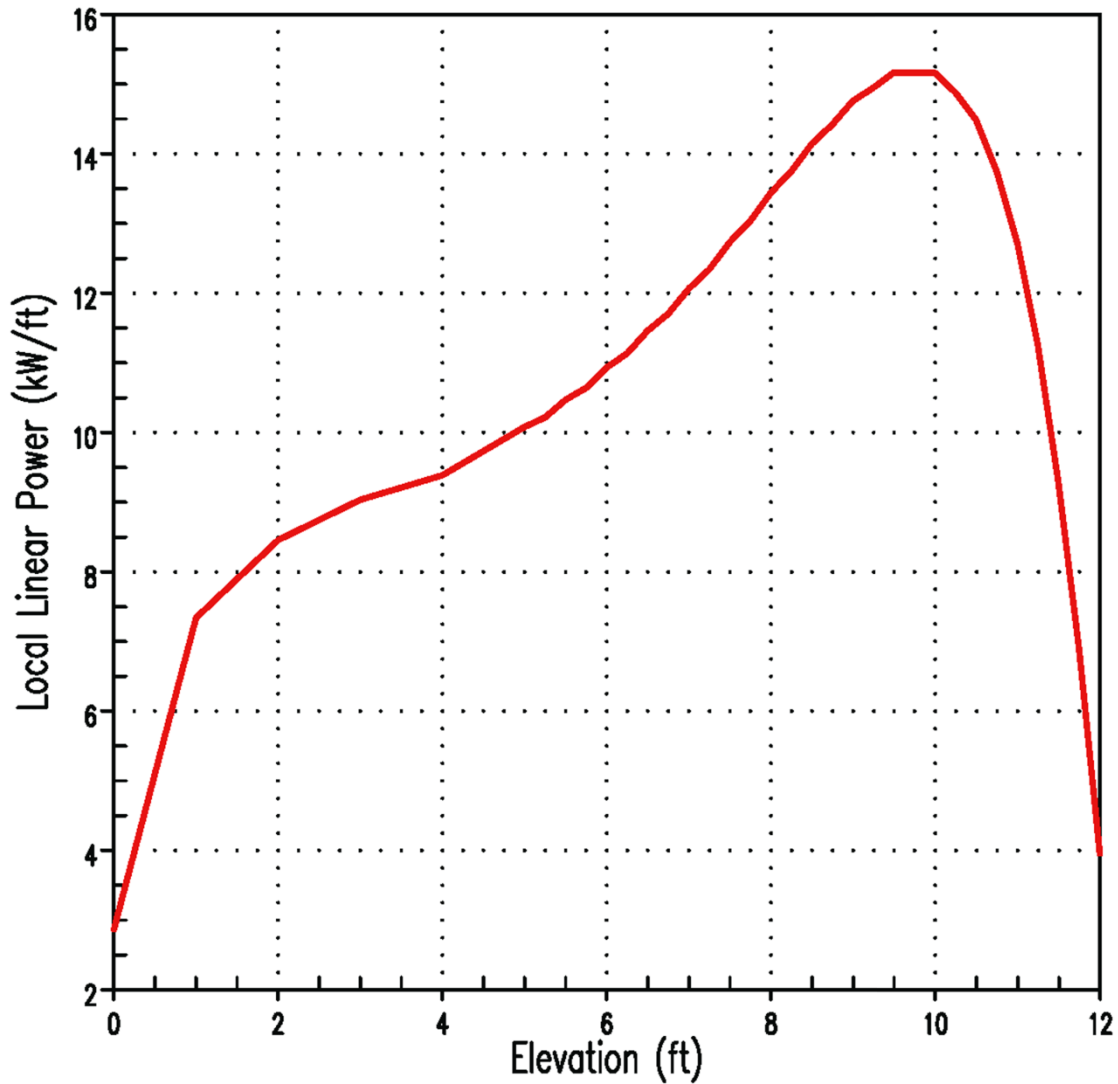
Last Revised: Revision 25.0

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UFSAR Figure: 14.3.2-5


Change Description:  
**UCR-2001, Rev. 0**

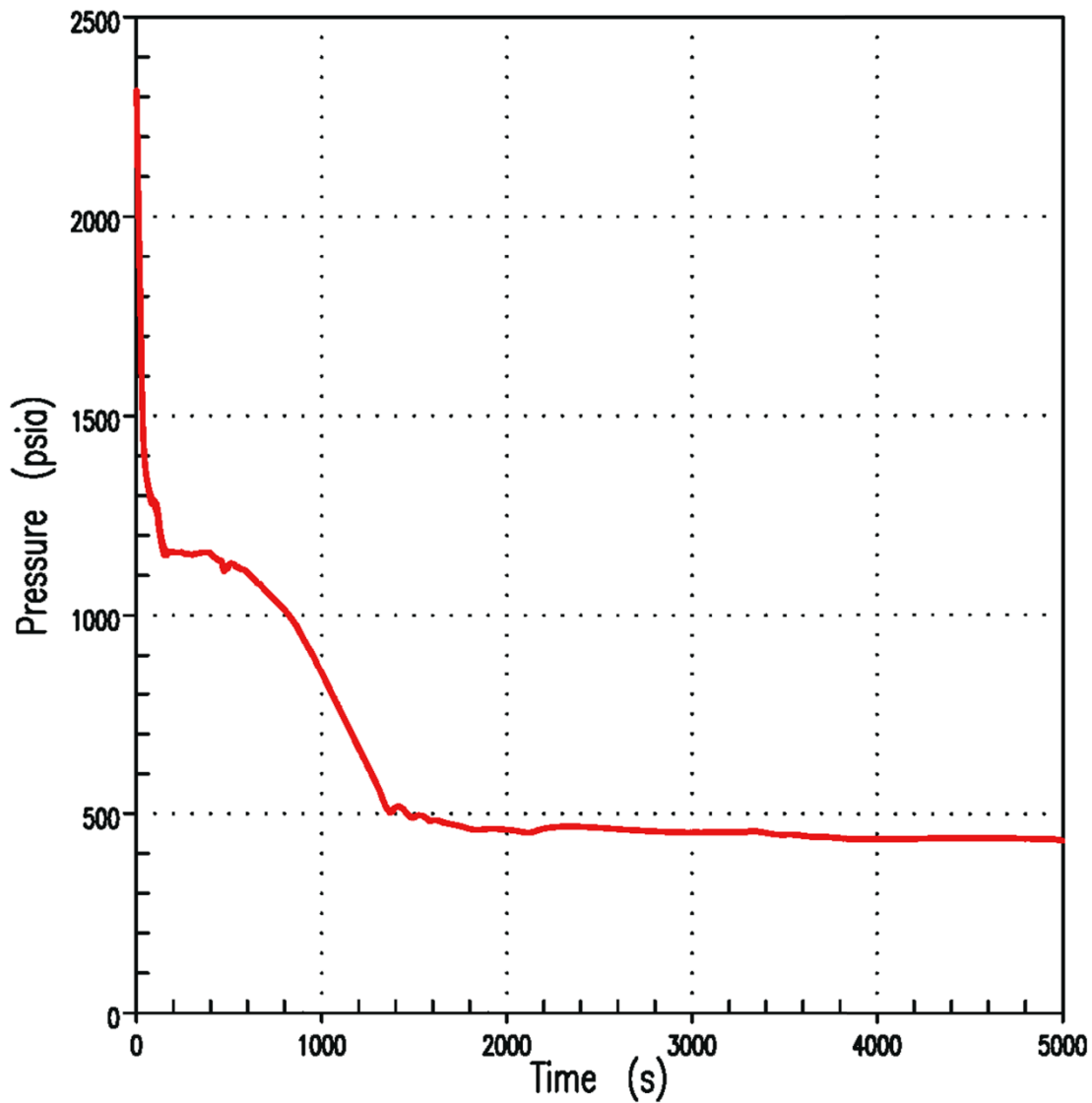
Title: **Hot Rod Axial Power Shape**

Unit: **1**

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UFSAR Figure: 14.3.2-6


Change Description:  
**UCR-2001, Rev. 0**

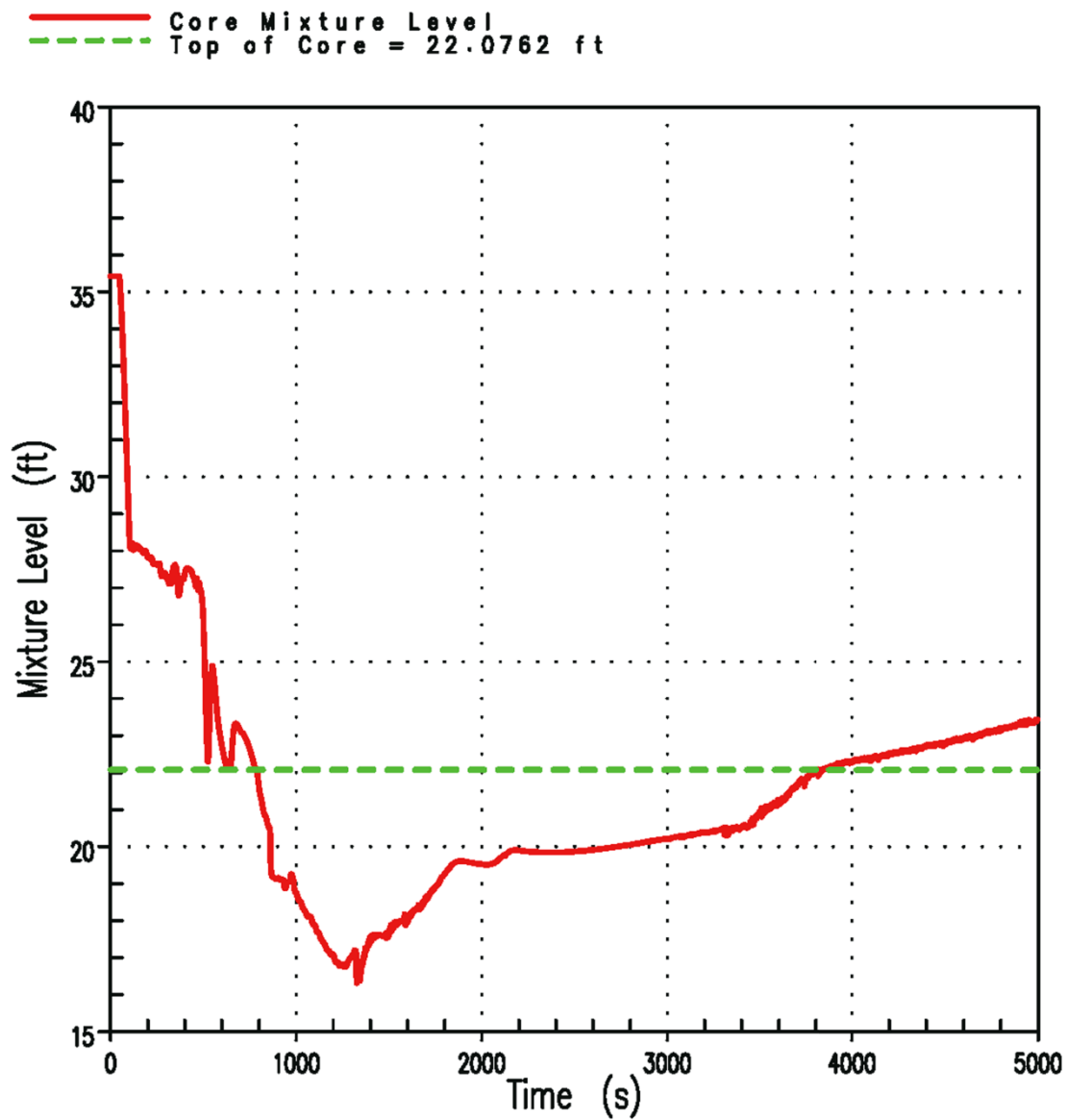
Title: **Reactor Coolant System Pressure - 3.25-inch**

Unit: **1**

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UFSAR Figure: 14.3.2-7


Change Description:  
**UCR-2001, Rev. 0**

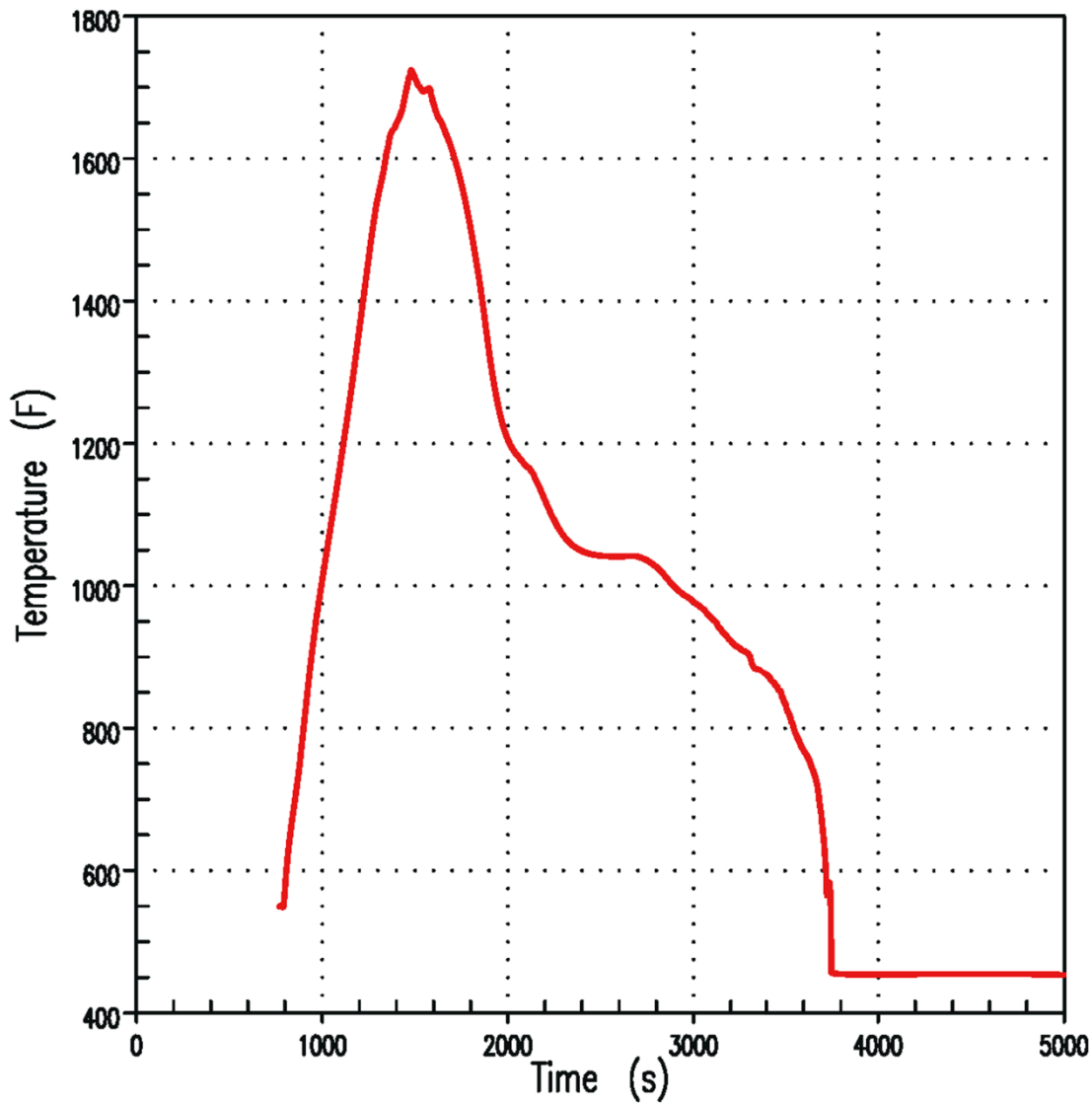
Title: Core Mixture Level - 3.25-inch

Unit: 1

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UFSAR Figure: 14.3.2-8


Change Description:  
**UCR-2001, Rev. 0**

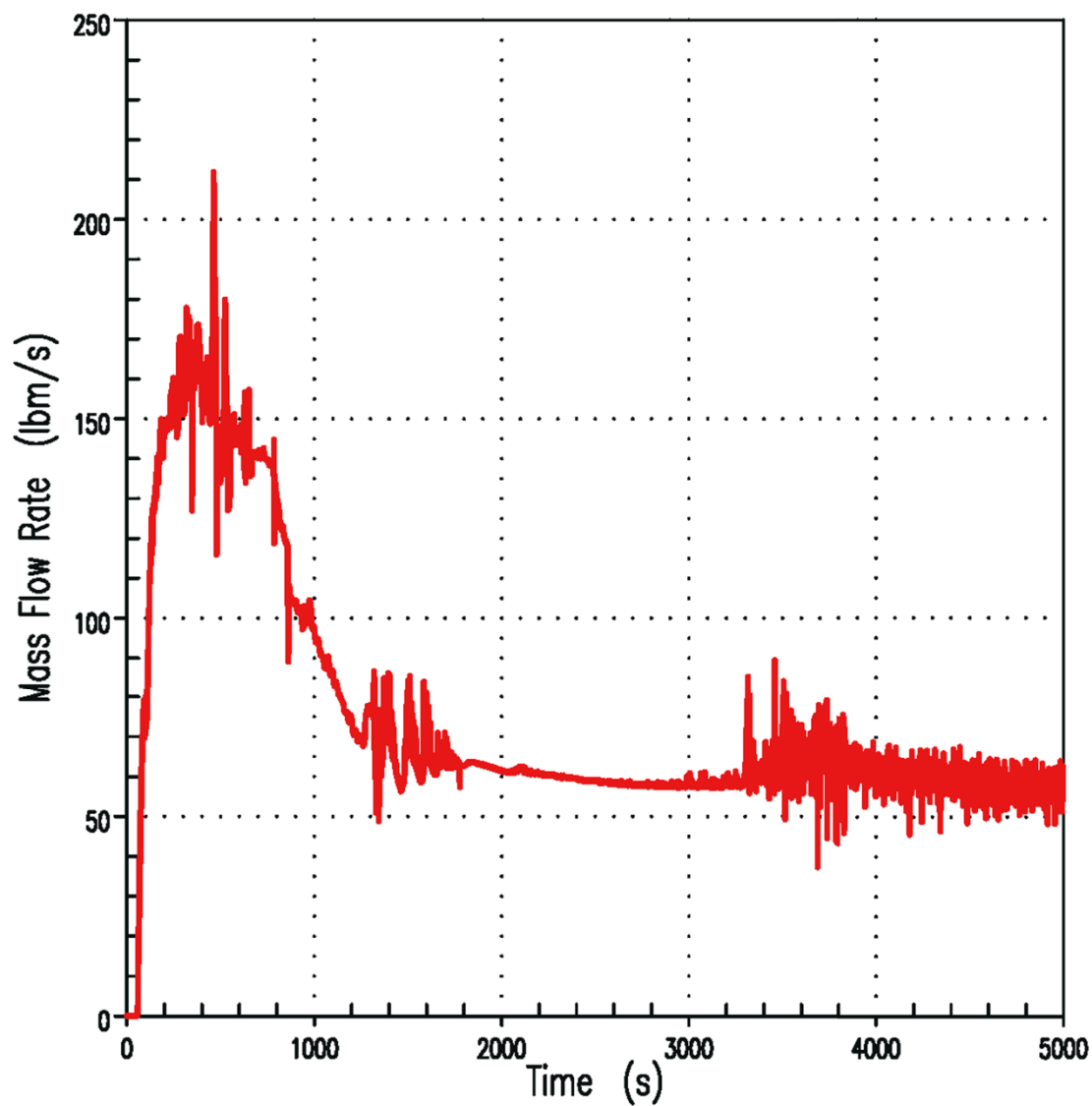
Title: **Clad Temperature at Peak Clad Temperature  
Elevation (11.75 ft) 3.25-inch**

Unit: **1**

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UFSAR Figure: 14.3.2-9

Change Description:  
**UCR-2001, Rev. 0**

Title: Vapor Mass Flow Rate Out of Top of Core 3.25-inch

Unit: 1

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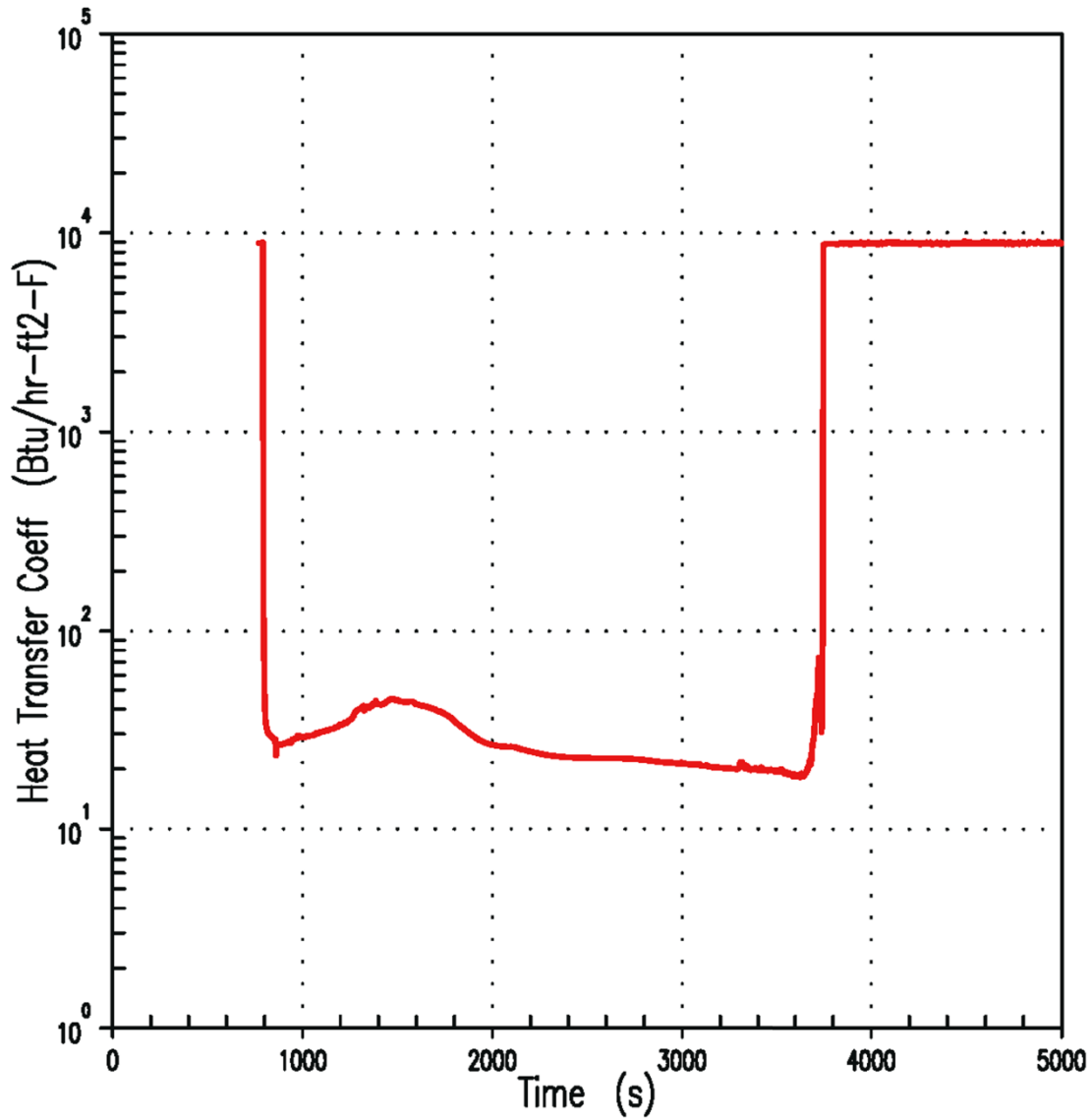


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UFSAR Figure: 14.3.2-10

Change Description:  
**UCR-2001, Rev. 0**

Title: Clad Surface Heat Transfer Coefficient at Peak Clad  
Temperature Elevation 3.25-inch

Unit: 1

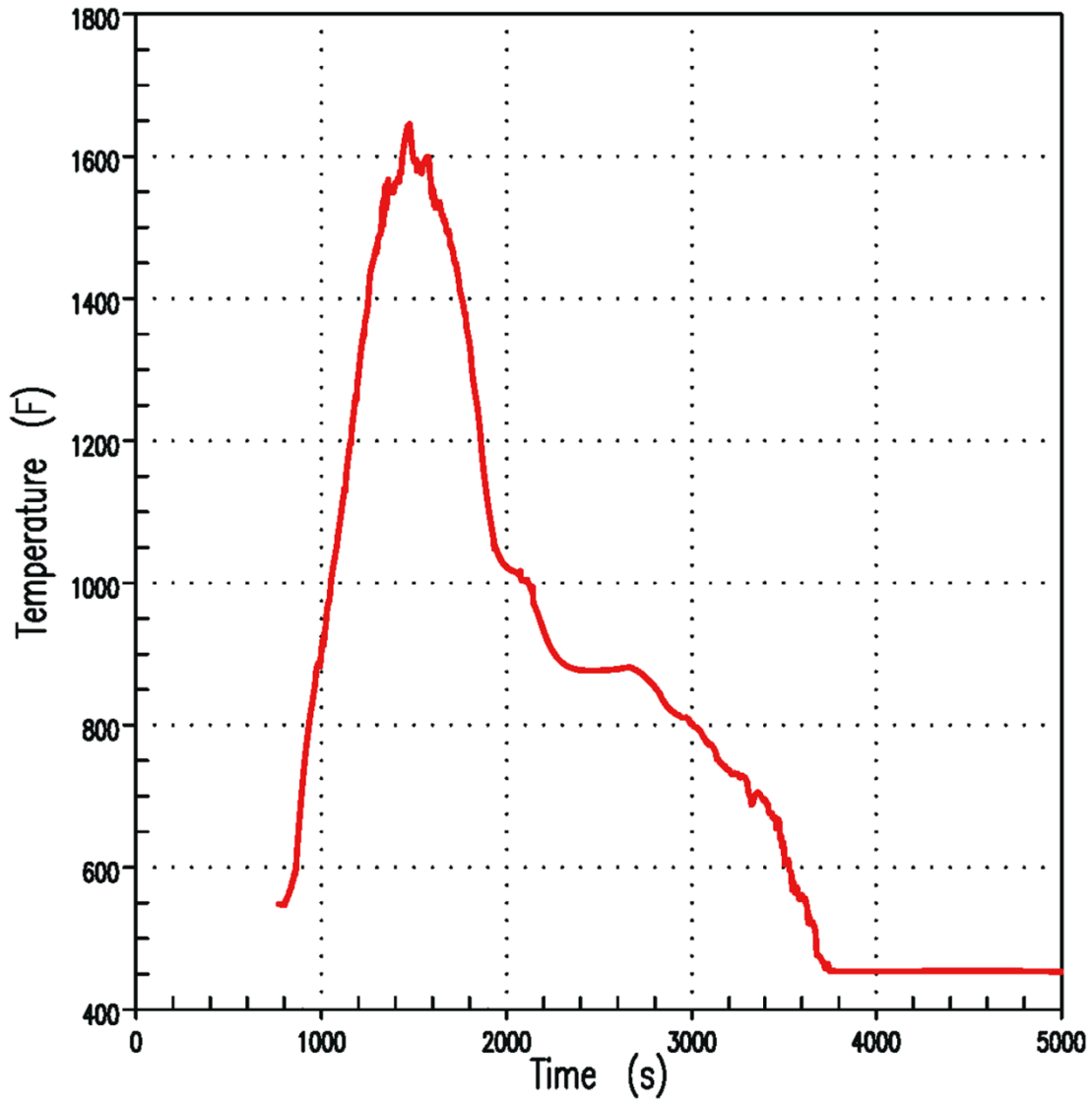
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UFSAR Figure: 14.3.2-11


Change Description:  
**UCR-2001, Rev. 0**

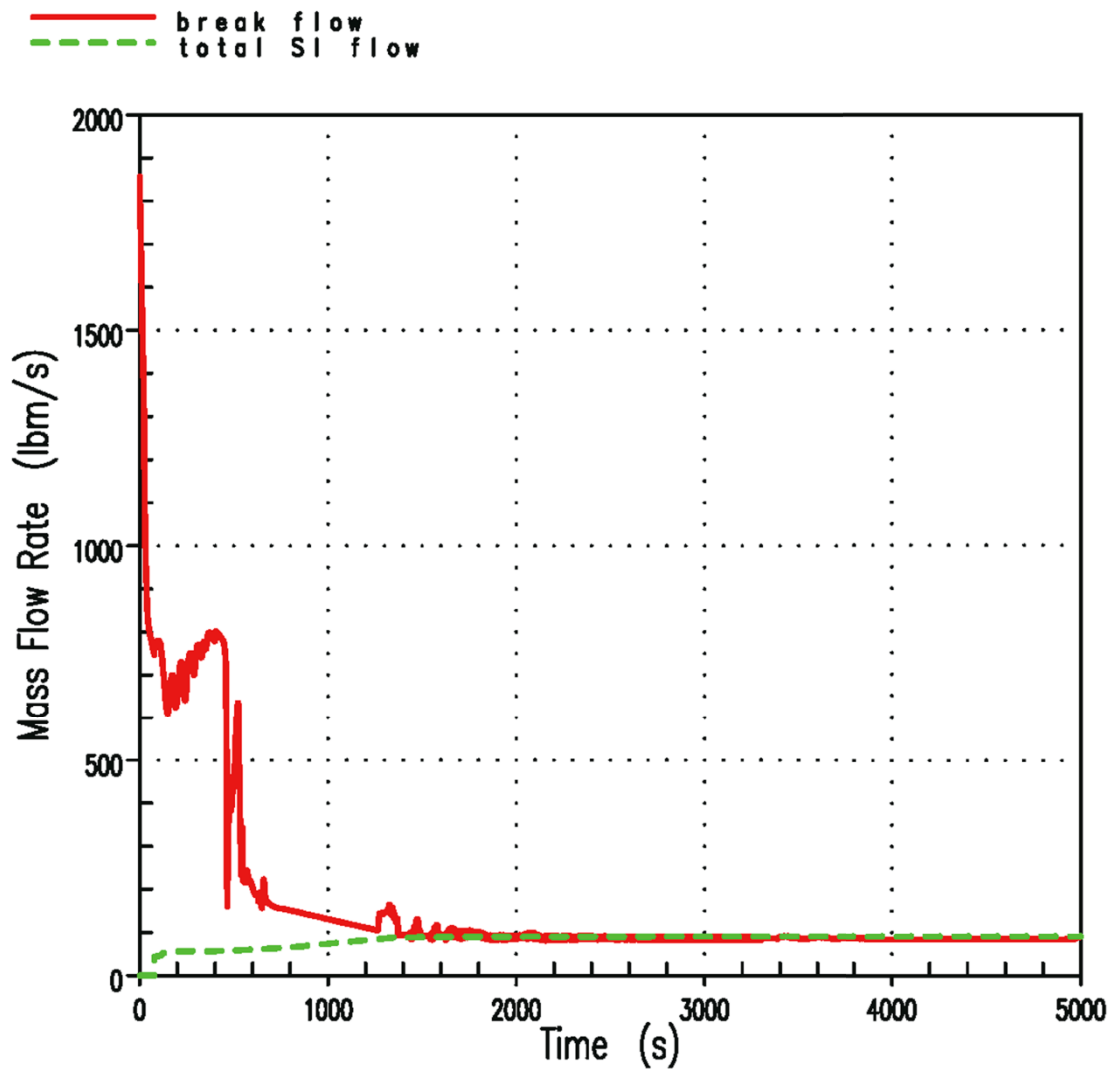
Title: **Fluid Temperature at Peak Clad Temperature  
Elevation 3.25-inch**

Unit: **1**

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UFSAR Figure: 14.3.2-12

Change Description:  
**UCR-2001, Rev. 0**

Title: **Total Break Flow and Safety Injection Flow 3.25-inch**

Unit: **1**

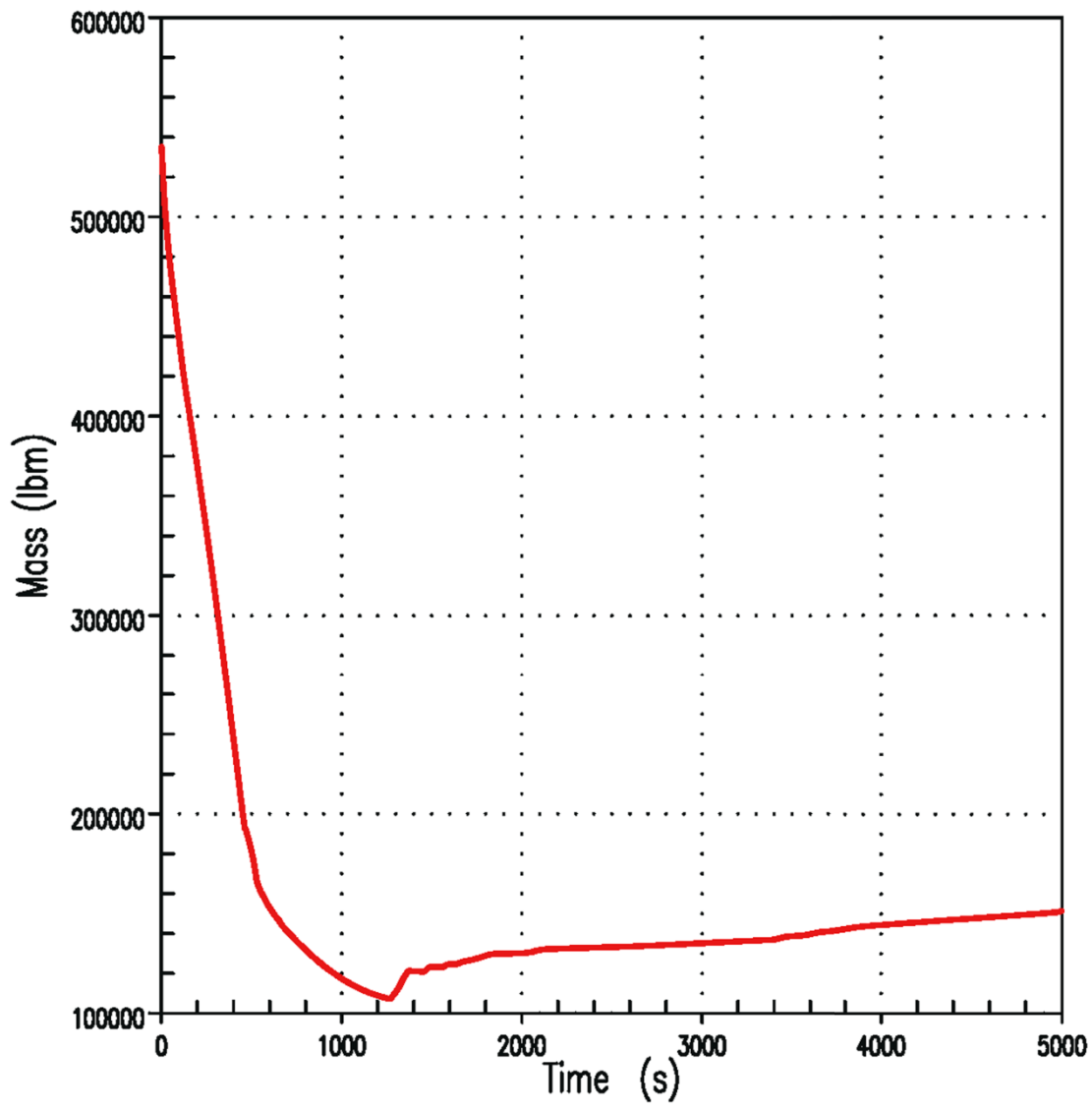
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UFSAR Figure: 14.3.2-13


Change Description:  
UCR-2001, Rev. 0

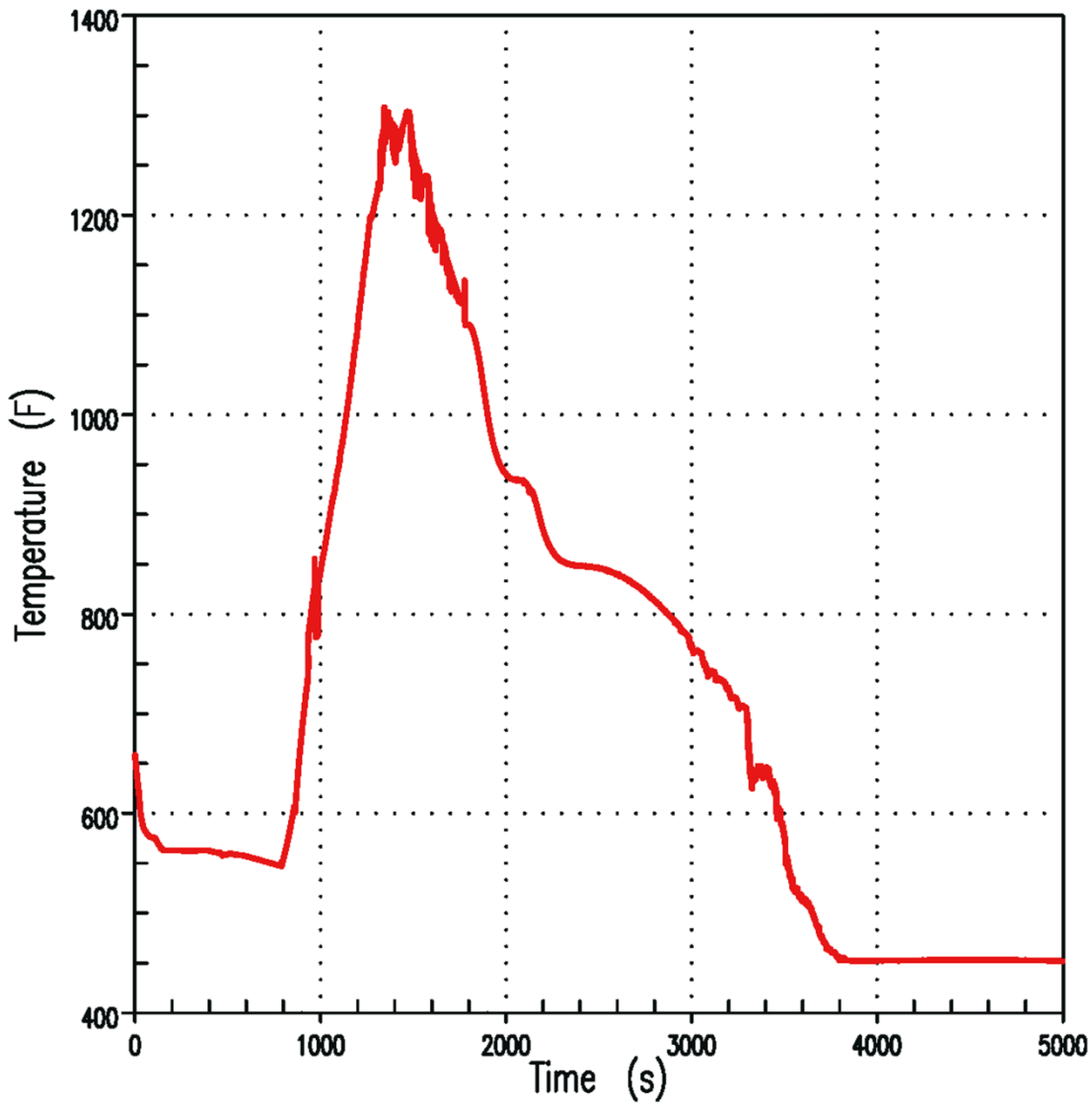
Title: Total Reactor Coolant System Mass 3.25-inch

Unit: 1

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UFSAR Figure: 14.3.2-14


Change Description:  
**UCR-2001, Rev. 0**

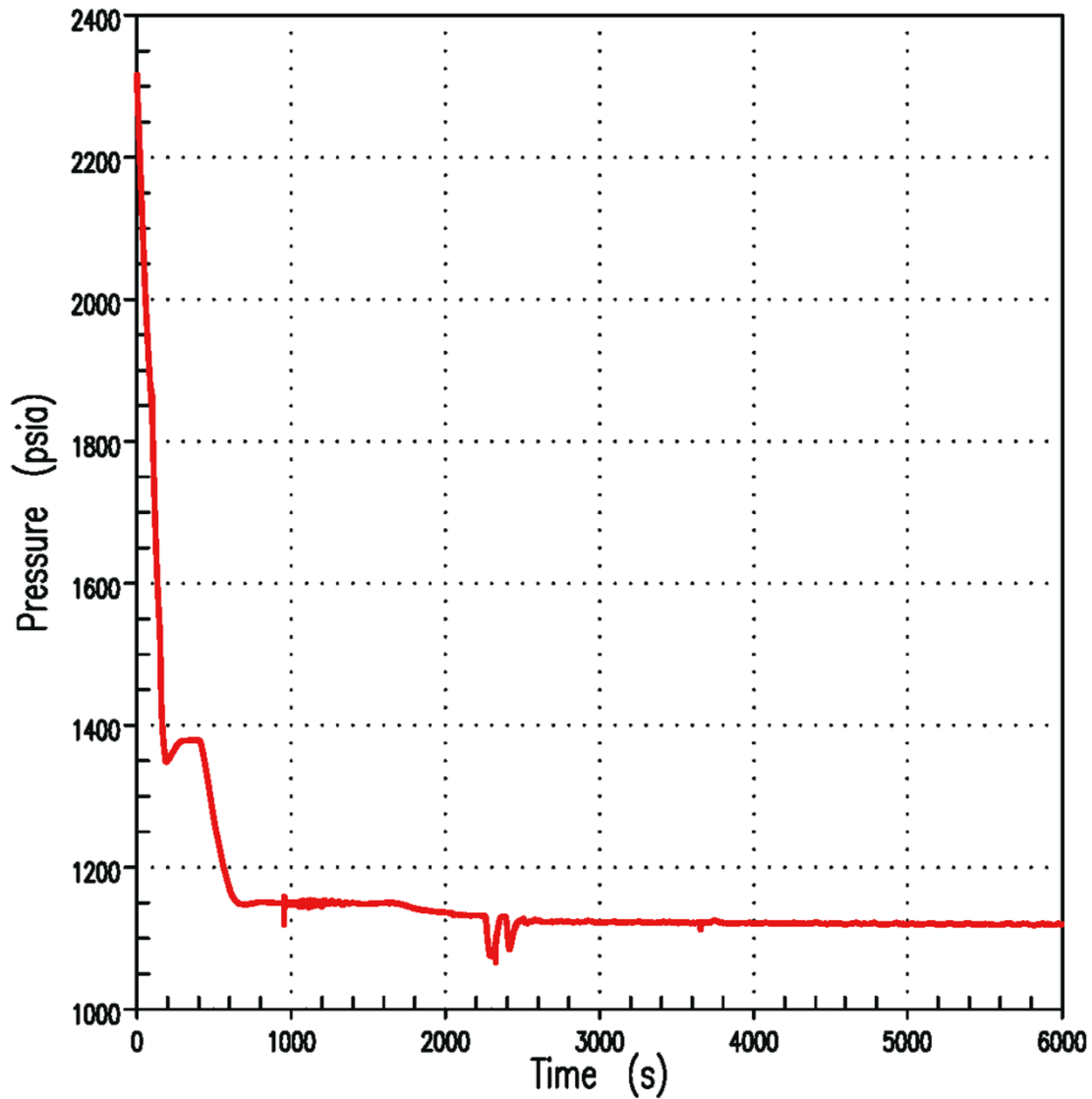
Title: **Top of Core Vapor Temperature 3.25-inch**

Unit: **1**

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UFSAR Figure: 14.3.2-15


Change Description:  
**UCR-2001, Rev. 0**

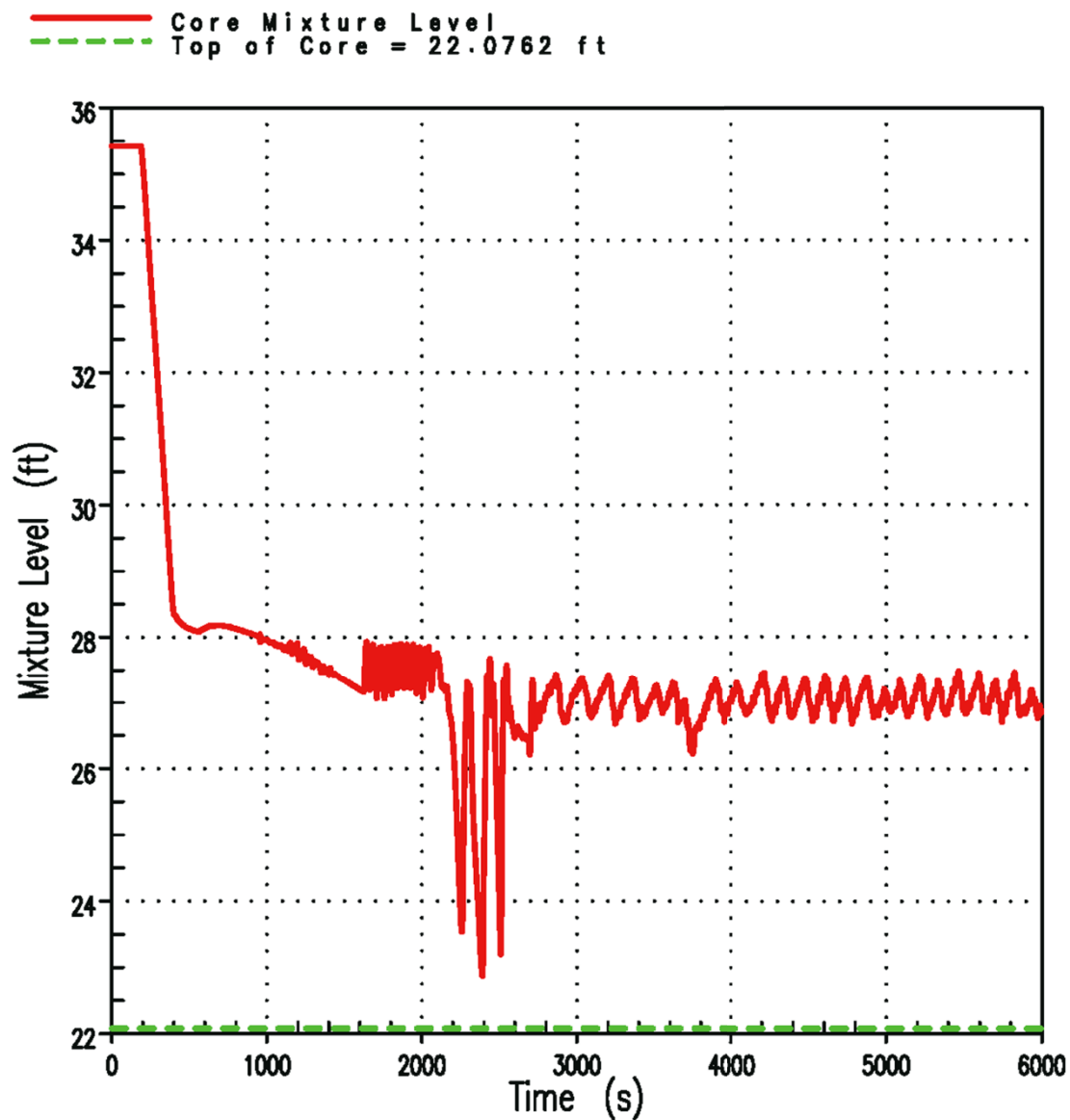
Title: **Reactor Coolant System Pressure 1.5-inch**

Unit: **1**

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UFSAR Figure: 14.3.2-16


Change Description:  
**UCR-2001, Rev. 0**

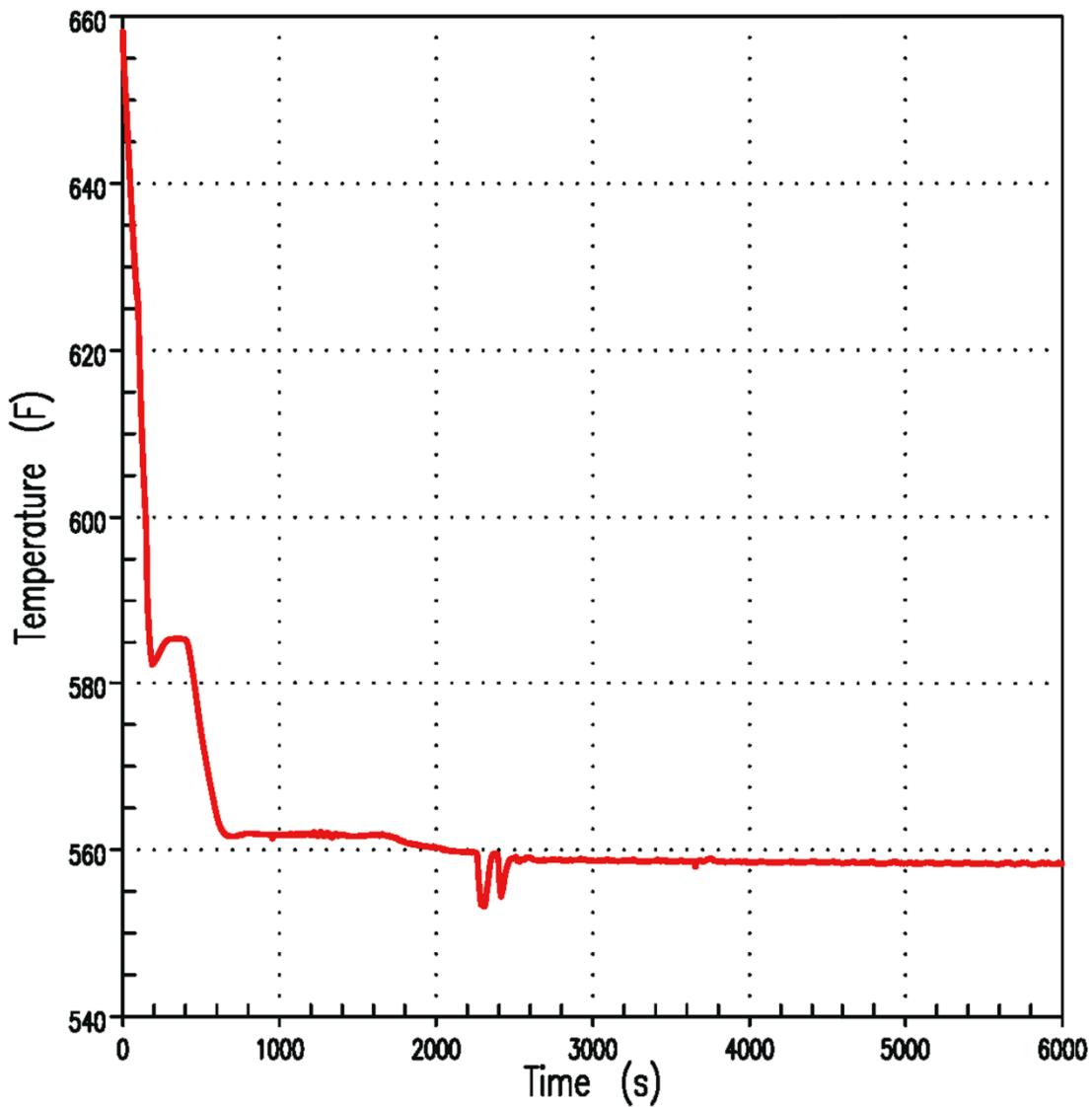
Title: **Core Mixture Level 1.5-inch**

Unit: **1**

Last Revised: Revision 25.0

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 An AEP Company	<p>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-17

Change Description:  
UCR-2001, Rev. 0

Title: Top of Core Vapor Temperature 1.5-inch

Unit: 1

Last Revised: Revision 25.0

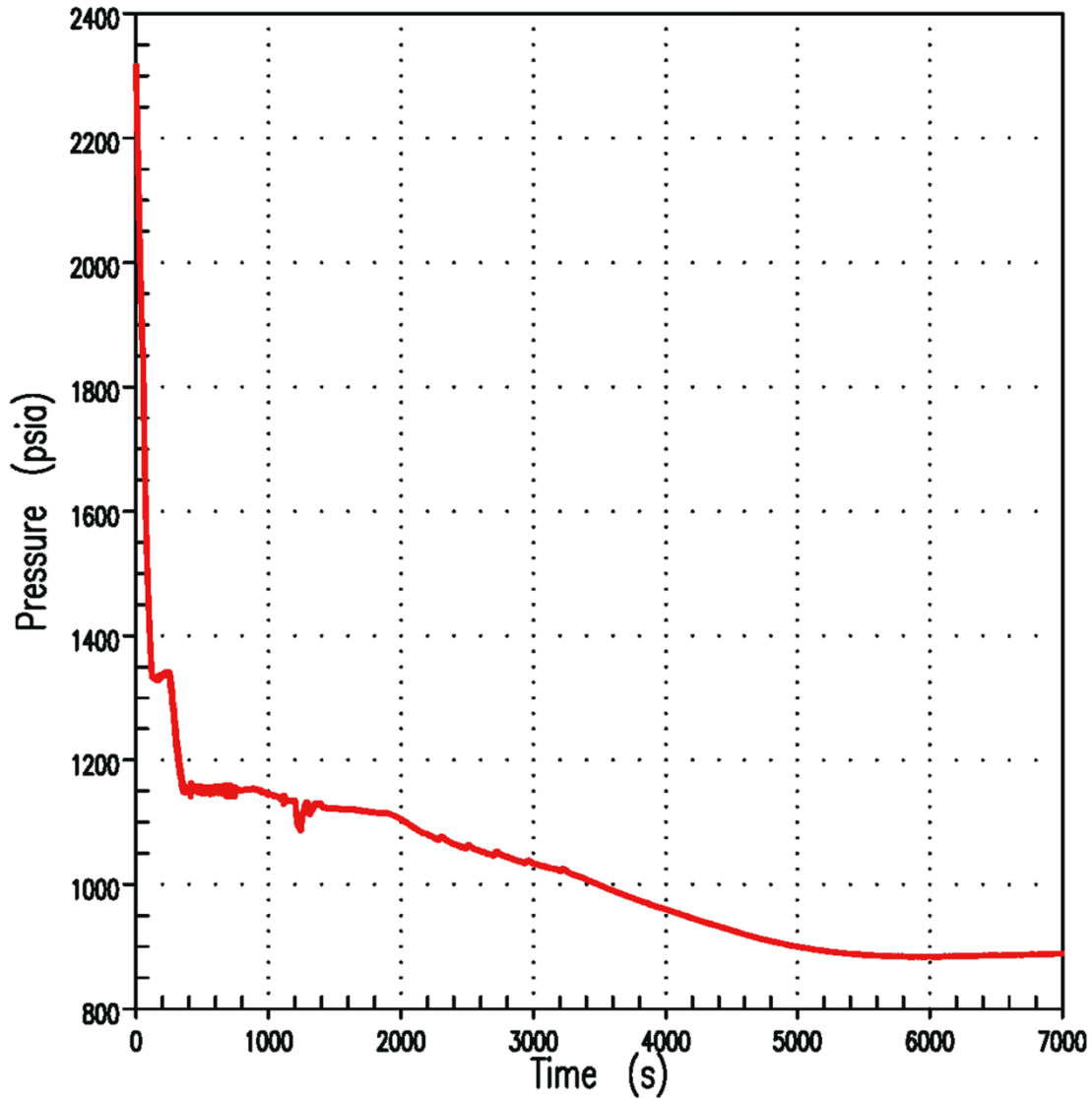


# UFSAR Revision 30.0



## INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT

Revision: 25.0  
Chapter: 14.3  
Sheet: 1 of 1



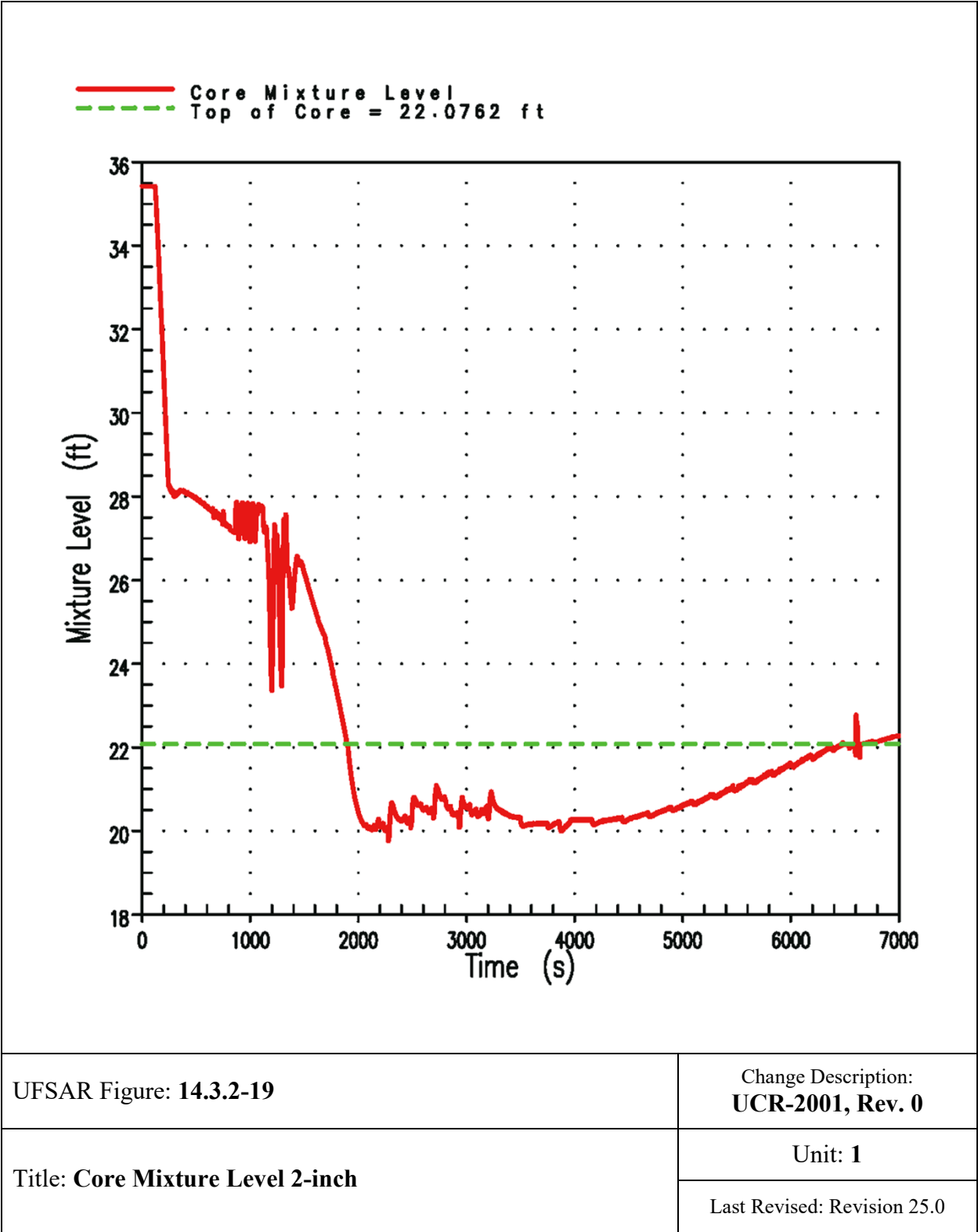
UFSAR Figure: 14.3.2-18

Change Description:  
**UCR-2001, Rev. 0**


Title: **Reactor Coolant System Pressure 2-inch**

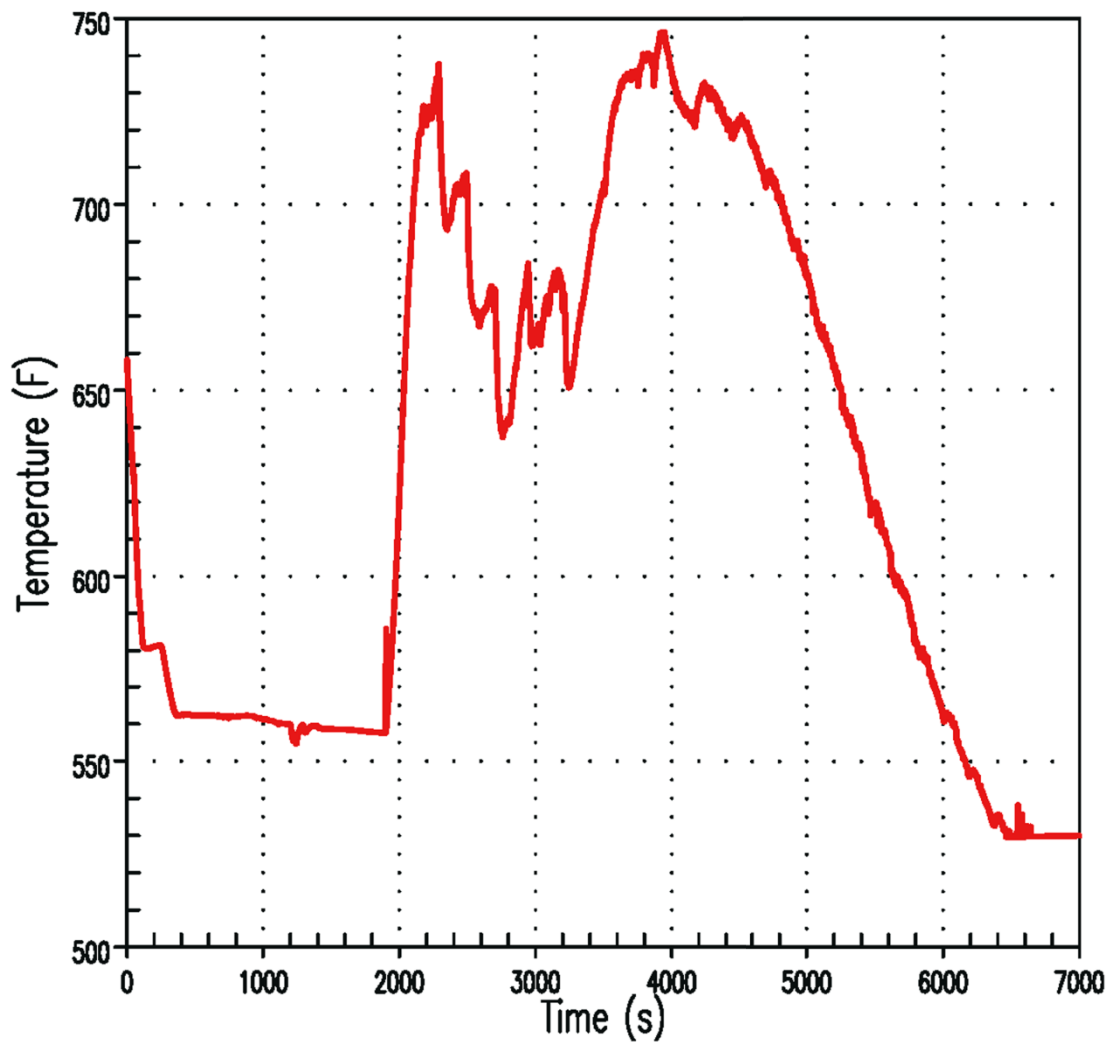
Unit: **1**

Last Revised: Revision 25.0



UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-20


Change Description:  
**UCR-2001, Rev. 0**

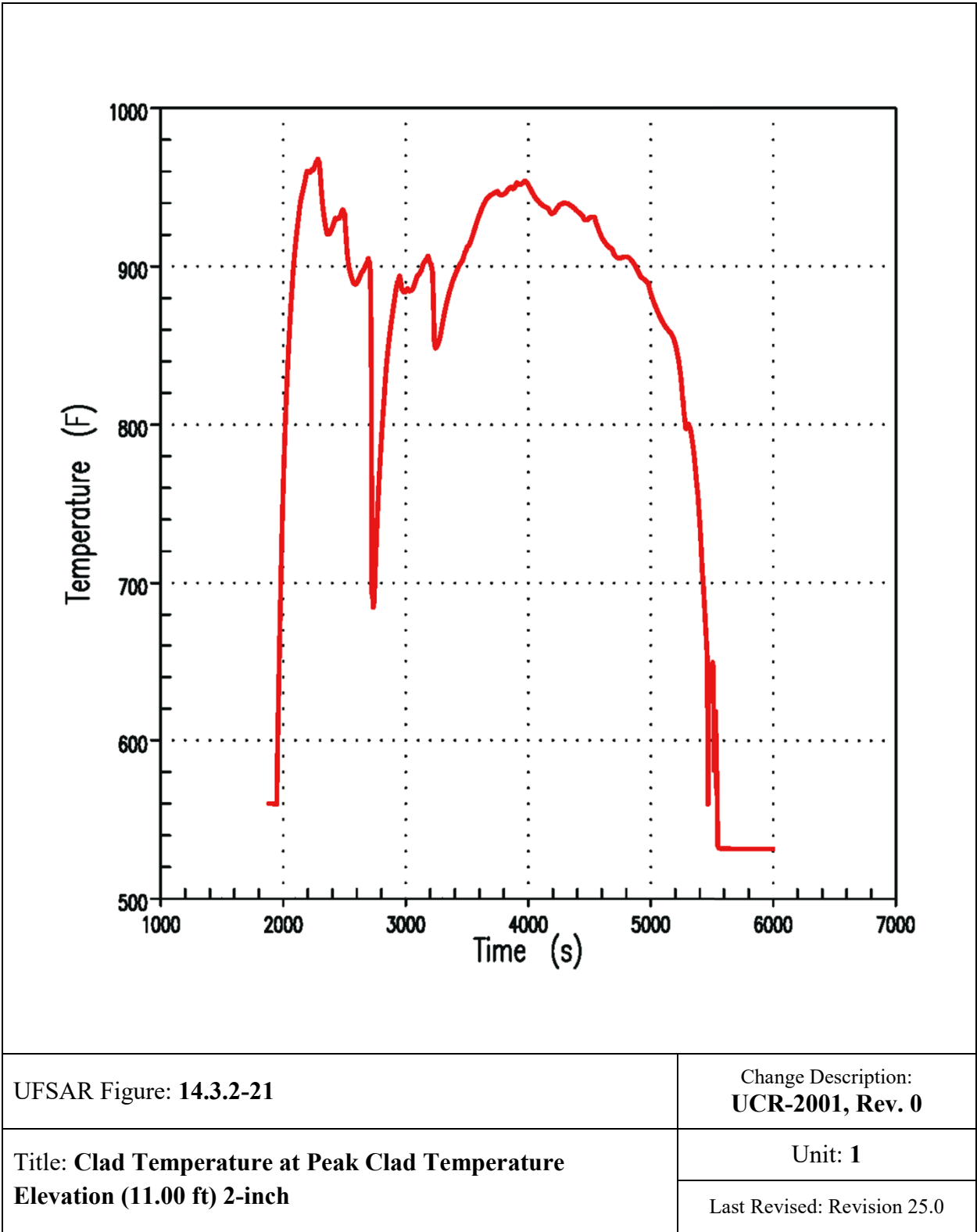
Title: **Top of Core Vapor Temperature 2-inch**

Unit: **1**

Last Revised: Revision 25.0

UFSAR Revision 30.0

 <small>An AEP Company</small>	<p>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-21


Change Description:  
UCR-2001, Rev. 0

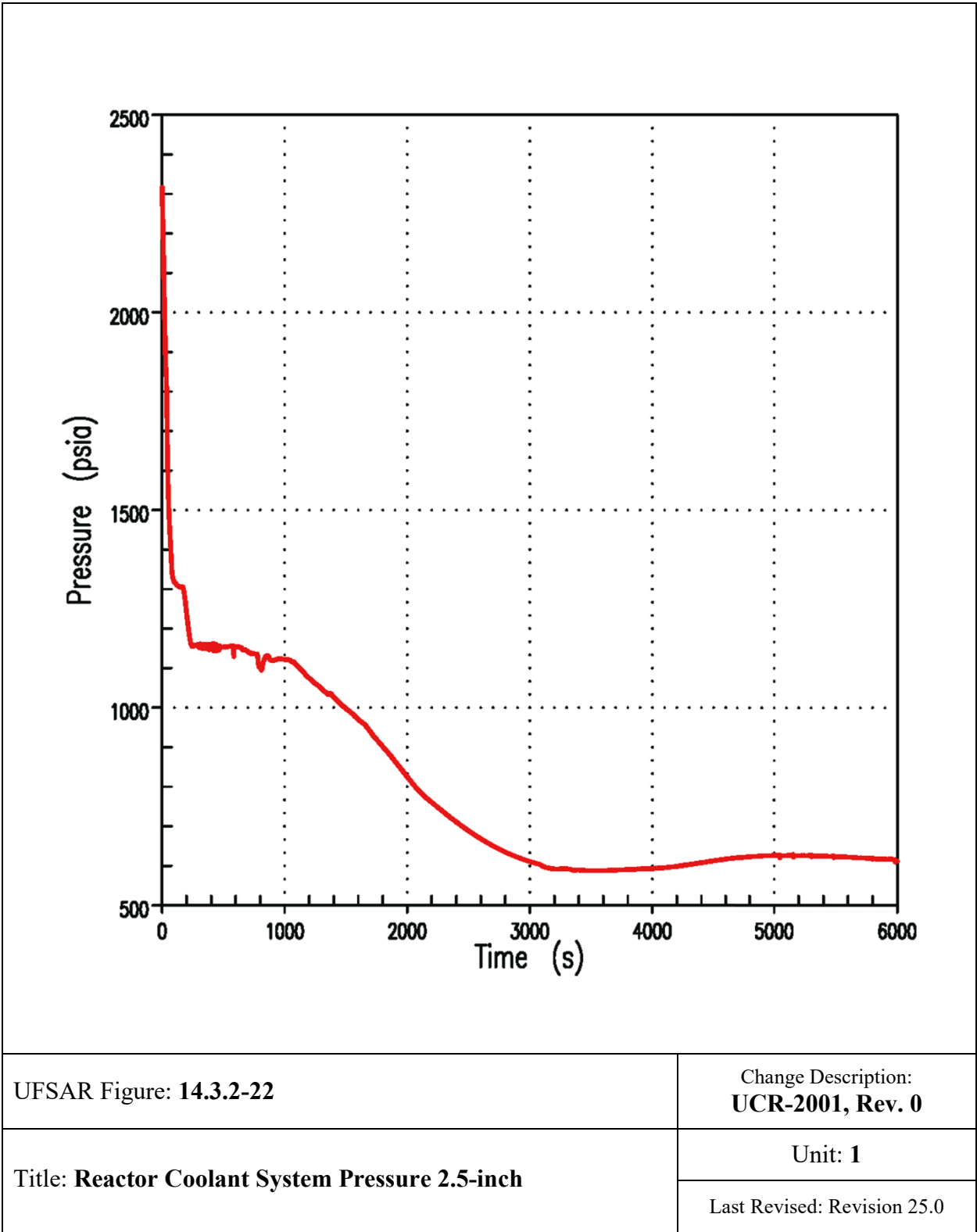
Title: Clad Temperature at Peak Clad Temperature  
Elevation (11.00 ft) 2-inch

Unit: 1


Last Revised: Revision 25.0

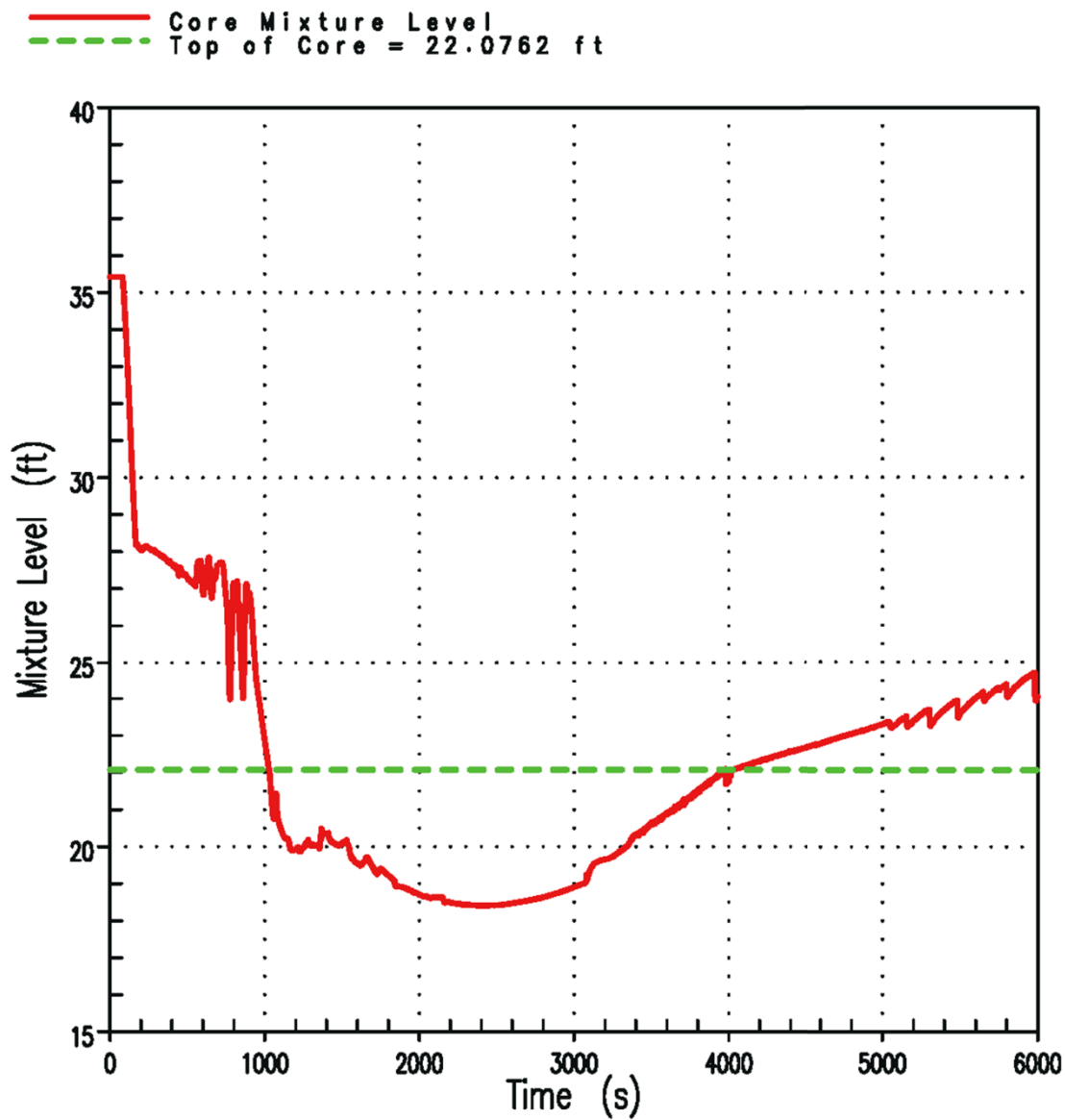
UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-23


Change Description:  
**UCR-2001, Rev. 0**

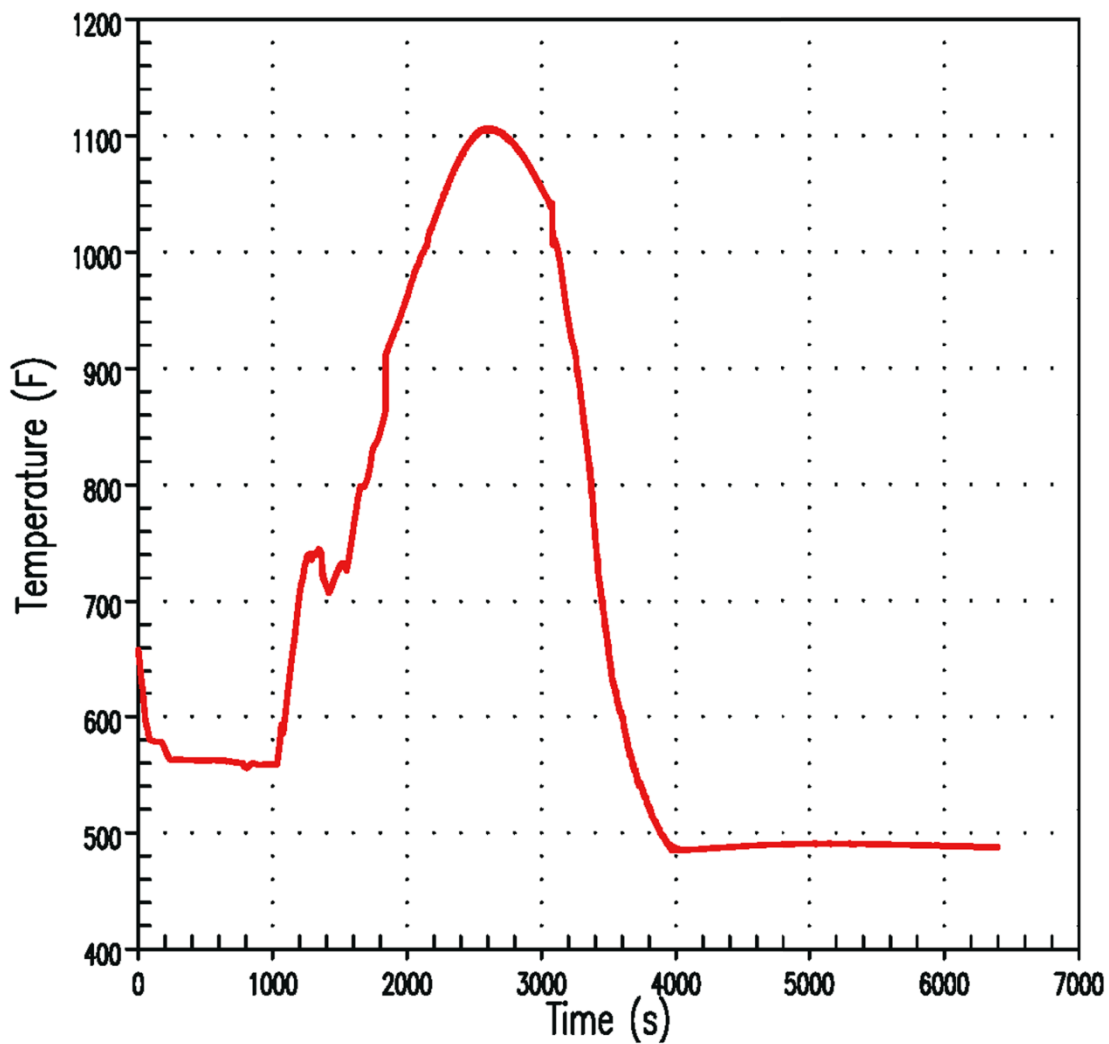
Title: Core Mixture Level 2.5-inch

Unit: 1

Last Revised: Revision 25.0

UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-24

Change Description:  
**UCR-2001, Rev. 0**

Title: **Top of Core Vapor Temperature 2.5-inch**

Unit: **1**

Last Revised: Revision 25.0

UFSAR Revision 30.0

<div><div>INDIANA MICHIGAN POWER</div><div>An AEP Company</div></div>	<div>INDIANA MICHIGAN POWER</div> <div>D. C. COOK NUCLEAR PLANT</div> <div>UPDATED FINAL SAFETY ANALYSIS REPORT</div>	<div>Revision: 25.0</div> <div>Chapter: 14.3</div> <div>Sheet: 1 of 1</div>
<div><div><div>Temperature (F)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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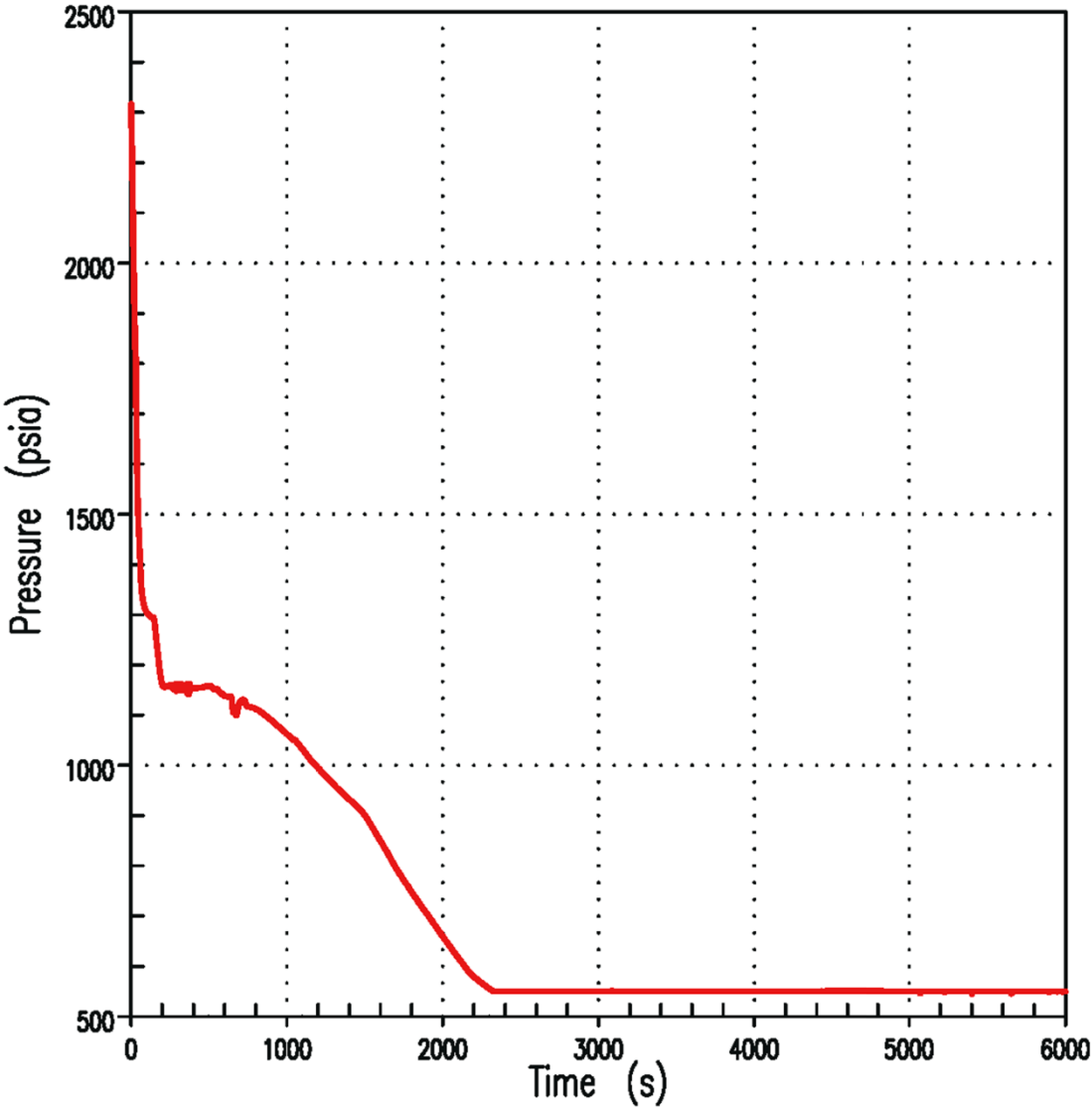


# UFSAR Revision 30.0



**INDIANA MICHIGAN POWER**  
**D. C. COOK NUCLEAR PLANT**  
**UPDATED FINAL SAFETY ANALYSIS REPORT**

Revision: 25.0  
Chapter: 14.3  
Sheet: 1 of 1



UFSAR Figure: 14.3.2-26


Change Description:  
**UCR-2001, Rev. 0**

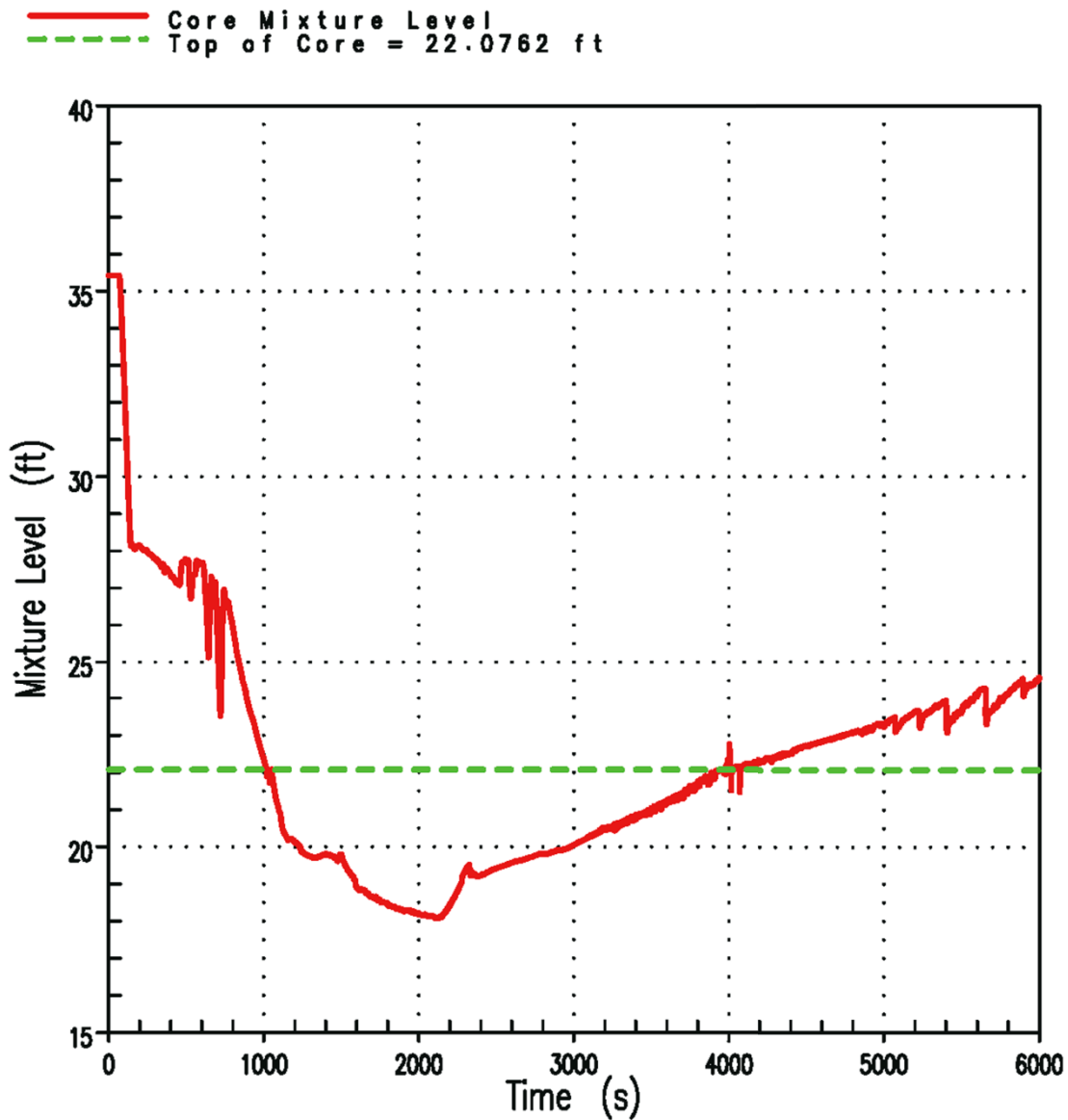
Title: **Reactor Coolant System Pressure 2.75-inch**

Unit: **1**

Last Revised: Revision 25.0

UFSAR Revision 30.0

 An AEP Company	<p>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-27

Change Description:  
UCR-2001, Rev. 0

Title: Core Mixture Level 2.75-inch

Unit: 1

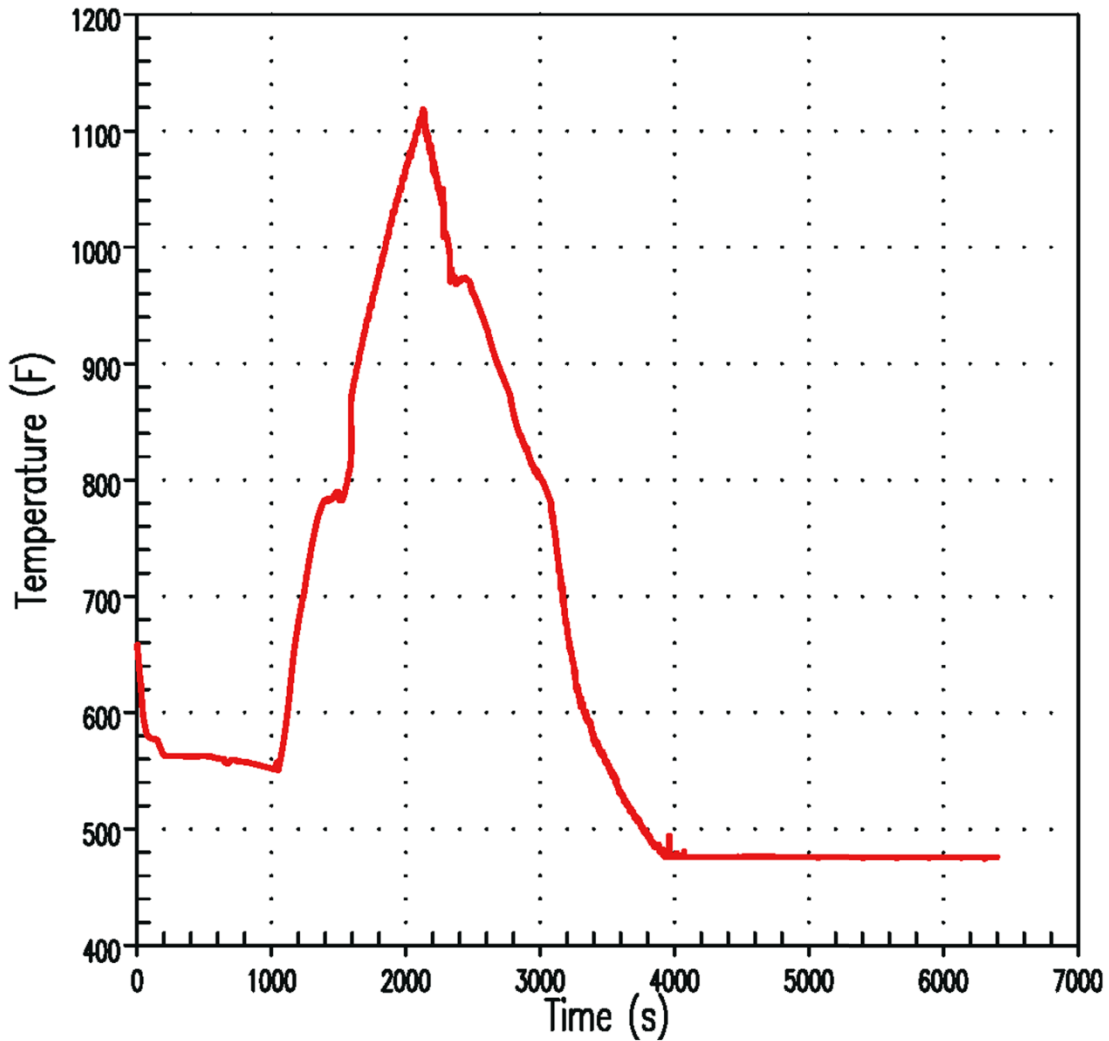
Last Revised: Revision 25.0

# UFSAR Revision 30.0



## INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT

Revision: 25.0  
Chapter: 14.3  
Sheet: 1 of 1



UFSAR Figure: 14.3.2-28


Change Description:  
**UCR-2001, Rev. 0**

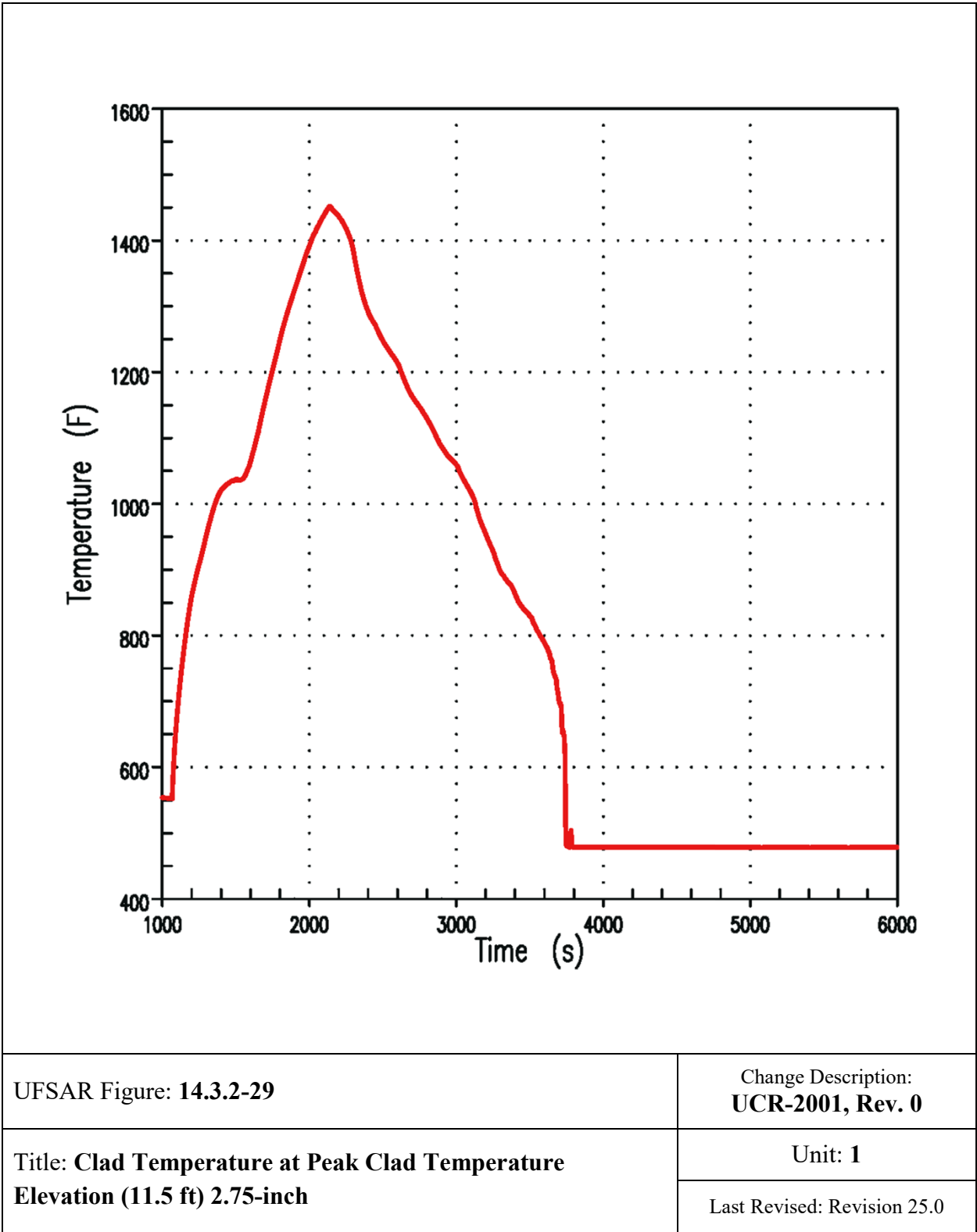
Title: **Top of Core Vapor Temperature 2.75-inch**

Unit: **1**

Last Revised: Revision 25.0

UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-29

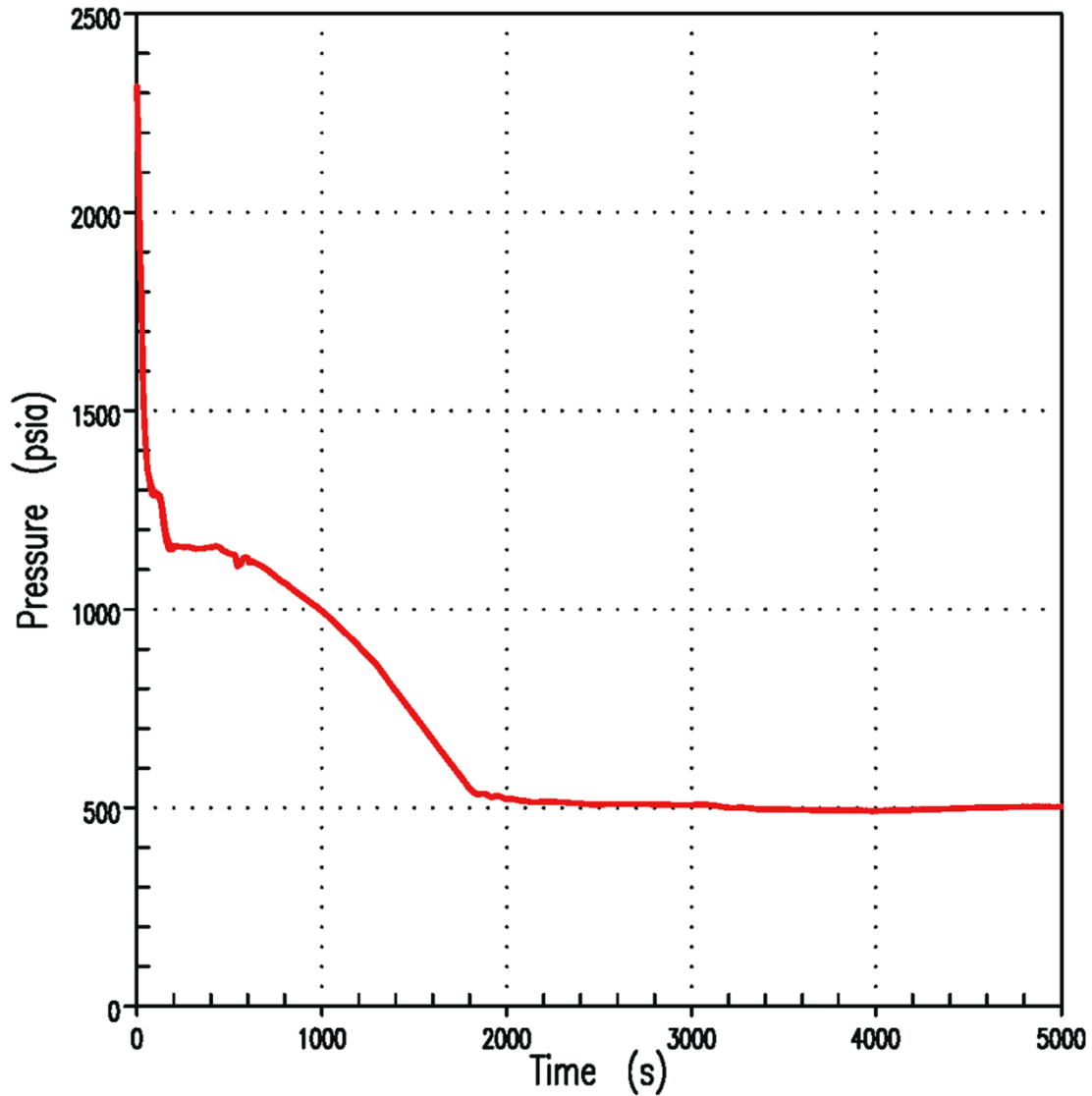
Title: Clad Temperature at Peak Clad Temperature  
Elevation (11.5 ft) 2.75-inch

# UFSAR Revision 30.0



## INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT

Revision: 25.0  
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UFSAR Figure: 14.3.2-30


Change Description:  
**UCR-2001, Rev. 0**

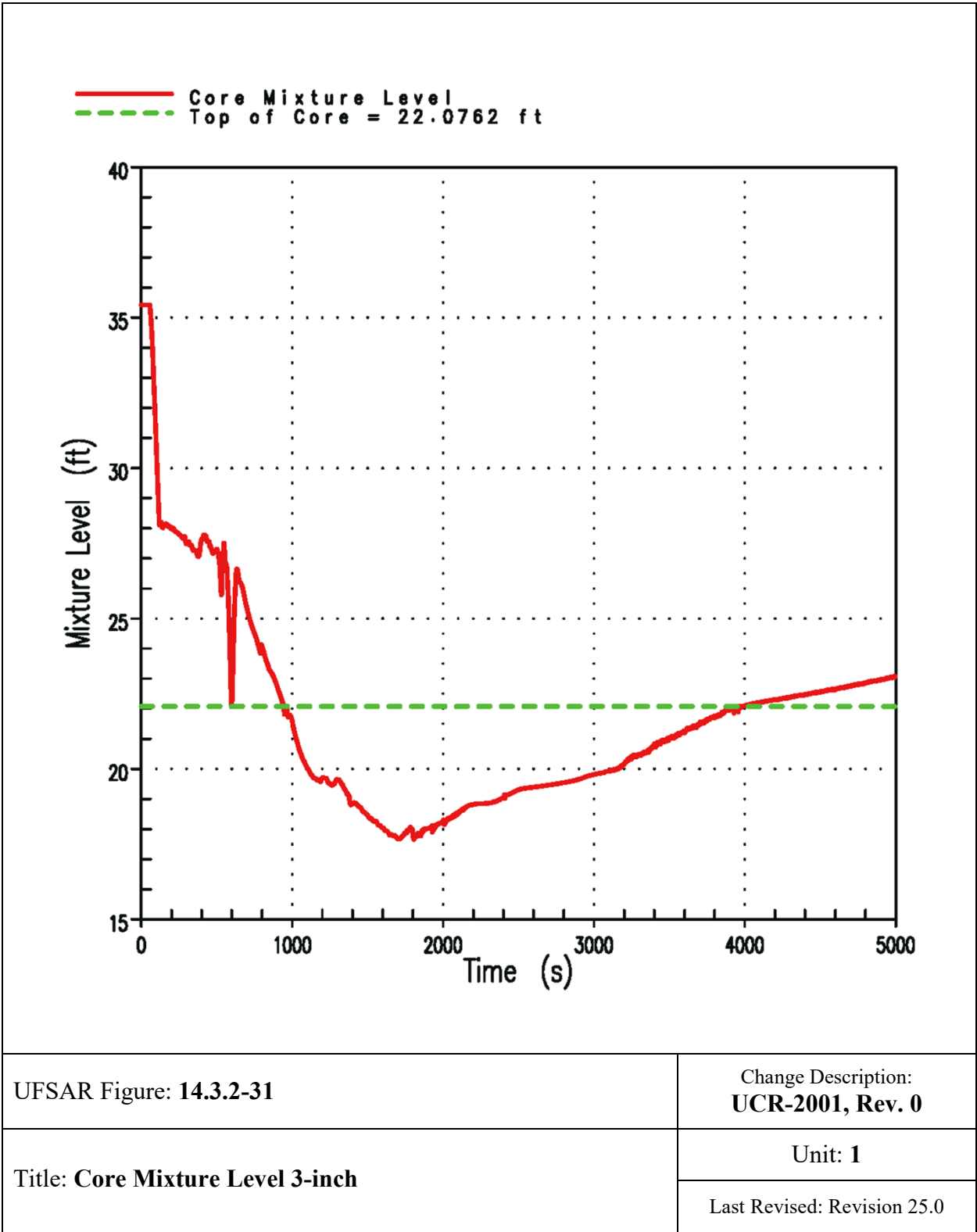
Title: **Reactor Coolant System Pressure 3-inch**

Unit: **1**

Last Revised: Revision 25.0

UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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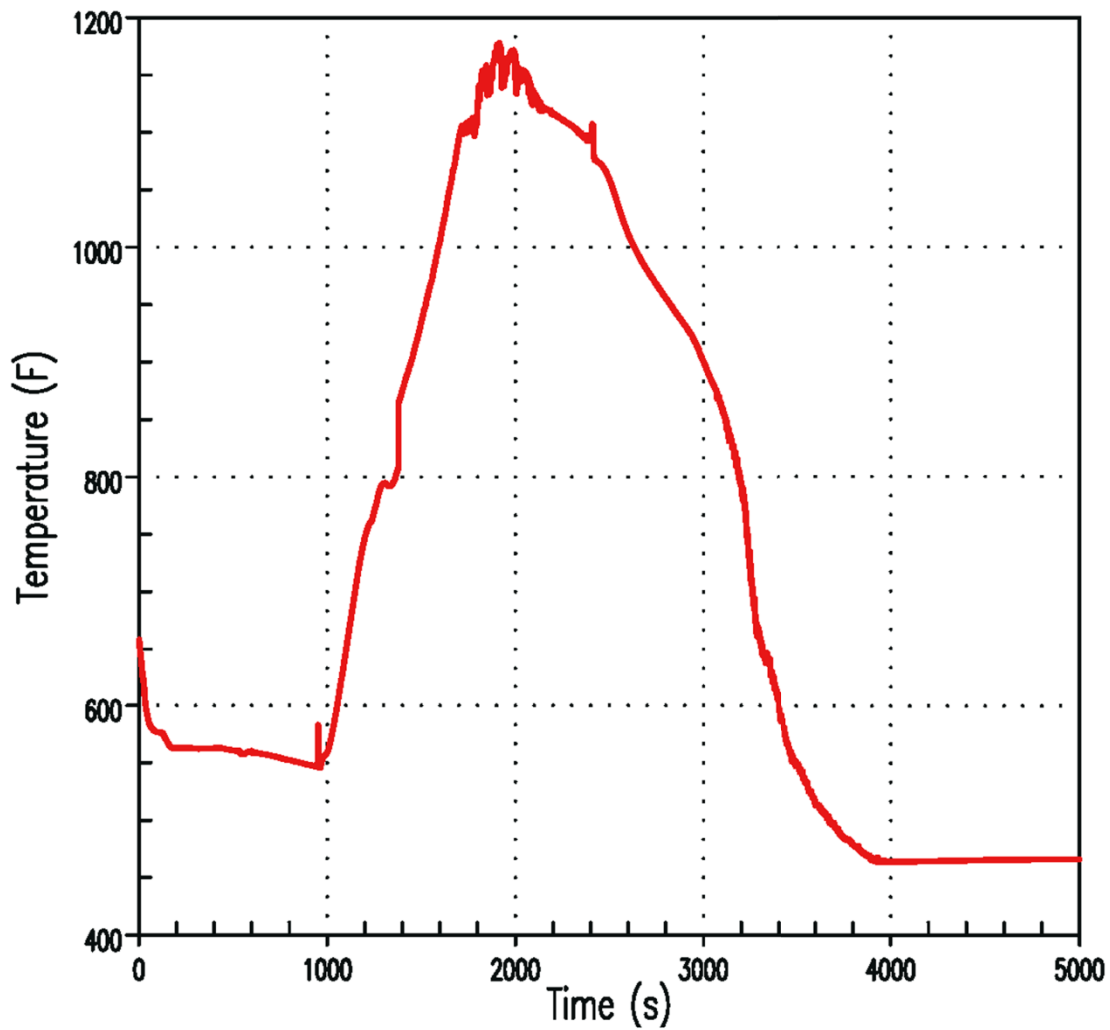


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## INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT

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UFSAR Figure: 14.3.2-32

Change Description:  
**UCR-2001, Rev. 0**

Title: **Top of Core Vapor Temperature 3-inch**

Unit: **1**

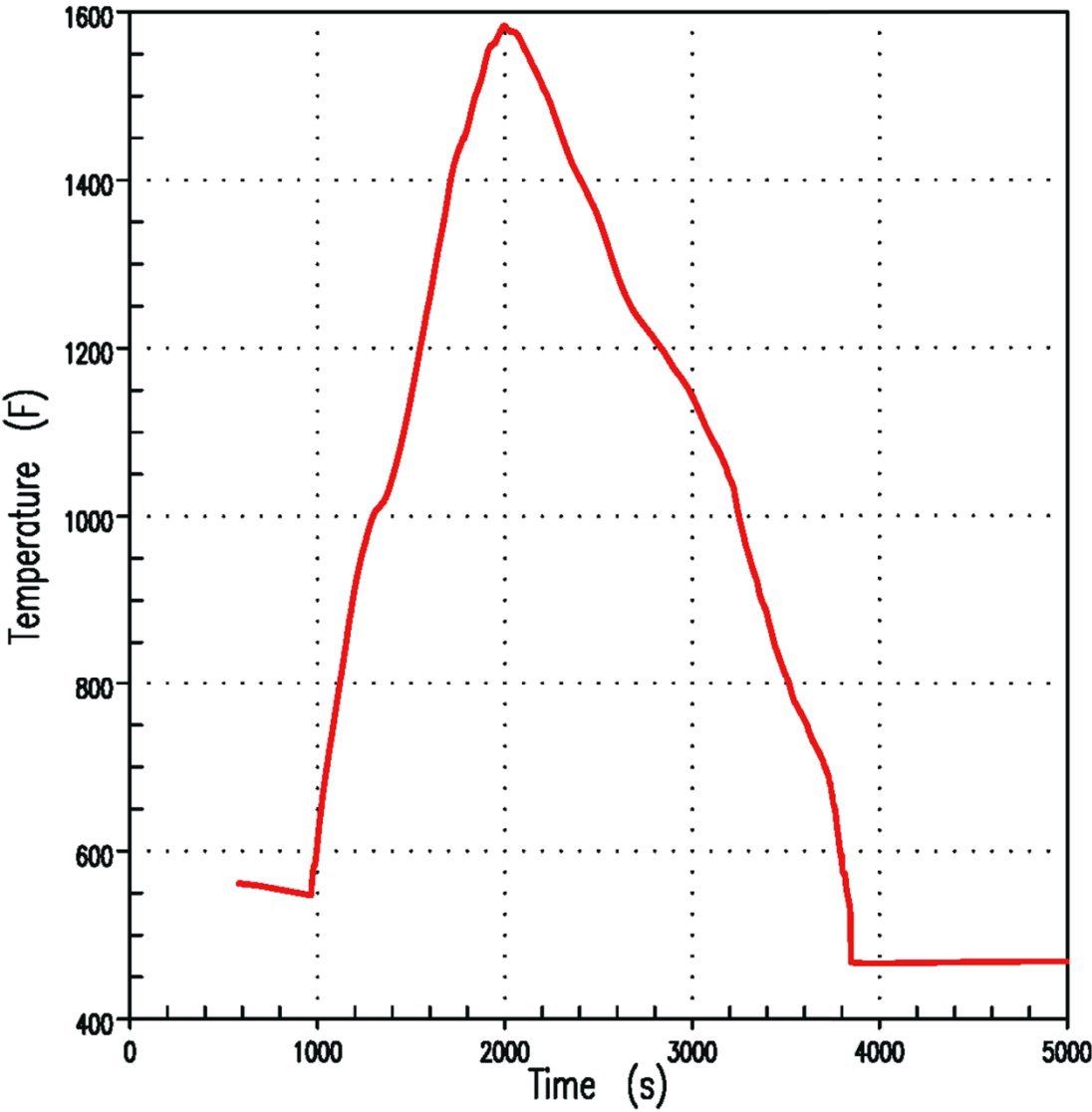
Last Revised: Revision 25.0

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INDIANA MICHIGAN POWER  
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UFSAR Figure: 14.3.2-33

Change Description:  
**UCR-2001, Rev. 0**

Title: **Clad Temperature at Peak Clad Temperature  
Elevation (11.75 ft) 3-inch**

Unit: **1**

Last Revised: Revision 25.0

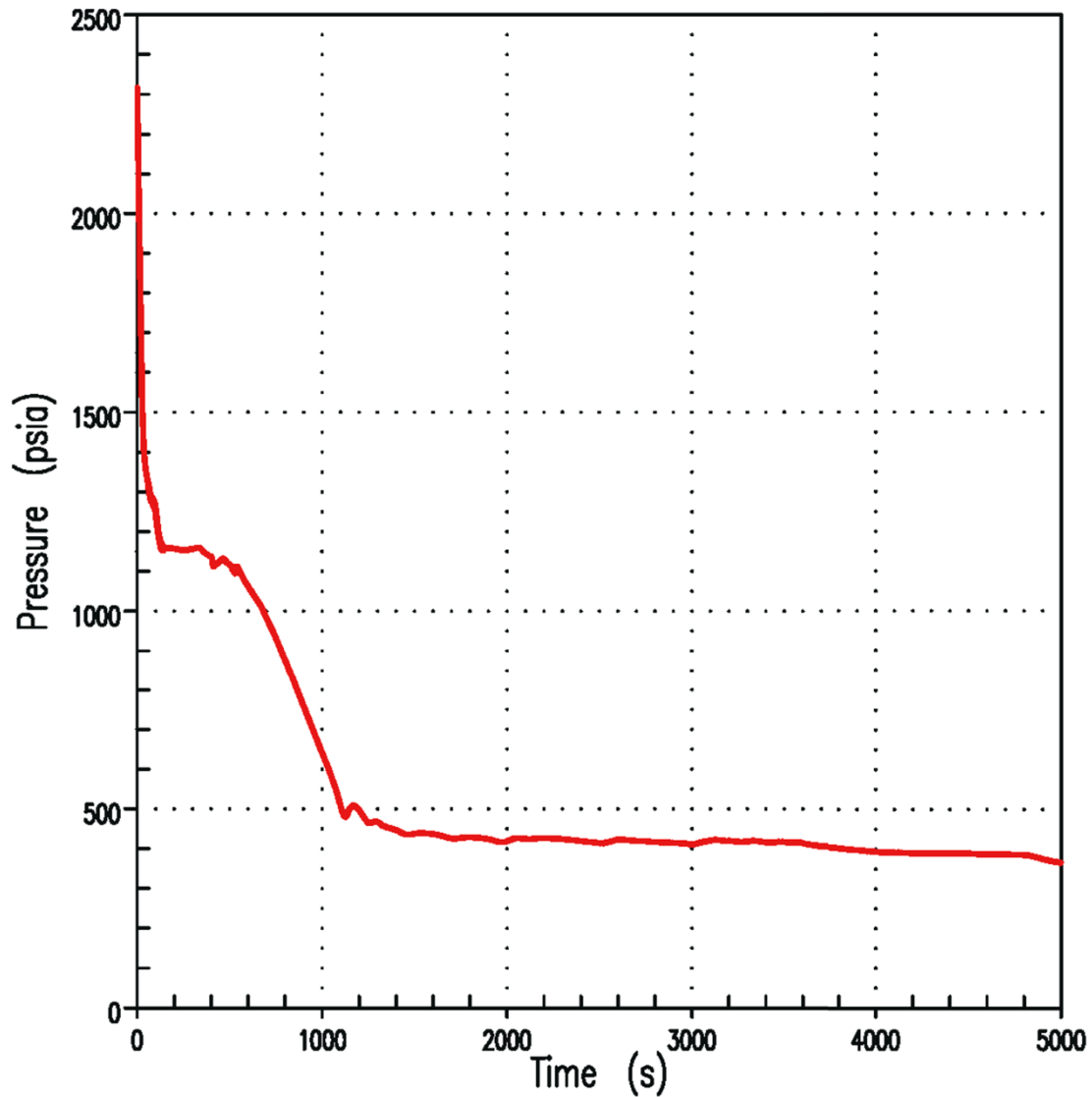


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## INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT

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UFSAR Figure: 14.3.2-34


Change Description:  
**UCR-2001, Rev. 0**

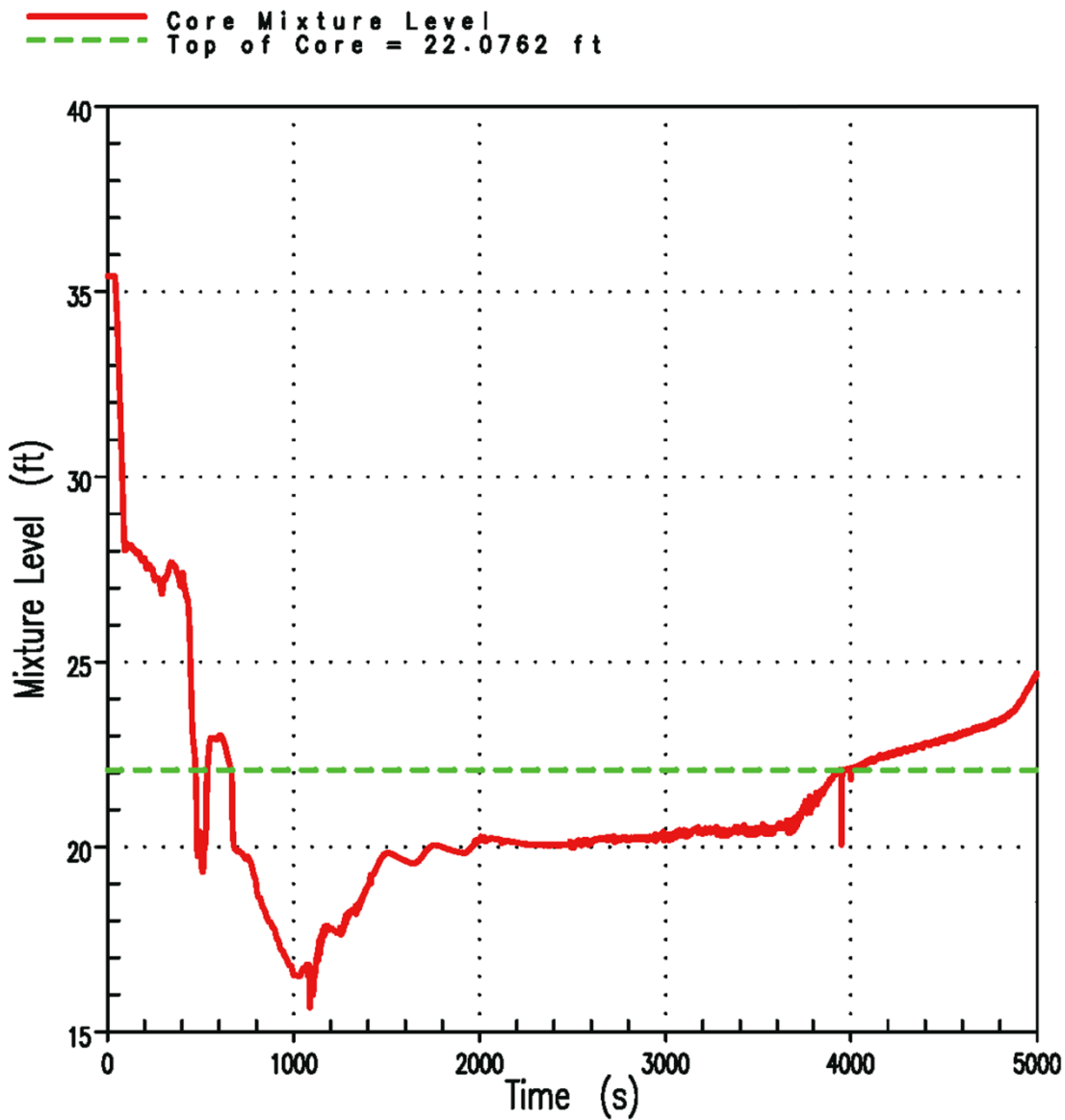
Title: **Reactor Coolant System Pressure 3.5-inch**

Unit: **1**

Last Revised: Revision 25.0

UFSAR Revision 30.0

 An AEP Company	<p>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-35


Change Description:  
UCR-2001, Rev. 0

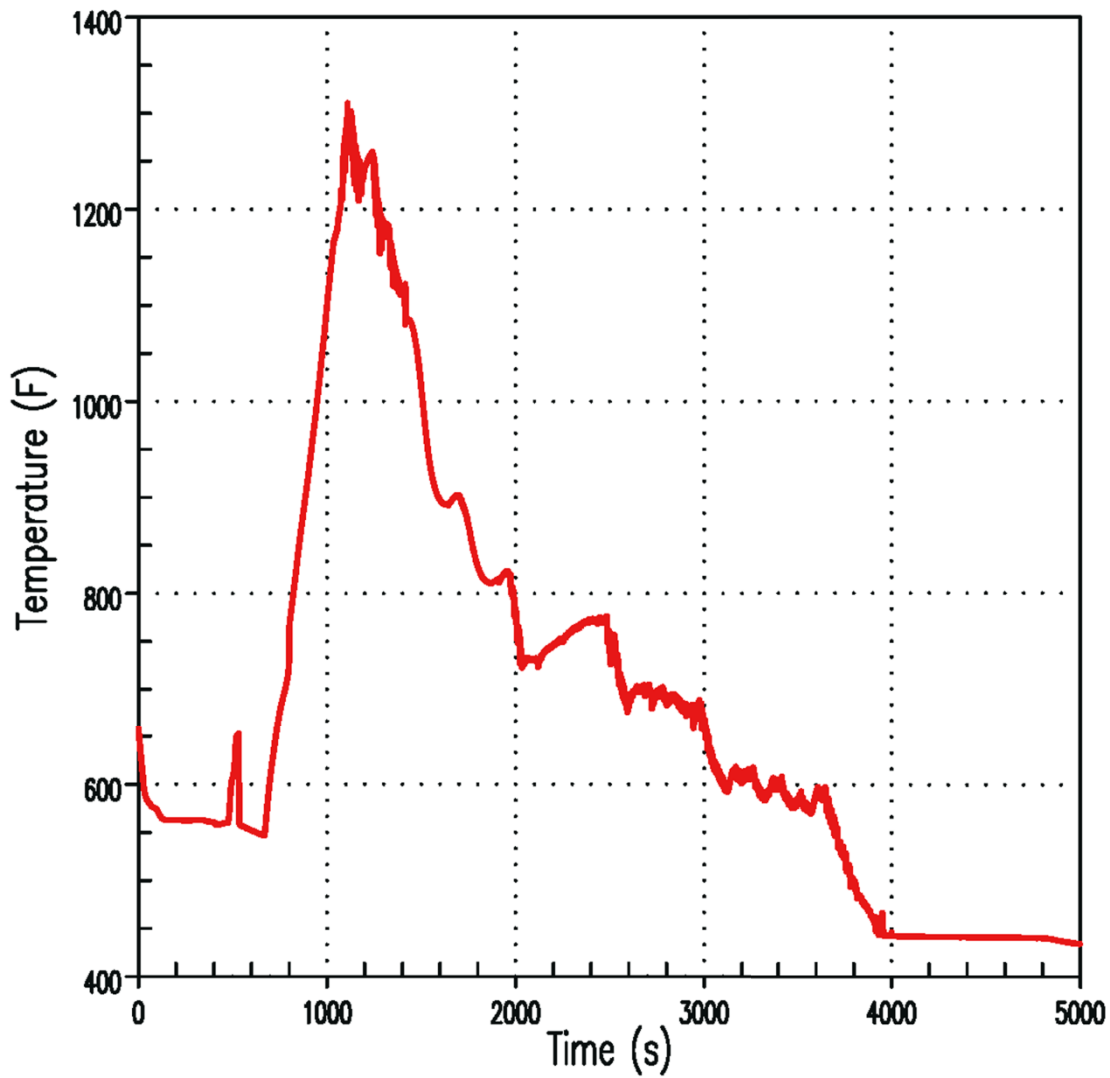
Title: Core Mixture Level 3.5-inch

Unit: 1

Last Revised: Revision 25.0

UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-36

Change Description:  
**UCR-2001, Rev. 0**

Title: **Top of Core Vapor Temperature 3.5-inch**

Unit: **1**

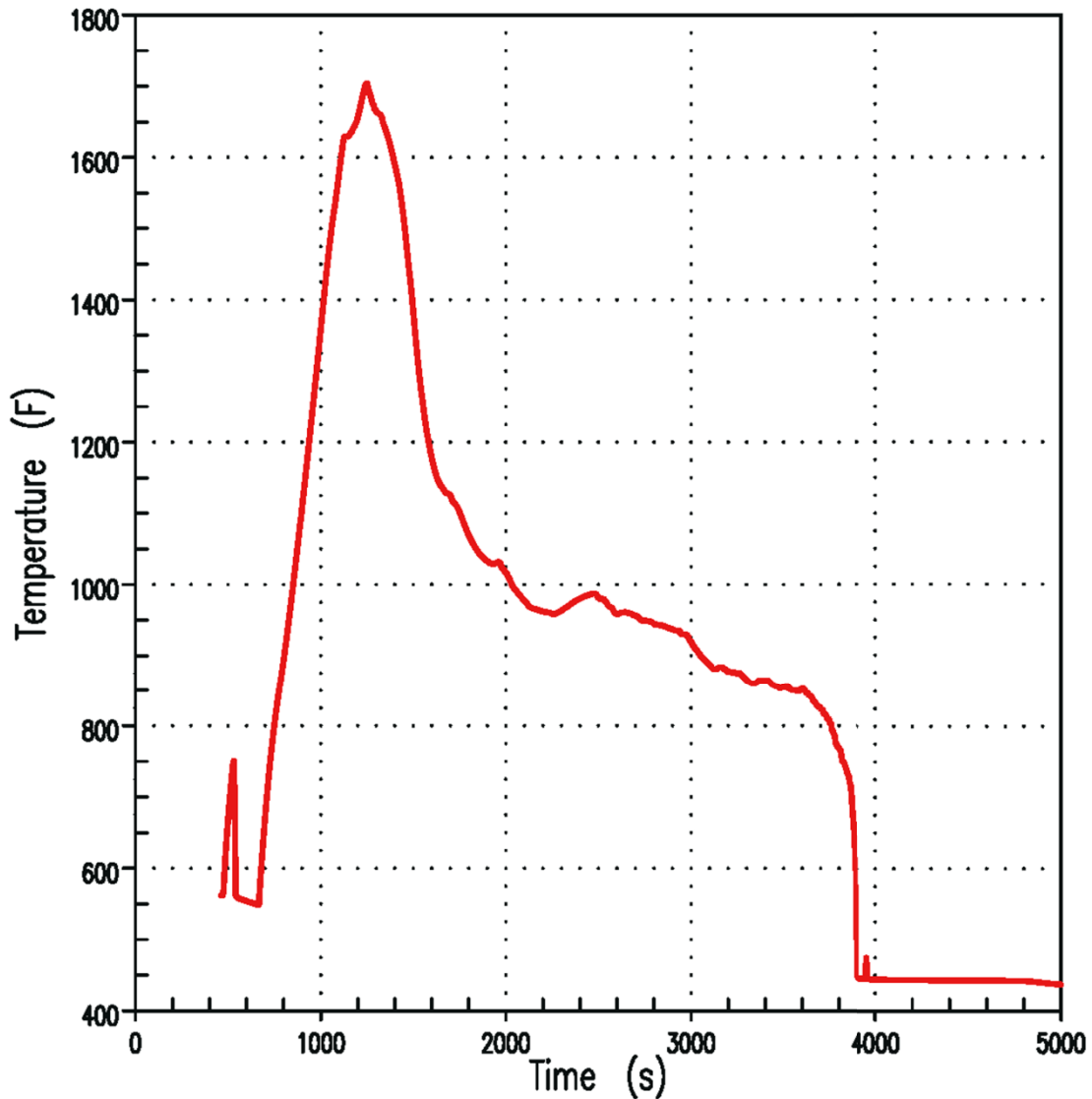
Last Revised: Revision 25.0

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## INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT

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UFSAR Figure: 14.3.2-37


Change Description:  
**UCR-2001, Rev. 0**

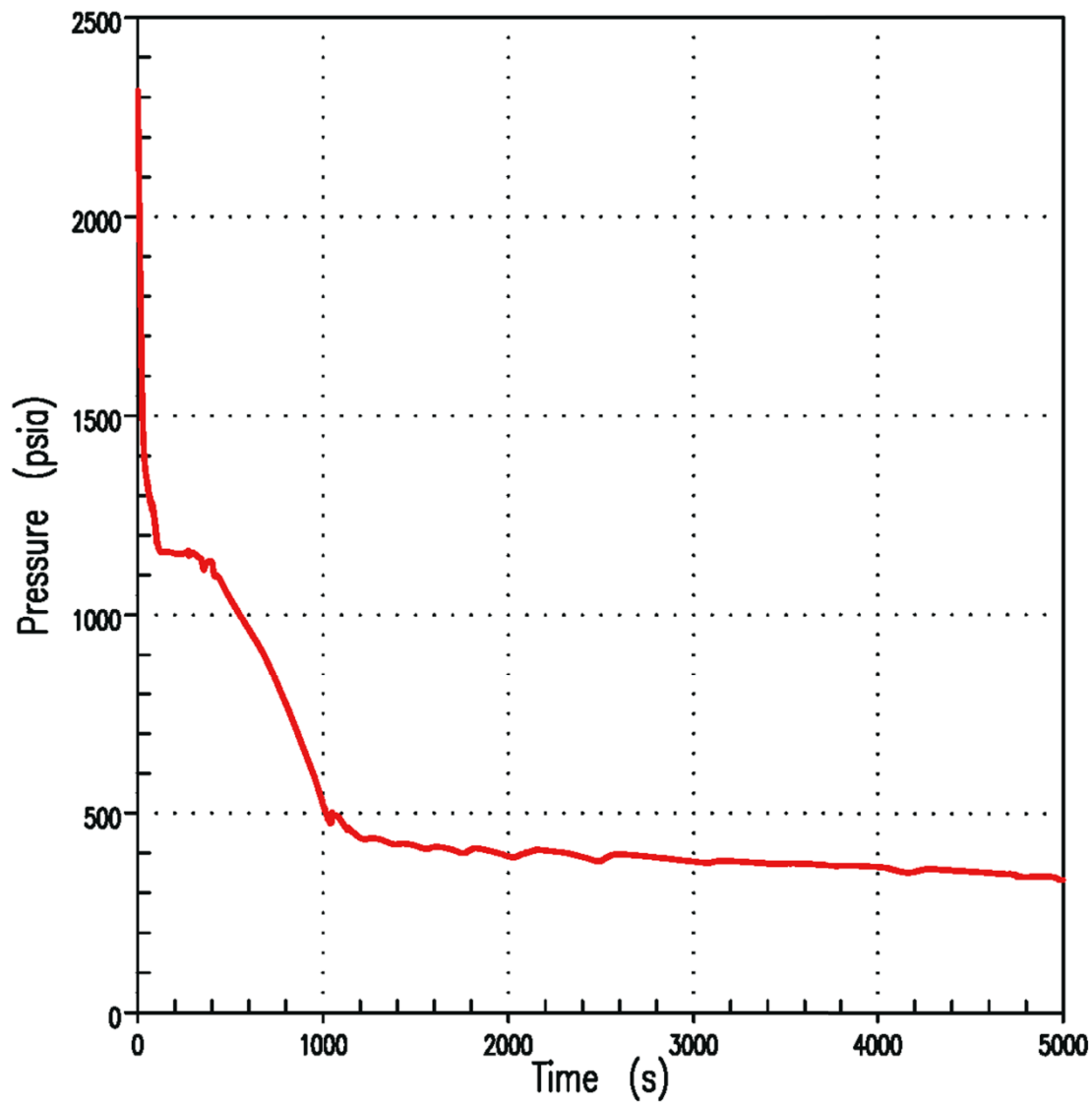
Title: Clad Temperature at Peak Clad Temperature  
Elevation (11.75 ft) 3.5-inch

Unit: 1

Last Revised: Revision 25.0

UFSAR Revision 30.0

 An <b>AEP</b> Company	<p>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-38


Change Description:  
**UCR-2001, Rev. 0**

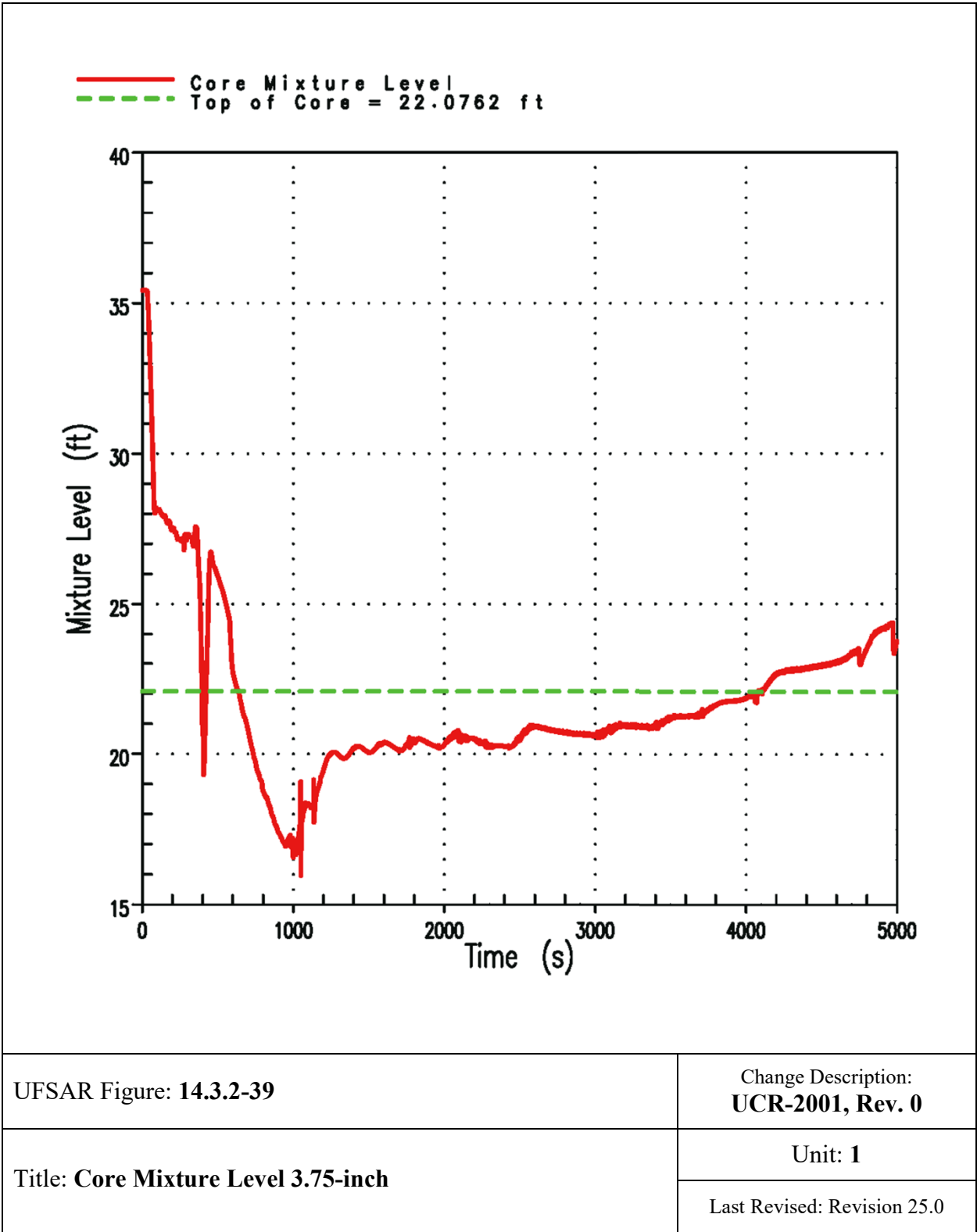
Title: **Reactor Coolant System Pressure 3.75-inch**

Unit: **1**


Last Revised: Revision 25.0

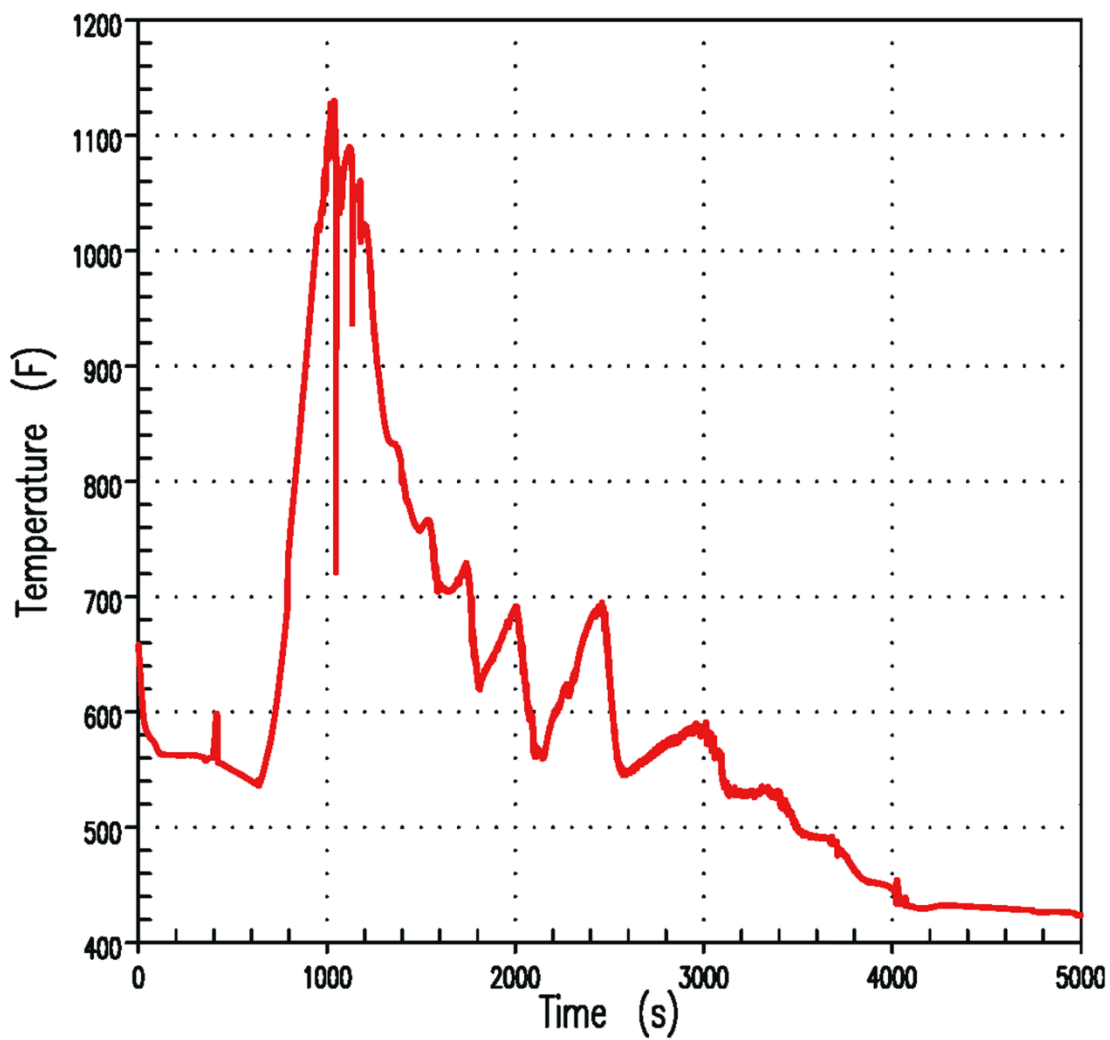
UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-40


Change Description:  
**UCR-2001, Rev. 0**

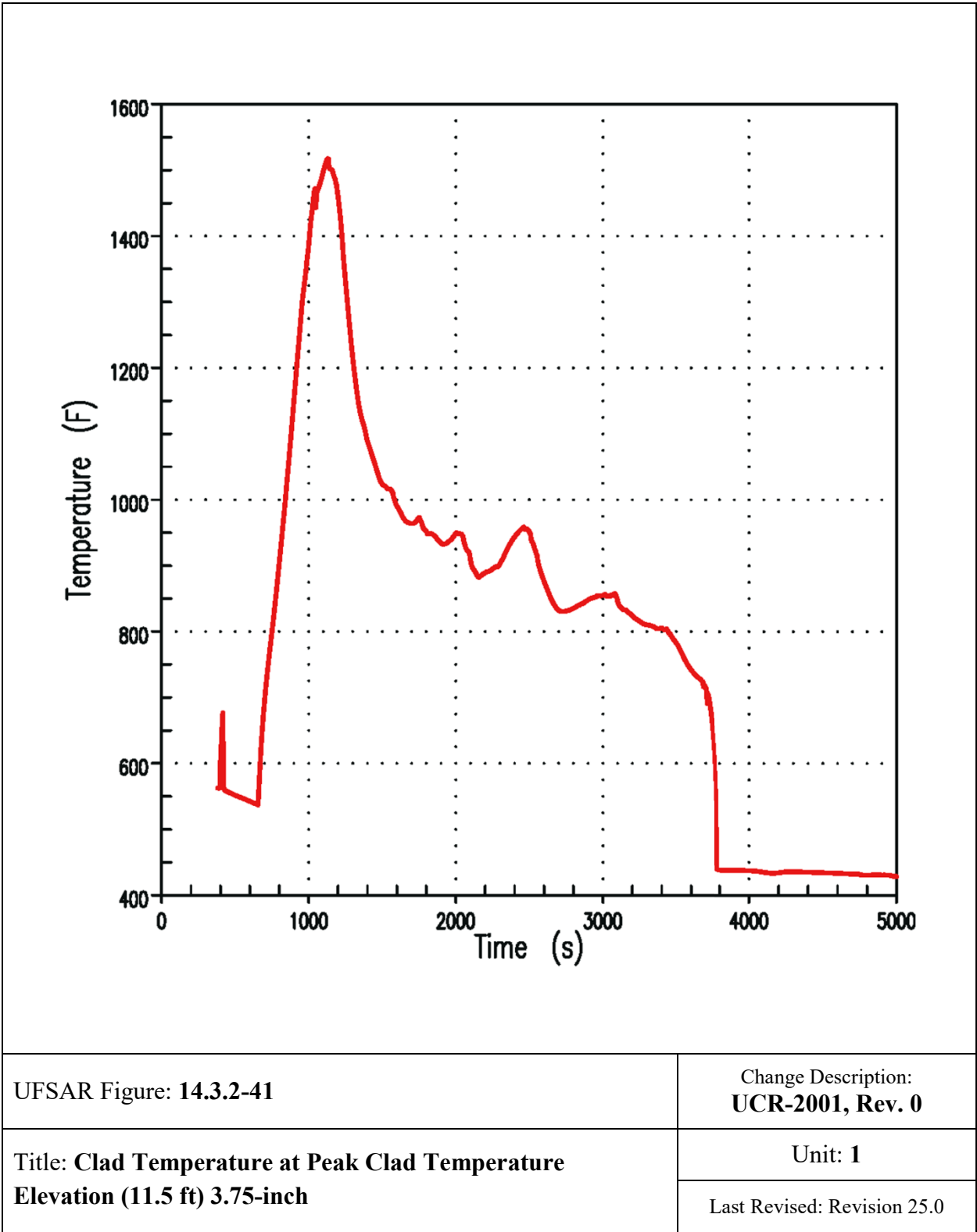
Title: **Top of Core Vapor Temperature 3.75-inch**

Unit: **1**

Last Revised: Revision 25.0


UFSAR Revision 30.0

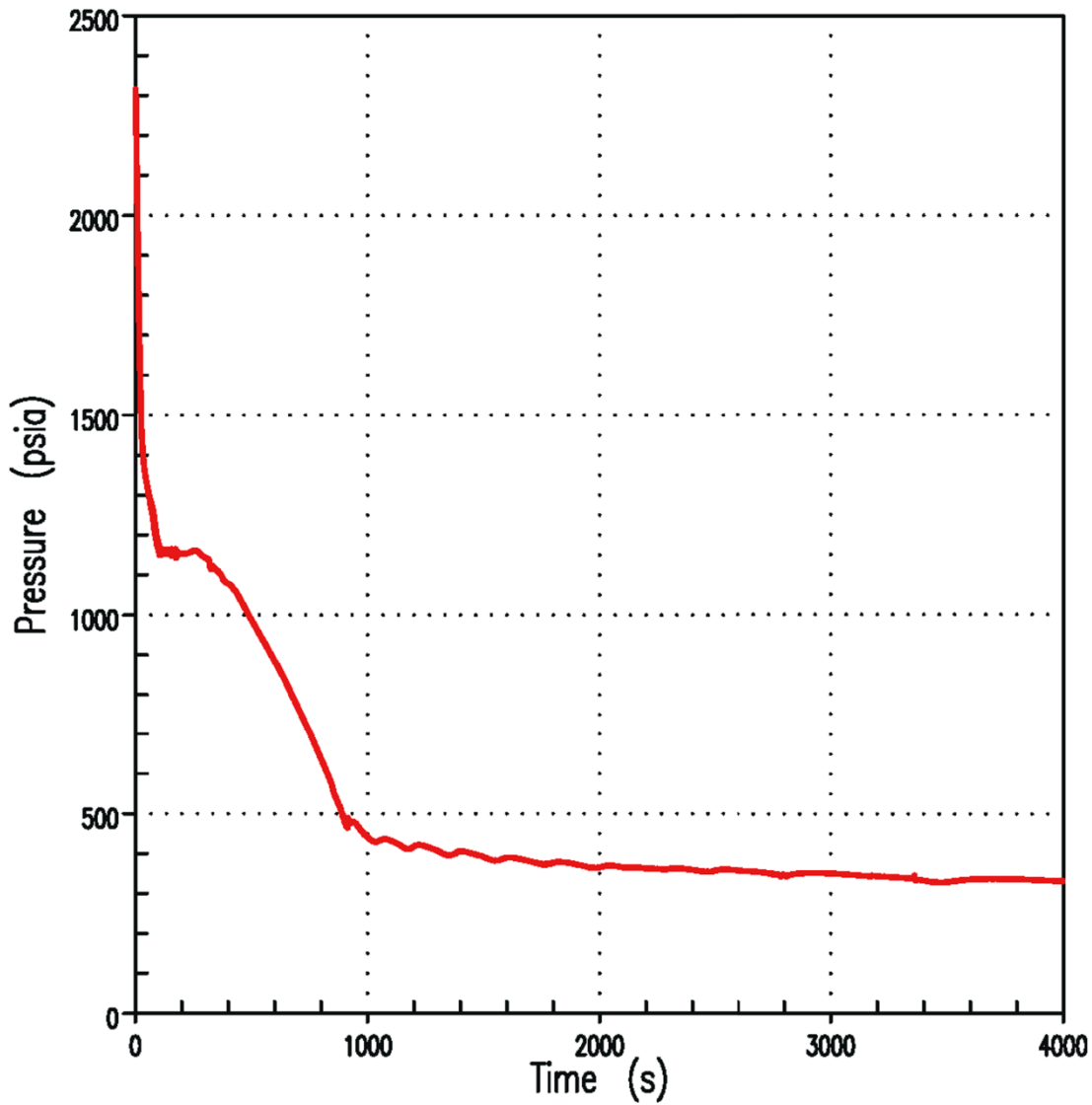
 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-42


Change Description:  
**UCR-2001, Rev. 0**

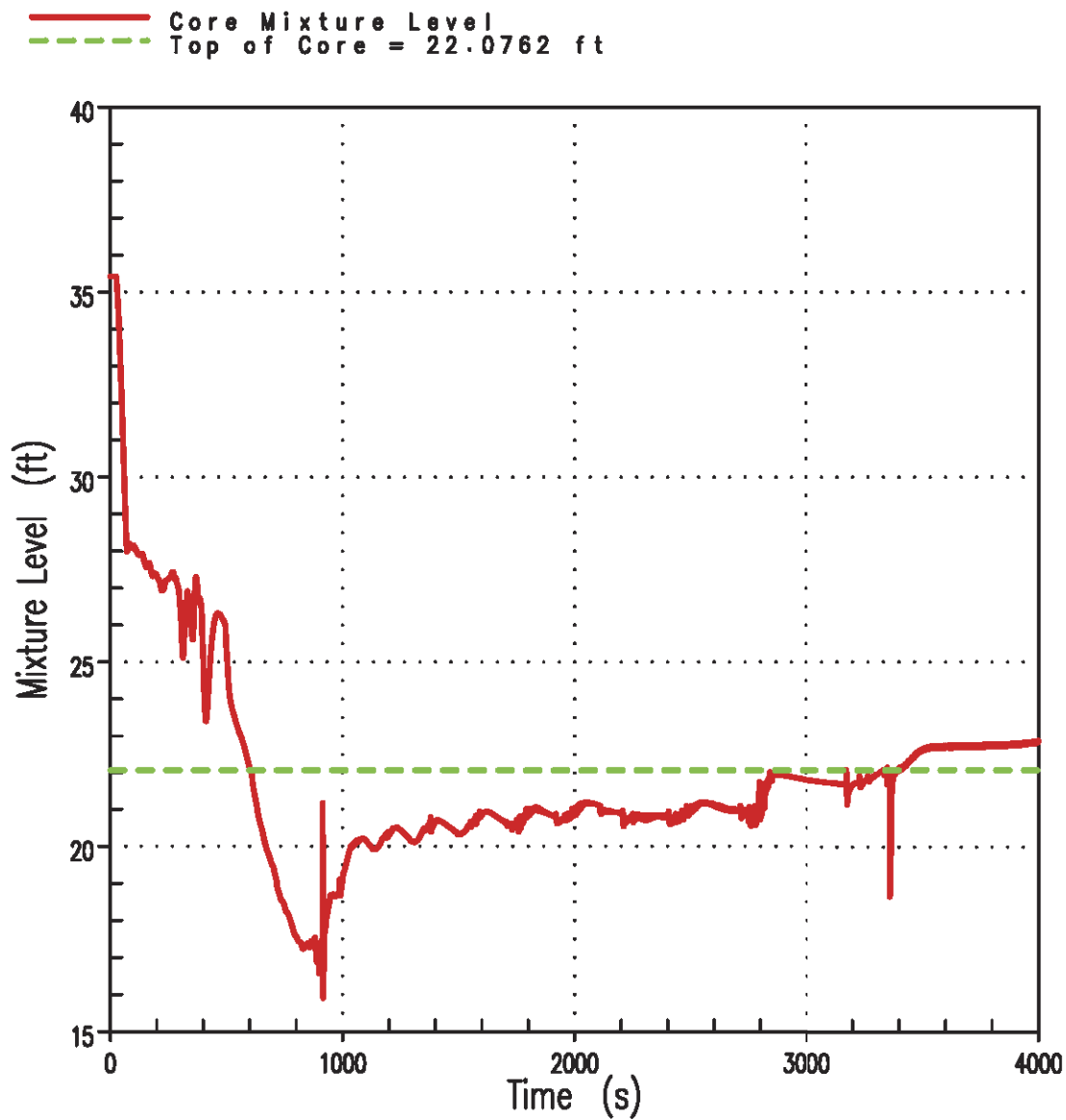
Title: **Reactor Coolant System Pressure 4-inch**

Unit: **1**

Last Revised: Revision 25.0

UFSAR Revision 30.0

 An <b>AEP</b> Company	<p>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-43


Change Description:  
**UCR-2001, Rev. 0**

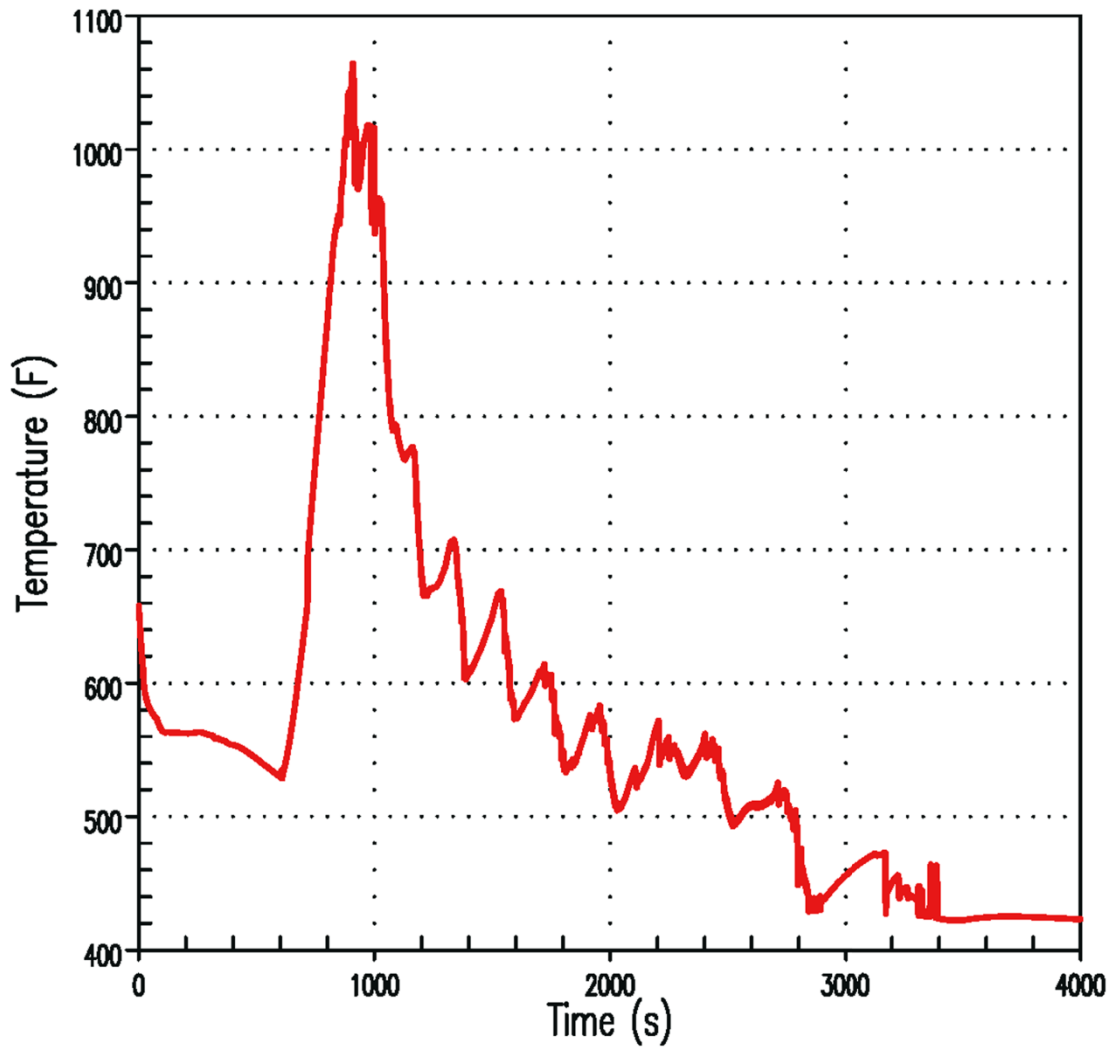
Title: **Core Mixture Level 4-inch**

Unit: **1**

Last Revised: Revision 25.0

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UFSAR Figure: 14.3.2-44

Change Description:  
**UCR-2001, Rev. 0**

Title: **Top of Core Vapor Temperature 4-inch**

Unit: **1**

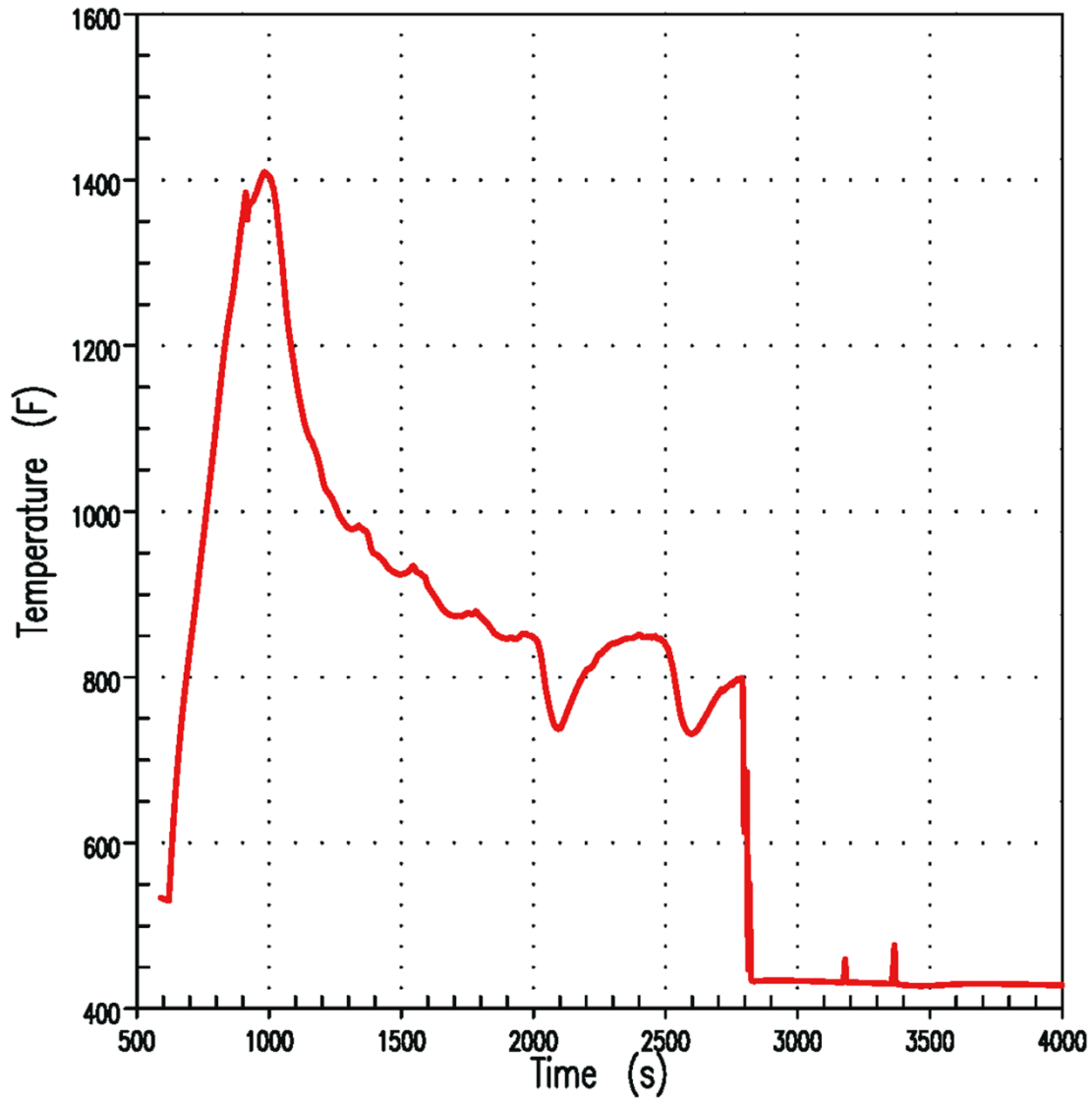
Last Revised: Revision 25.0

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UFSAR Figure: 14.3.2-45


Change Description:  
UCR-2001, Rev. 0

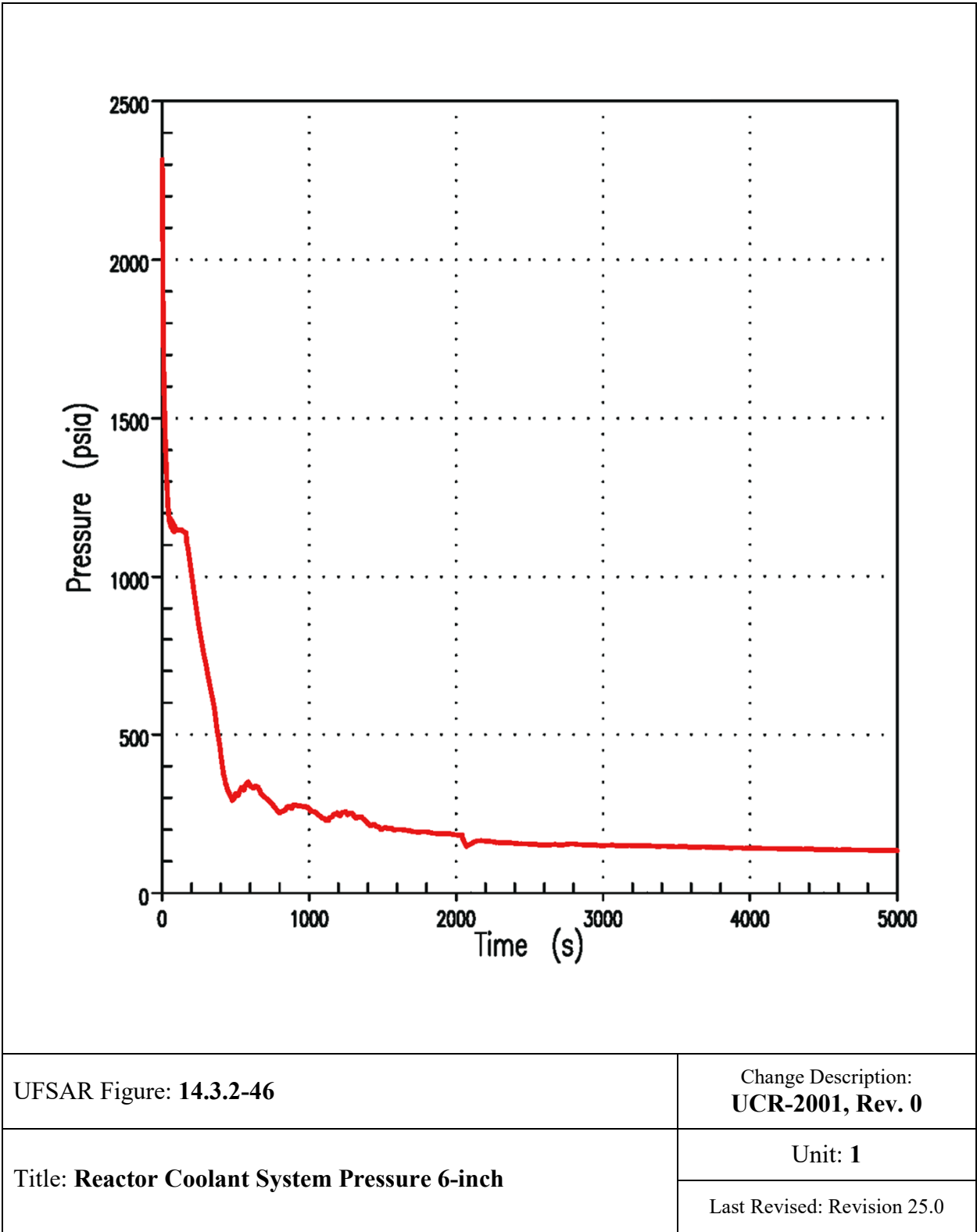
Title: Clad Temperature at Peak Clad Temperature  
Elevation (11.25 ft) 4-inch

Unit: 1


Last Revised: Revision 25.0

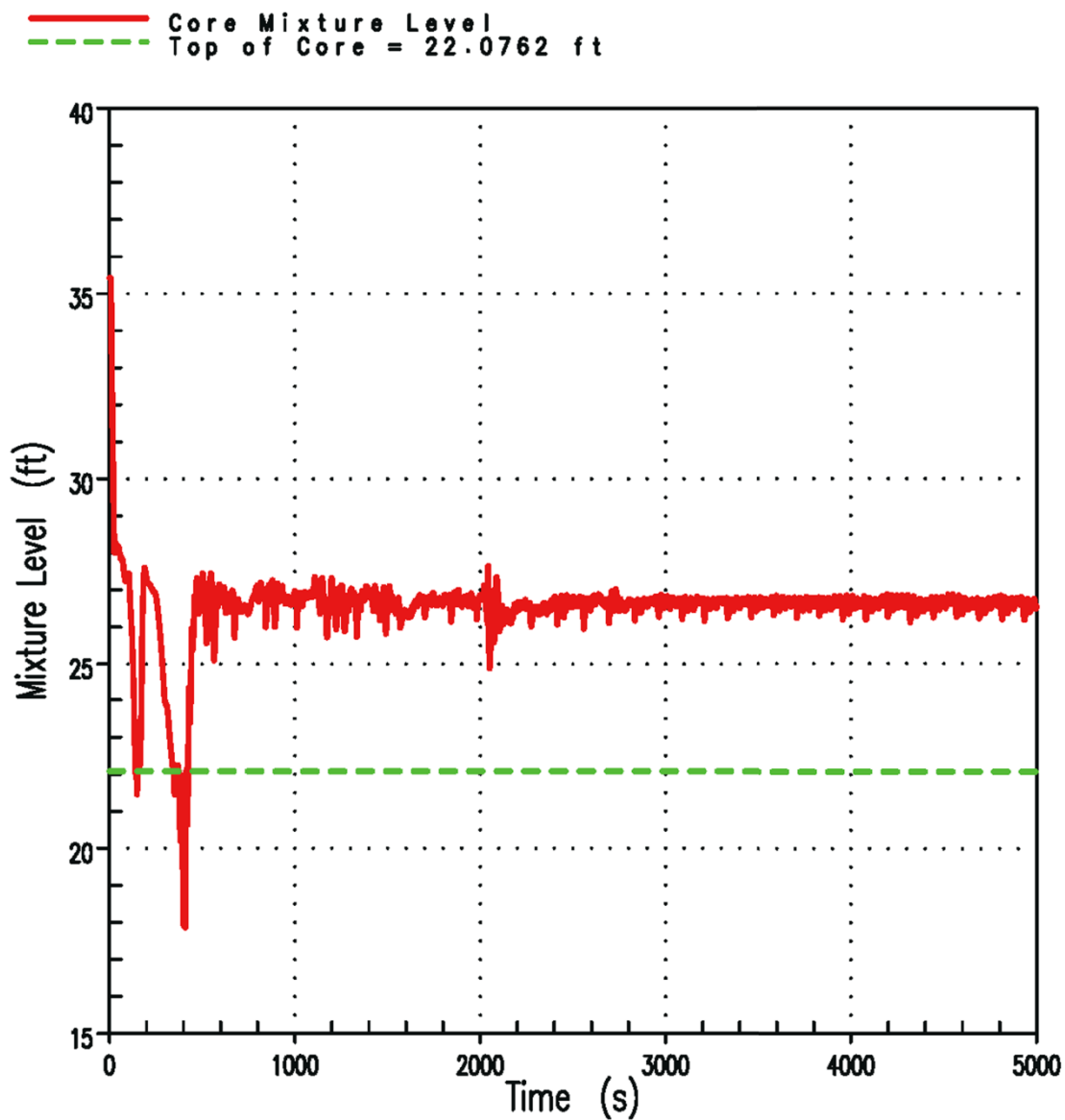
UFSAR Revision 30.0

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UFSAR Figure: 14.3.2-47


Change Description:  
**UCR-2001, Rev. 0**

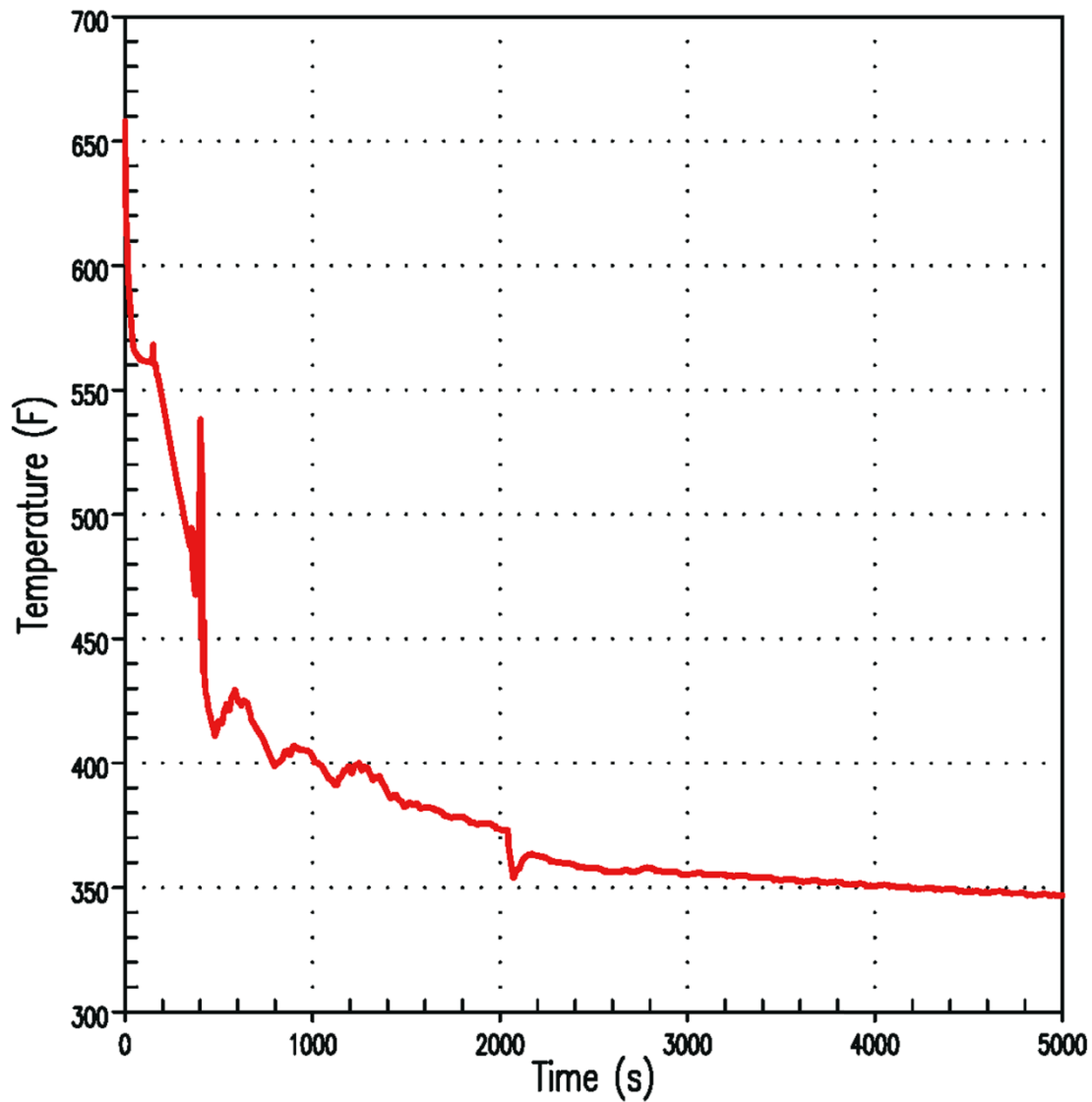
Title: **Core Mixture Level 6-inch**

Unit: **1**

Last Revised: Revision 25.0

UFSAR Revision 30.0

 An <b>AEP</b> Company	<p>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-48


Change Description:  
**UCR-2001, Rev. 0**

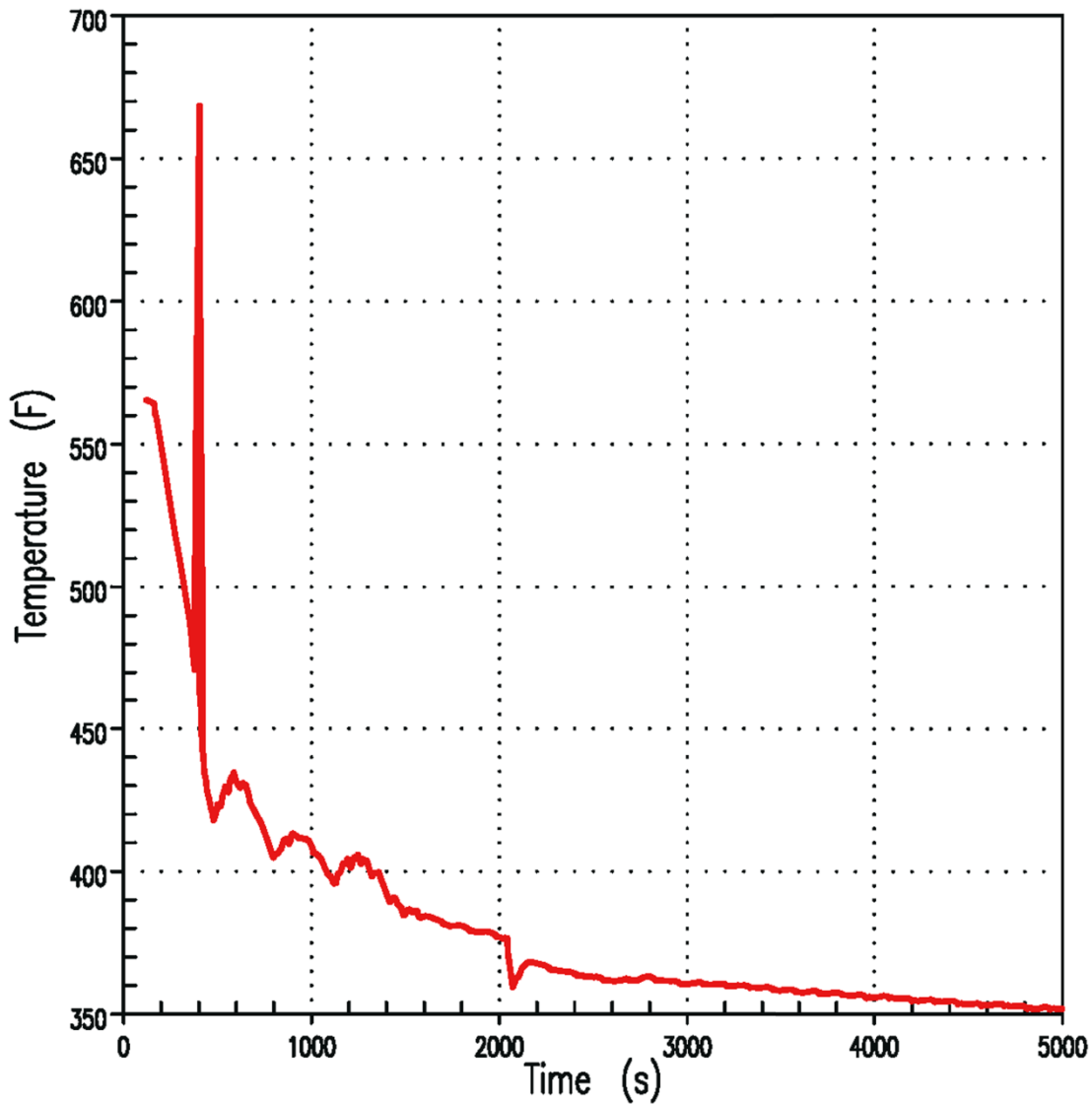
Title: **Top of Core Vapor Temperature 6-inch**

Unit: **1**

Last Revised: Revision 25.0

UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-49

Change Description:  
**UCR-2001, Rev. 0**


Title: Clad Temperature at Peak Clad Temperature  
Elevation (11.00 ft) 6-inch

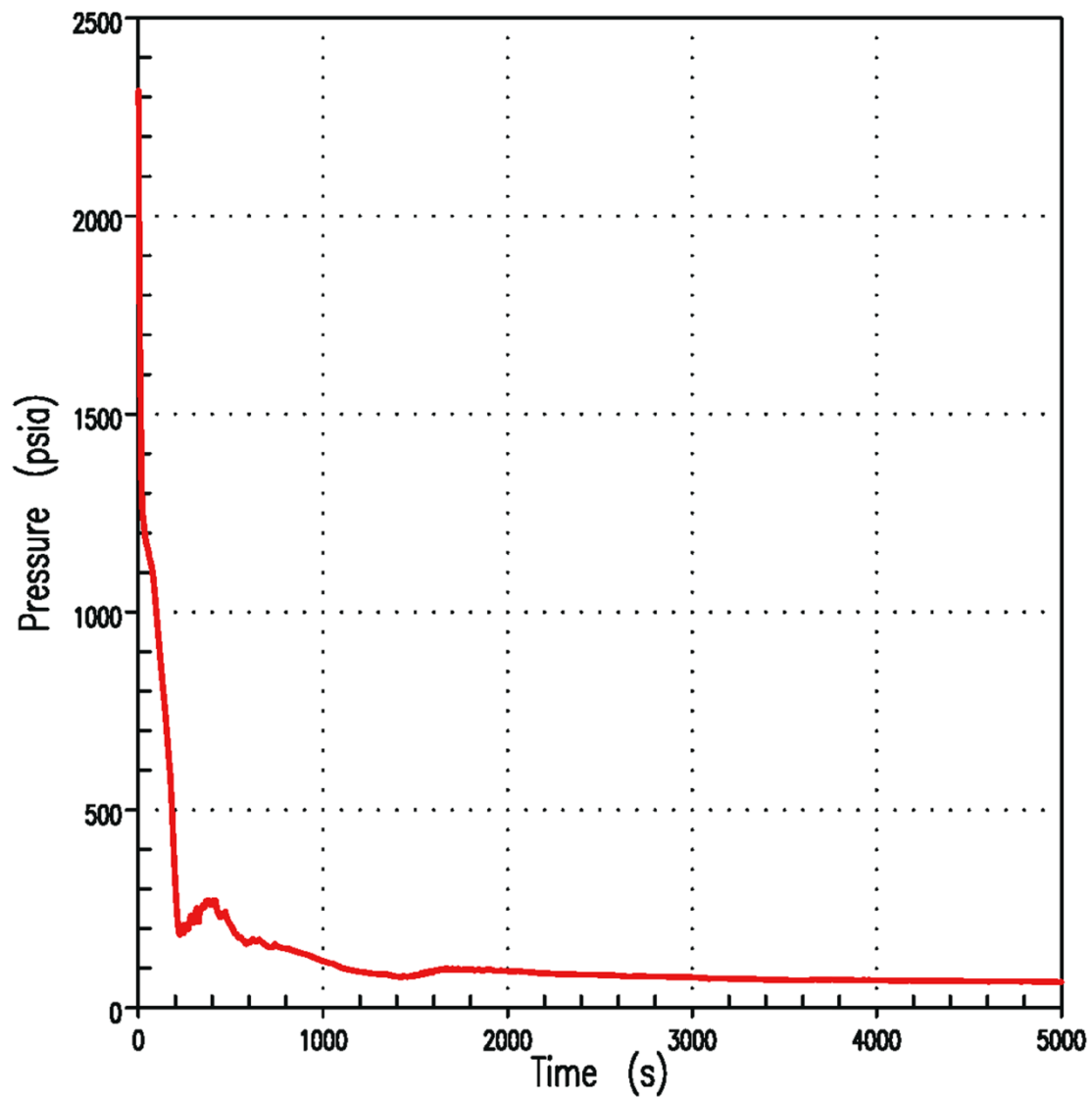
Unit: 1

Last Revised: Revision 25.0



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UFSAR Figure: 14.3.2-50


Change Description:  
**UCR-2001, Rev. 0**

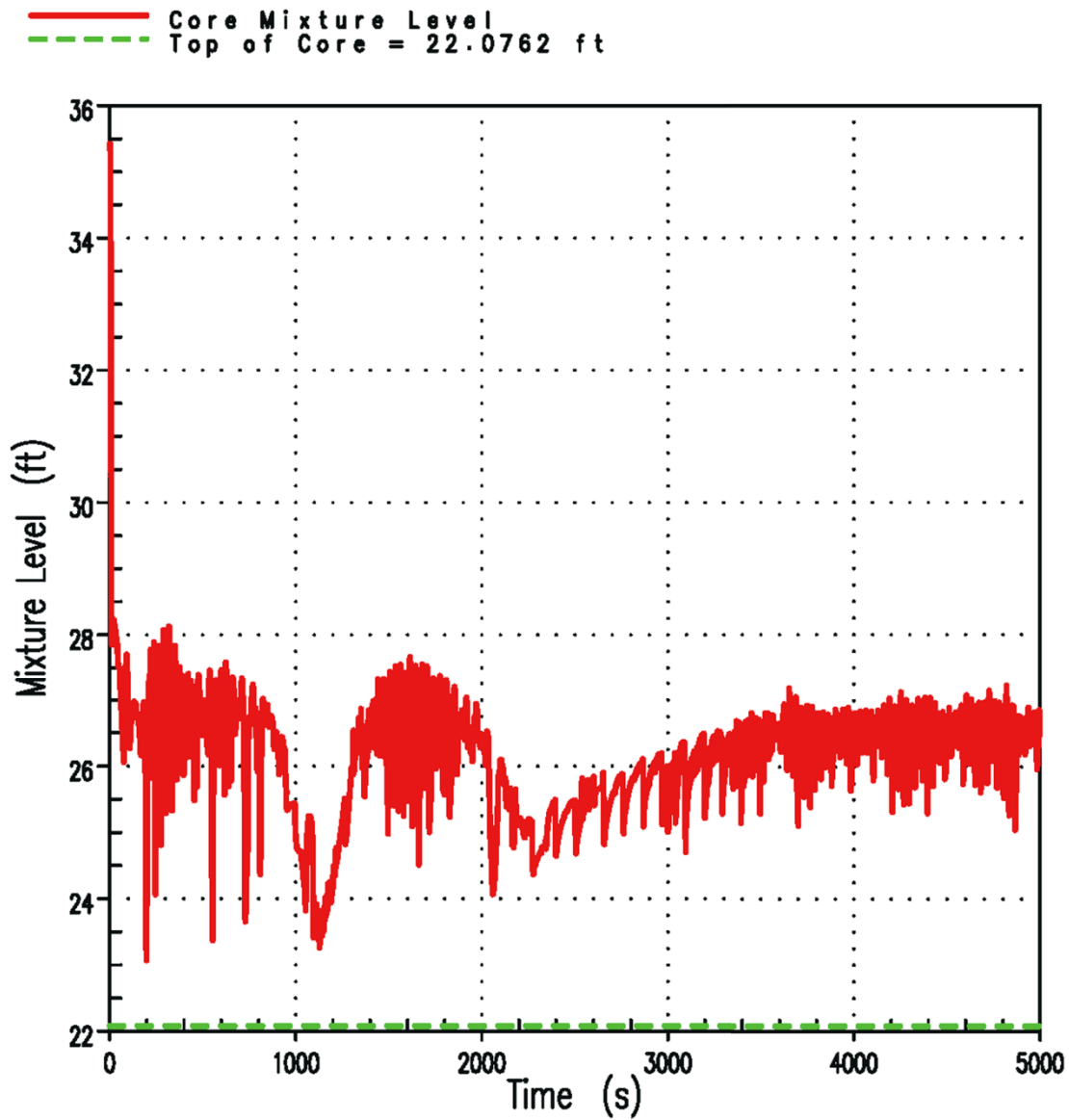
Title: **Reactor Coolant System Pressure 8.75-inch**

Unit: **1**

Last Revised: Revision 25.0

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 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revision: 25.0 Chapter: 14.3 Sheet: 1 of 1</p>
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UFSAR Figure: 14.3.2-51


Change Description:  
**UCR-2001, Rev. 0**

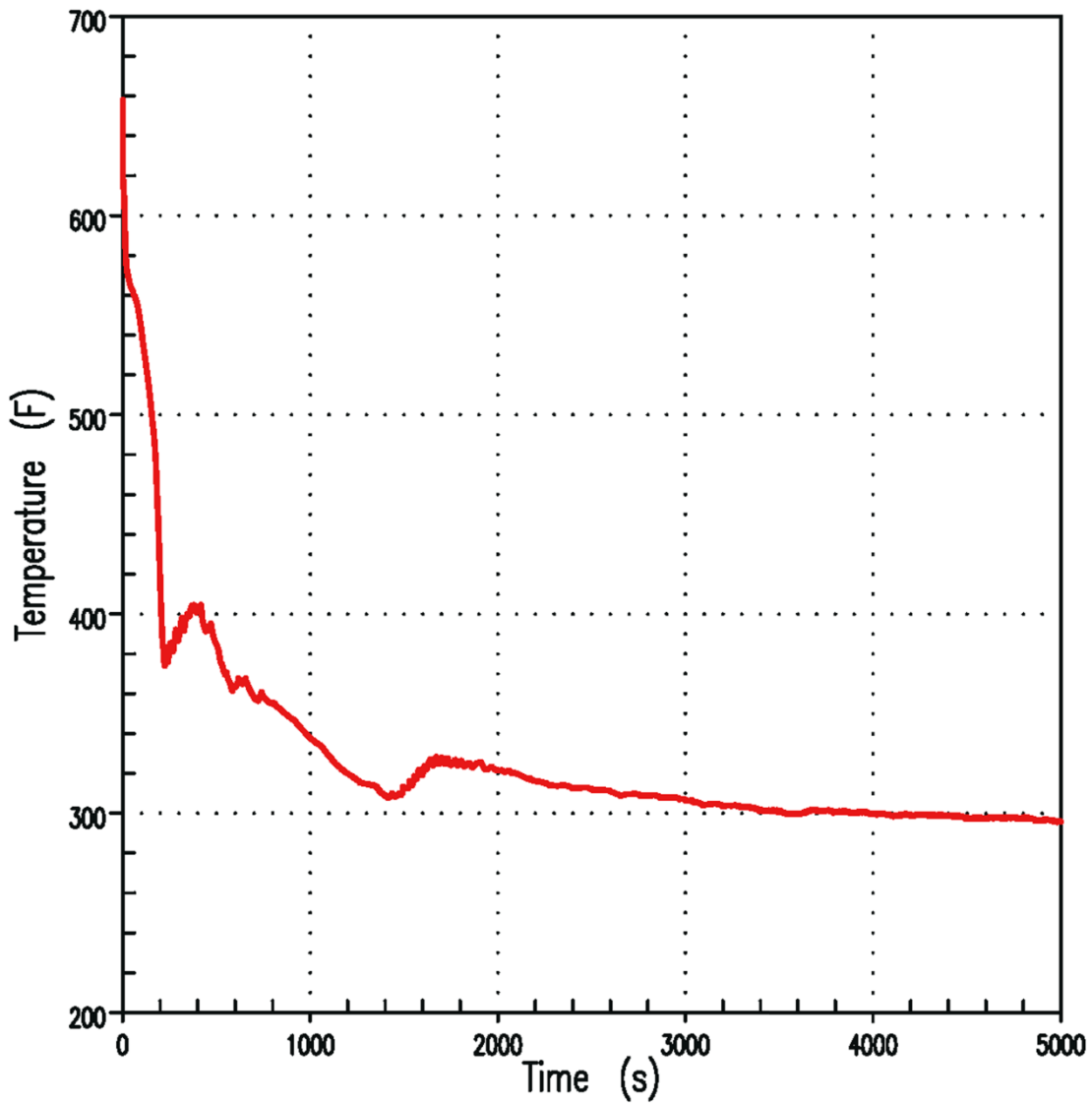
Title: Core Mixture Level 8.75-inch

Unit: 1

Last Revised: Revision 25.0

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UFSAR Figure: 14.3.2-52

Change Description:  
**UCR-2001, Rev. 0**

Title: **Top of Core Vapor Temperature 8.75-inch**

Unit: **1**

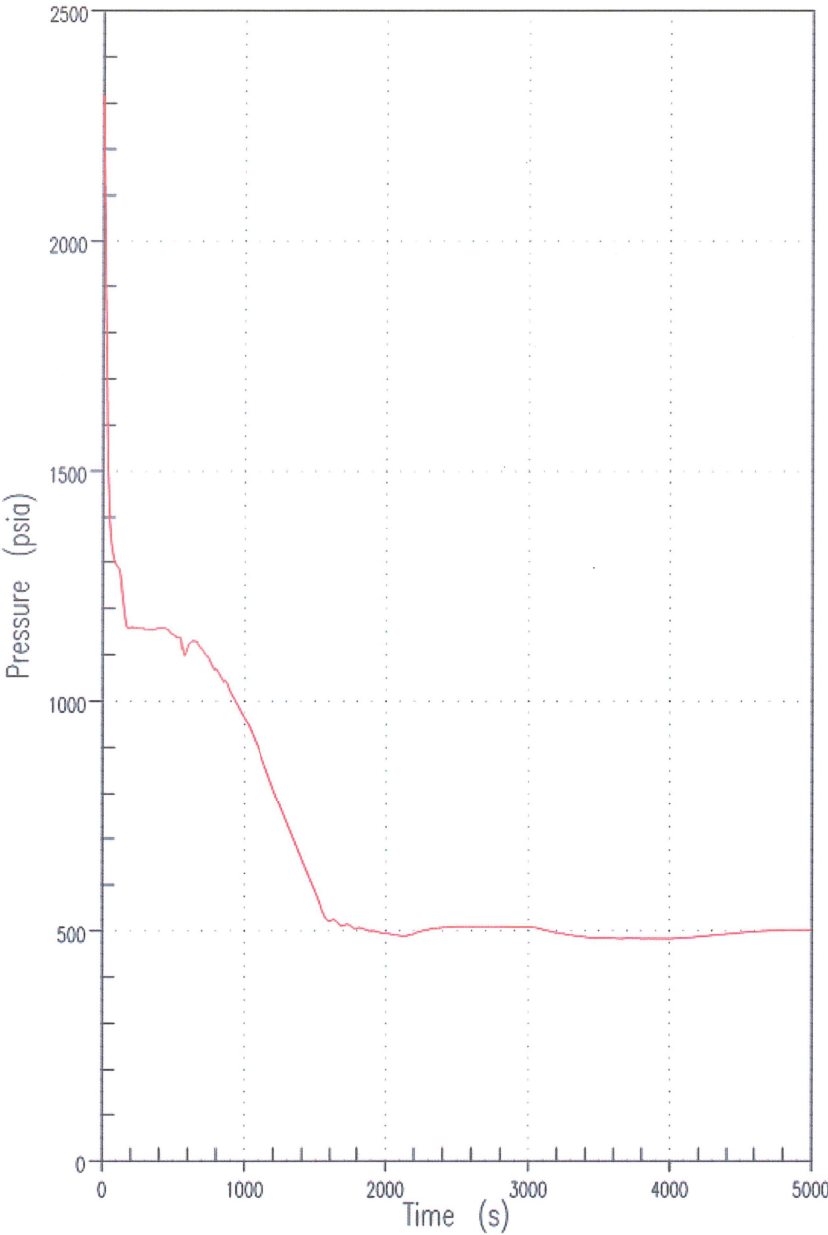
Last Revised: Revision 25.0

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UFSAR Figure: 14.3.2-53

Unit 1

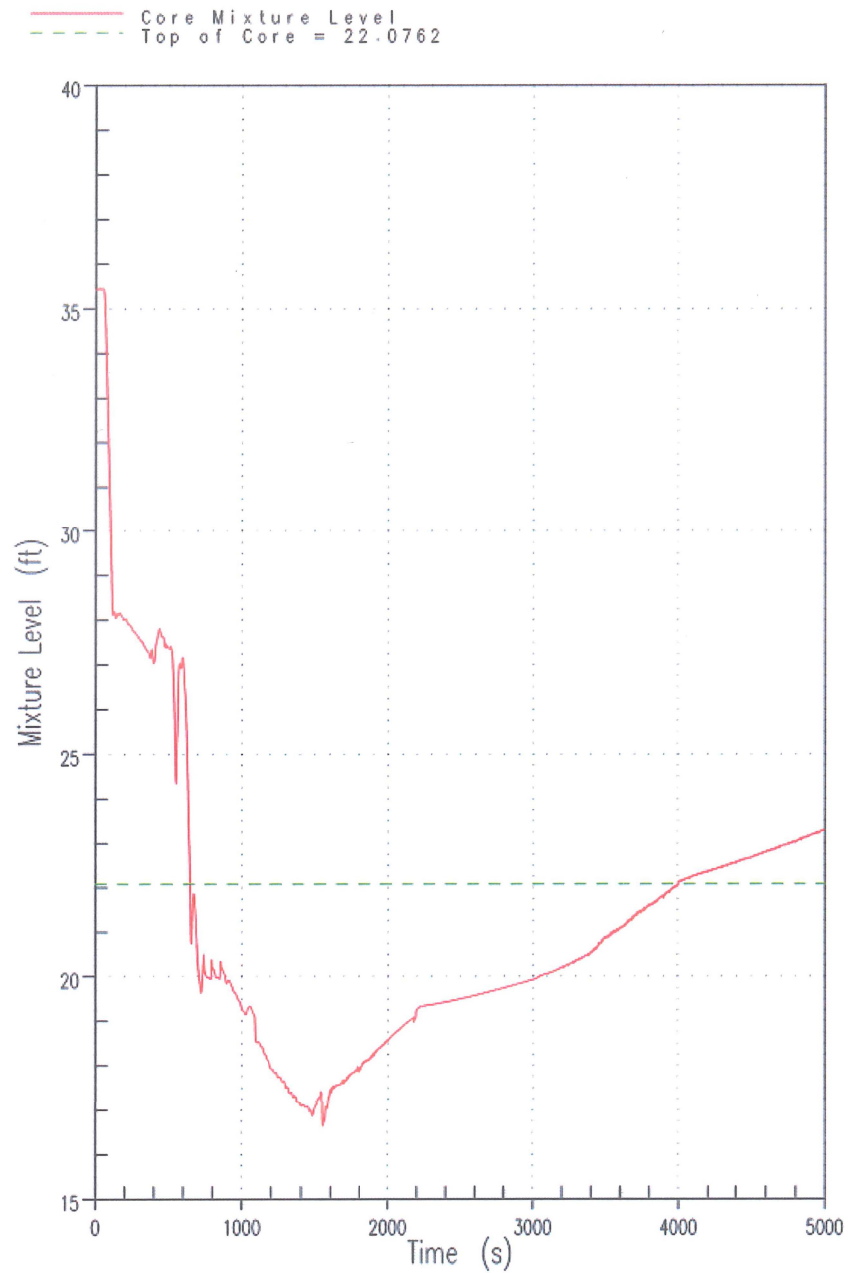
Title: Reactor Coolant System Pressure Upflow Configuration 3.0-inch

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UFSAR Figure: 14.3.2-54

Unit 1

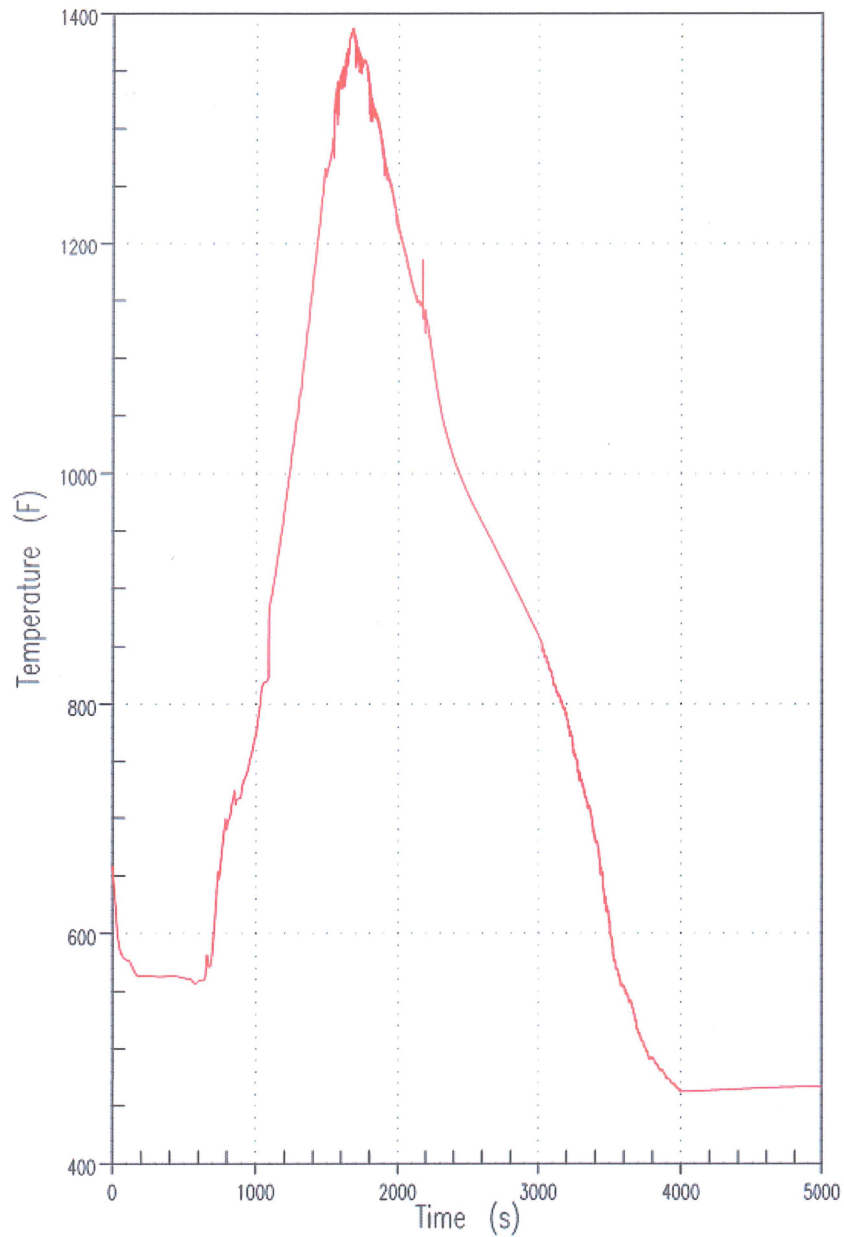
Title: Core Mixture Level Upflow Configuration 3.0-inch

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### INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT

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UFSAR Figure: 14.3.2-55

Unit 1

Title: Top of Core Vapor Temperature Upflow Configuration 3.0-inch

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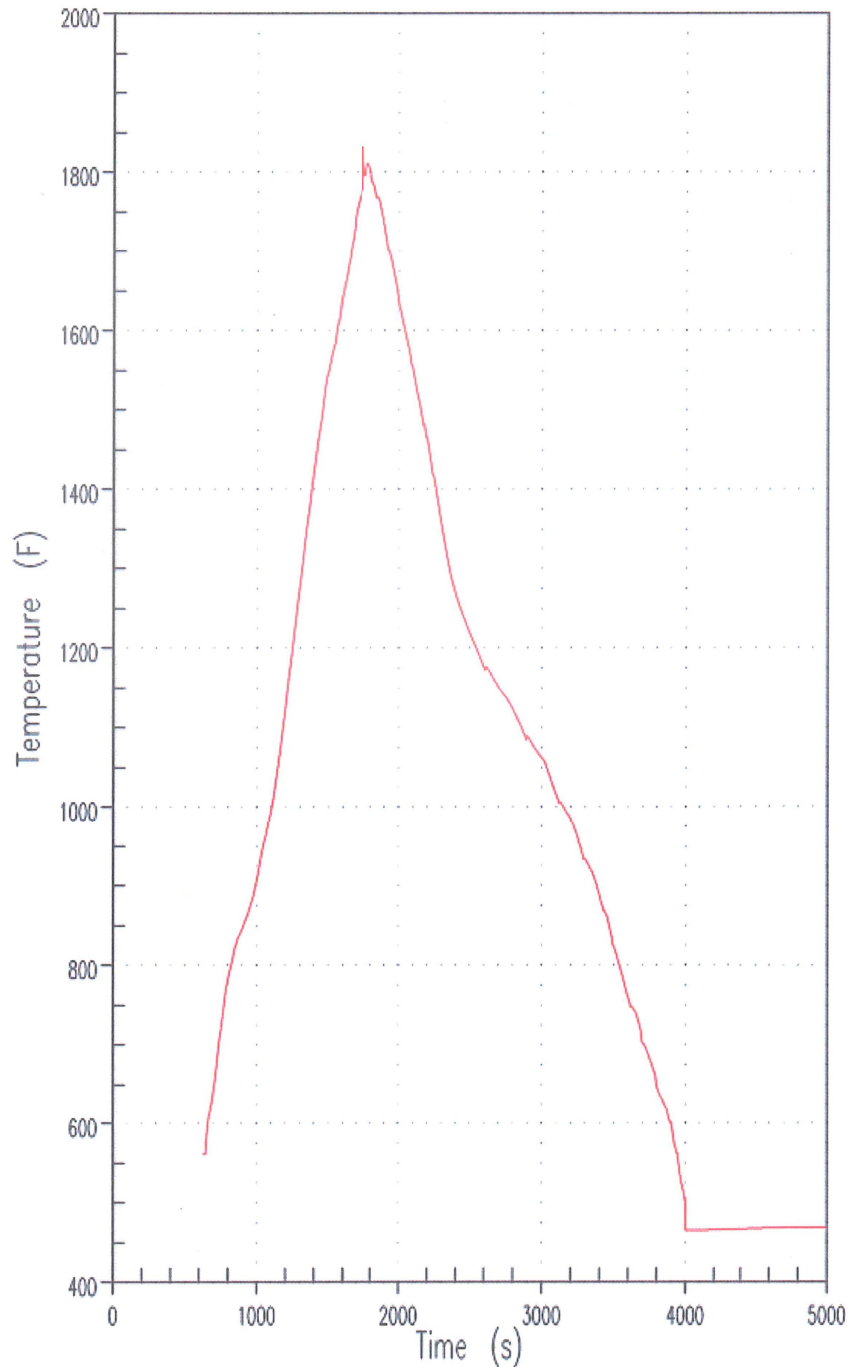


### INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT

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UFSAR Figure: 14.3.2-56

Unit 1

Title: Cladding Temperature at PCT Elevation (8500 MWD/MTU) Upflow Configuration 3.0-inch

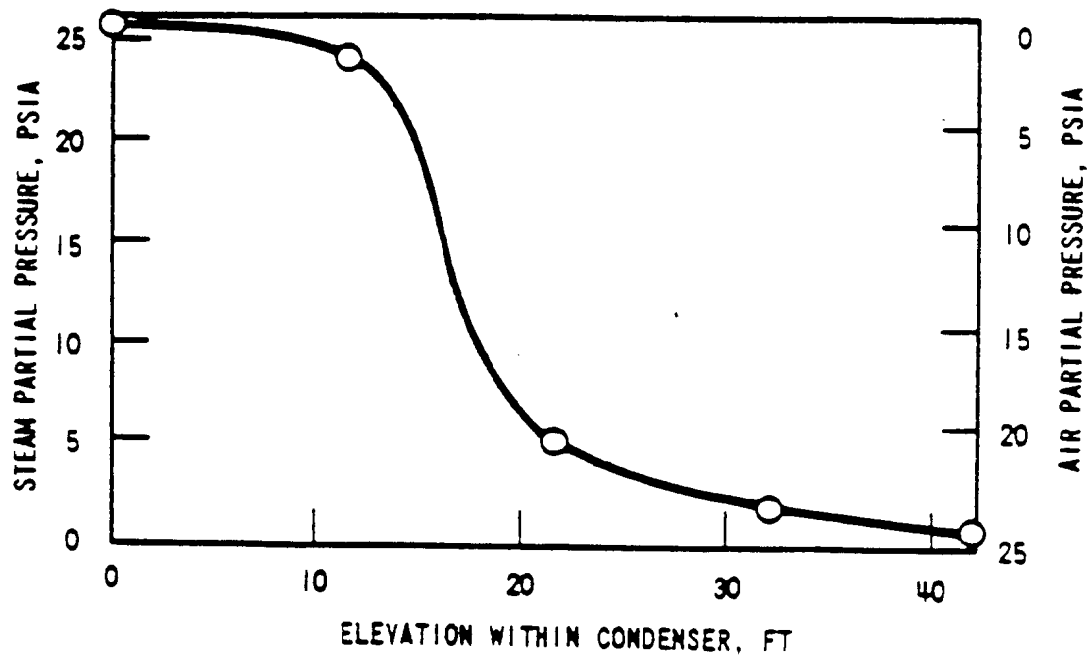


Figure 14.3.4-1 Steam Concentration in a Vertical Distribution Channel



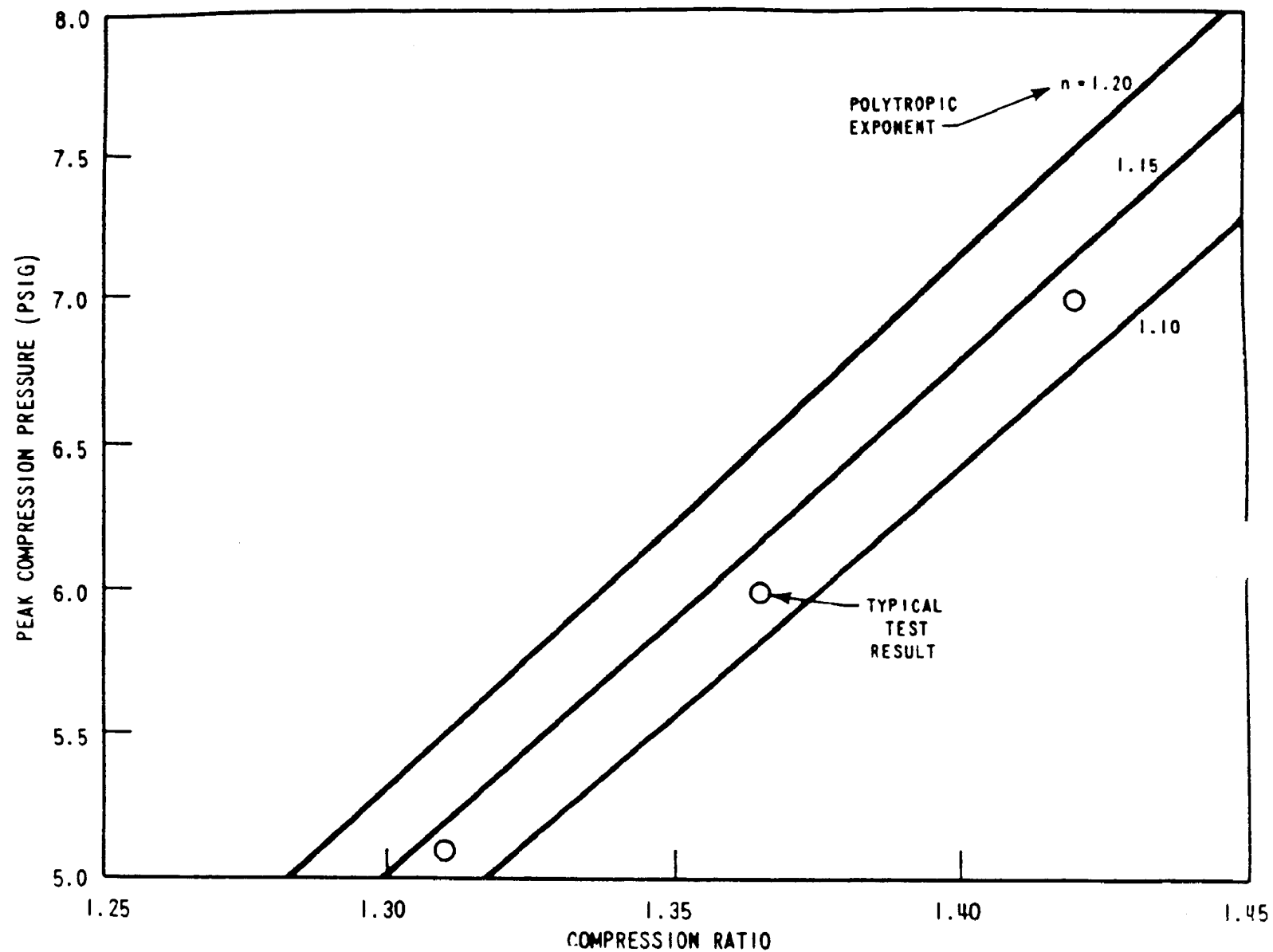


Figure 14.3.4-2 Peak Compression Pressure Versus Compression Ratio

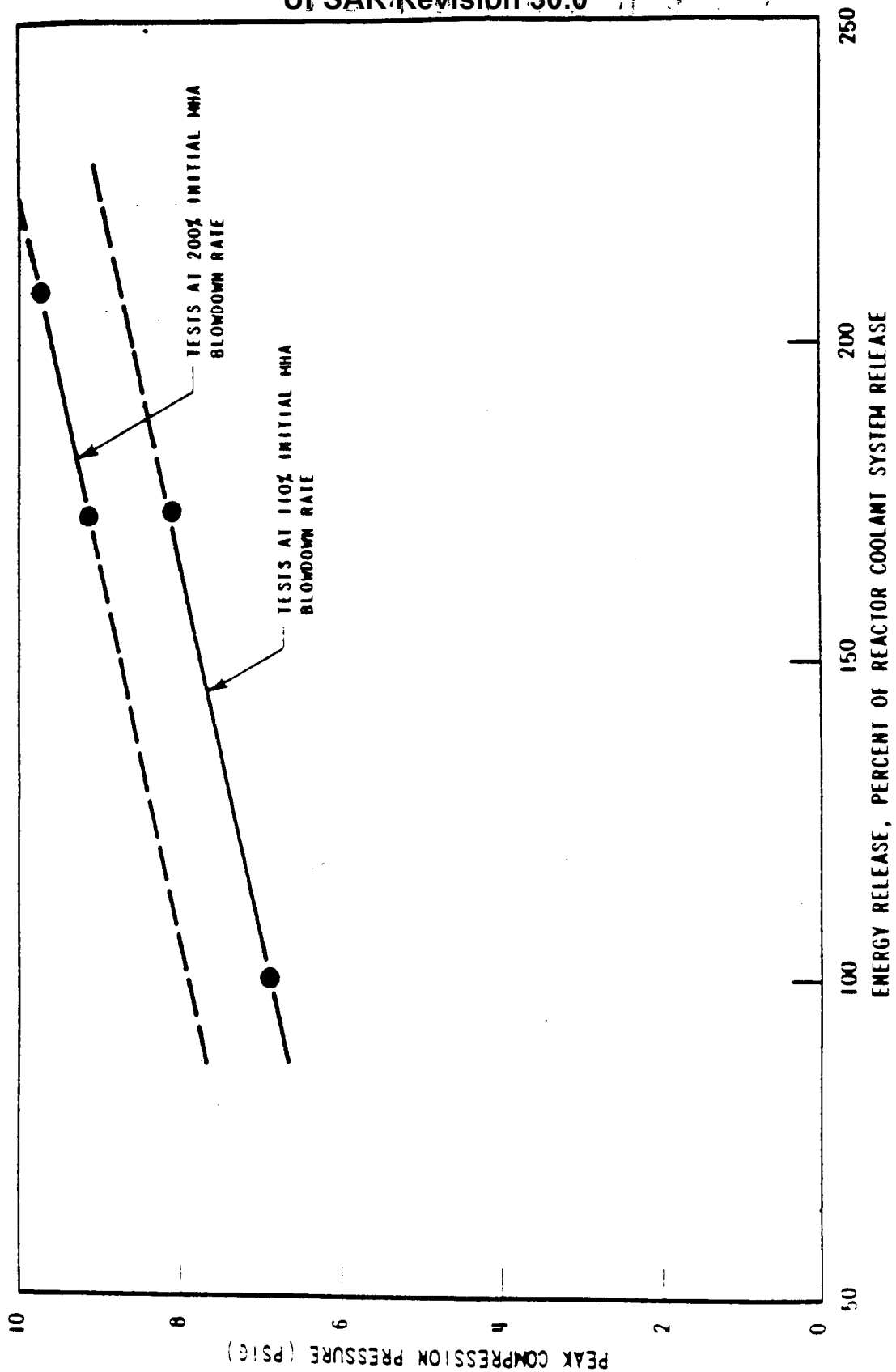
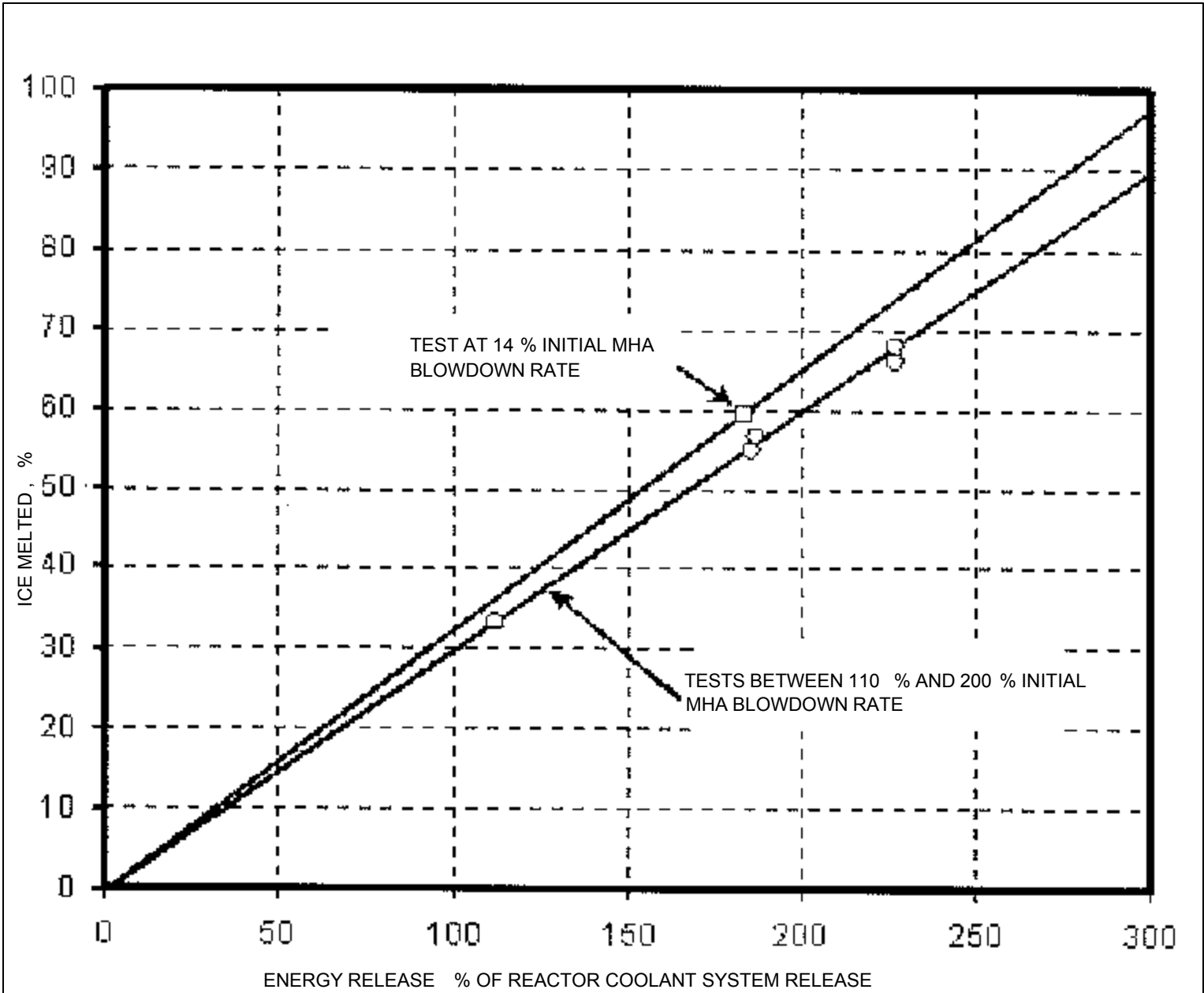


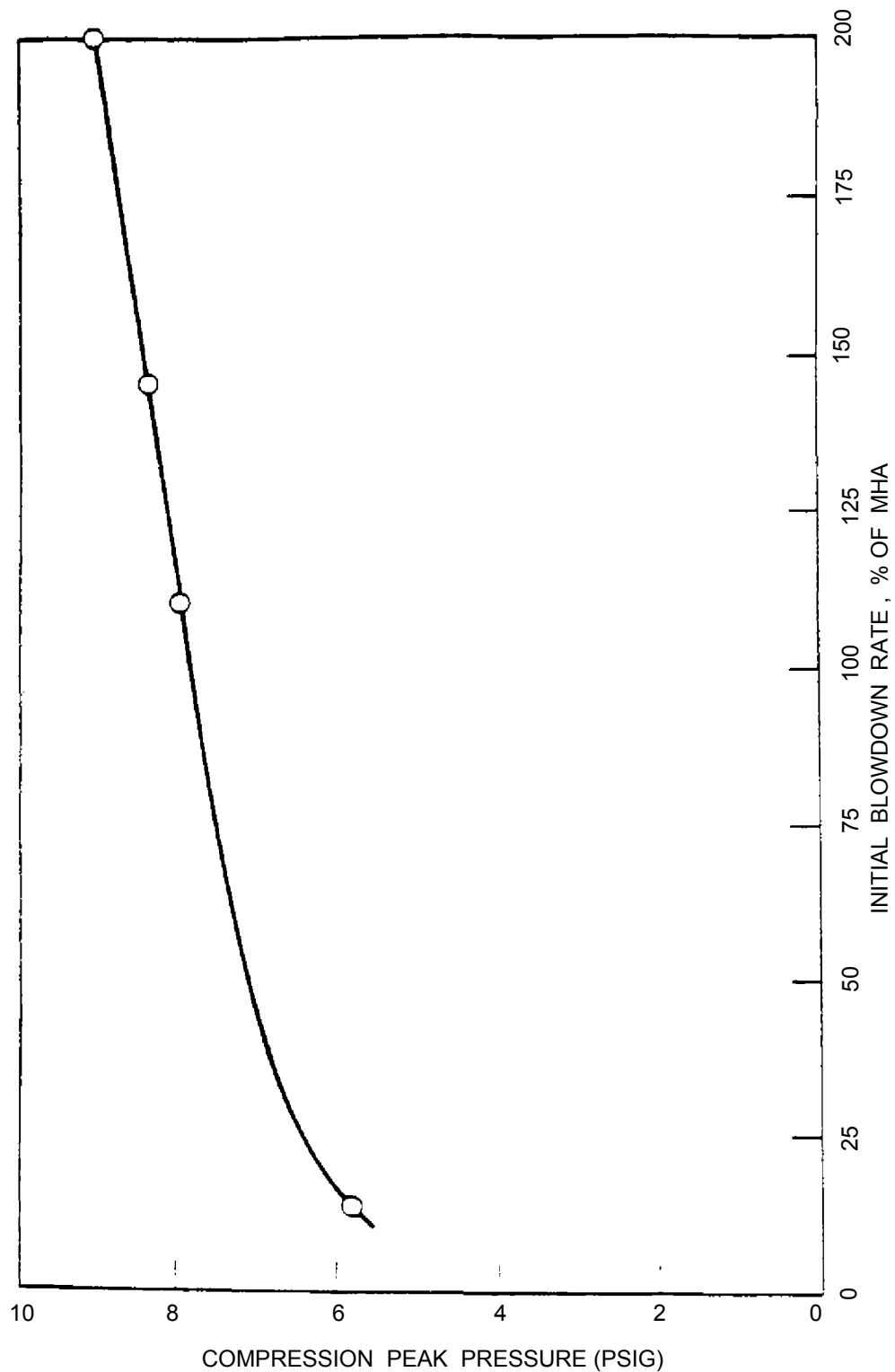
Figure 14.3.4-3 Upper Compartment Compression Pressure versus Energy Release for Tests at 110% and 200% of Initial DBA Blowdown Rate



UNIT 1

16.4	REVISED PER 99-UFSAR-0956		
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Ice Melted versus Energy Release for Tests at Different Blowdown Rates		
	DWG. NO. FSAR FIG. 14.3.4-4		SH 1 of 1


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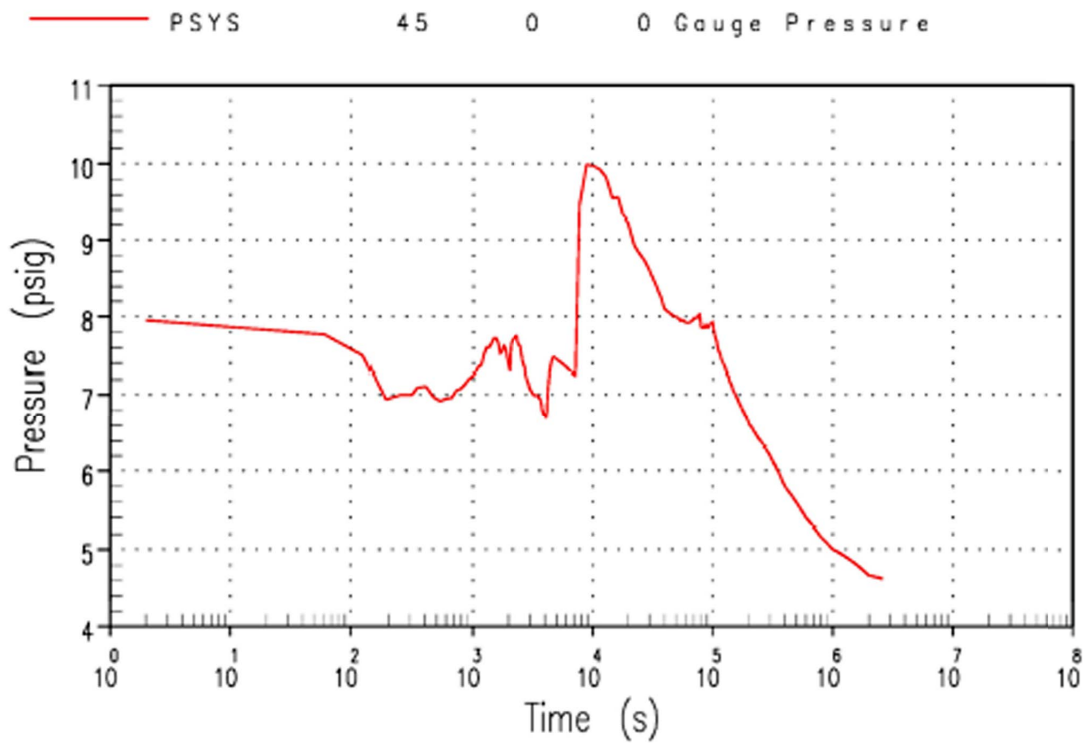


16.4	REVISED PER 99-UFSAR-956		UNIT 1
REV. NO.	DESCRIPTION		
REVISIONS			
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	TITLE Upper Compartment Peak Compression Pressure versus Blowdown Rate for Tests with 185% Energy Release		
	DWG. NO. FSAR FIG. 14.3.4-5		SH 1 of 1

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<div><div><div>INDIANA MICHIGAN POWER</div><div>An AEP Company</div></div></div>	<div>INDIANA MICHIGAN POWER</div> <div>D. C. COOK NUCLEAR PLANT</div> <div>UPDATED FINAL SAFETY ANALYSIS REPORT</div>	<div>Revised: 27.0</div> <div>Chapter: 14</div> <div>Sheet: 1 of 1</div>																														
<div><div><div>PSYS4500 Gauge Pressure</div><div><div>Pressure (psig)</div><div>Time (s)</div></div></div><table><caption>Approximate data points from the pressure transient plot</caption><tr><th>Time (s)</th><th>Pressure (psig)</th></tr><tr><td>0.0</td><td>8.1</td></tr><tr><td>1.0</td><td>7.9</td></tr><tr><td>2.0</td><td>7.5</td></tr><tr><td>2.2</td><td>7.0</td></tr><tr><td>2.5</td><td>7.1</td></tr><tr><td>3.0</td><td>7.5</td></tr><tr><td>3.2</td><td>7.8</td></tr><tr><td>3.5</td><td>7.2</td></tr><tr><td>3.8</td><td>6.8</td></tr><tr><td>4.0</td><td>10.1</td></tr><tr><td>4.5</td><td>8.5</td></tr><tr><td>5.0</td><td>7.0</td></tr><tr><td>6.0</td><td>5.0</td></tr><tr><td>6.5</td><td>4.7</td></tr></table></div> <div><div>Note 1: Figure 14.3.4-6 is a representative plot of the D. C. Cook LOCA pressure transient. The actual plot will be slightly lower. The current peak pressure is calculated to be 11.16 psig +0.27 psig as described in Section 14.3.4.1.3.1.3 (U1).</div></div>			Time (s)	Pressure (psig)	0.0	8.1	1.0	7.9	2.0	7.5	2.2	7.0	2.5	7.1	3.0	7.5	3.2	7.8	3.5	7.2	3.8	6.8	4.0	10.1	4.5	8.5	5.0	7.0	6.0	5.0	6.5	4.7
Time (s)	Pressure (psig)																															
0.0	8.1																															
1.0	7.9																															
2.0	7.5																															
2.2	7.0																															
2.5	7.1																															
3.0	7.5																															
3.2	7.8																															
3.5	7.2																															
3.8	6.8																															
4.0	10.1																															
4.5	8.5																															
5.0	7.0																															
6.0	5.0																															
6.5	4.7																															
UFSAR Figure: 14.3.4-6	<div>Change Description: UCR-2087, Rev. 0 UCR-2138, Rev. 0</div>	Unit: 1																														
Title: LOCA Containment Integrity Containment Pressure																																


 An AEP Company	<p>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revised: 27.0 Chapter: 14 Sheet: 1 of 1</p>
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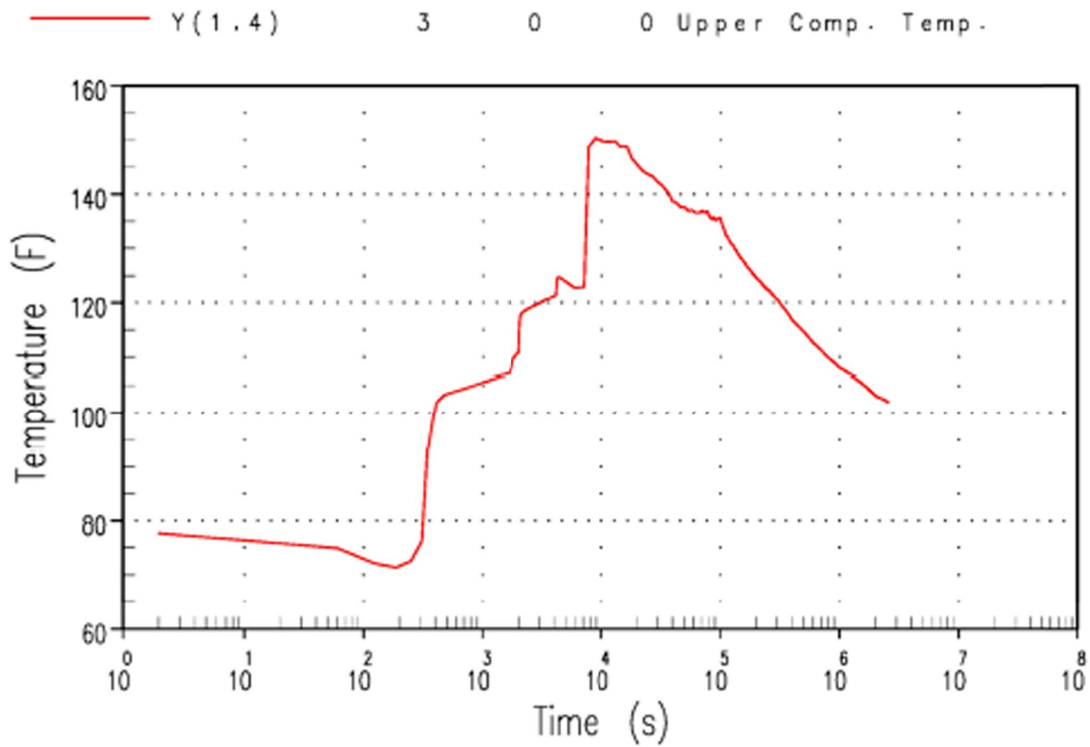


Note 1: This peak pressure is increased by 0.27 psi described in Section 14.3.4.1.3.1.3. The peak composite pressure is 10.37 psig.

Note 2: Figure 14.3.4-6A is a representative plot of the D. C. Cook LOCA pressure transient. The actual plot will peak slightly lower.

UFSAR Figure: 14.3.4-6A	Change Description: UCR-2087, Rev. 0 UCR-2138, Rev. 0	Unit: 1
Title: LOCA Containment Integrity (Composite) Containment Pressure		


 An AEP Company	<p>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revised: 27.0 Chapter: 14 Sheet: 1 of 1</p>
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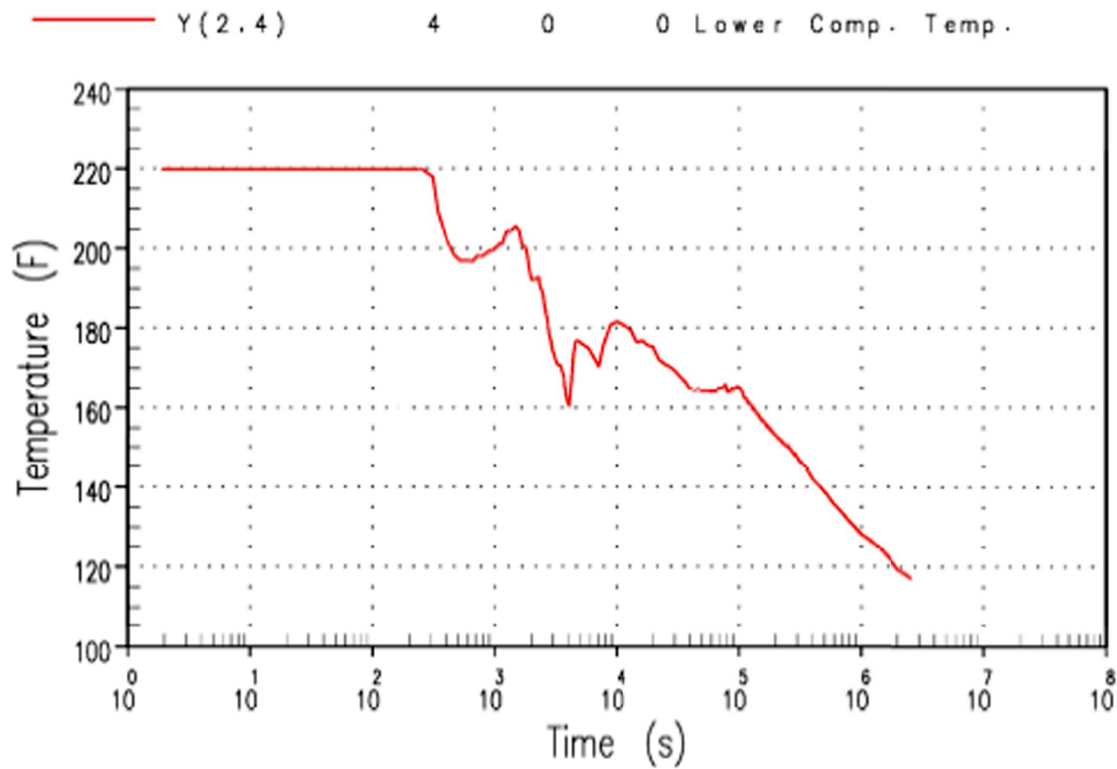


Note 1: Figure 14.3.4-7 is a representative plot of the D. C. Cook LOCA temperature transient. The actual plot will peak slightly lower.

UFSAR Figure: 14.3.4-7	Change Description: UCR-2087, Rev. 0 UCR-2138, Rev. 0	Unit: 1
Title: LOCA Containment Integrity Upper Compartment Temperature		

UFSAR Revision 30.0

 An AEP Company	<p>INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revised: 27.0 Chapter: 14 Sheet: 1 of 1</p>
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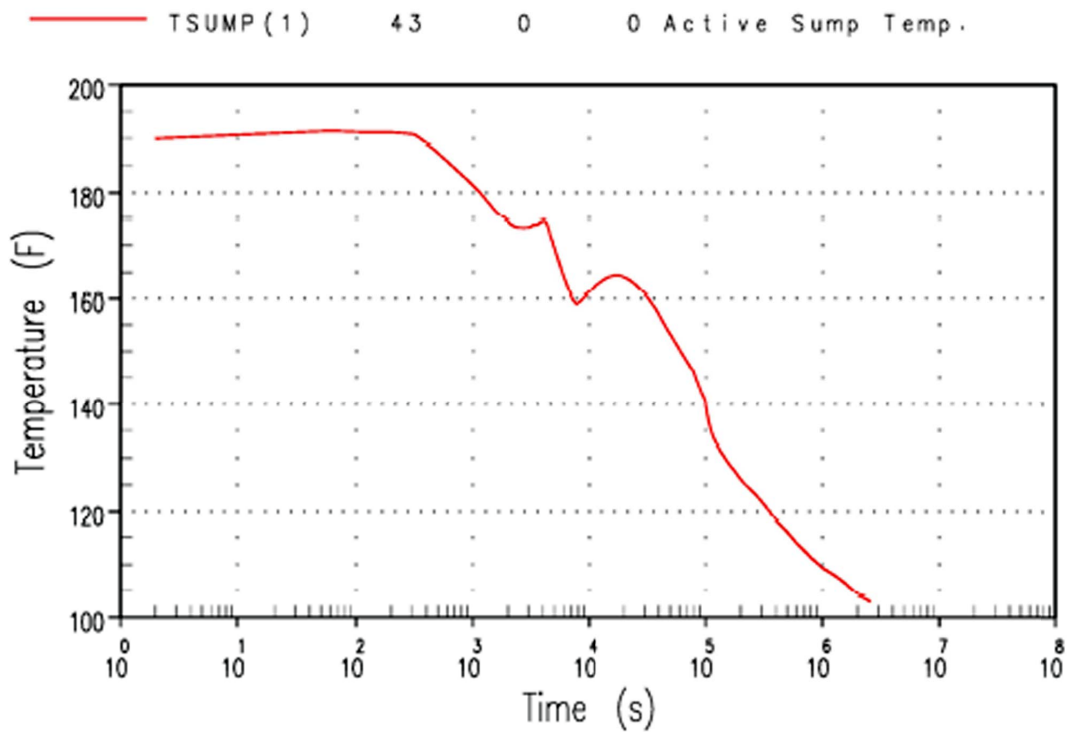
Note 1: Peak Temperature = 232.2°F.

Note 2: Figure 14.3.4-8 is a representative plot of the D. C. Cook LOCA temperature transient. The actual plot will peak slightly lower.

UFSAR Figure: 14.3.4-8	Change Description: UCR-2087, Rev. 0 UCR-2138, Rev. 0	Unit: 1
Title: LOCA Containment Integrity Lower Compartment Temperature		



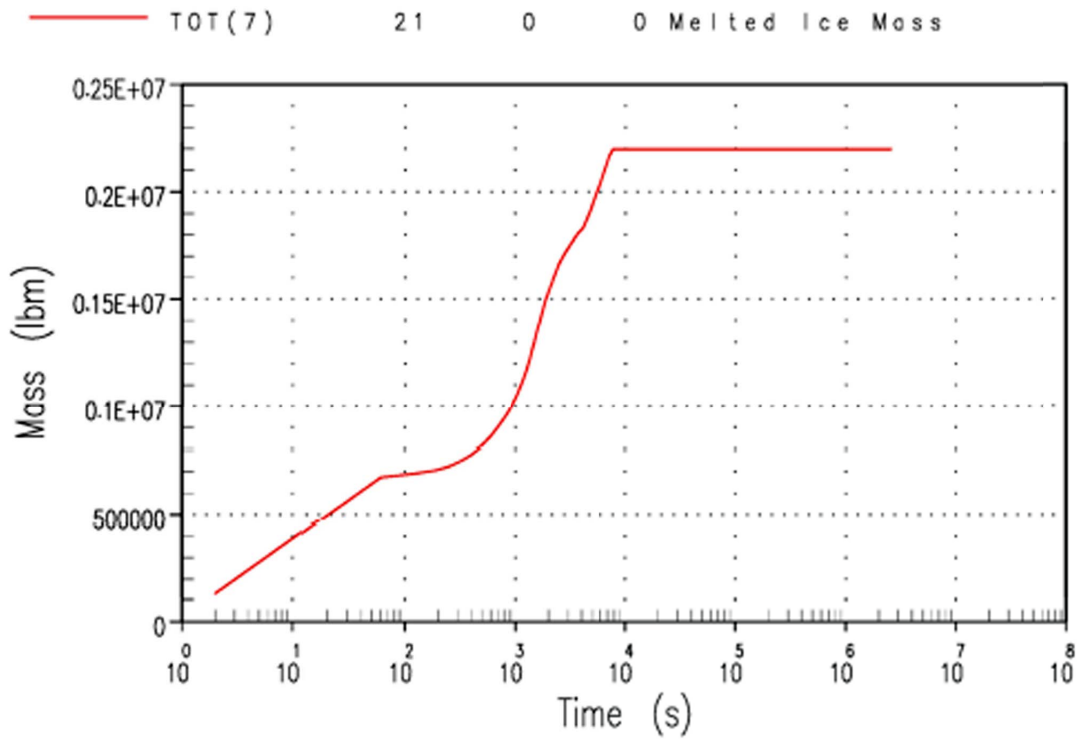
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Note 1: Figure 14.3.4-9 is a representative plot of the D. C. Cook LOCA containment sump temperature transient. The actual transient will vary slightly.

UFSAR Figure: 14.3.4-9	Change Description: UCR-2087, Rev. 0 UCR-2138, Rev. 0	Unit: 1
Title: LOCA Containment Integrity Containment Sump Temperature Transient		


<div><div><div>INDIANA MICHIGAN POWER</div><div>An AEP Company</div></div></div>	<div>INDIANA MICHIGAN POWER</div> <div>D. C. COOK NUCLEAR PLANT</div> <div>UPDATED FINAL SAFETY ANALYSIS REPORT</div>	<div>Revised: 27.0</div> <div>Chapter: 14</div> <div>Sheet: 1 of 1</div>
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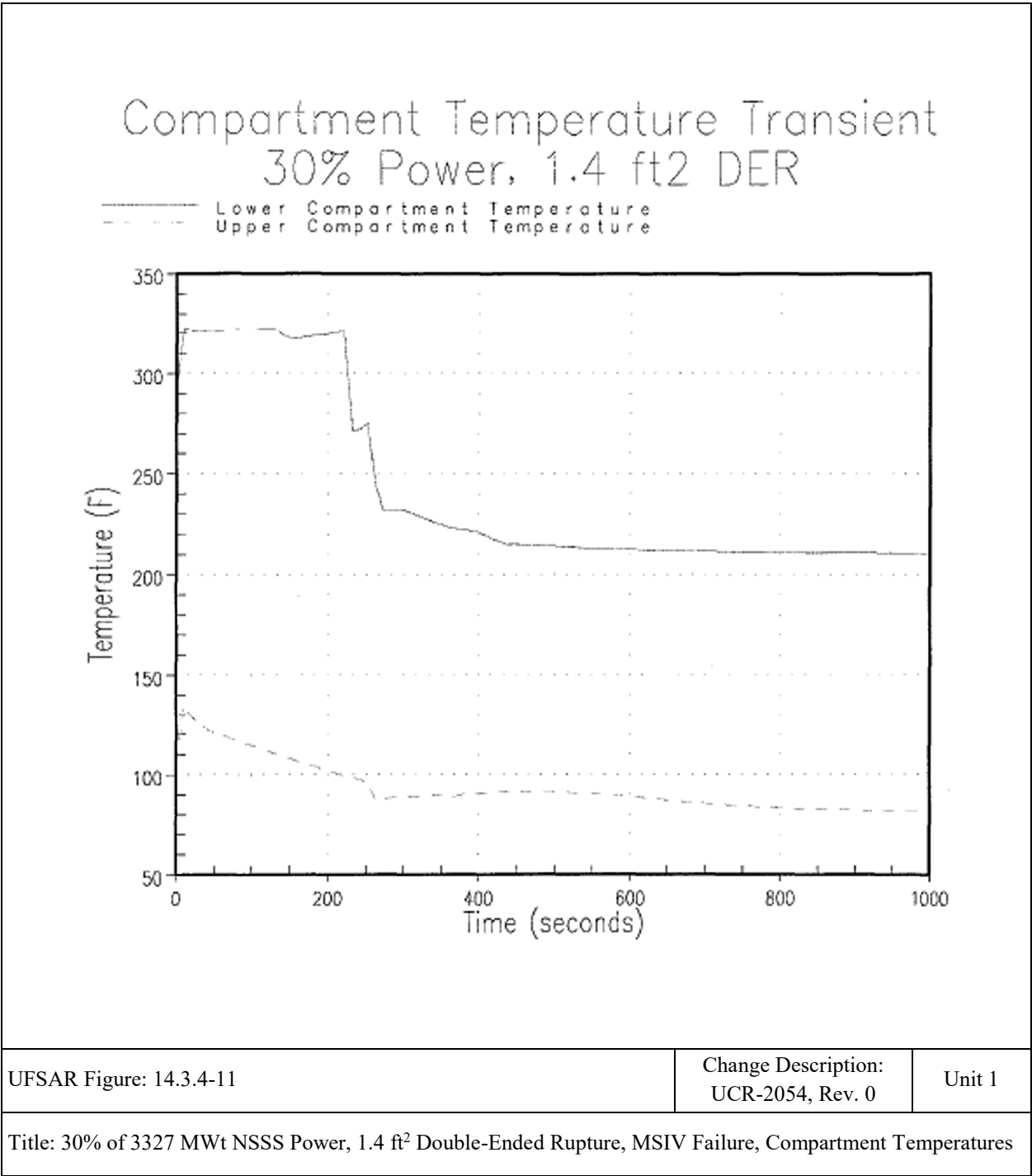


Note 1: Figure 14.3.4-10 is a representative plot of the D. C. Cook LOCA ice melt transient. The actual plot will vary slightly.


UFSAR Figure: 14.3.4-10	Change Description: UCR-2087, Rev. 0 UCR-2138, Rev. 0	Unit: 1
Title: LOCA Containment Integrity Ice Melt Transient		

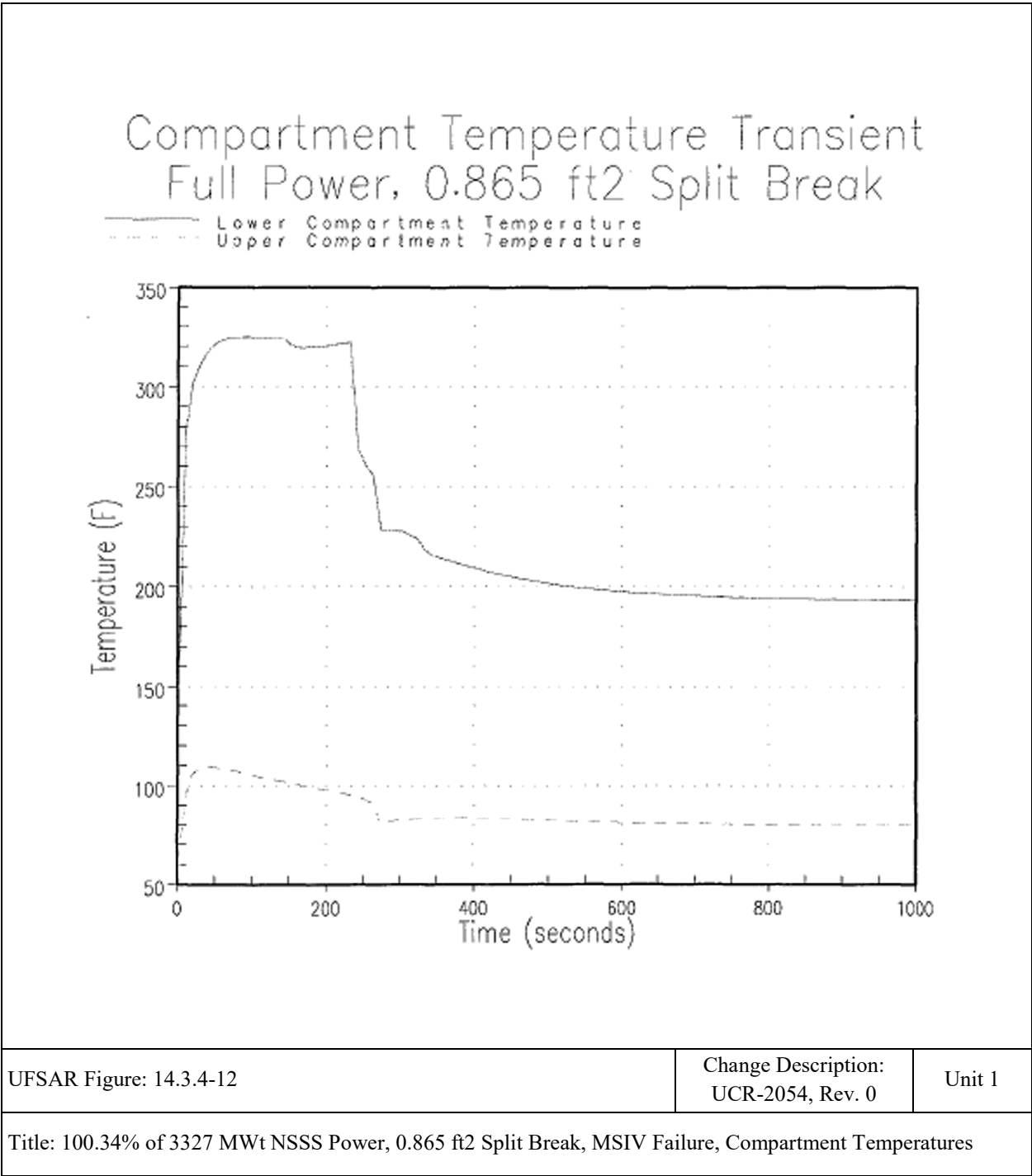
UFSAR Revision 30.0

 An AEP Company	<p>INDIANA MICHIGAN POWER</p> <p>D. C. COOK NUCLEAR PLANT</p> <p>UPDATED FINAL SAFETY ANALYSIS REPORT</p>	<p>Revised: 27.0</p> <p>Chapter: 14</p> <p>Sheet: 1 of 1</p>
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UFSAR Revision 30.0

 <p><b>INDIANA MICHIGAN POWER</b> <small>An AEP Company</small></p>	<p><b>INDIANA MICHIGAN POWER</b> <b>D. C. COOK NUCLEAR PLANT</b> <b>UPDATED FINAL SAFETY ANALYSIS REPORT</b></p>	<p>Revised: 27.0 Chapter: 14 Sheet: 1 of 1</p>
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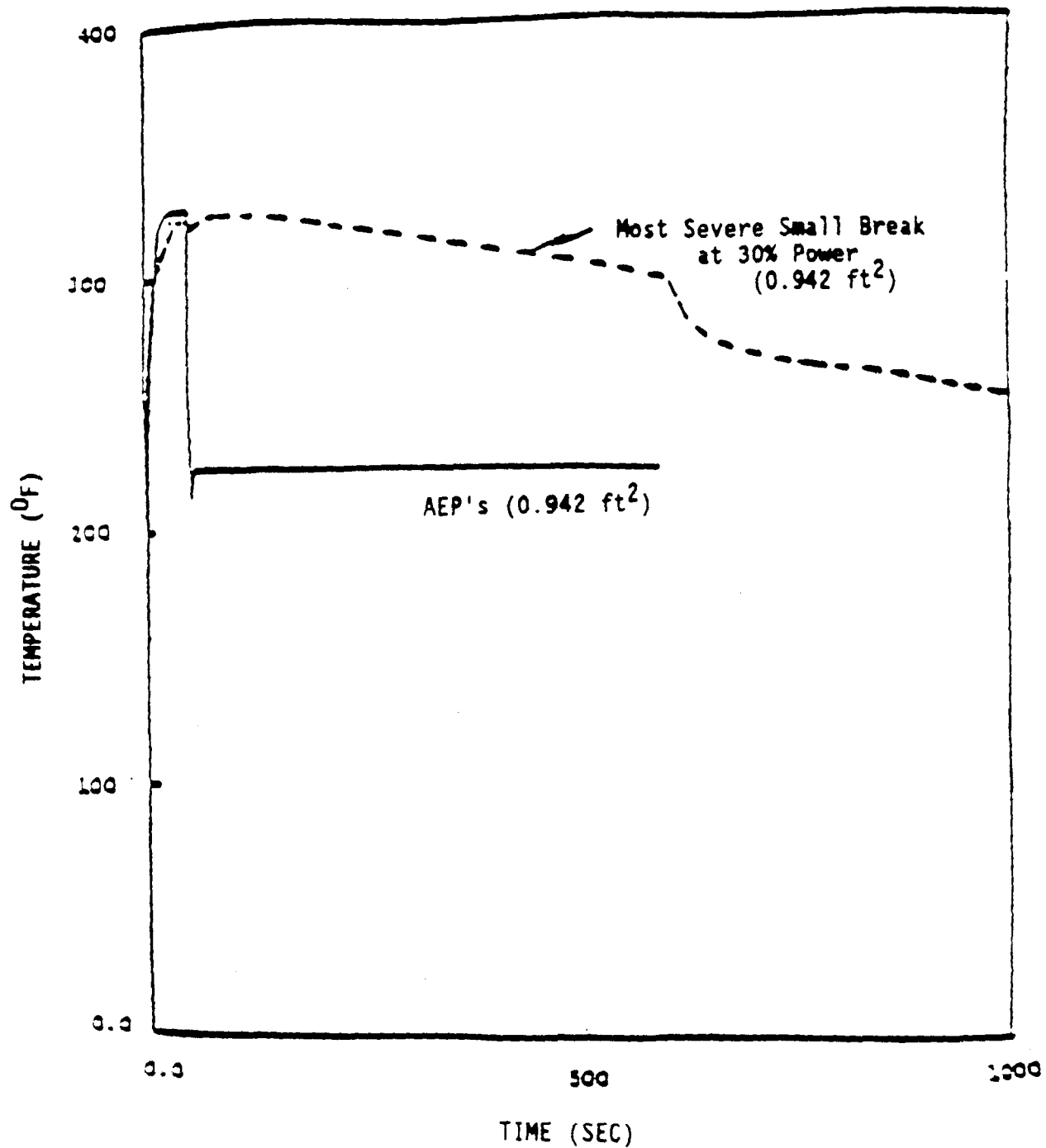


Figure 14.3.4-13 Worst Break-Lower Compartment Temperature Comparison

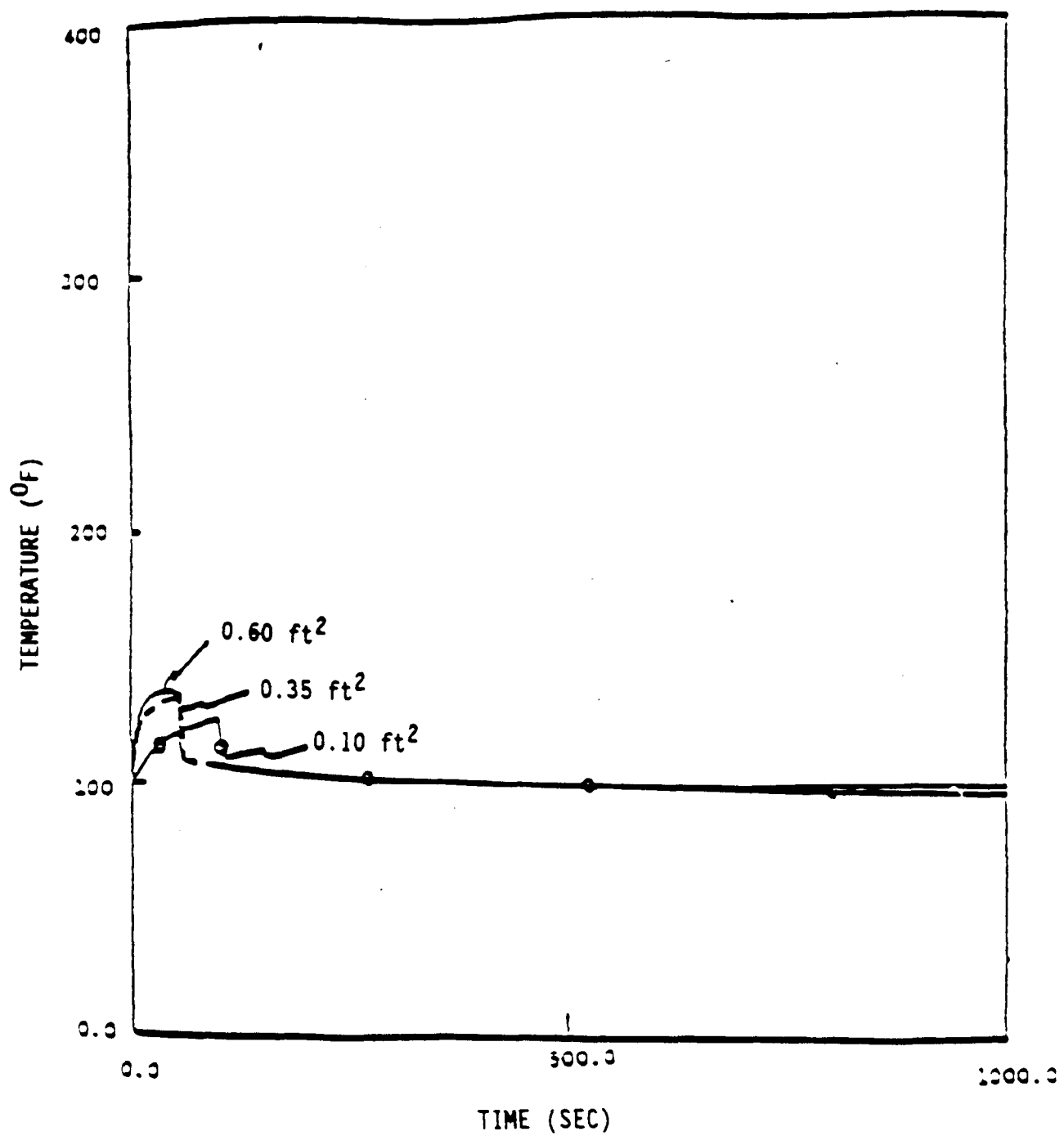


Figure 14.3.4-14 Upper Compartment Temperature (30% Power Level)

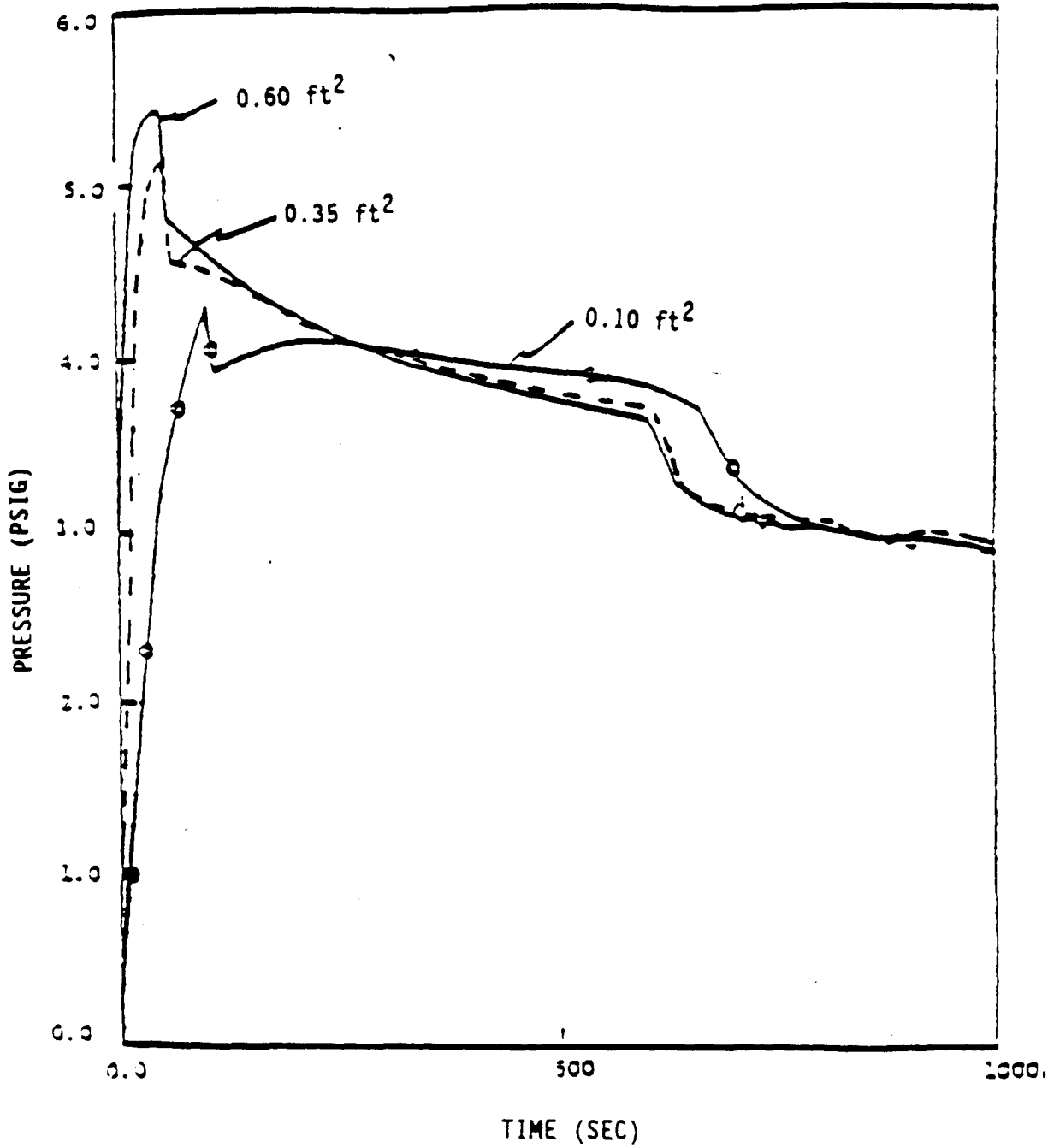


Figure 14.3.4-15 Lower Compartment Pressure (30% Power Level)

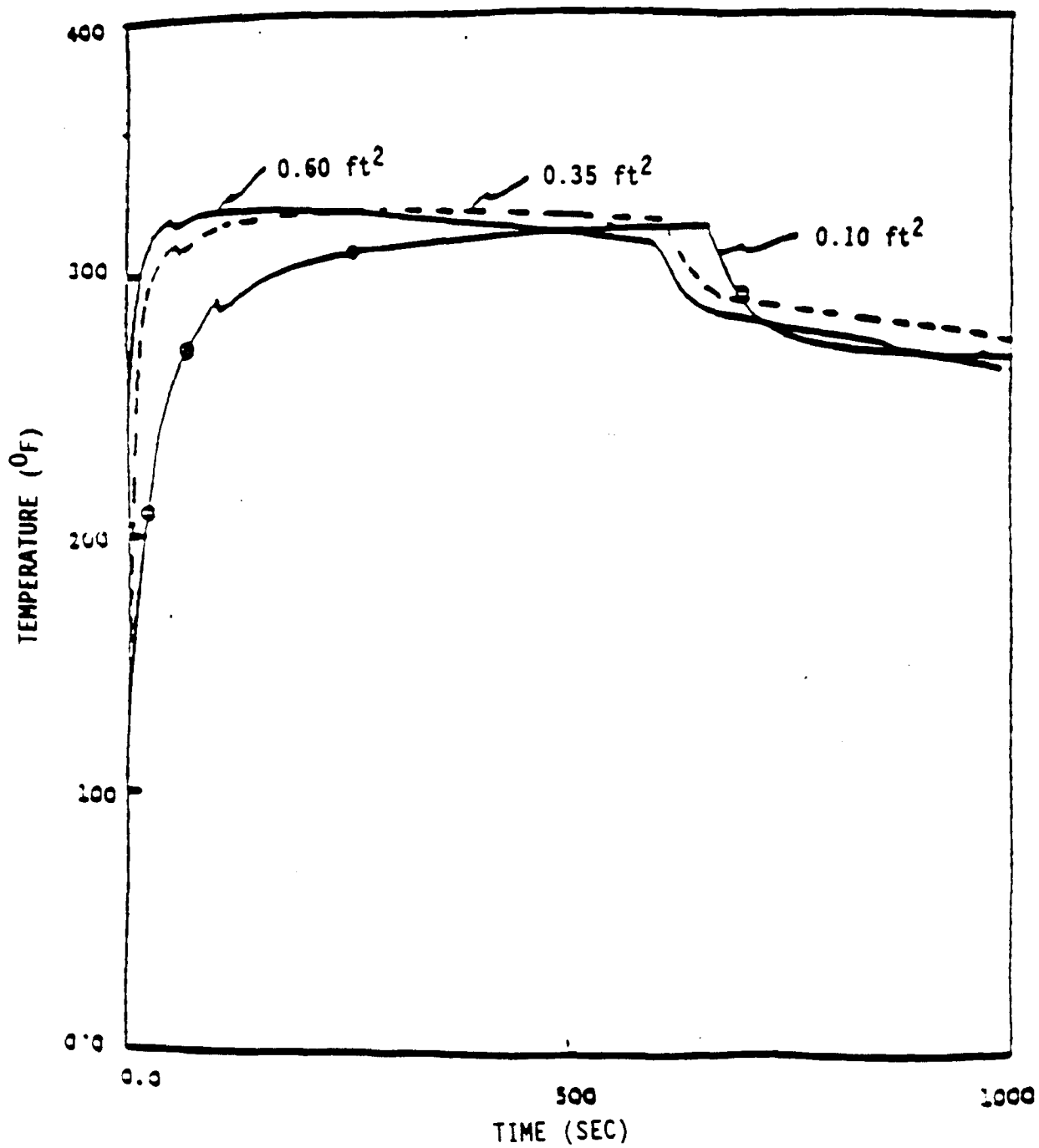


Figure 14.3.4-16 Lower Compartment Temperature (30% Power Level)



0 0 4 0 1 0 3 0 9 0 5

**BEST  
AVAILABLE  
COPY**

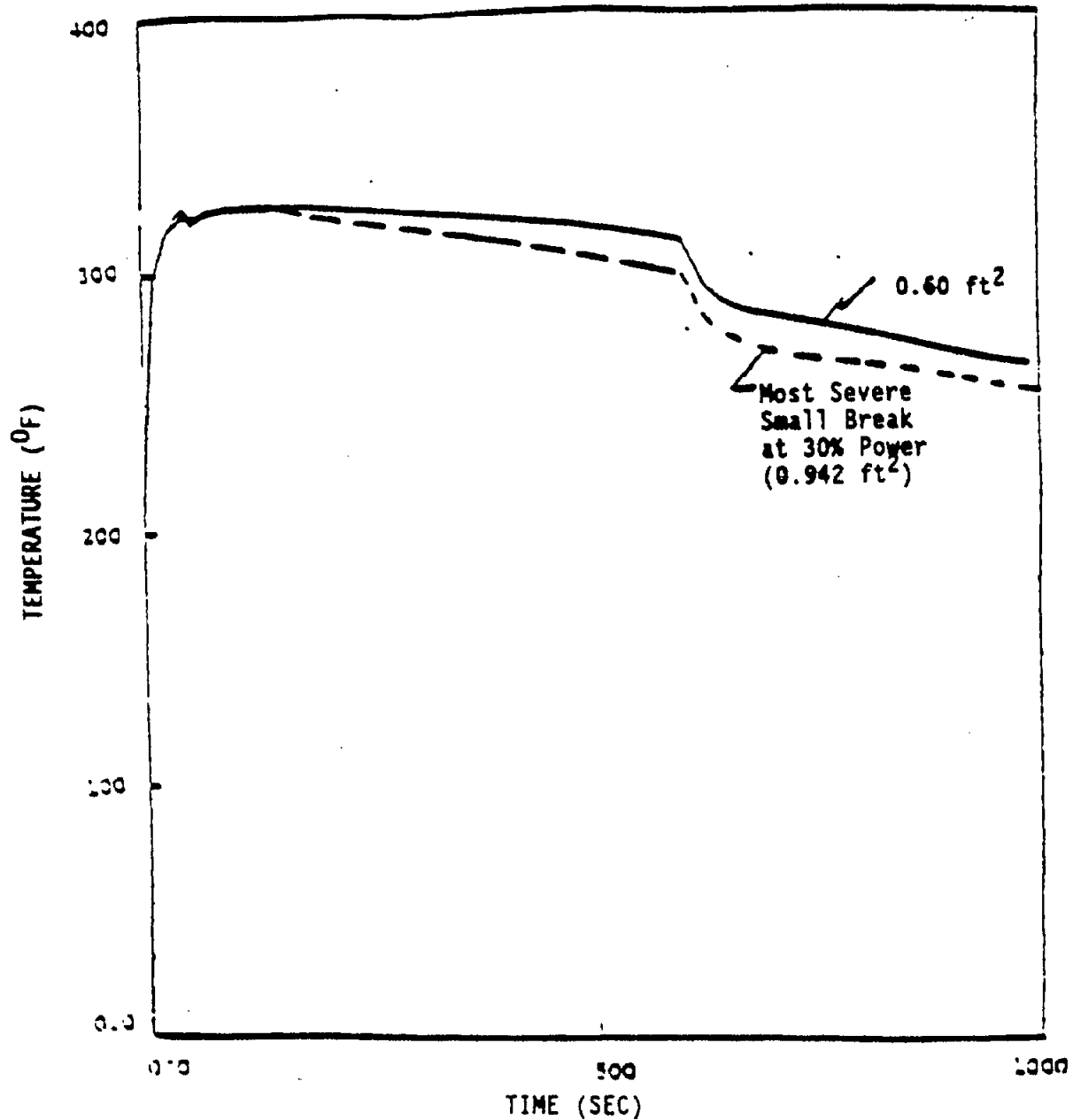
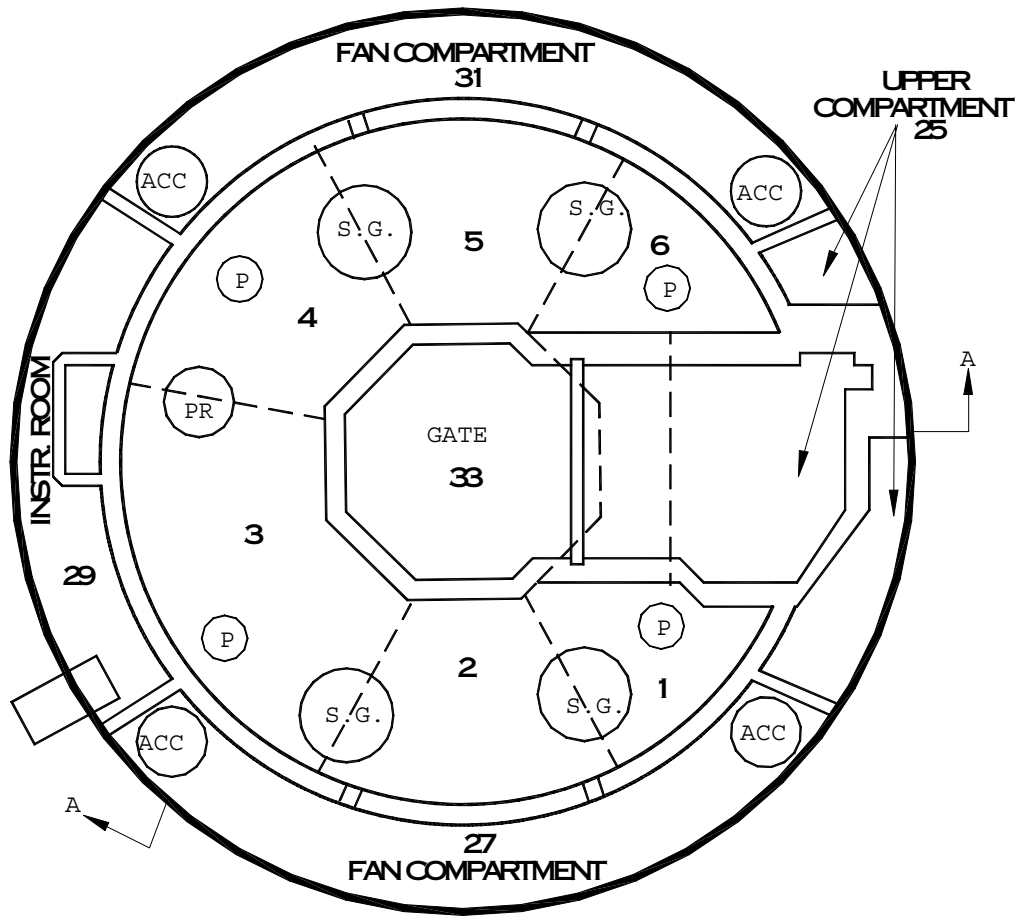
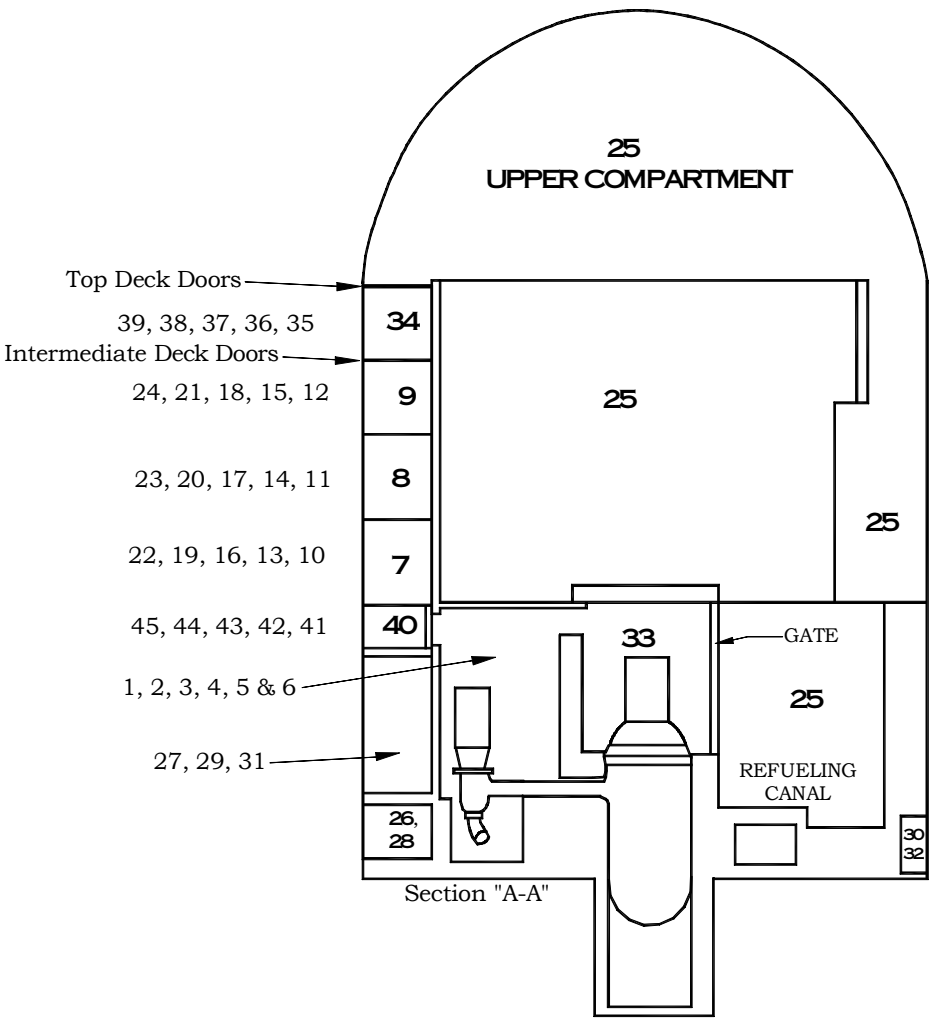


Figure 14.3.4-17 Worst Break-Lower Compartment Temperature Comparison Generic Analysis



Revision: 17.1		Change Description: UCR-850	
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN		Title: Cook Unit 1 & 2 TMD Model Plan At Equipment Rooms Elevation	
		UFSAR Figure: 14.3.4-18	Sheet 1 of 1

UFSAR Revision 30.0



Revision: **17.1**

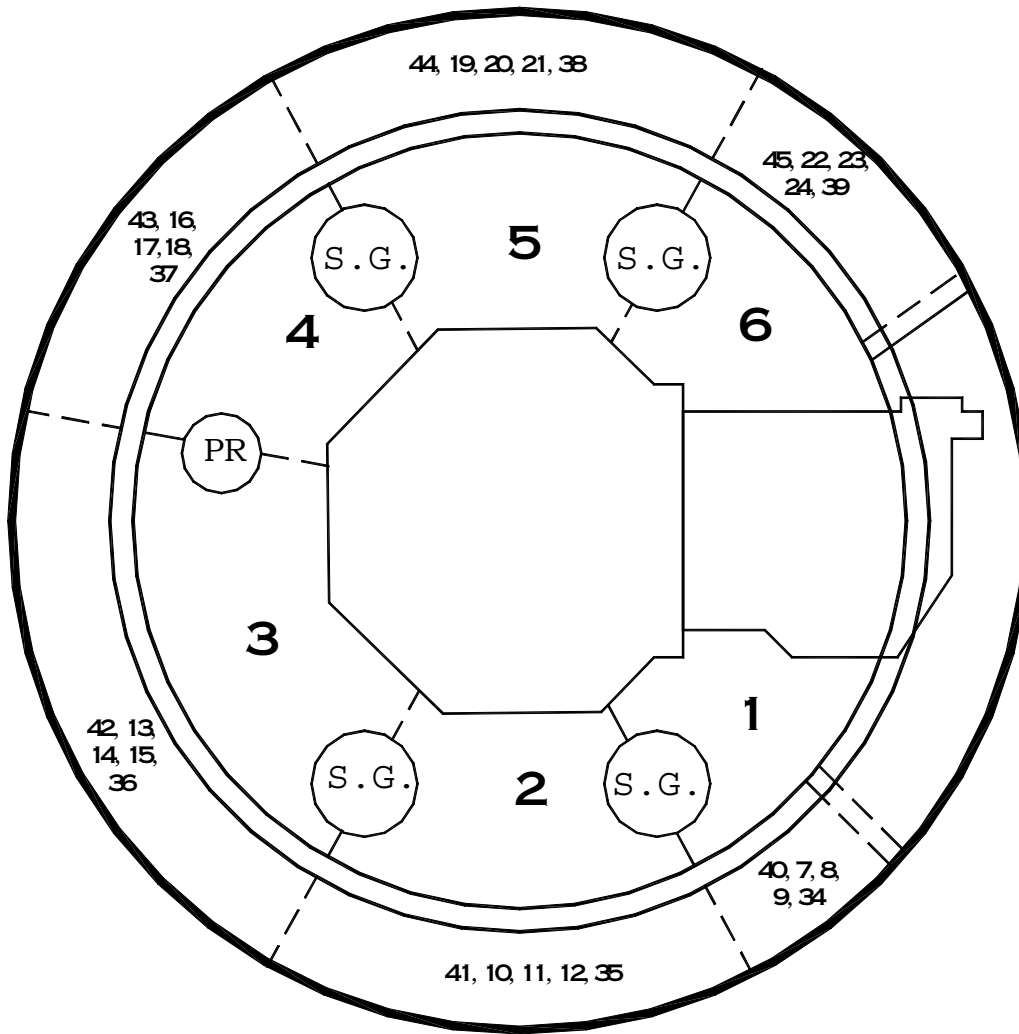
Change Description: **UCR-850**

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

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

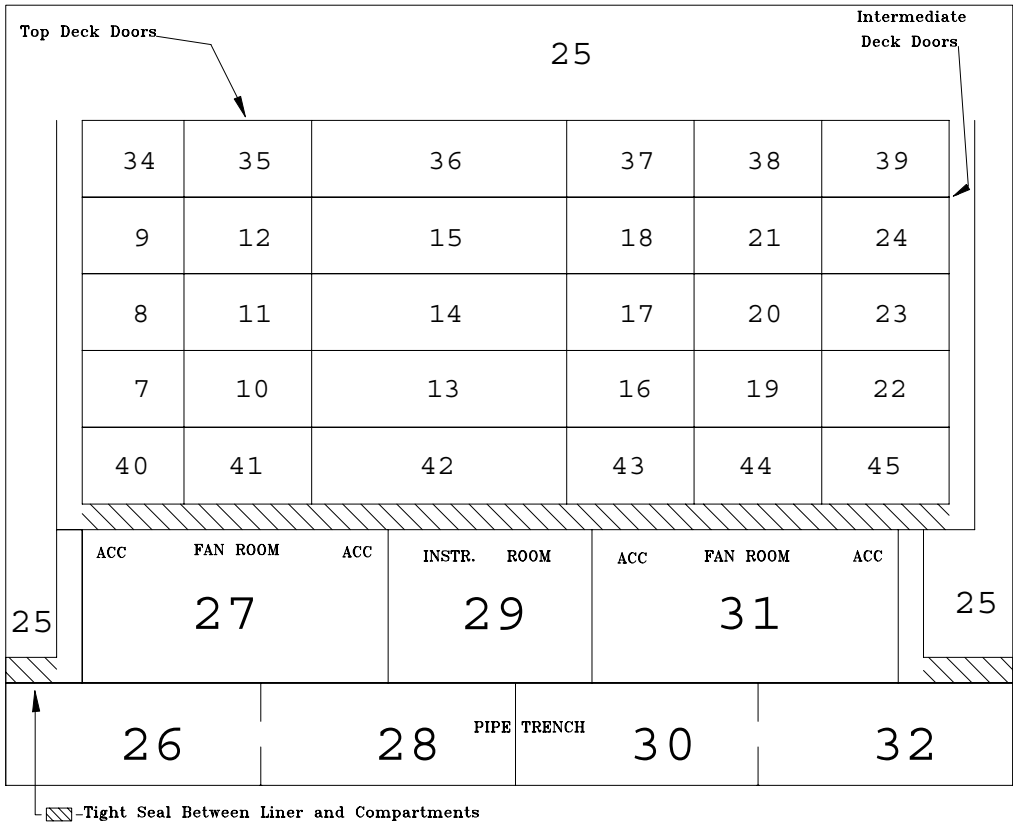
UFSAR Figure: **14.3.4-19**

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>Cook Unit 1 &amp; 2 Plan View at Ice Condenser Elevation Ice Condenser Compartments</b>	
		UFSAR Figure: <b>14.3.4-20</b>	Sheet 1 of 1

UFSAR Revision 30.0



Revision: 17.1

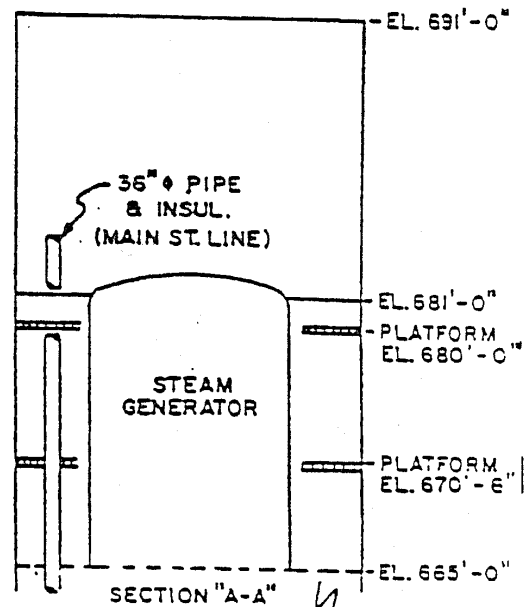
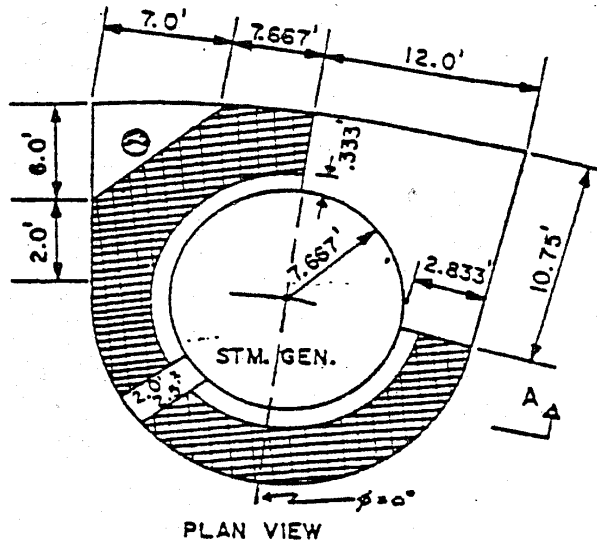
Change Description: UCR-850

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

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

UFSAR Figure: 14.3.4-21

Sheet 1 of 1



See Figure  
022.3-1d-2  
for continuation

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.

Revision: 17.1

Change Description: UCR-850

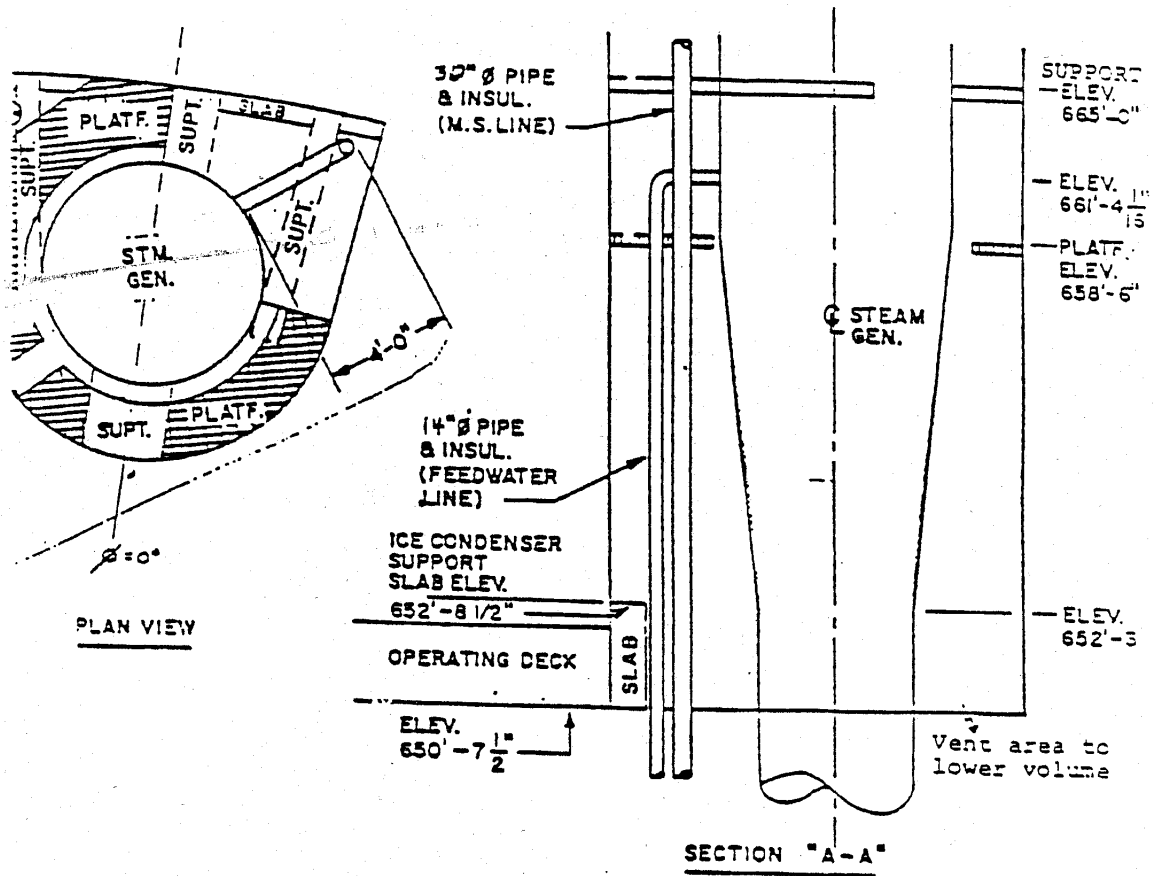
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COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN

Title: Steam Generator Enclosure Above Elevation 665 ft.

UFSAR Figure: 14.3.4-22

Sheet 1 of 1

# UFSAR Revision 30.0



Revision: **17.1**

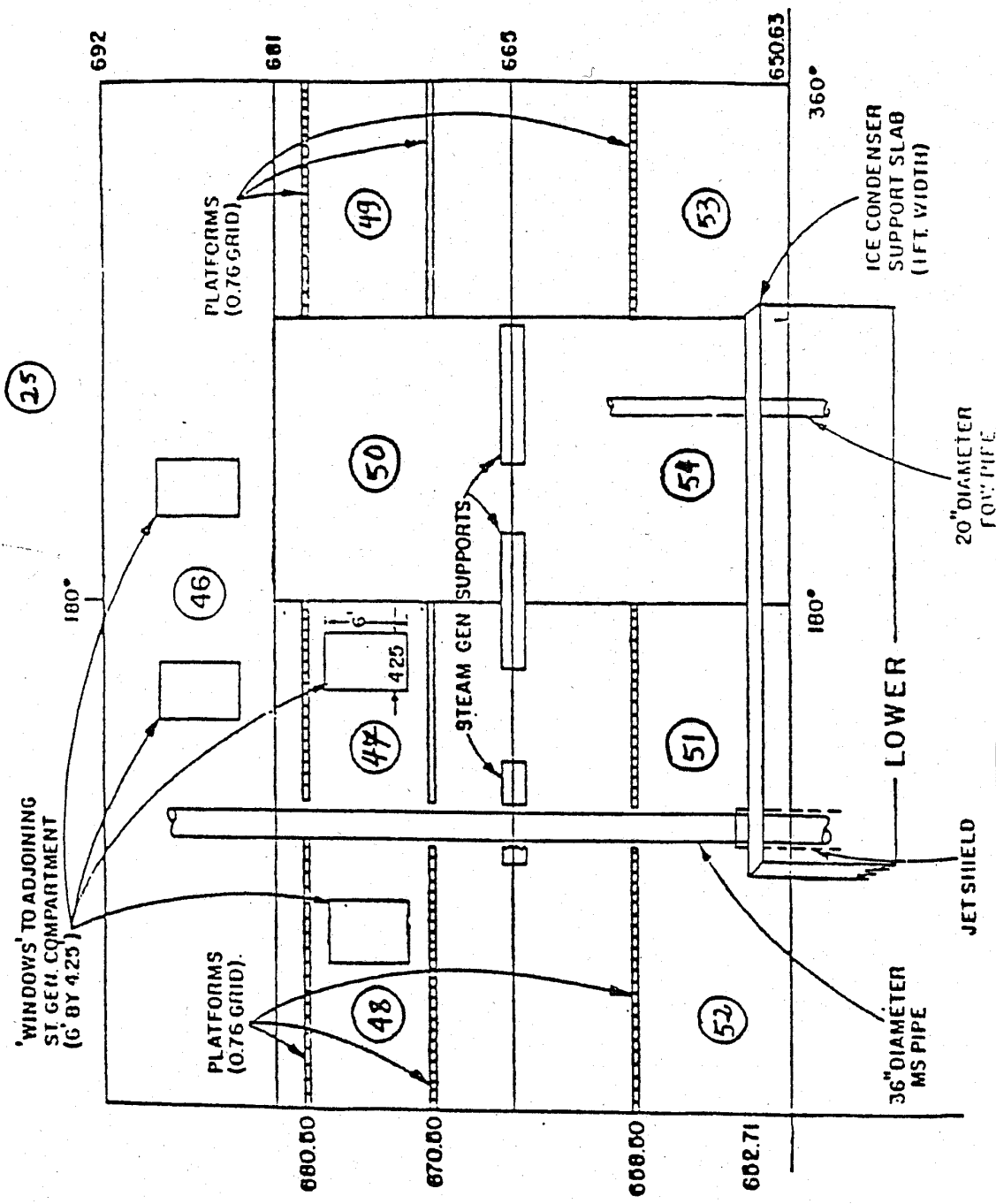
Change Description: **UCR-850**

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

Title: **Steam Generator Enclosure Below Elevation 665 ft.**

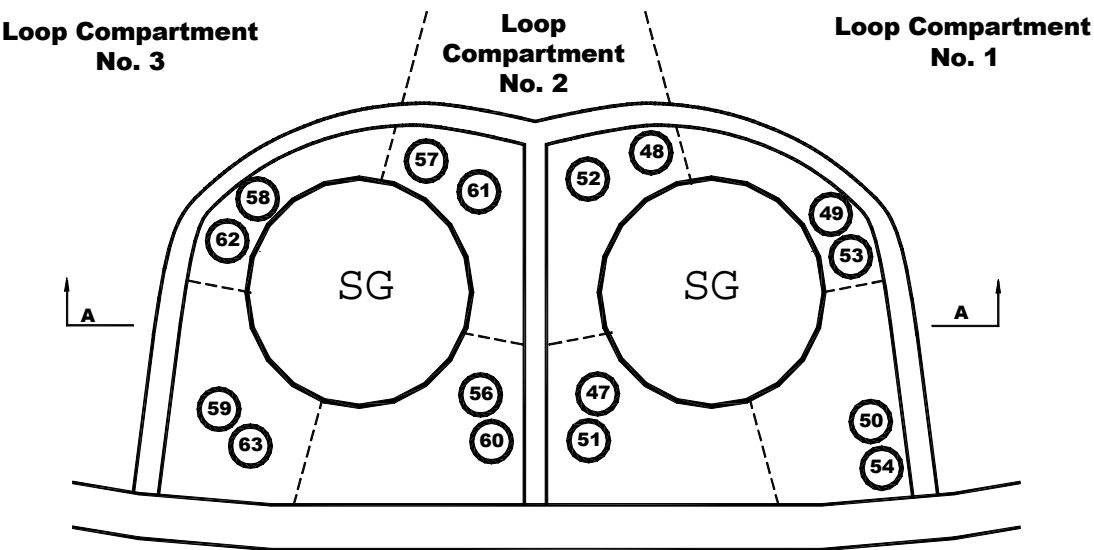
UFSAR Figure: **14.3.4-23**

Sheet 1 of 1

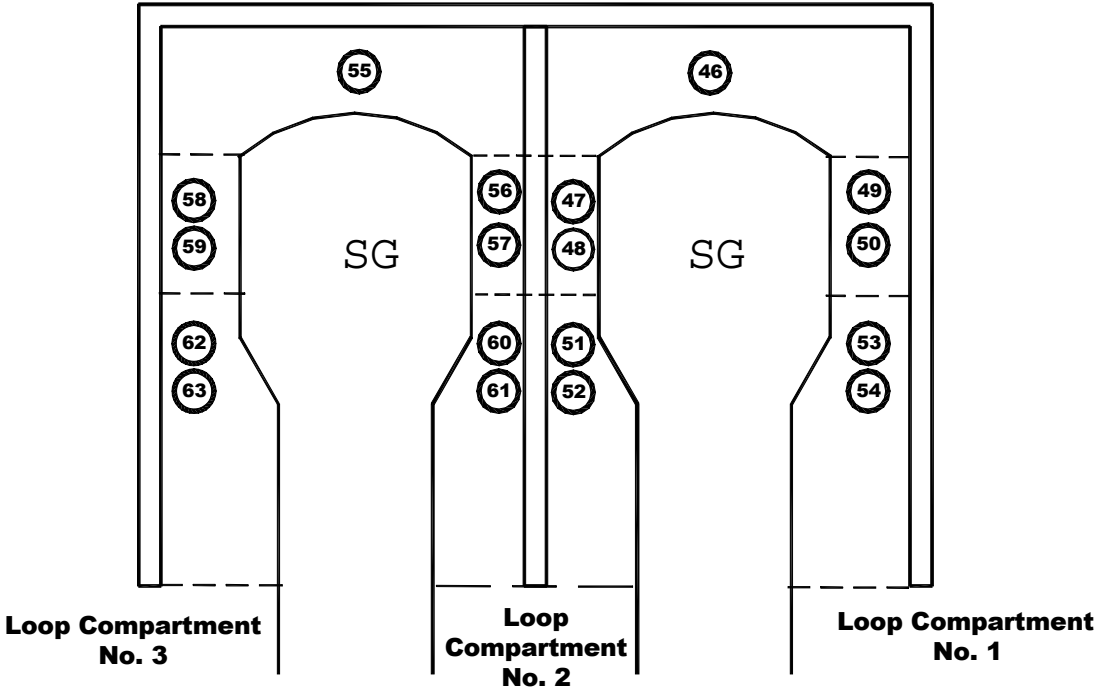


Revision: 17.1		Change Description: UCR-850	
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		UFSAR Figure: 14.3.4-24	Sheet 1 of 2





Elevation A - A



Revision: 17.1

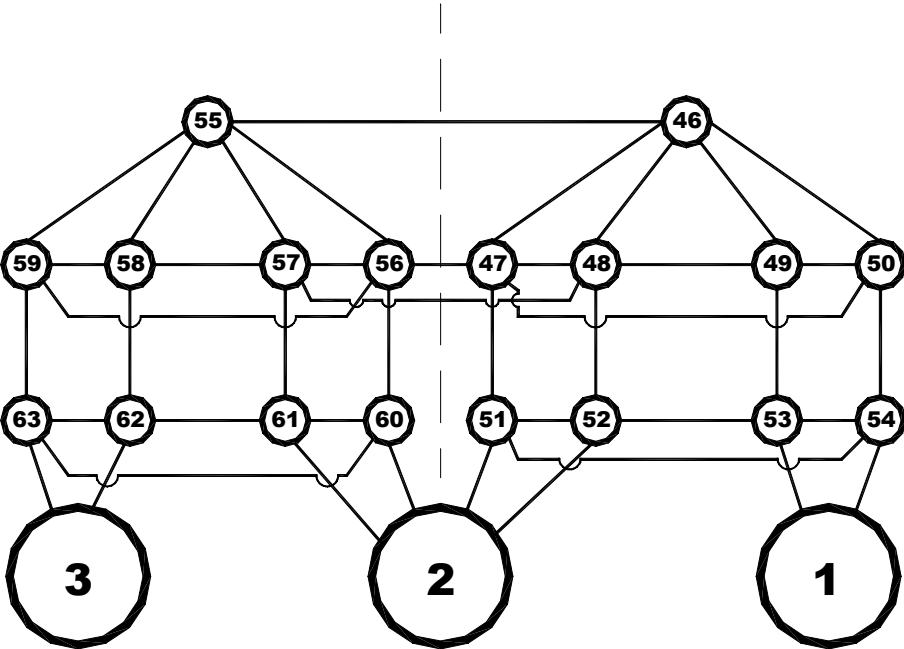
Change Description: UCR-850

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

Title: Schematic of the Cook Unit 1 & 2  
9 Node TMD Steam Generator Enclosure Model

UFSAR Figure: 14.3.4-24

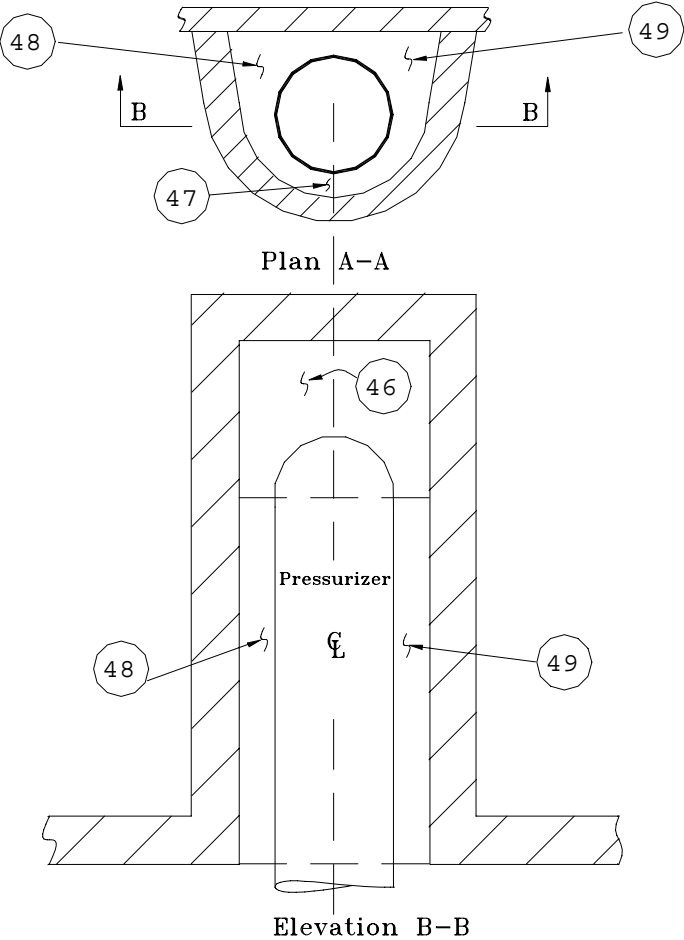
Sheet 2 of 2



**1 - 3      Loop Compartments**  
**46 - 54    Steam Generator Enclosure A**  
**55 - 63    Steam Generator Enclosure B**

Revision: 17.1	Change Description: UCR-850		
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN	Title: Schematic of the Cook Unit 1 & 2 9 Node TMD Steam Generator Enclosure Model		
	UFSAR Figure: 14.3.4-25		Sheet 1 of 1

UFSAR Revision 30.0



Revision: 17.1

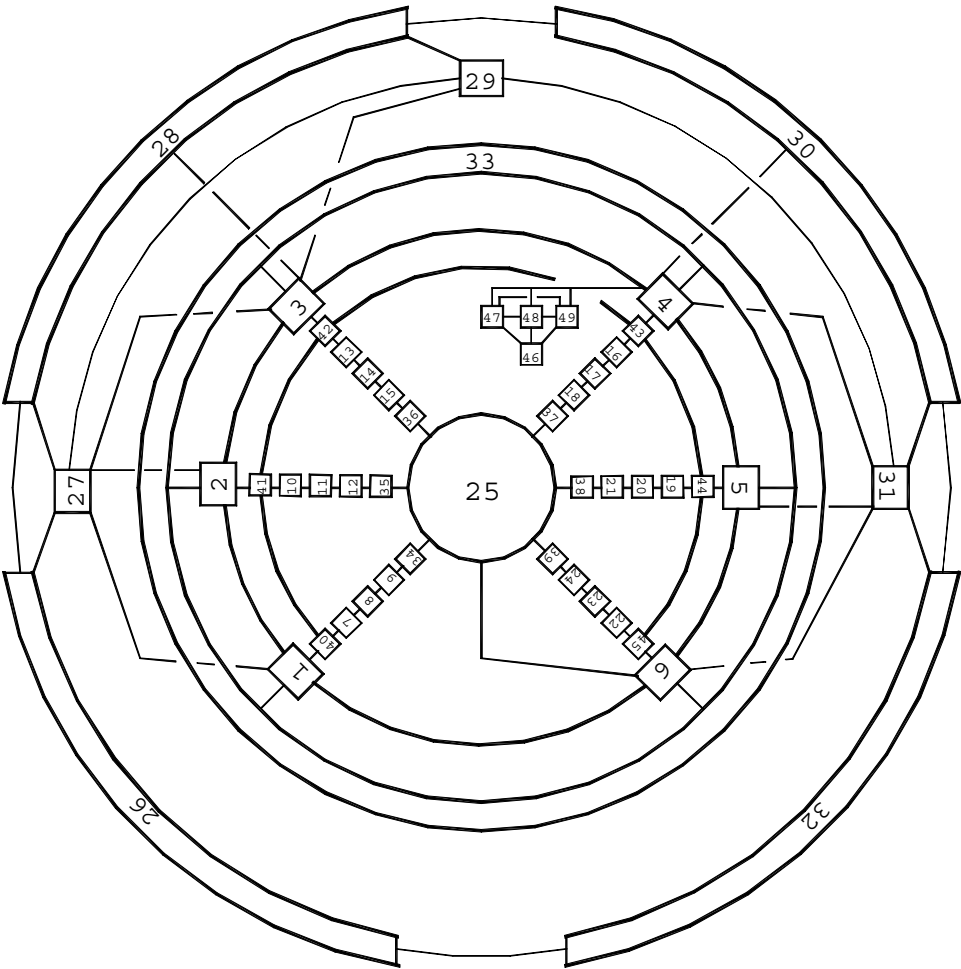
Change Description: UCR-850

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

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

UFSAR Figure: 14.3.4-26

Sheet 1 of 1



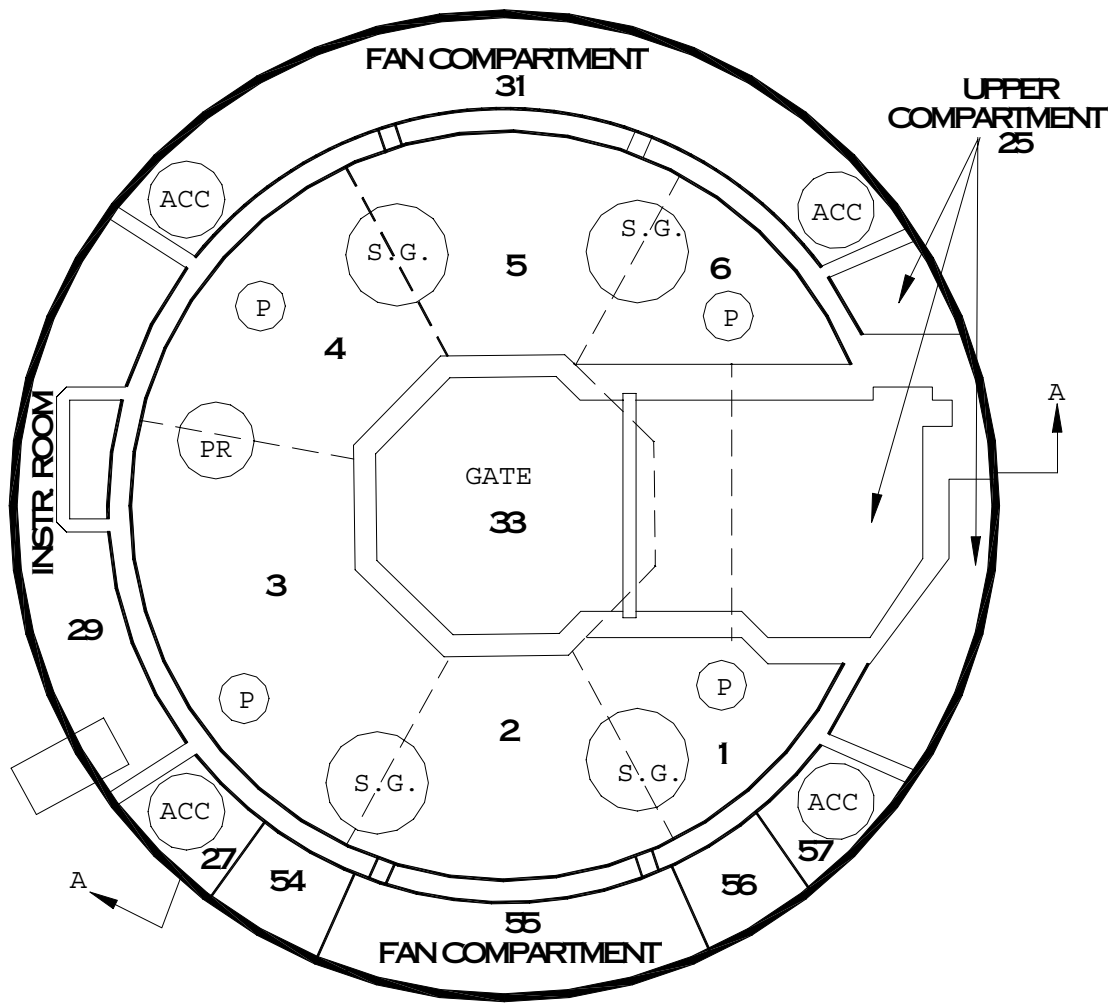
Revision: **17.1**      Change Description: **UCR-850**

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

Title: **Cook Unit 1 & 2  
TMD Model with Pressurizer Enclosure  
Nodalization Network**

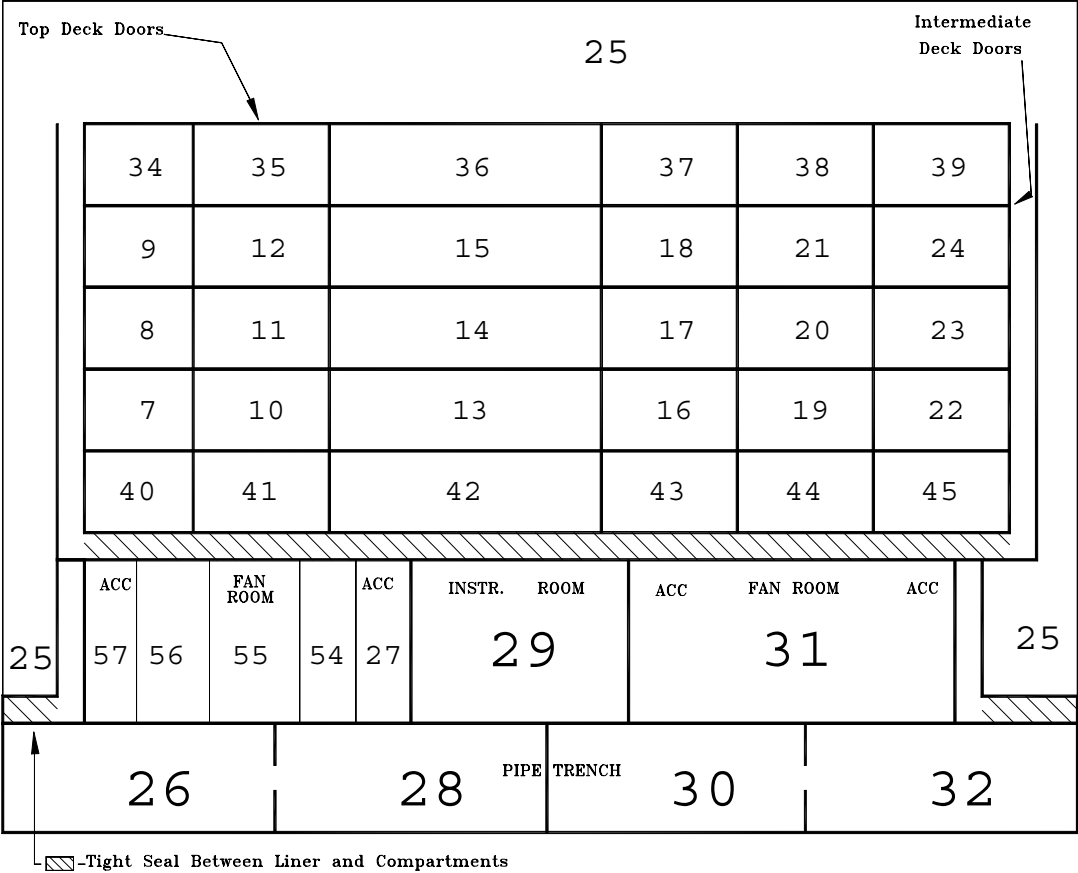
UFSAR Figure: **14.3.4-27**

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 Fan / Accumulator Room TMD Model Plan at Equipment Rooms Elevation	
		UFSAR Figure: 14.3.4-28	Sheet 1 of 1

UFSAR Revision 30.0



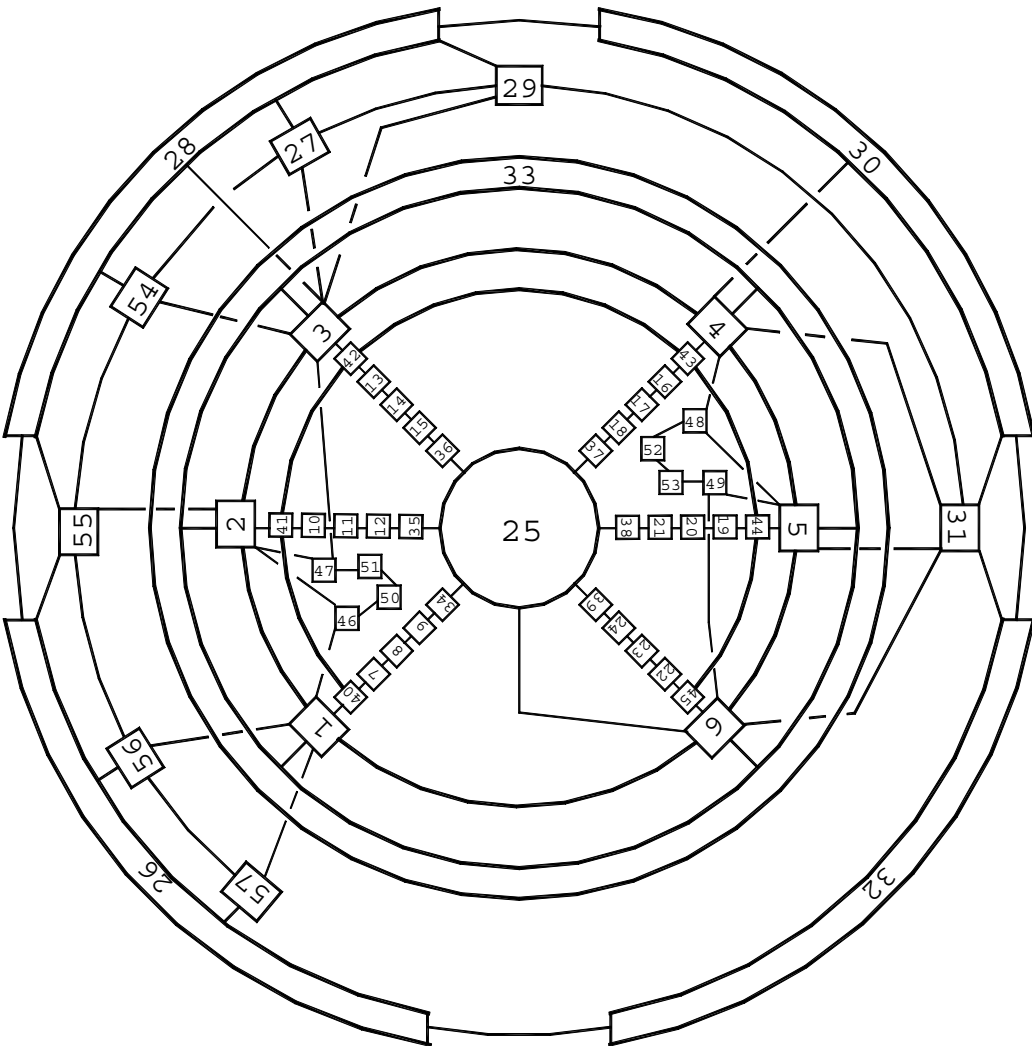
Revision: **17.1** Change Description: **UCR-850**

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

Title: **Cook Unit 1 & 2  
Fan / Accumulator Room TMD Model  
Layout of Containment Shell**

UFSAR Figure: **14.3.4-29**

Sheet 1 of 1



Revision: **17.1**

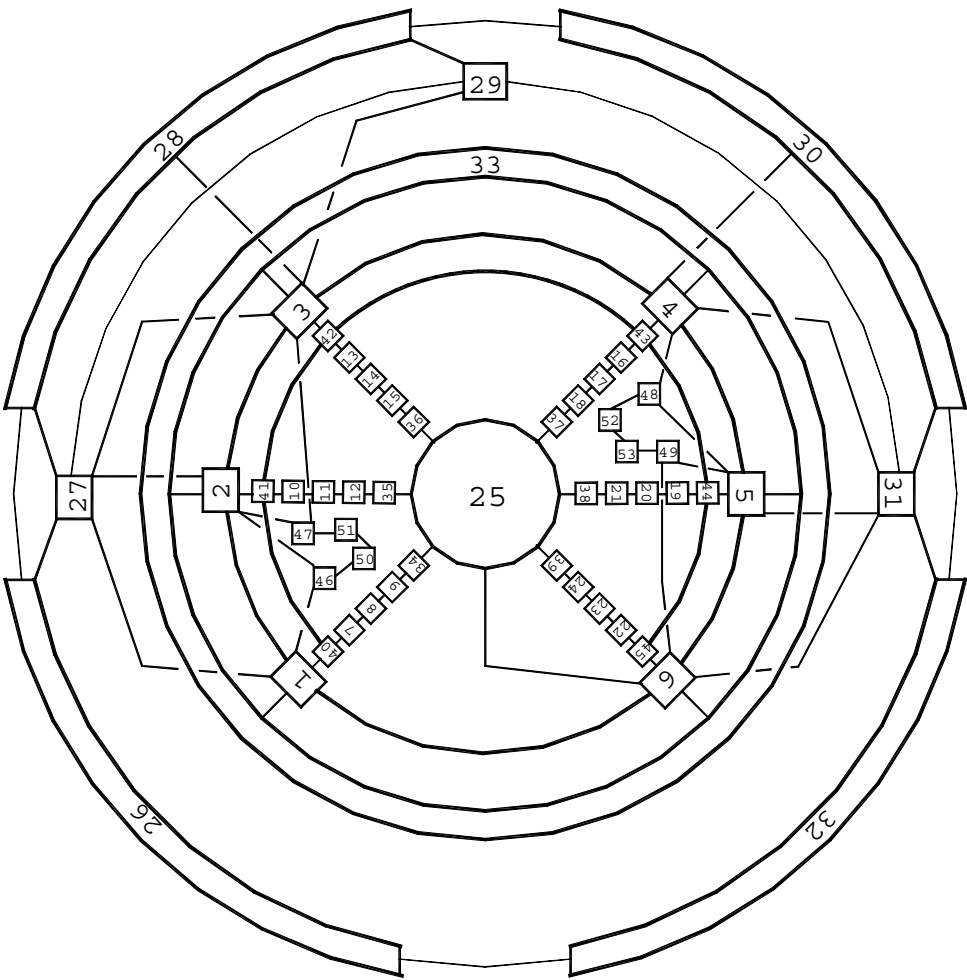
Change Description: **UCR-850**

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

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

UFSAR Figure: **14.3.4-30**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

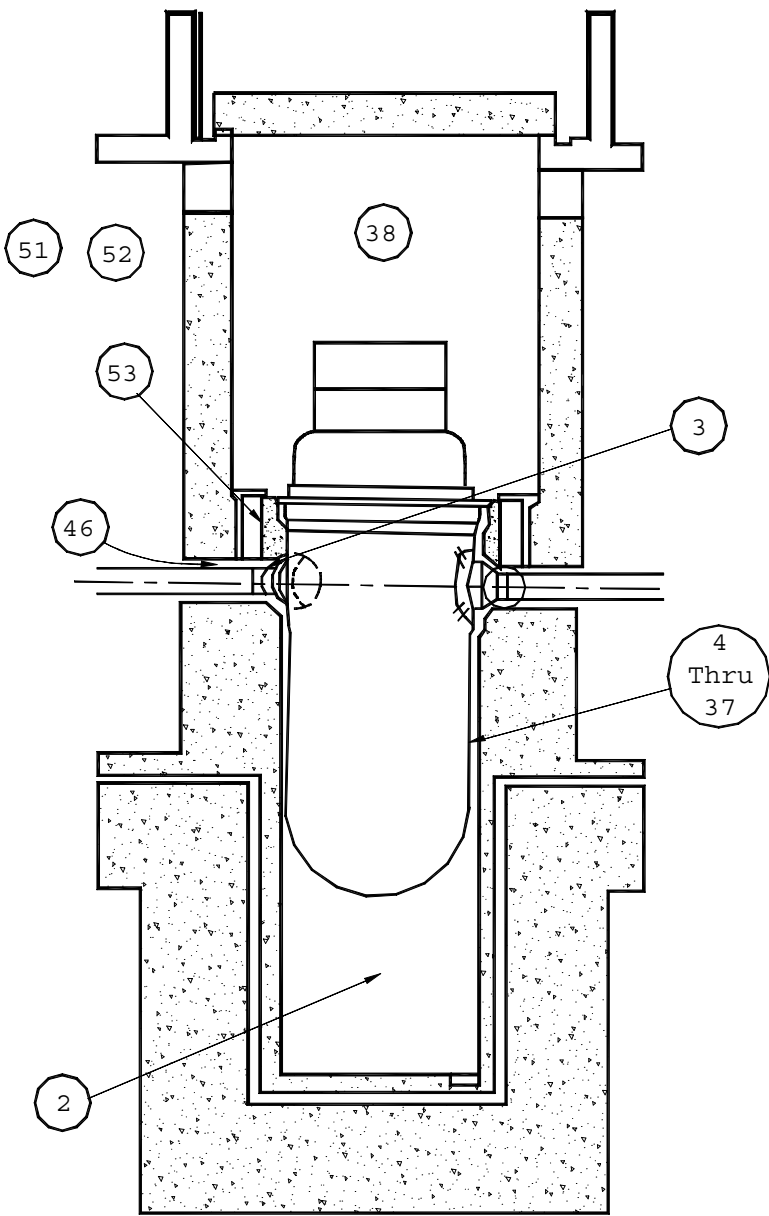
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

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

UFSAR Figure: **14.3.4-31**

Sheet 1 of 1





Revision: **17.1**

Change Description: **UCR-850**

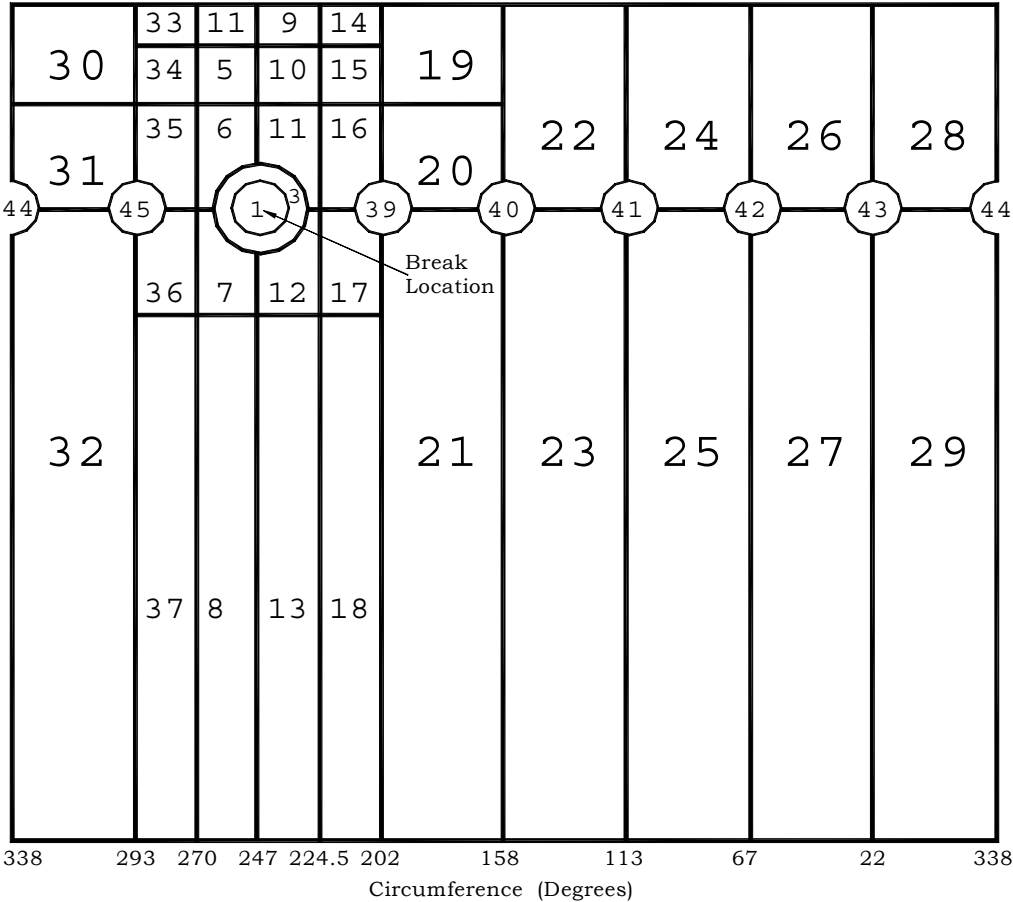
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COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

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

UFSAR Figure: **14.3.4-32**

Sheet 1 of 1

UFSAR Revision 30.0



Revision: **17.1**

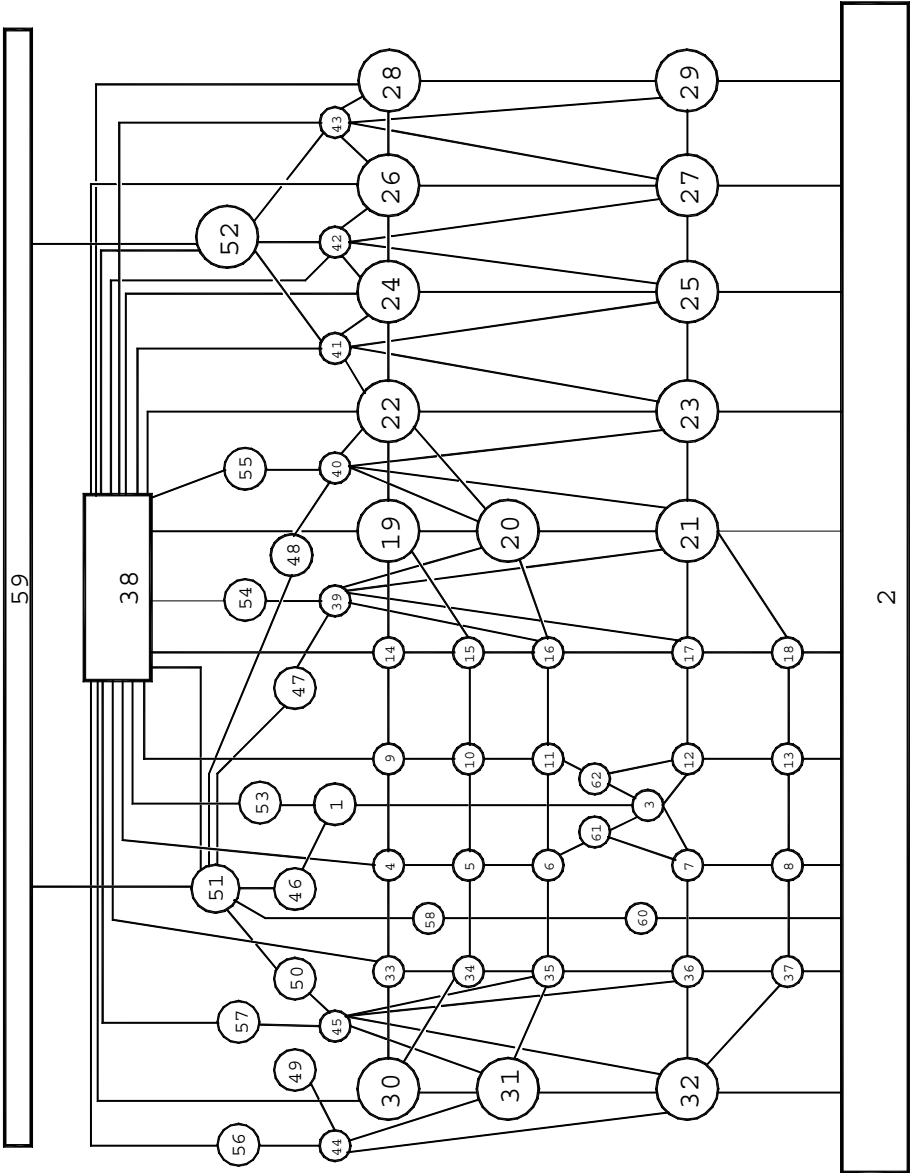
Change Description: **UCR-850**

**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**

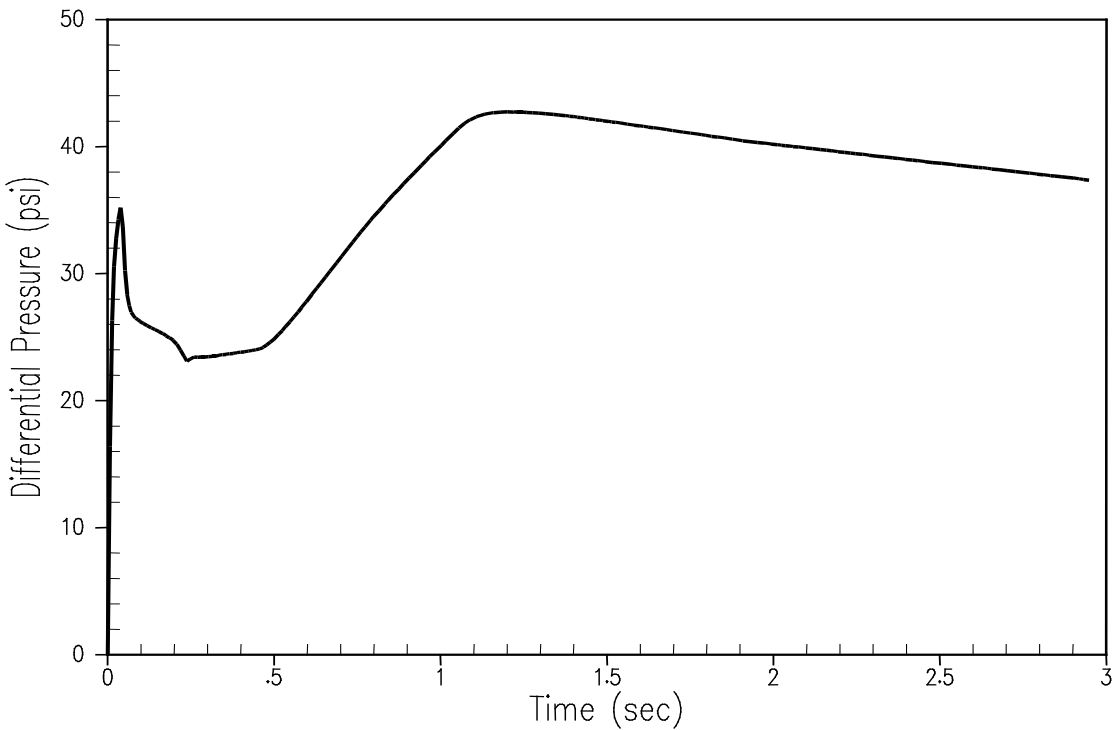
Change Description: **UCR-850**

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

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

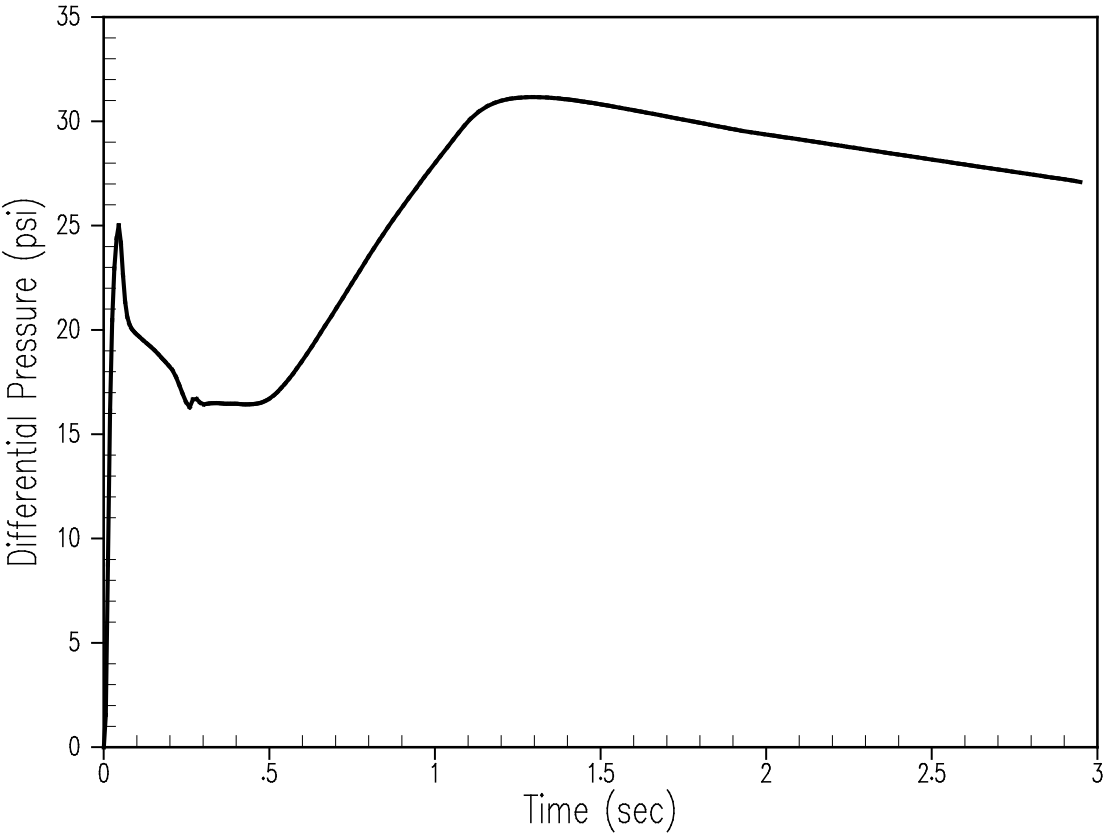
UFSAR Figure: **14.3.4-34**

Sheet 1 of 1



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

Revision: <b>19.3</b>		Change Description: <b>UCR-1748</b>	
<b>AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN</b>		Title: <b>Cook Unit 1 &amp; 2 Differential Pressure Time History Steam Generator Enclosure Steam Line Break ( <math>\Delta P_{55-25}</math> )</b>	
		UFSAR Figure: <b>14.3.4-35</b>	Sheet 1 of 1



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

Revision: **19.3**

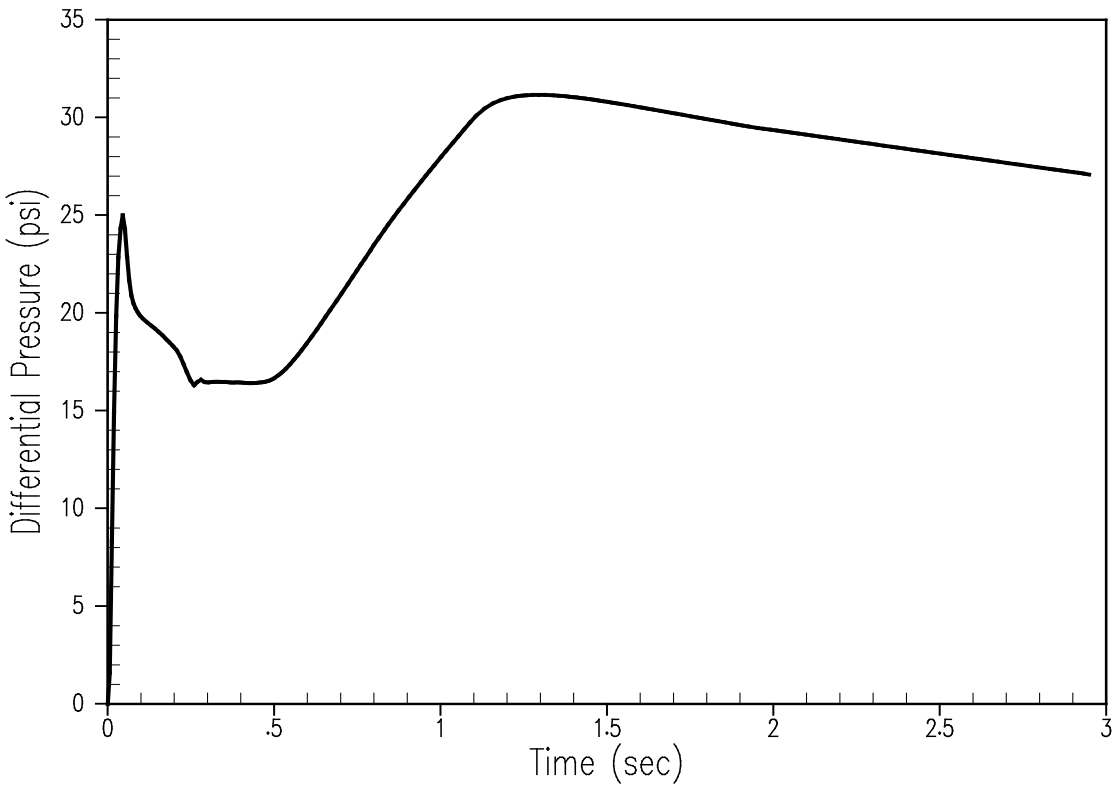
Change Description: **UCR-1748**

**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  
(  $\Delta P_{56-25}$  )**

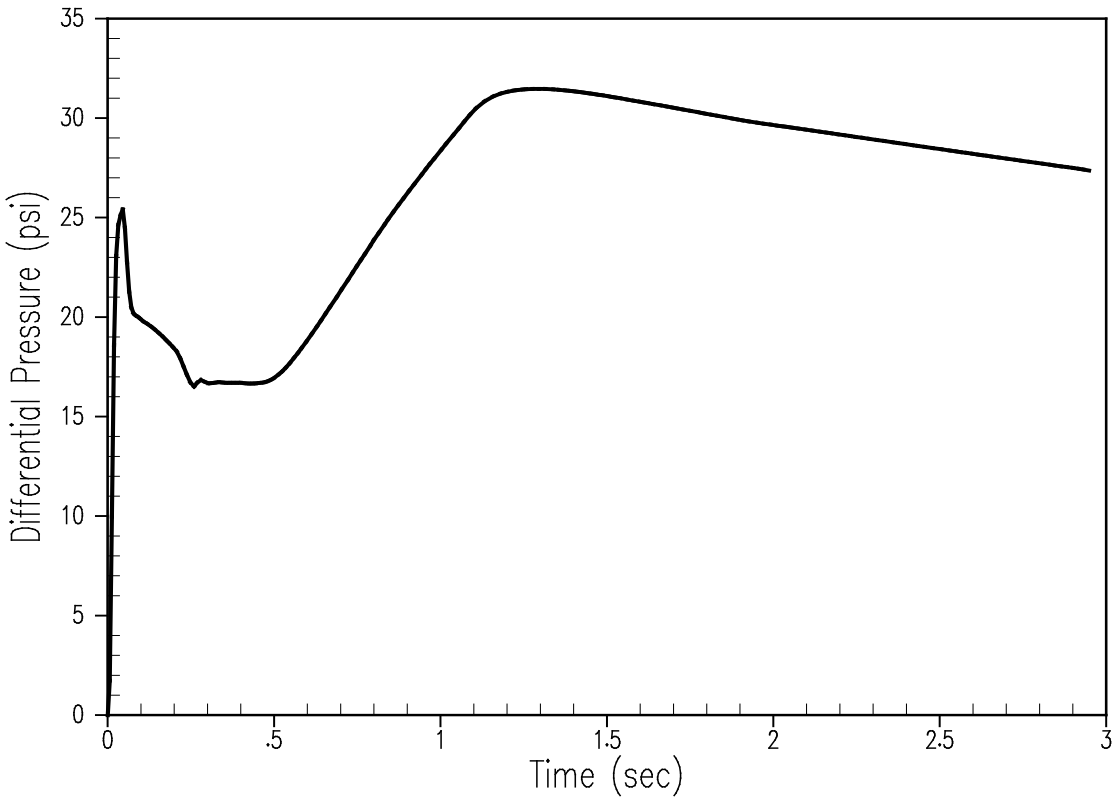
UFSAR Figure: **14.3.4-36**

Sheet 1 of 1



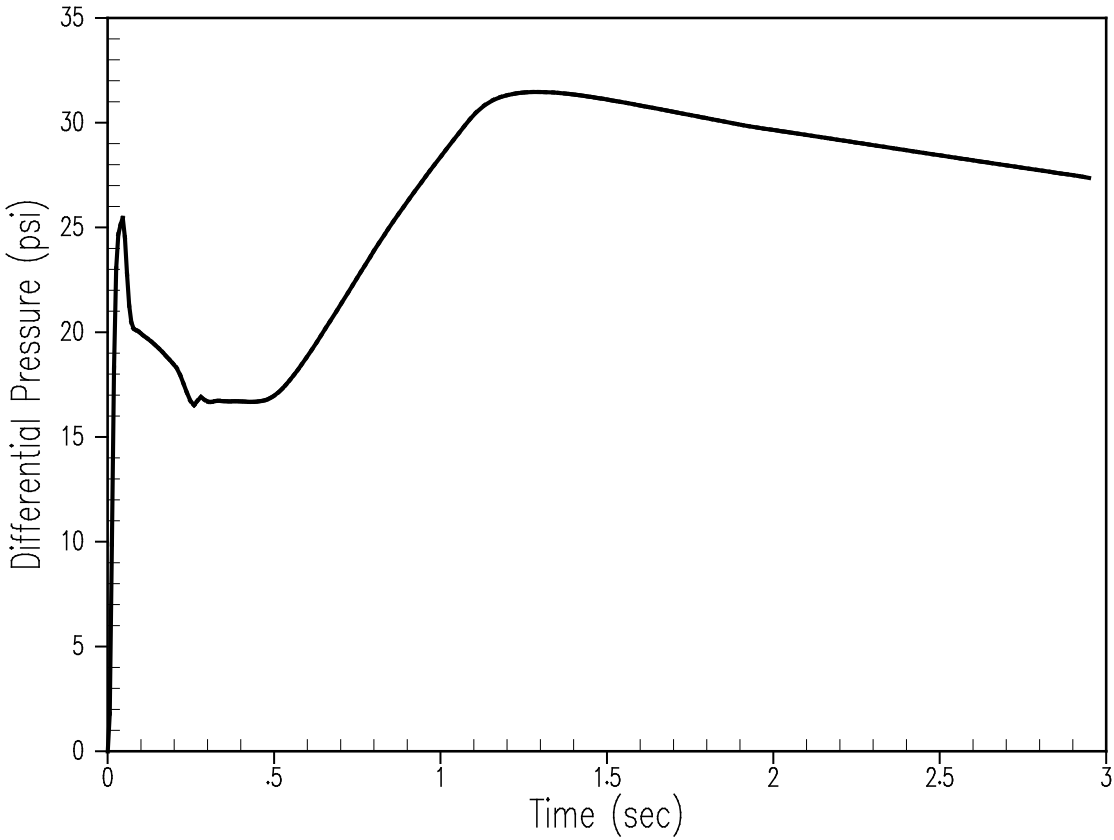
**This Figure is representative and should not be used as input in other analyses.**

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		UFSAR Figure: <b>14.3.4-37</b>	Sheet 1 of 1



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

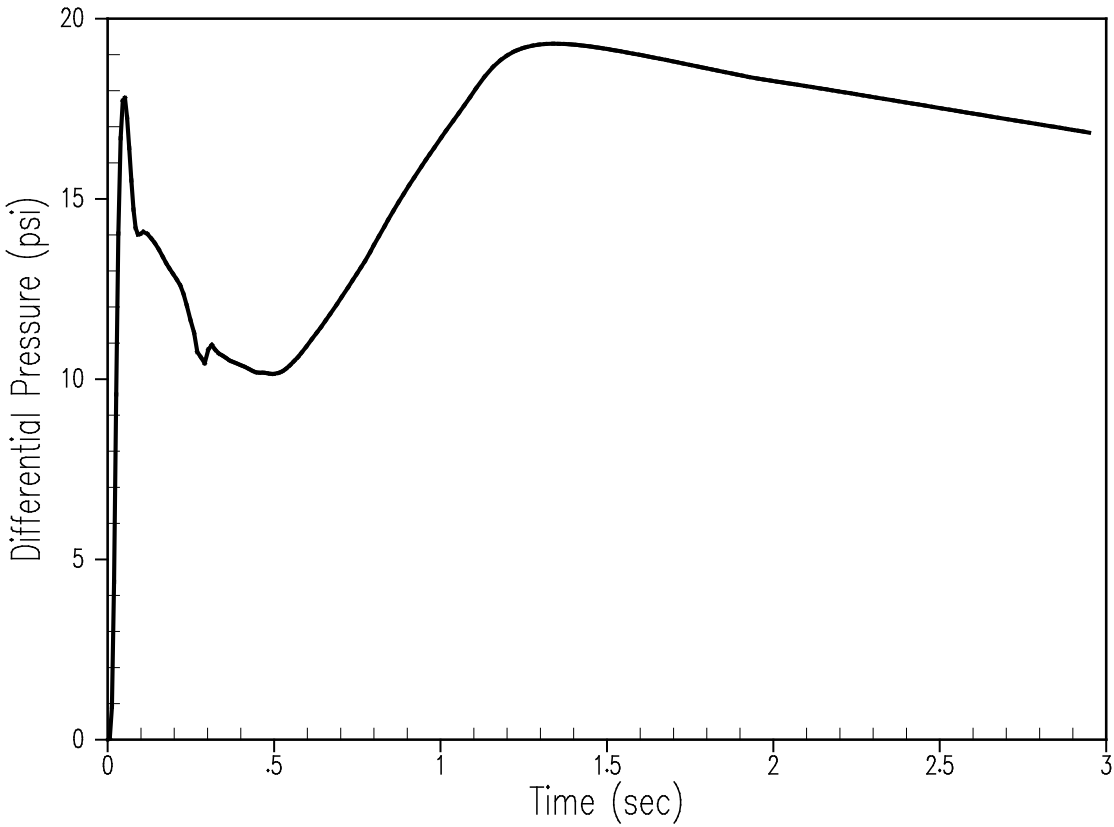
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<b>AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN</b>		Title: <b>Cook Unit 1 &amp; 2 Differential Pressure Time History Steam Generator Enclosure Steam Line Break ( <math>\Delta P_{58-25}</math> )</b>	
		UFSAR Figure: <b>14.3.4-38</b>	Sheet 1 of 1



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

Revision: <b>19.3</b>		Change Description: <b>UCR-1748</b>	
<b>AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN</b>		Title: <b>Cook Unit 1 &amp; 2 Differential Pressure Time History Steam Generator Enclosure Steam Line Break ( <math>\Delta P_{59-25}</math> )</b>	
		UFSAR Figure: <b>14.3.4-39</b>	Sheet 1 of 1





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

Revision: **19.3**

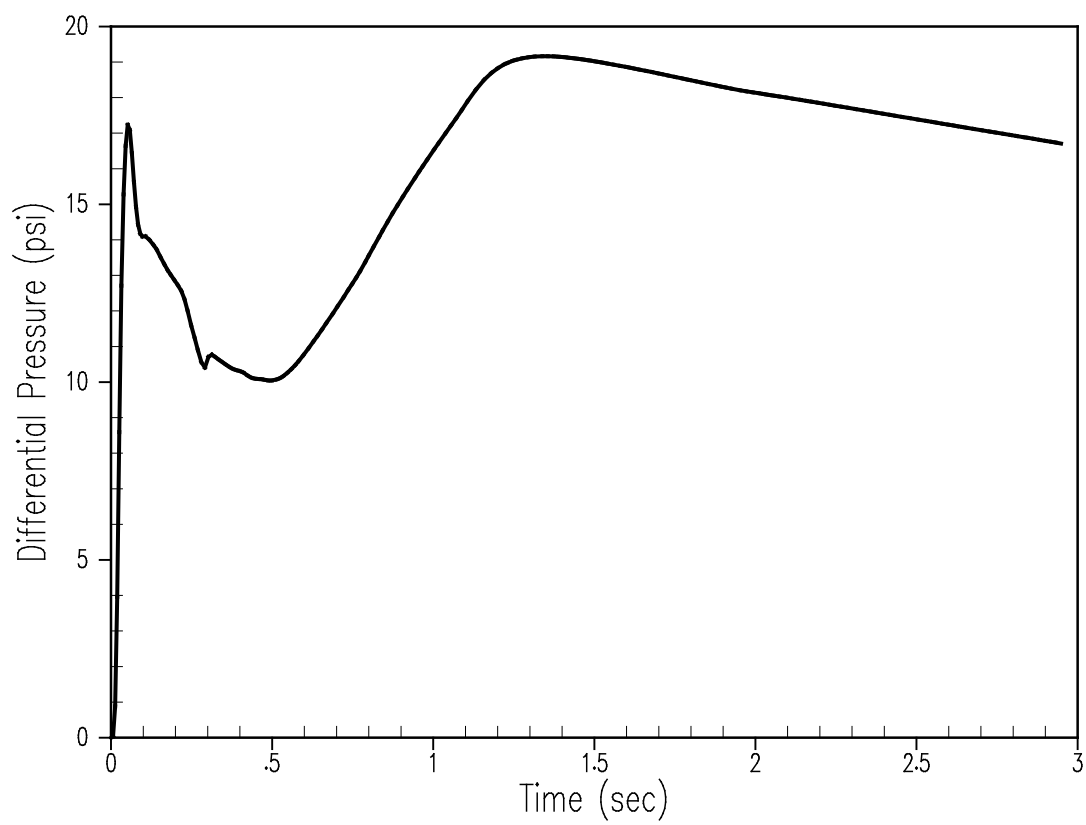
Change Description: **UCR-1748**

**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  
(  $\Delta P_{60-25}$  )**

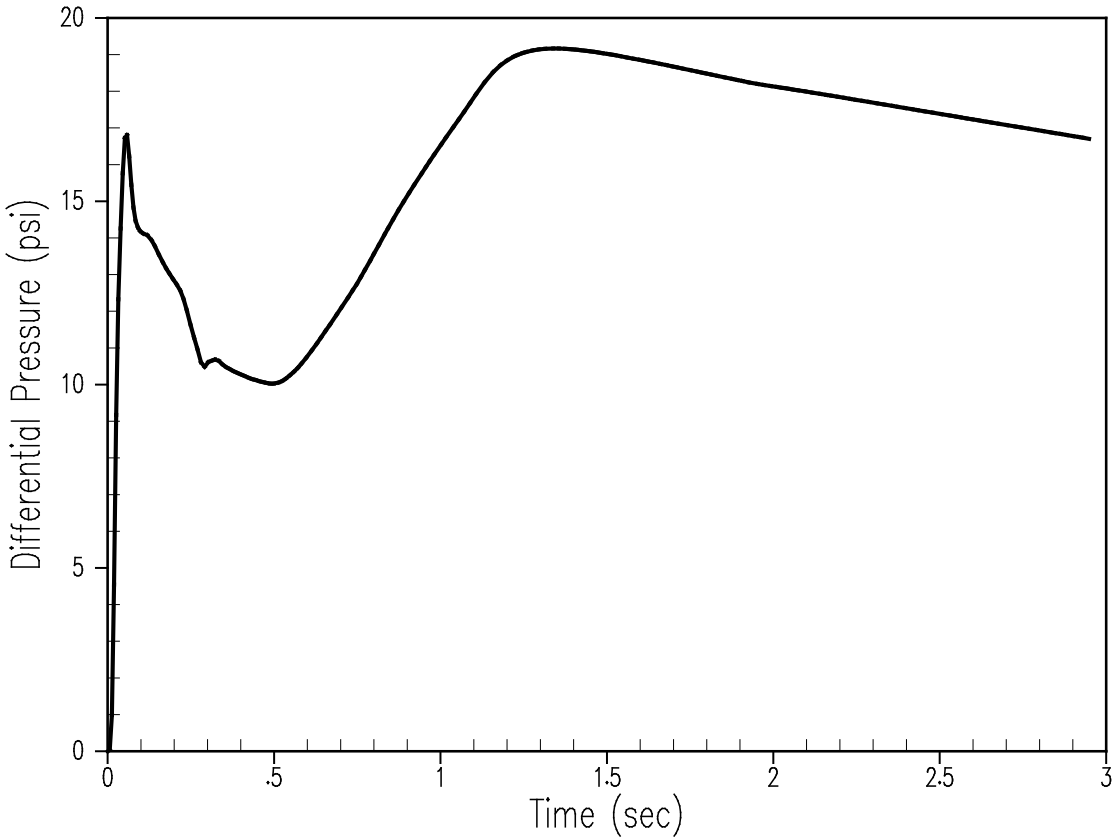
UFSAR Figure: **14.3.4-40**

Sheet 1 of 1



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

Revision: <b>19.3</b>		Change Description: <b>UCR-1748</b>	
<b>AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN</b>		Title: <b>Cook Unit 1 &amp; 2 Differential Pressure Time History Steam Generator Enclosure Steam Line Break ( <math>\Delta P_{61-25}</math> )</b>	
		UFSAR Figure: <b>14.3.4-41</b>	Sheet 1 of 1



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

Revision: **19.3**

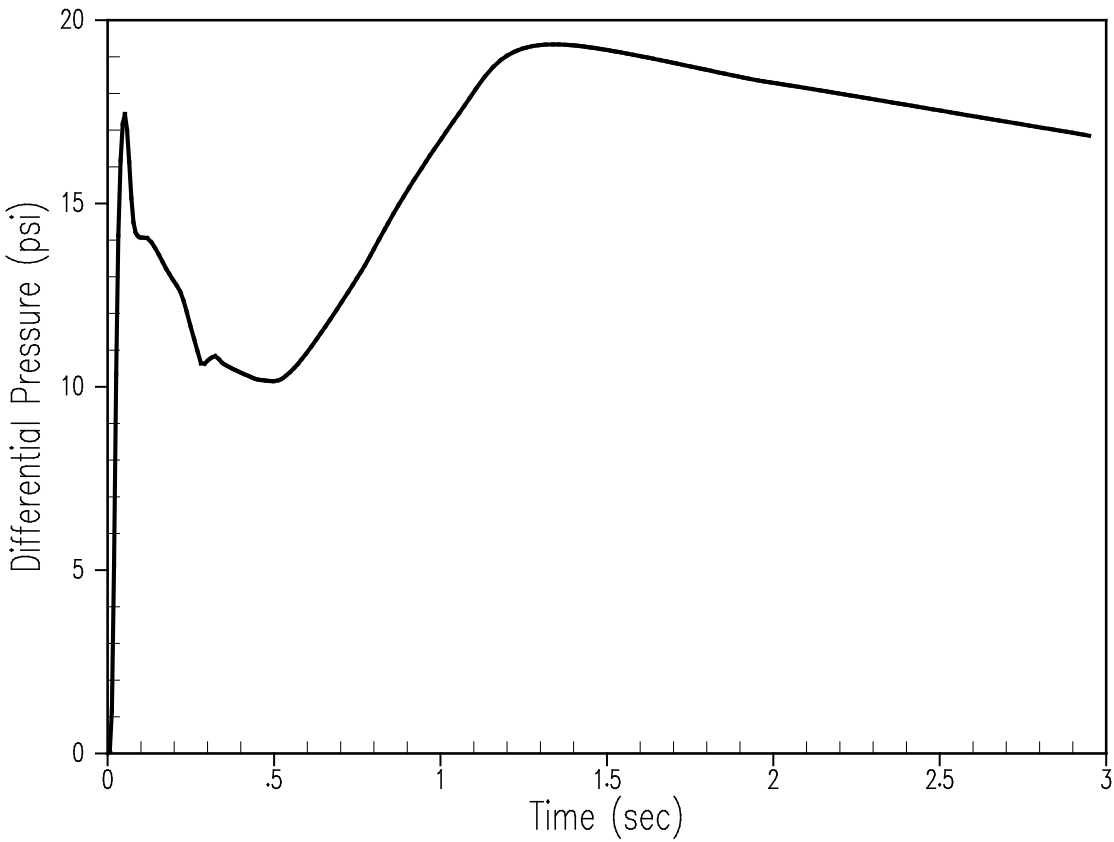
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**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

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

UFSAR Figure: **14.3.4-42**

Sheet 1 of 1



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

Revision: **19.3**

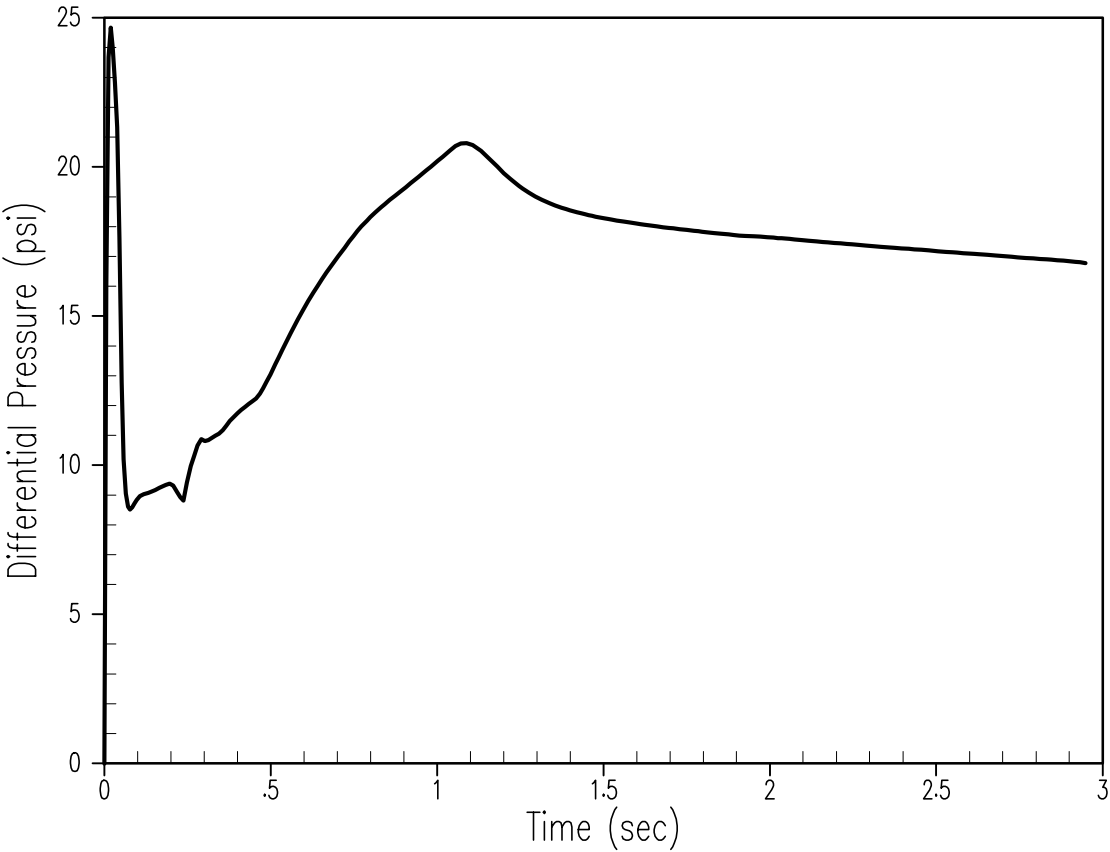
Change Description: **UCR-1748**

**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  
(  $\Delta P_{63-25}$  )**

UFSAR Figure: **14.3.4-43**

Sheet 1 of 1



Revision: **17.1**

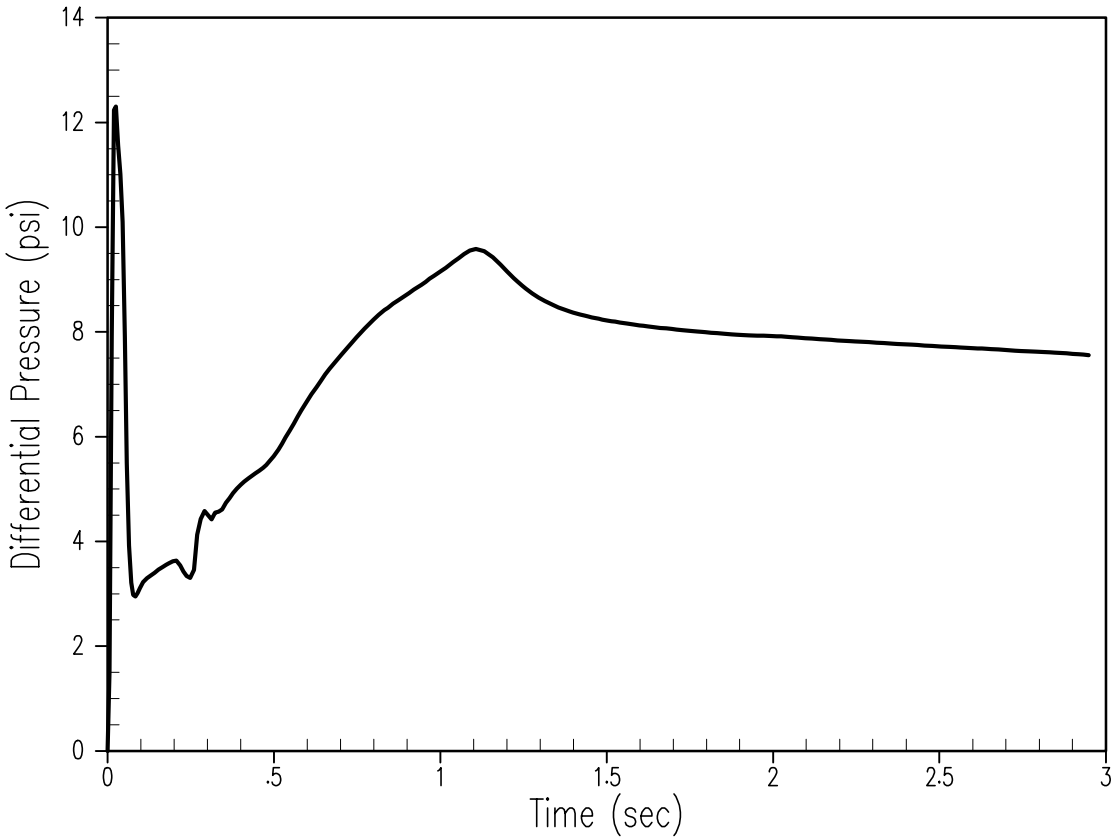
Change Description: **UCR-850**

**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**

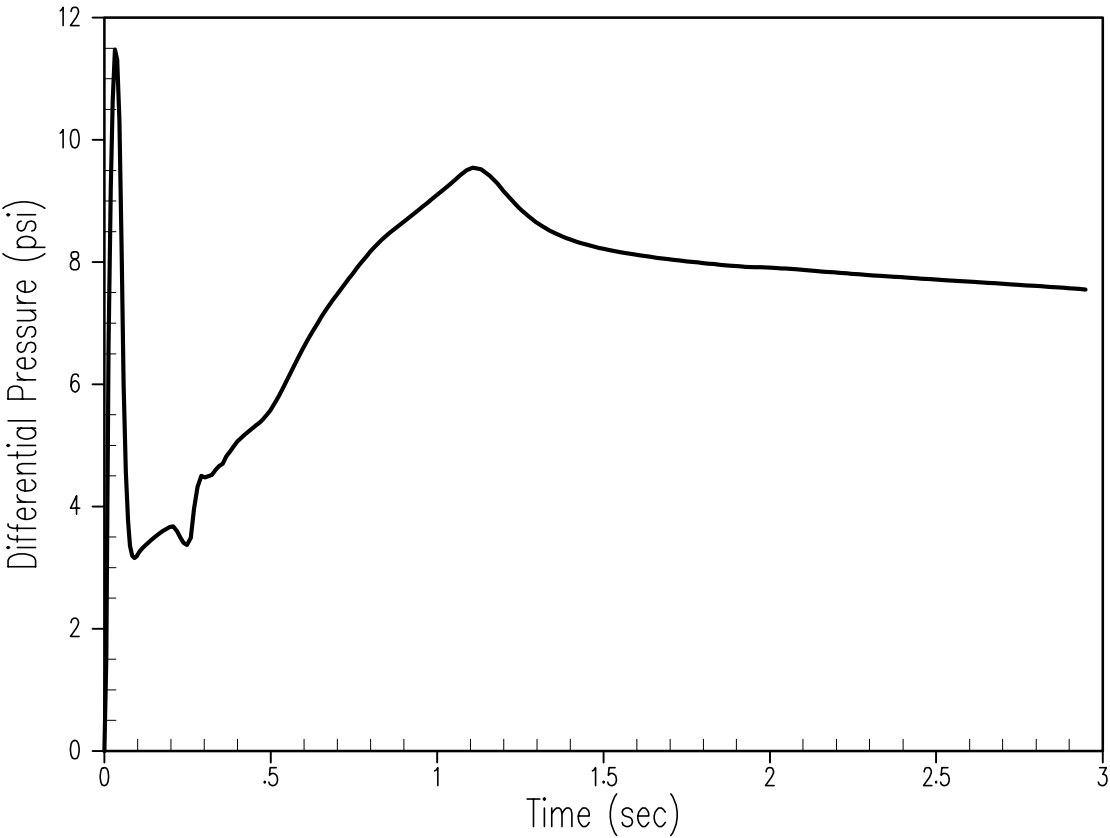
Change Description: **UCR-850**

**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**

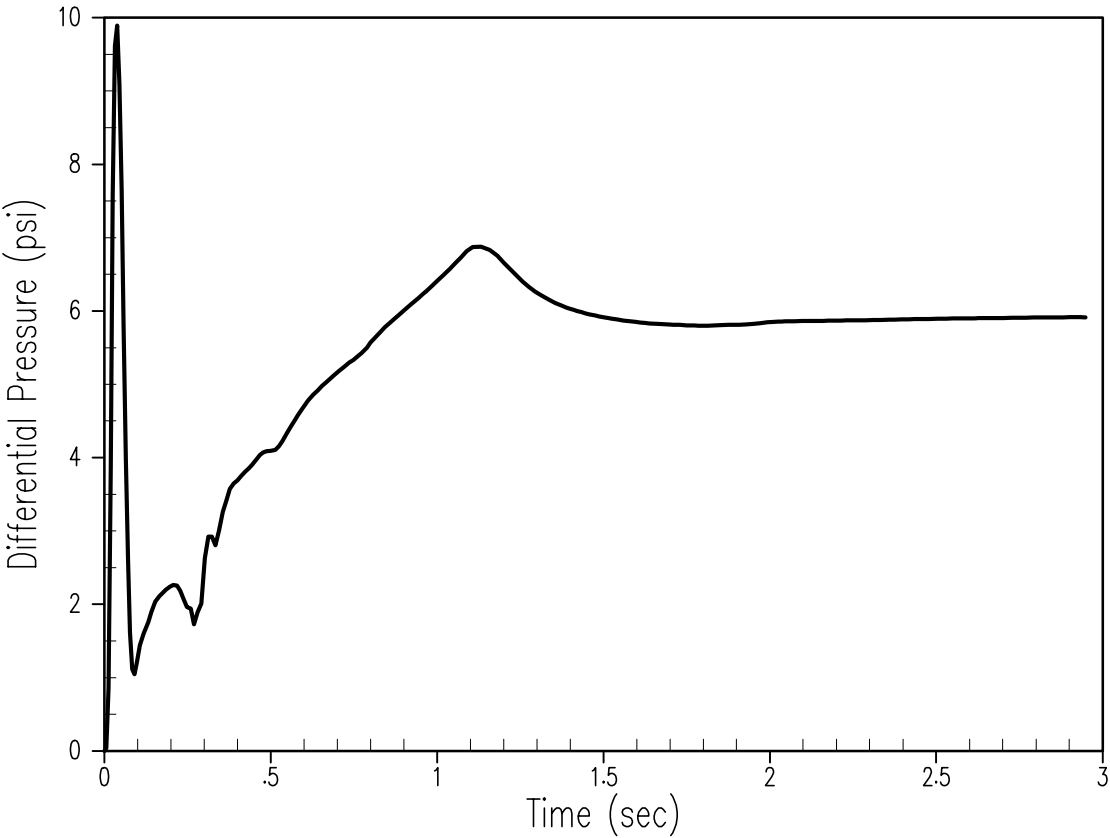
Change Description: **UCR-850**

**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**

Change Description: **UCR-850**

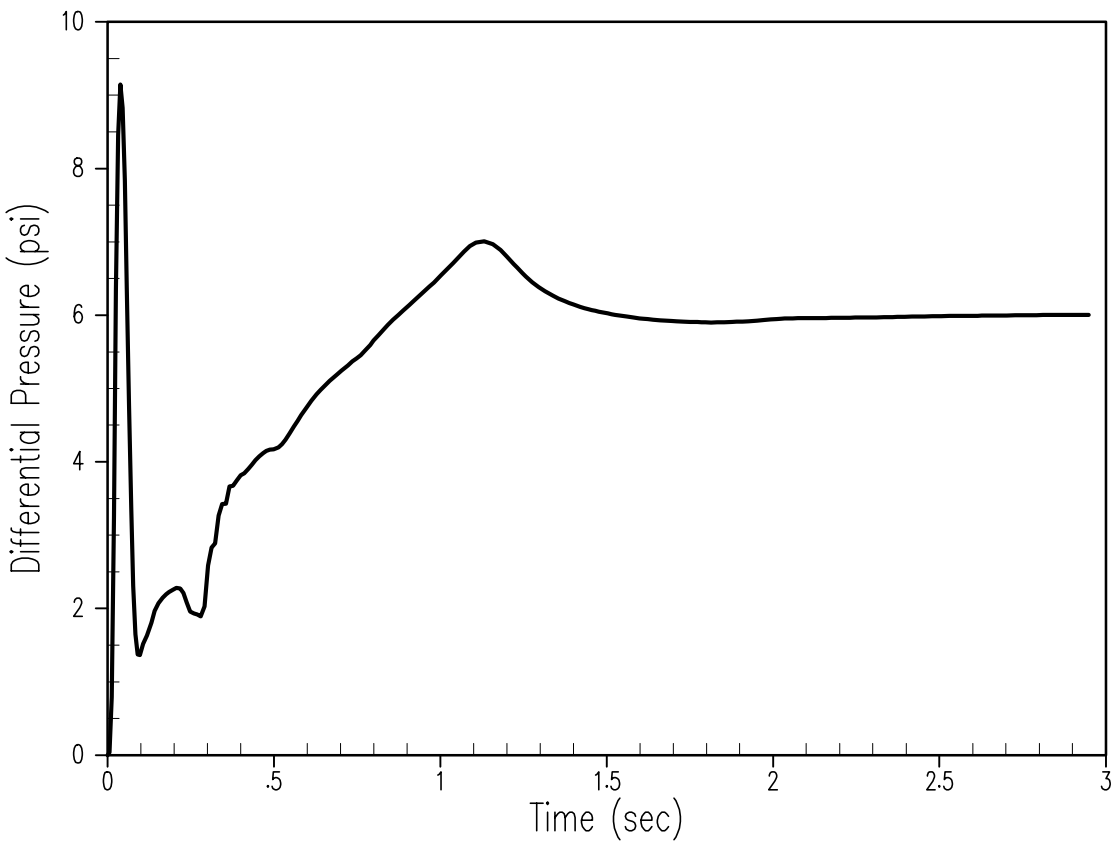
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

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

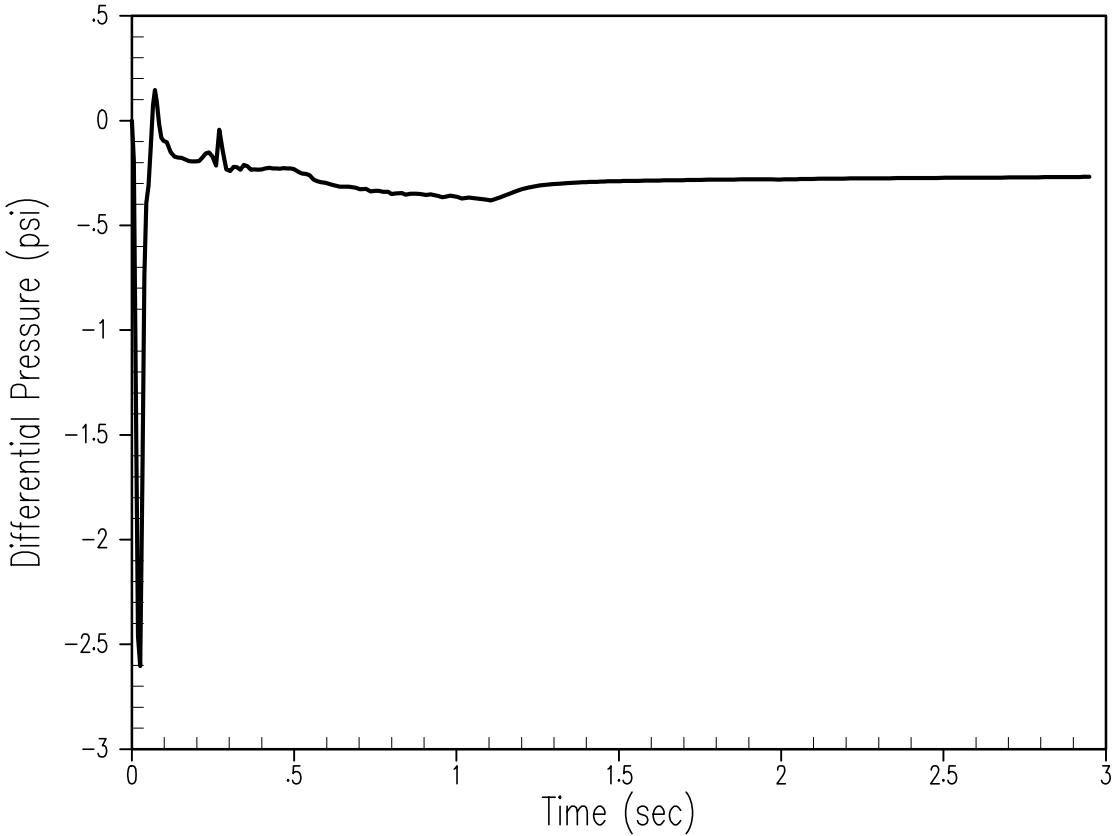
UFSAR Figure: **14.3.4-47**

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>Cook Unit 1 &amp; 2 Differential Pressure Time History Steam Generator Enclosure Steam Line Break ( <math>\Delta P_{61-52}</math> )</b>	
		UFSAR Figure: <b>14.3.4-48</b>	Sheet 1 of 1



Revision: **17.1**

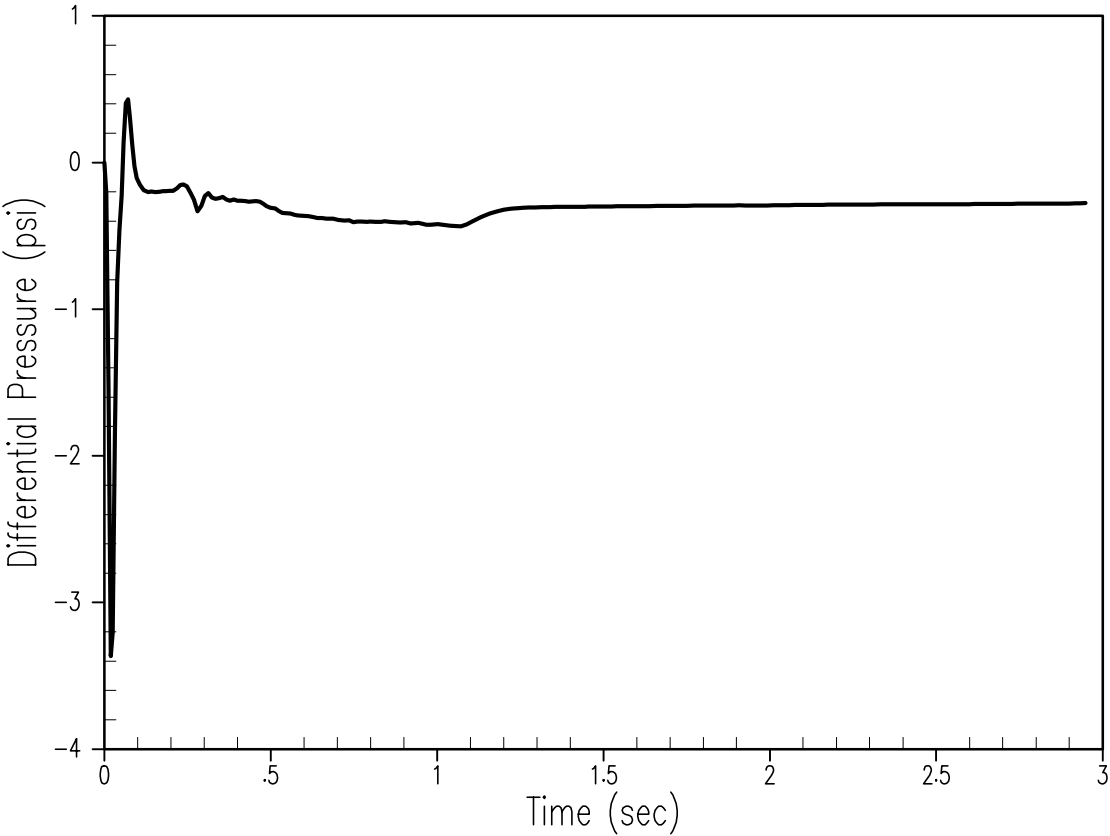
Change Description: **UCR-850**

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

Title: **Cook Unit 1 & 2  
Differential Pressure 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**

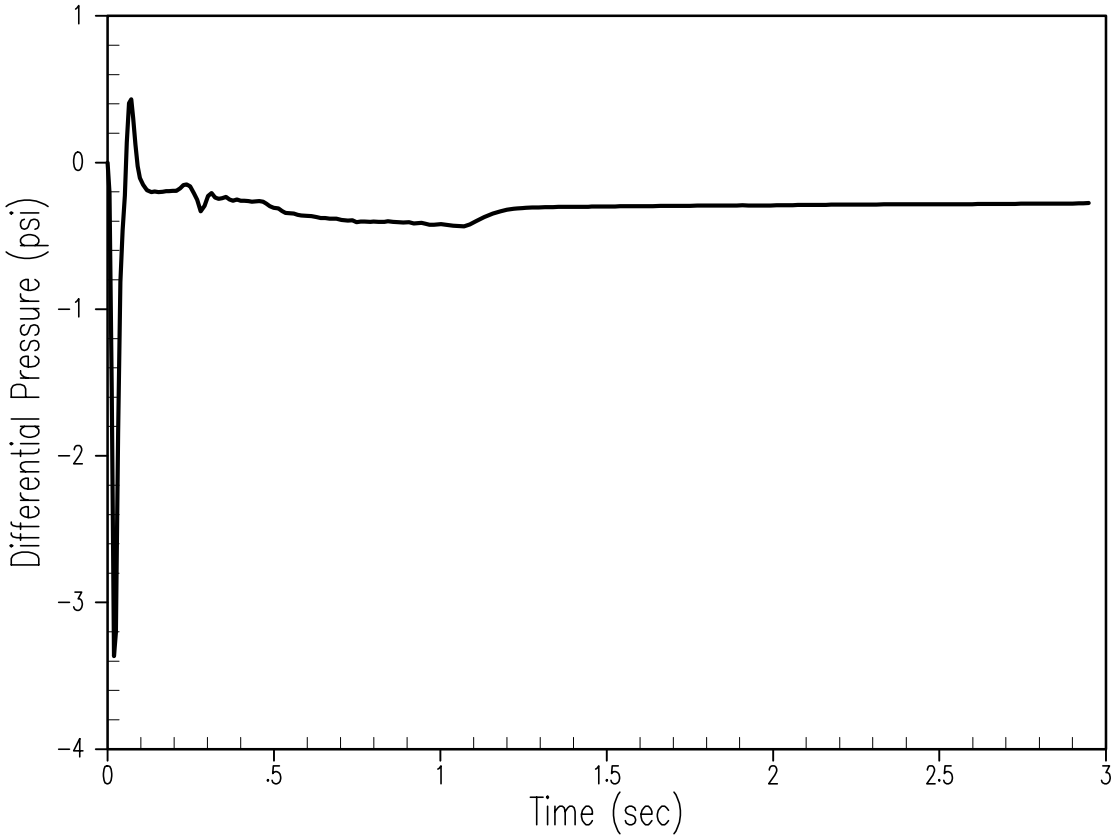
Change Description: **UCR-850**

**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  
(  $\Delta P_{57-59}$  )**

UFSAR Figure: **14.3.4-50**

Sheet 1 of 1



Revision: **17.1**

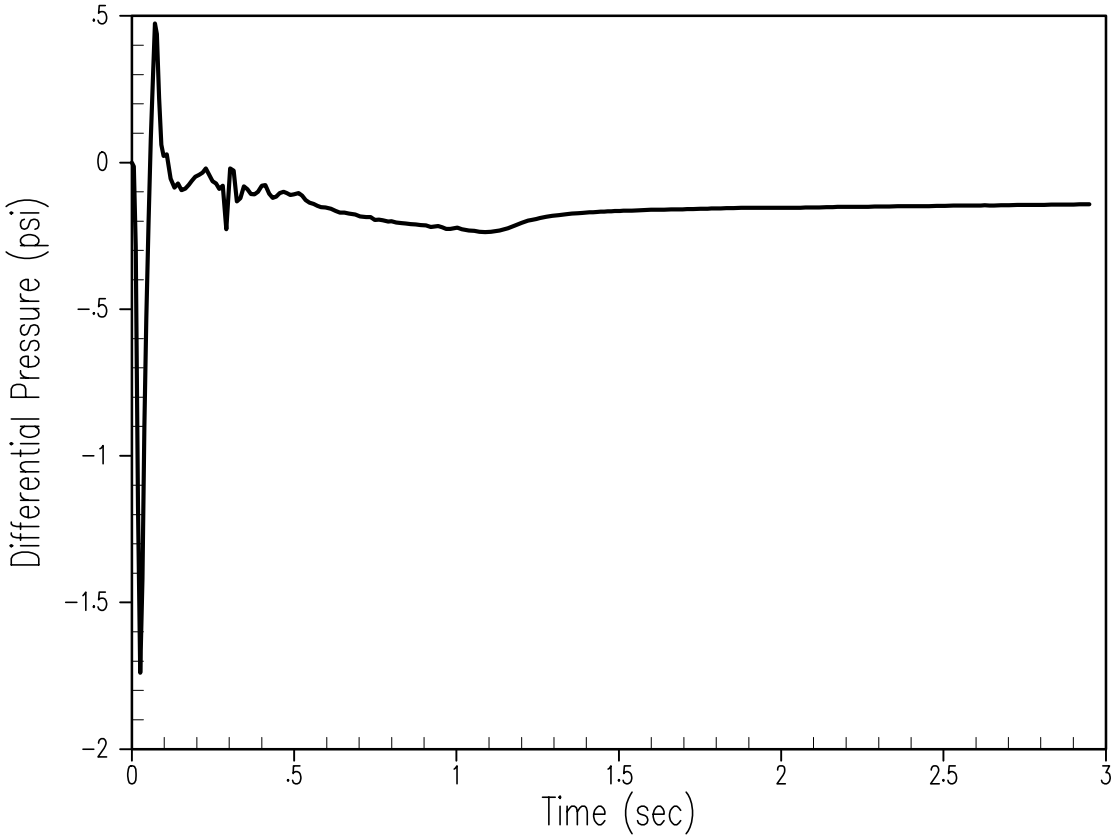
Change Description: **UCR-850**

**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  
(  $\Delta P_{60-62}$  )**

UFSAR Figure: **14.3.4-51**

Sheet 1 of 1



Revision: **17.1**

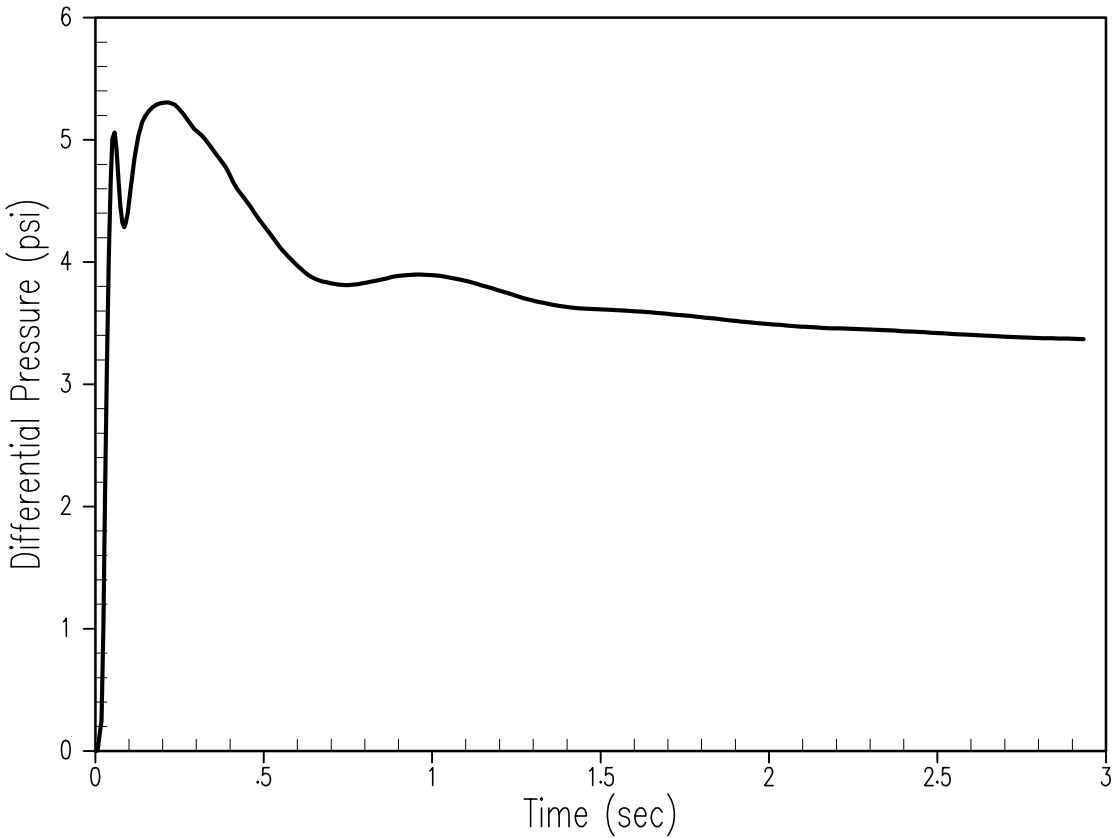
Change Description: **UCR-850**

**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  
(  $\Delta P_{61-63}$  )**

UFSAR Figure: **14.3.4-52**

Sheet 1 of 1



Revision: **17.1**

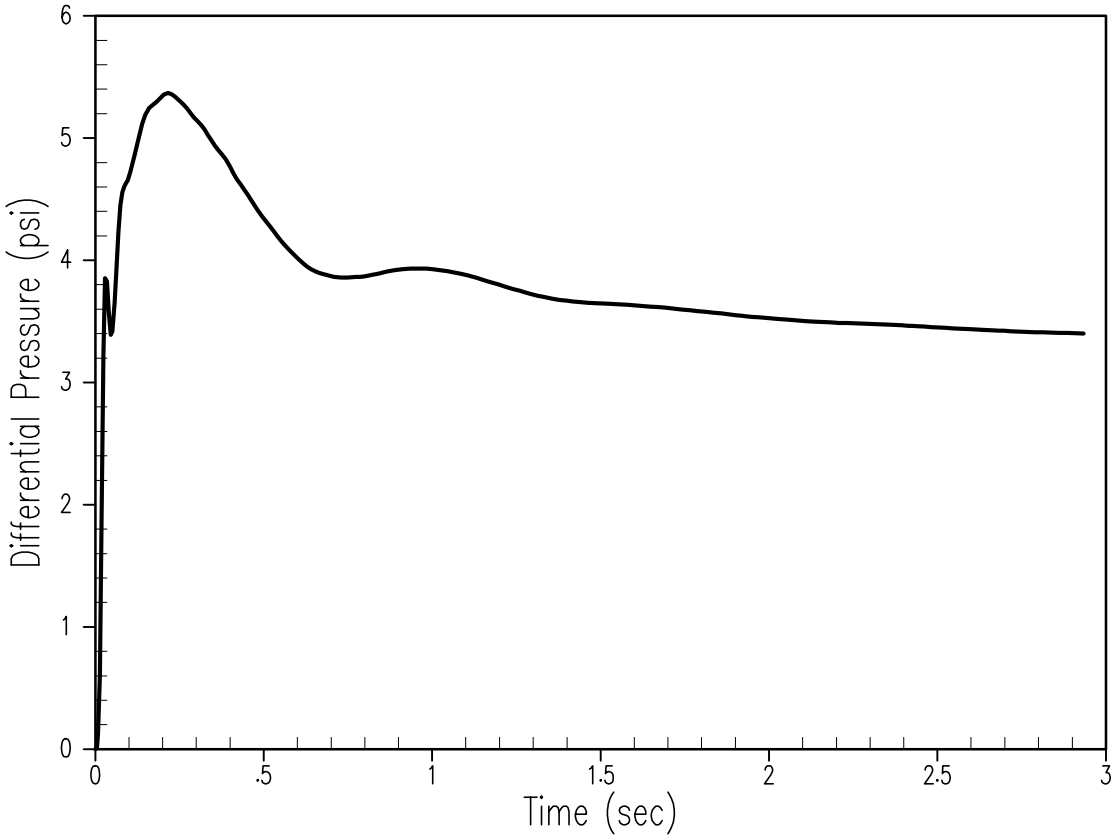
Change Description: **UCR-850**

**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  
(  $\Delta P_{55-25}$  )**

UFSAR Figure: **14.3.4-53**

Sheet 1 of 1



Revision: **17.1**

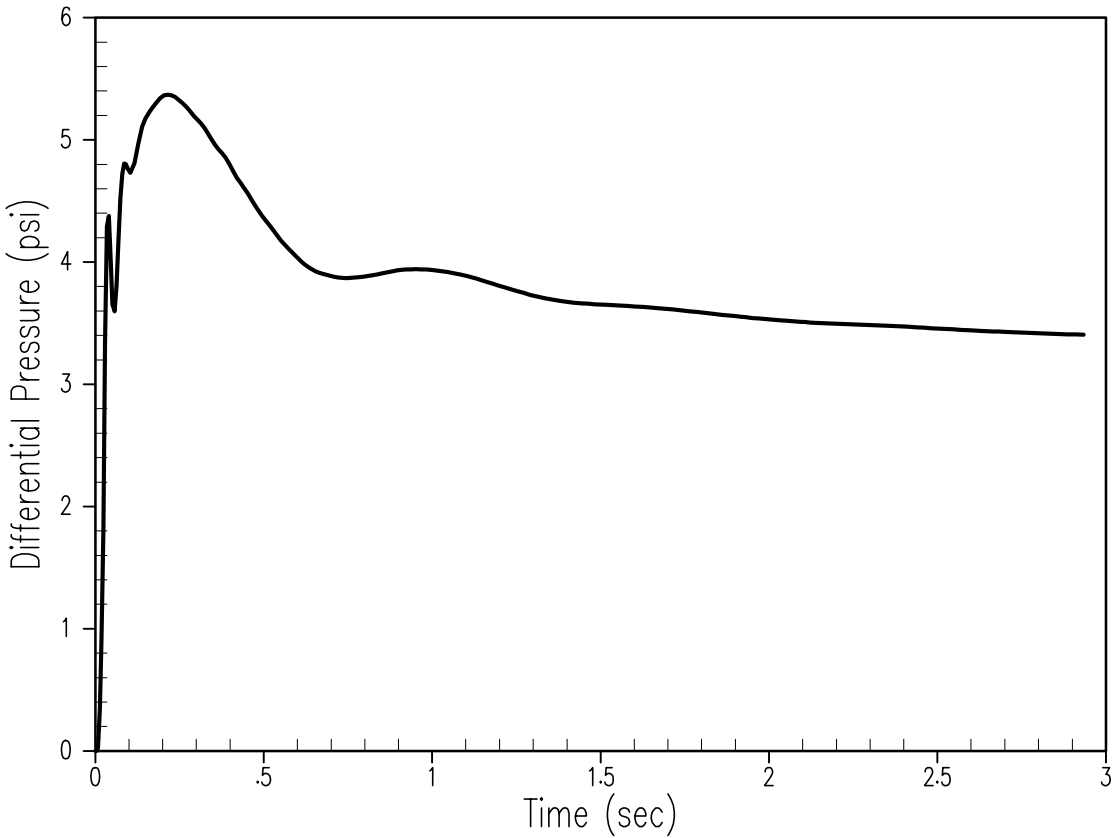
Change Description: **UCR-850**

**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  
(  $\Delta P_{56-25}$  )**

UFSAR Figure: **14.3.4-54**

Sheet 1 of 1



Revision: **17.1**

Change Description: **UCR-850**

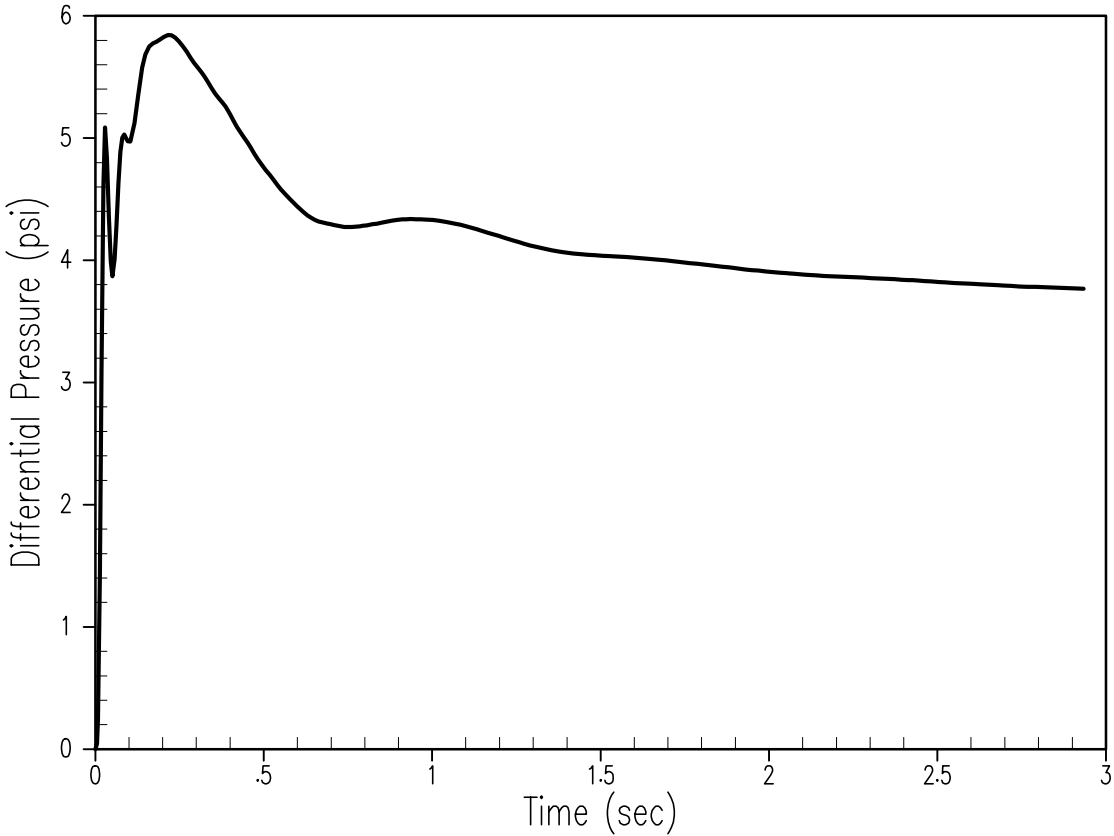
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COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

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**

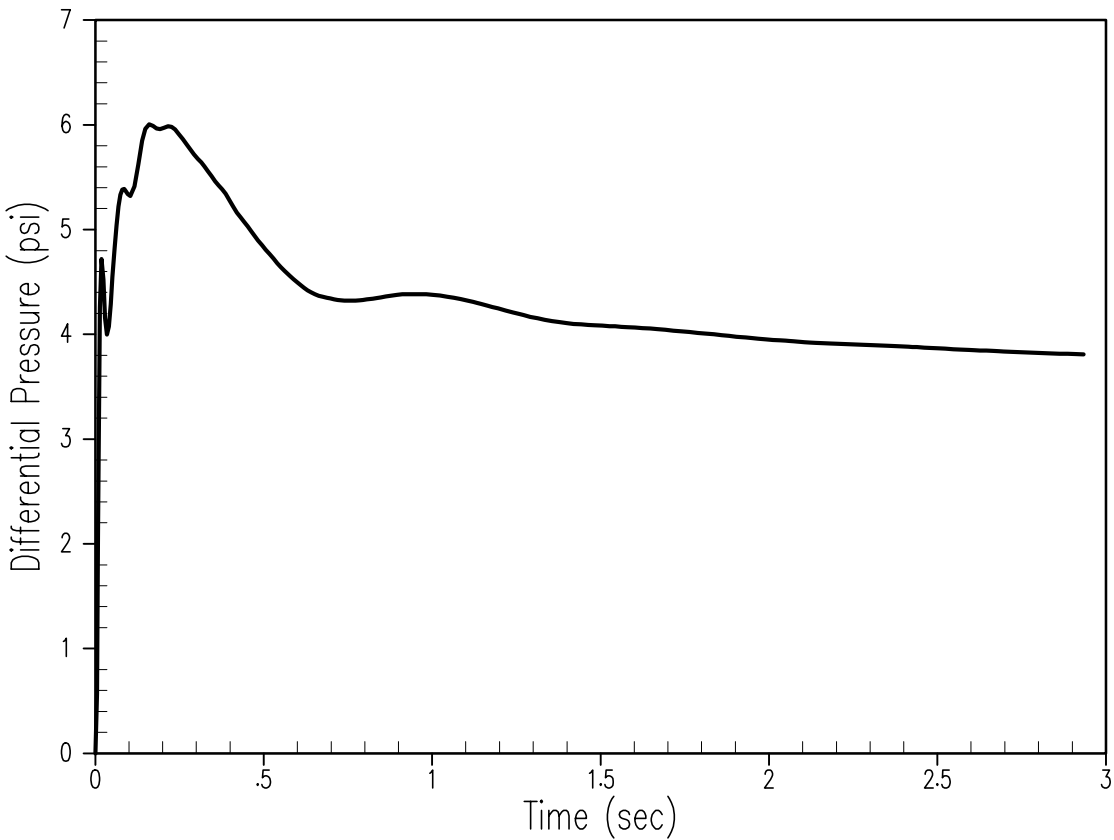
Change Description: **UCR-850**

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

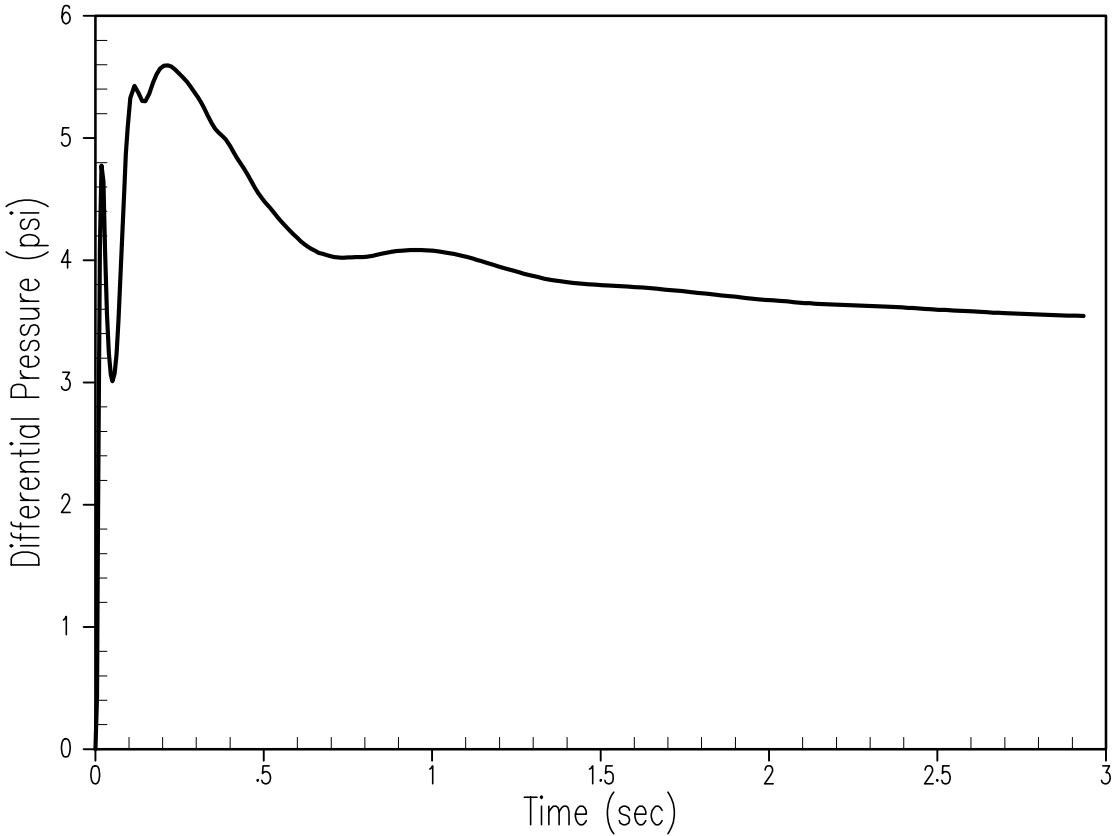
Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{58-25}$  )**

UFSAR Figure: **14.3.4-56**

Sheet 1 of 1



Revision: 17.1		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 ( $\Delta P_{59-25}$ )	
		UFSAR Figure: 14.3.4-57	Sheet 1 of 1



Revision: **17.1**

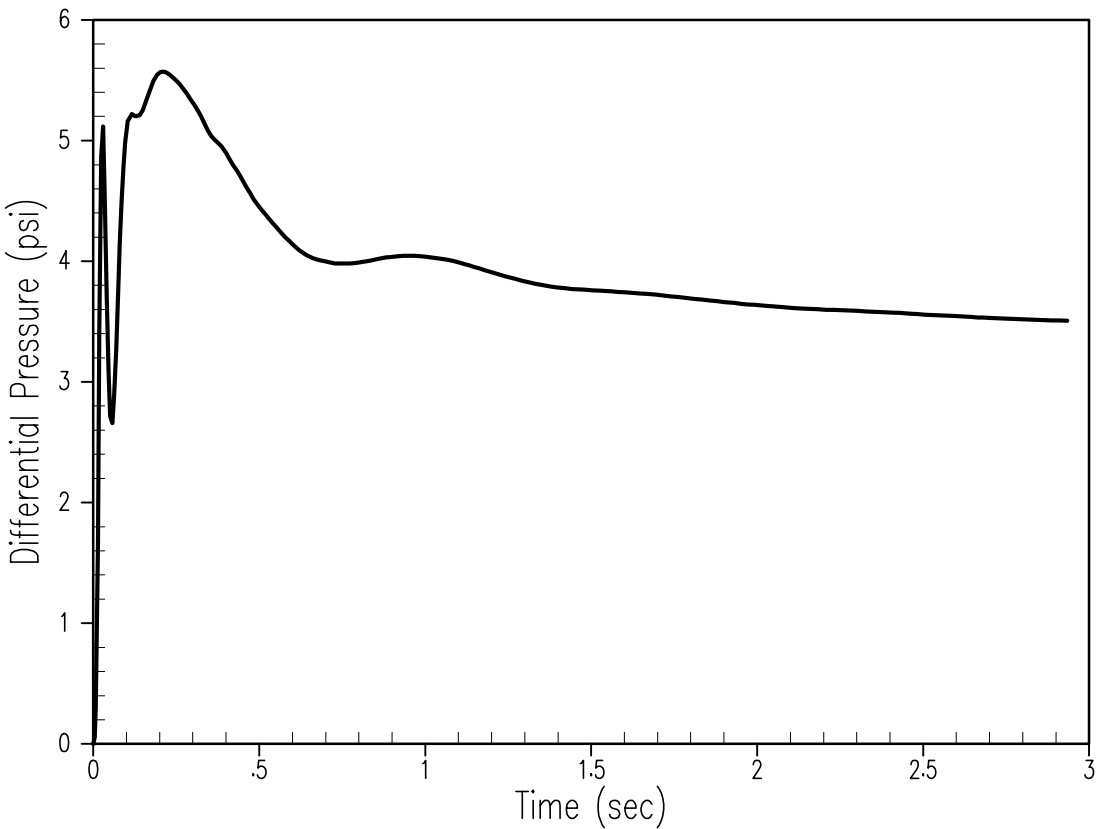
Change Description: **UCR-850**

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

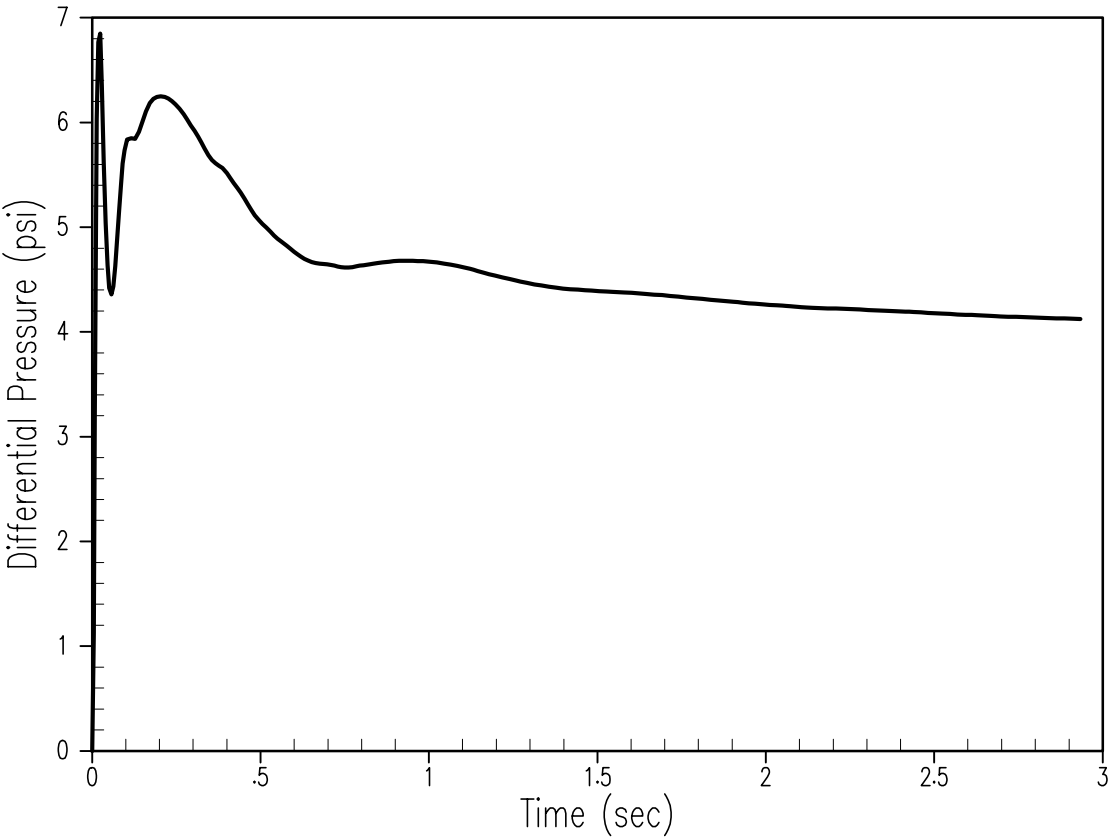
Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{60-25}$  )**

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**

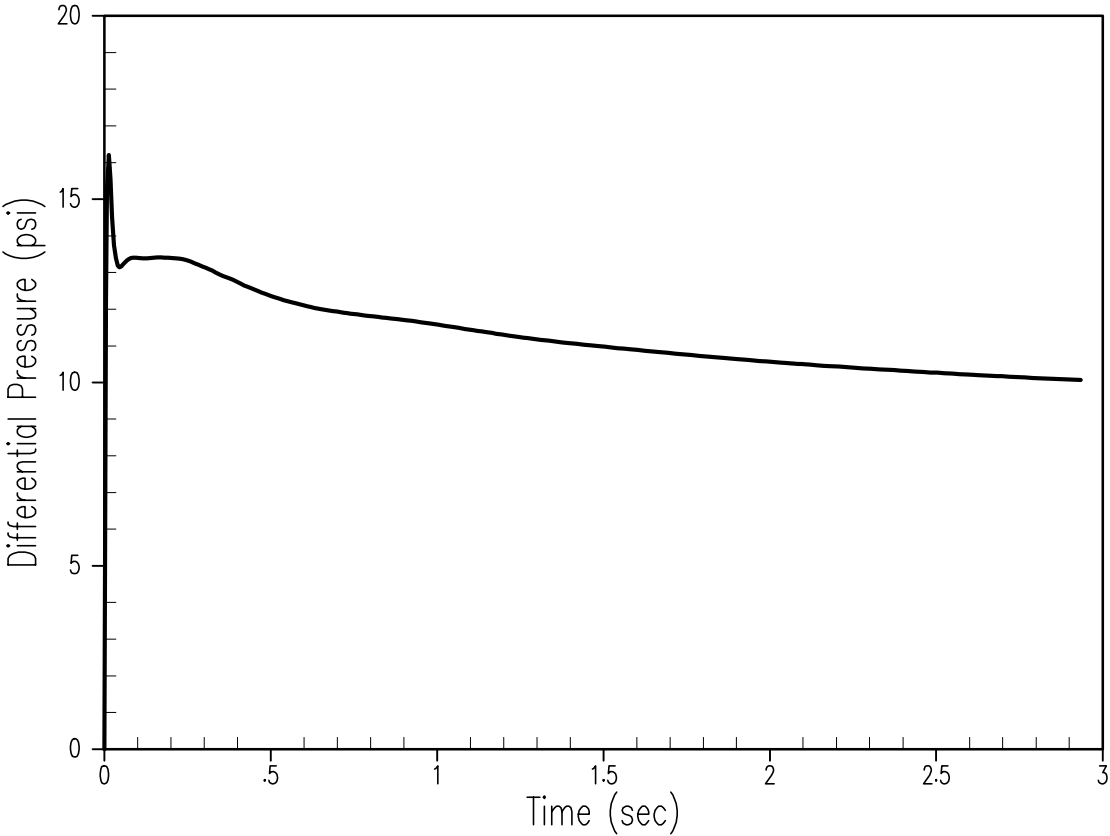
Change Description: **UCR-850**

**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**

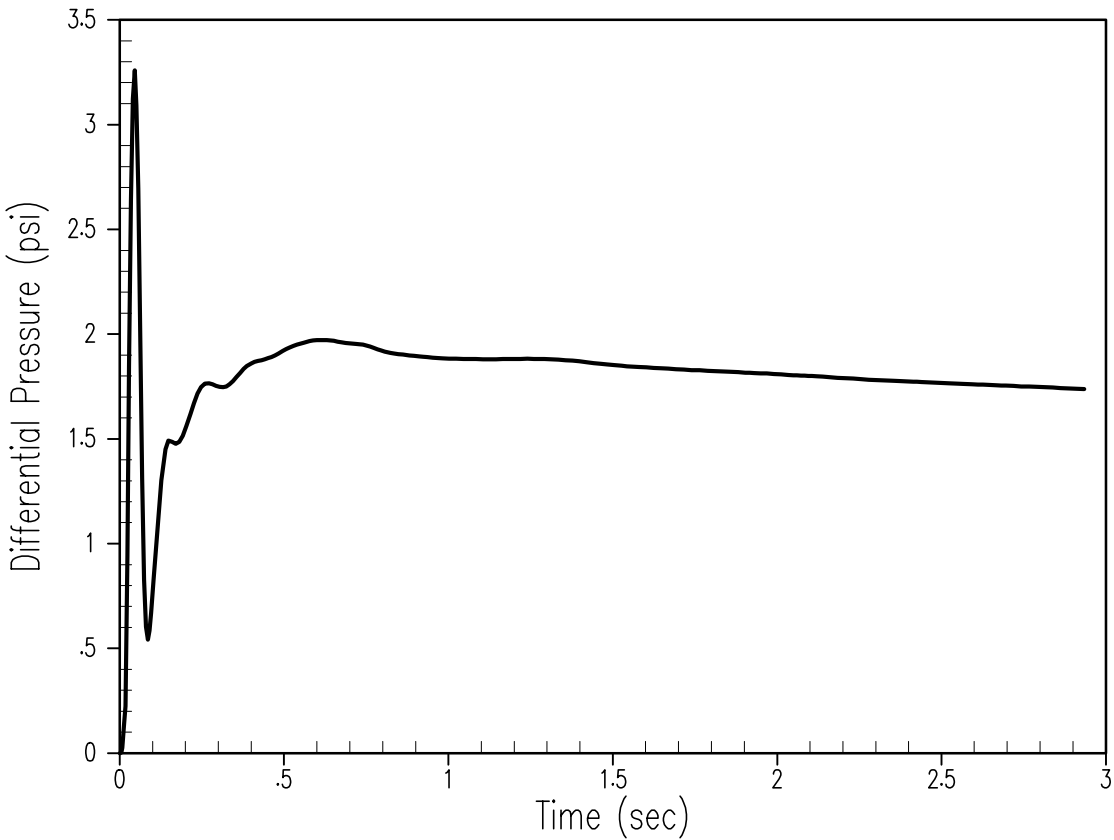
Change Description: **UCR-850**

**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**

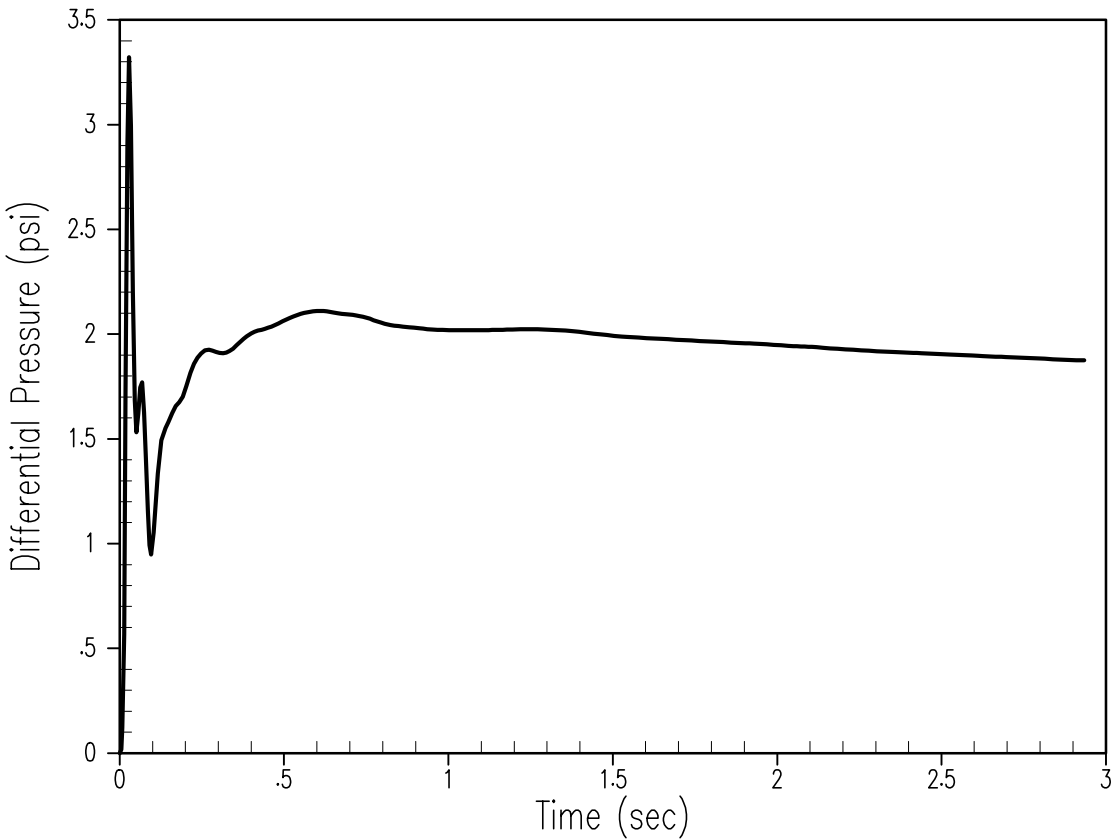
Change Description: **UCR-850**

**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**

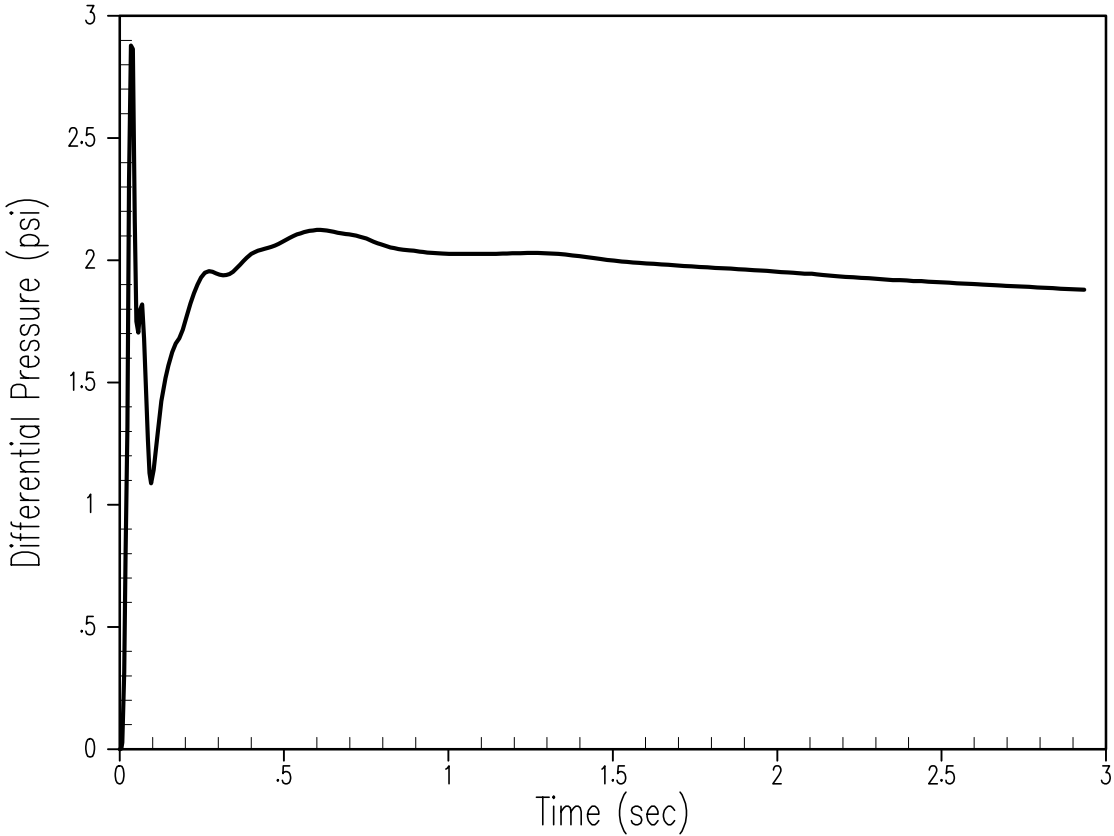
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

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**

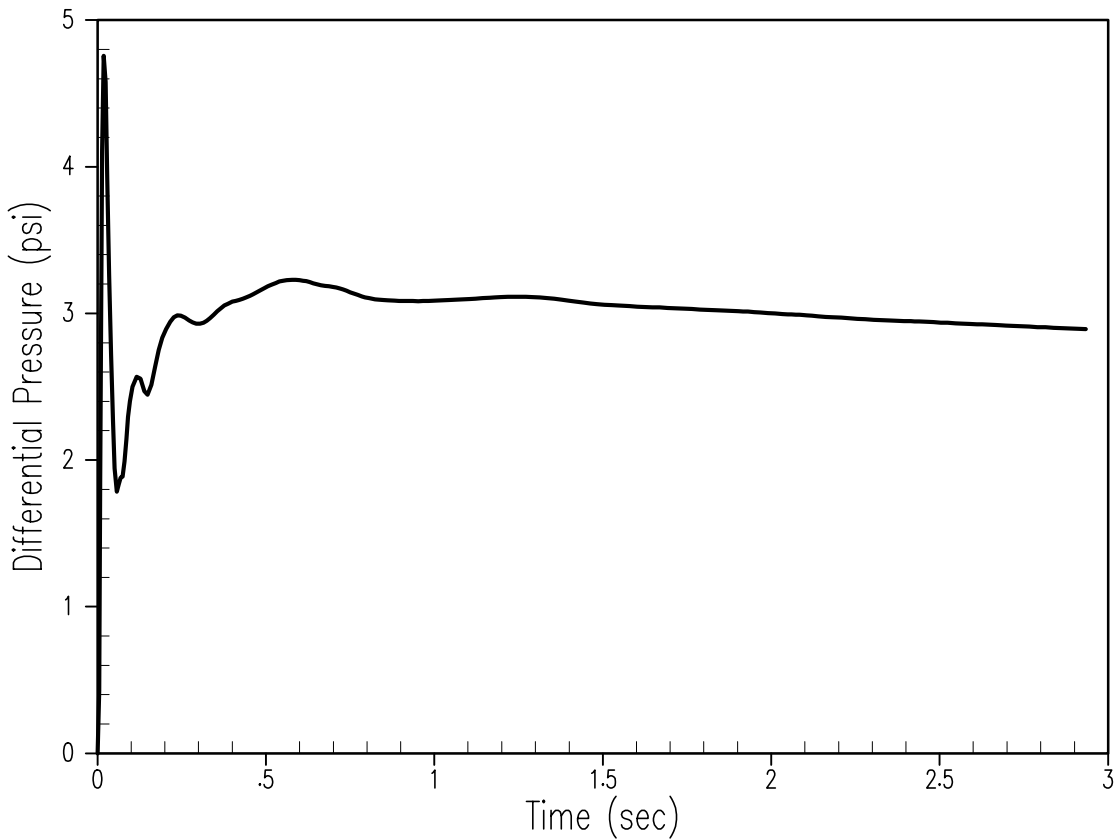
Change Description: **UCR-850**

**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**

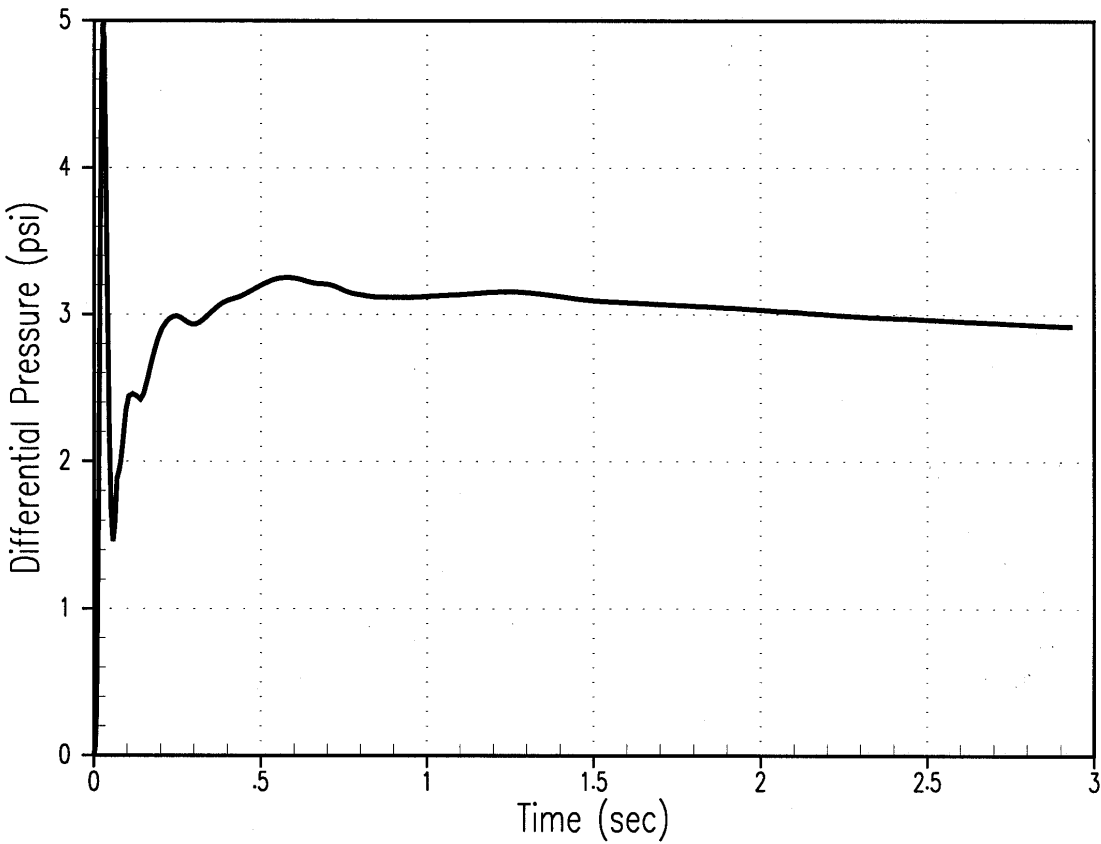
Change Description: **UCR-850**

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

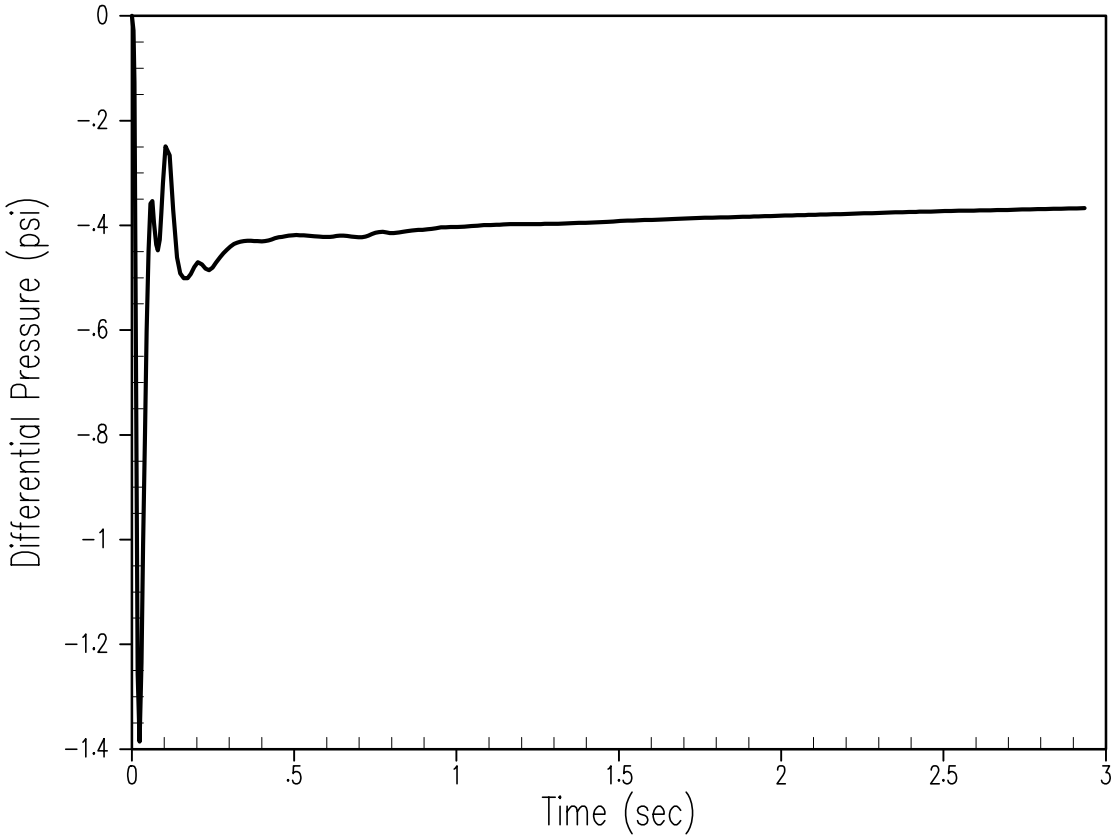
Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{60-51}$  )**

UFSAR Figure: **14.3.4-65**

Sheet 1 of 1



Revision: 17.1		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 ( $\Delta P_{61-52}$ )	
		UFSAR Figure: 14.3.4-66	Sheet 1 of 1



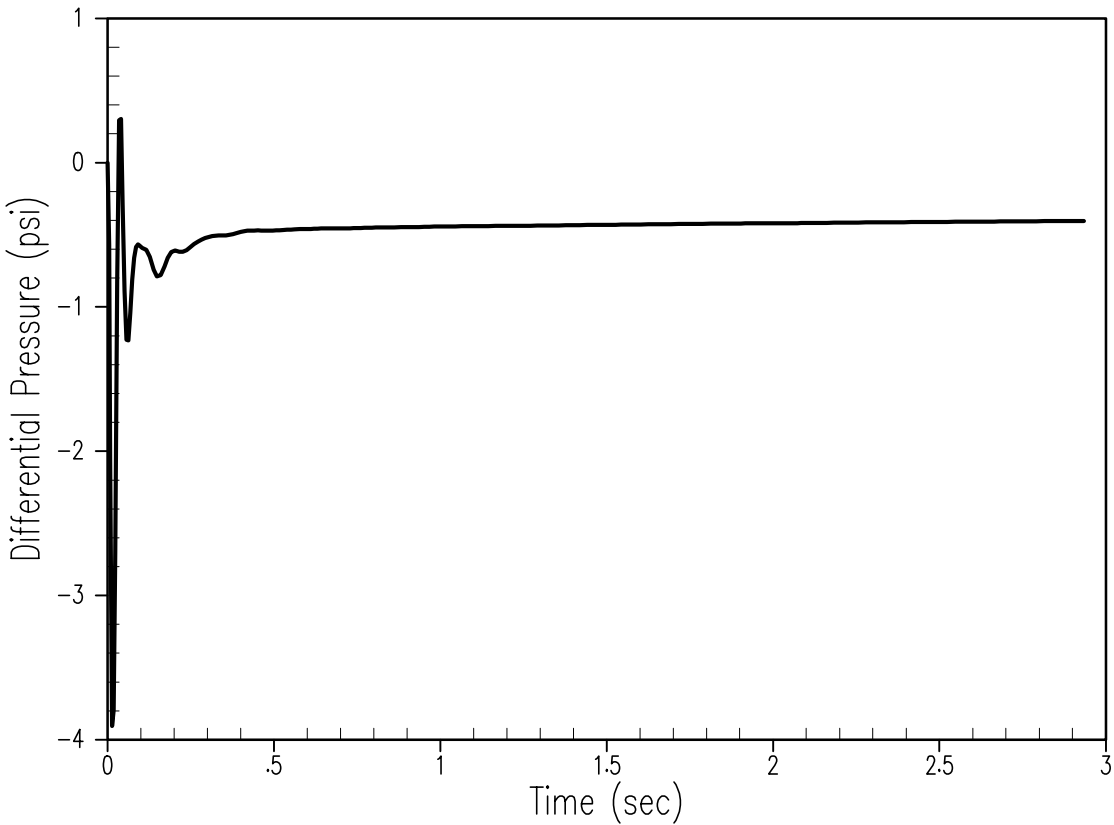
Revision: **17.1**      Change Description: **UCR-850**

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

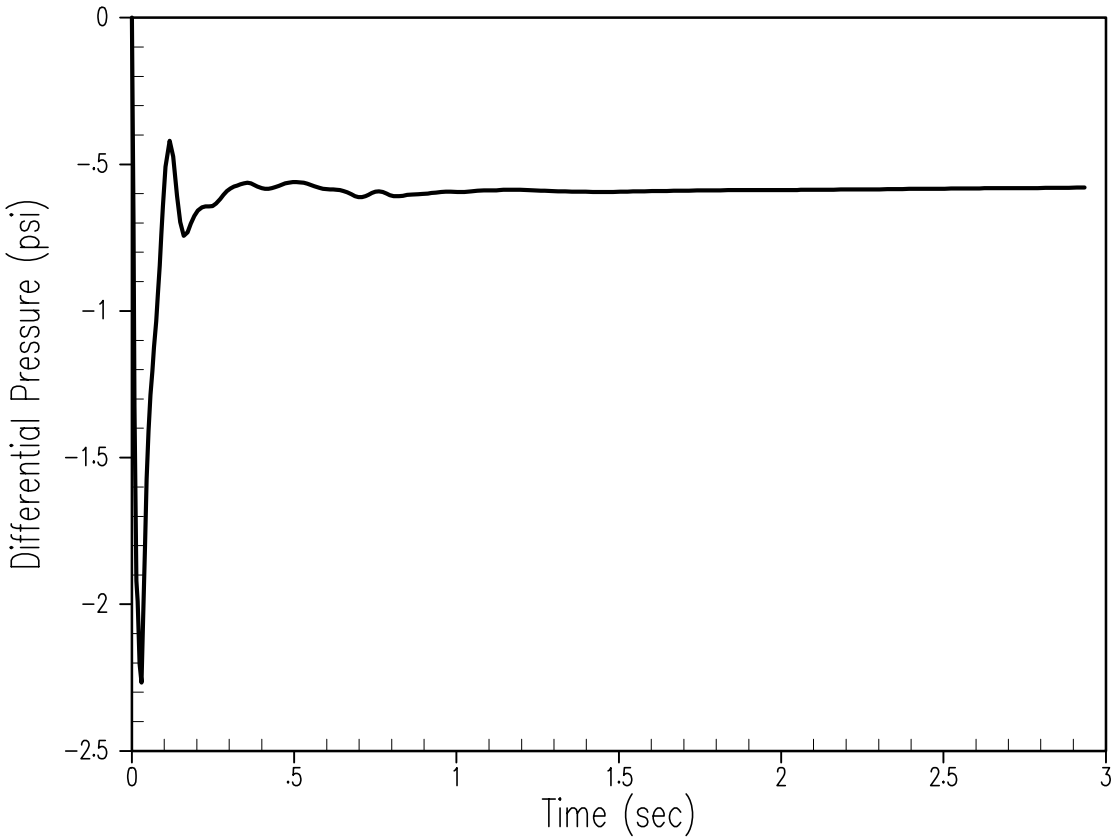
Title: **Cook Unit 1 & 2  
Differential Pressure Time History  
Steam Generator Enclosure  
Feedwater Line Break  
(  $\Delta P_{56-58}$  )**

UFSAR Figure: **14.3.4-67**

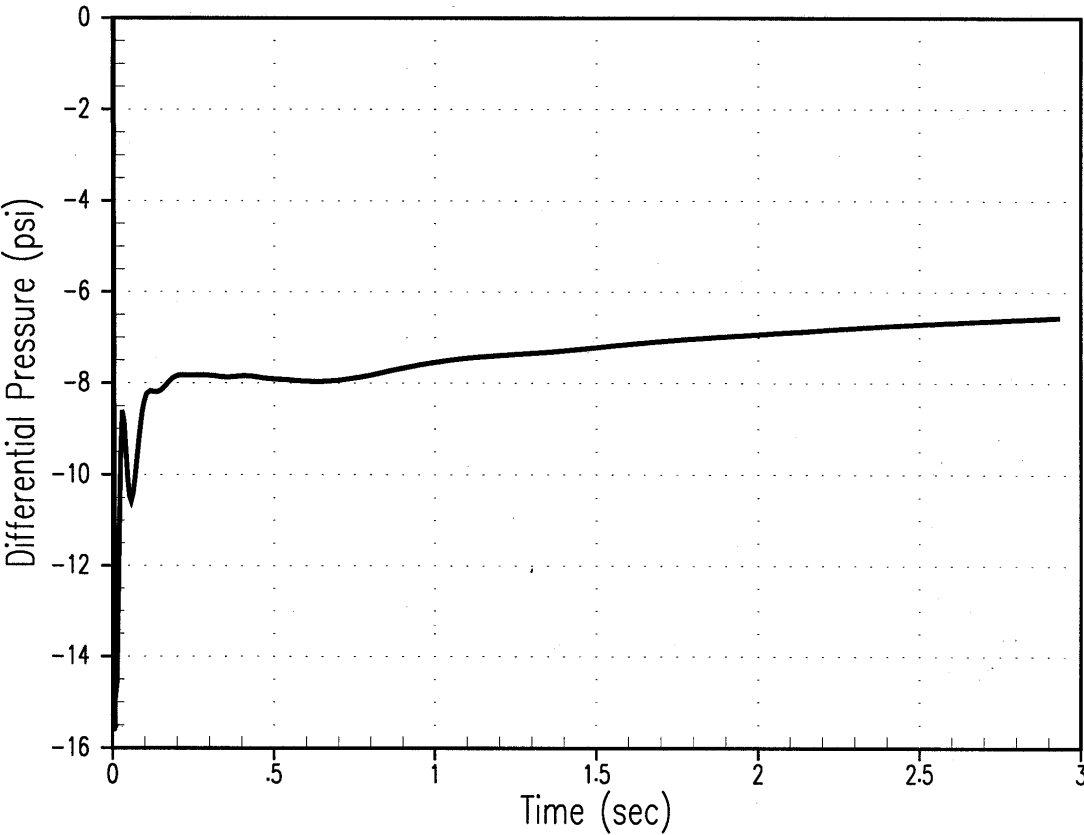
Sheet 1 of 1



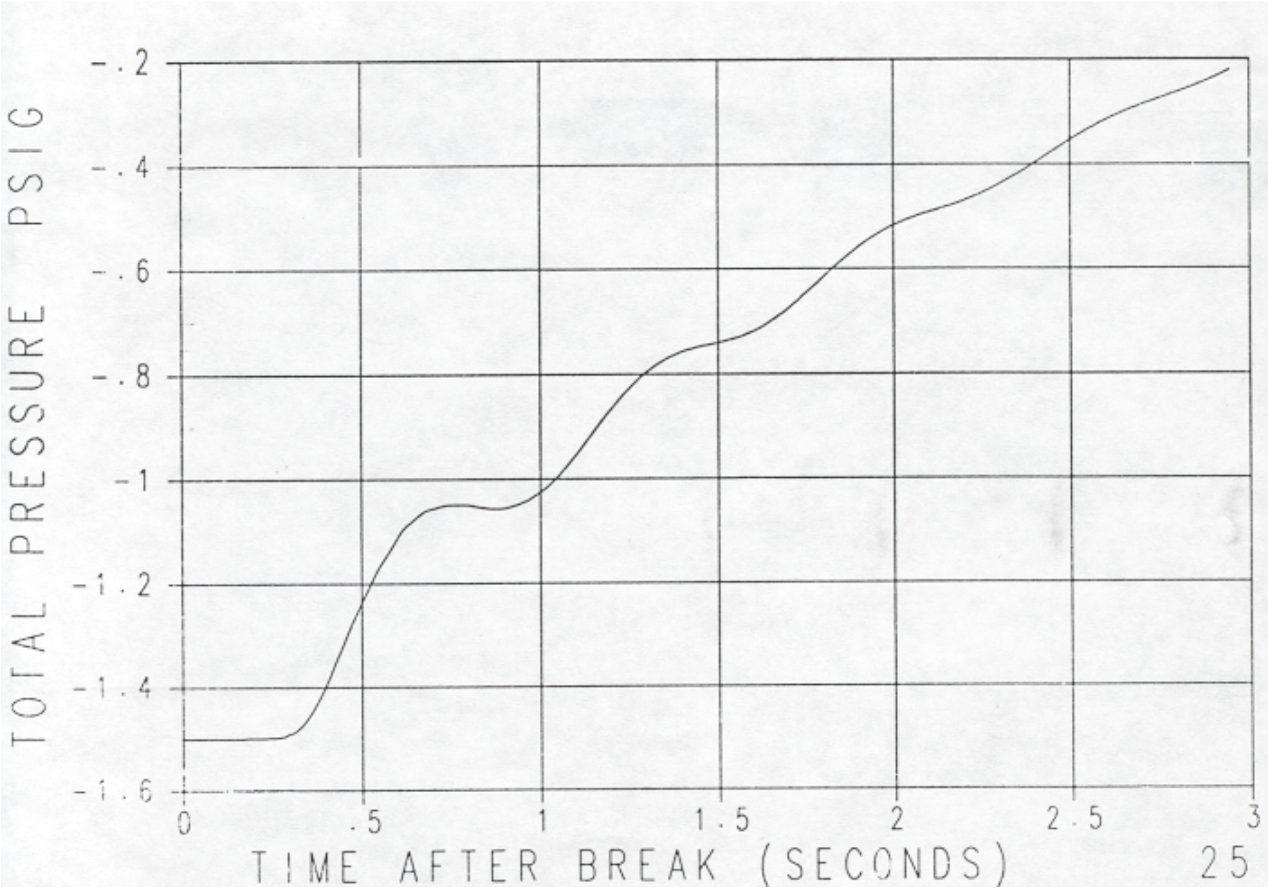
Revision: <b>17.1</b>		Change Description: <b>UCR-850</b>	
<b>AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN</b>		Title: <b>Cook Unit 1 &amp; 2 Differential Pressure Time History Steam Generator Enclosure Feedwater Line Break ( <math>\Delta P_{57-59}</math> )</b>	
		UFSAR Figure: <b>14.3.4-68</b>	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>Cook Unit 1 &amp; 2 Differential Pressure Time History Steam Generator Enclosure Feedwater Line Break ( <math>\Delta P_{60-62}</math> )</b>	
		UFSAR Figure: <b>14.3.4-69</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 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**

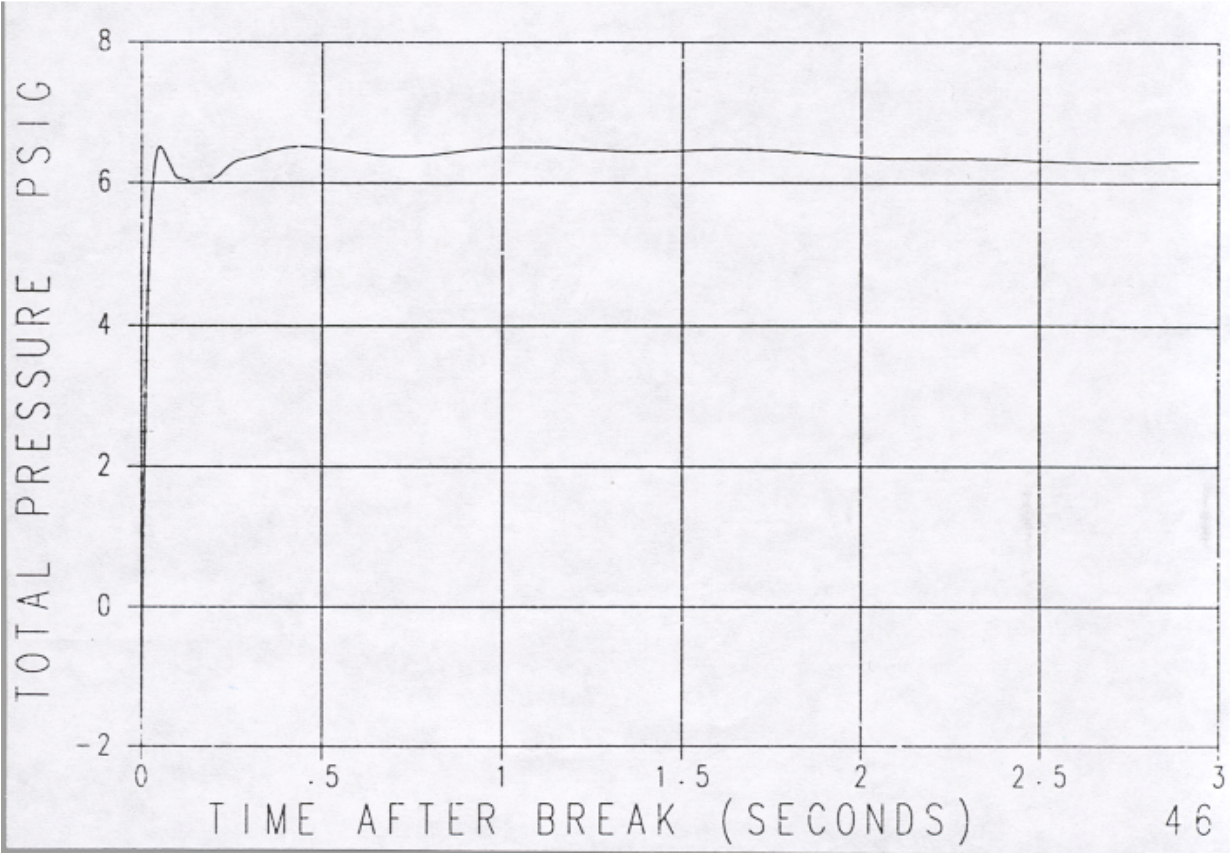
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

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**

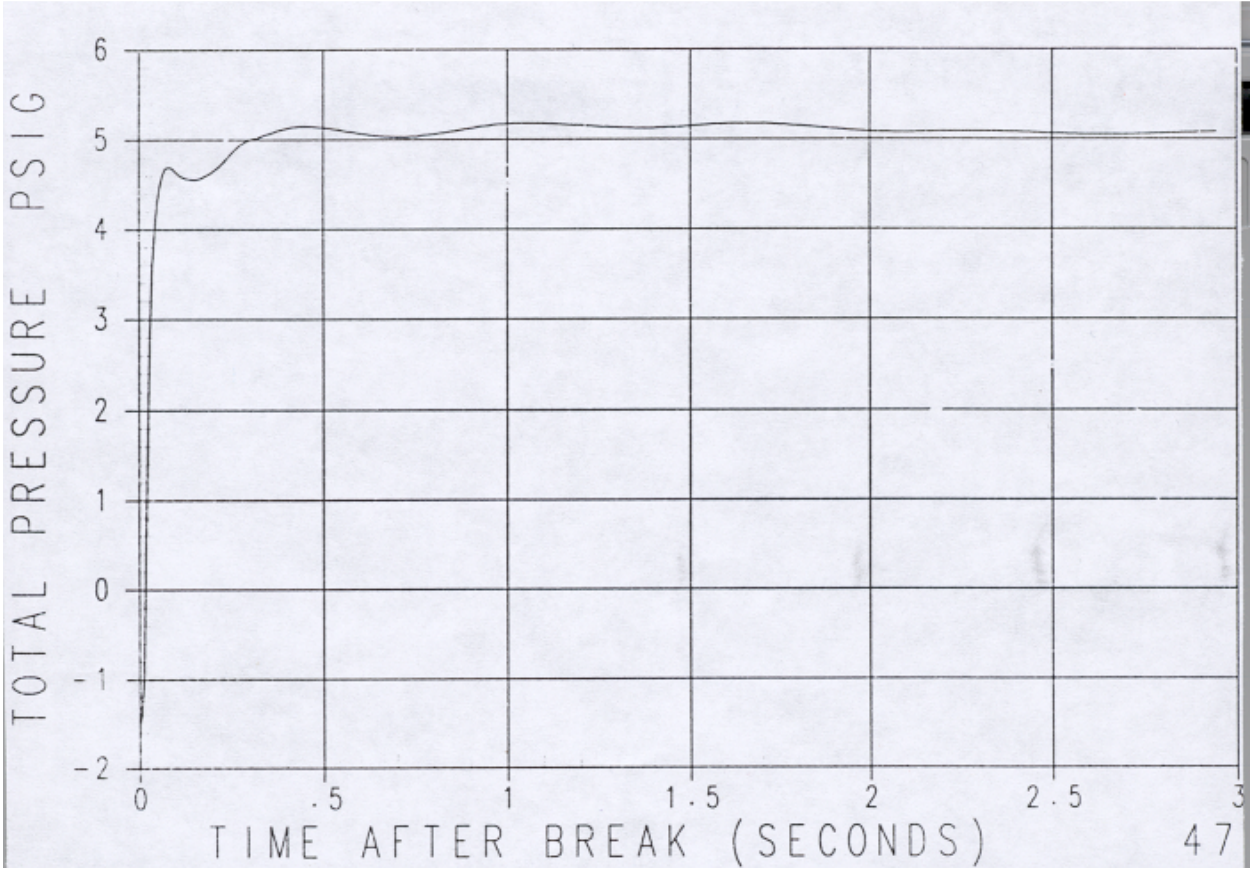
Change Description: **UCR-850**

**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**

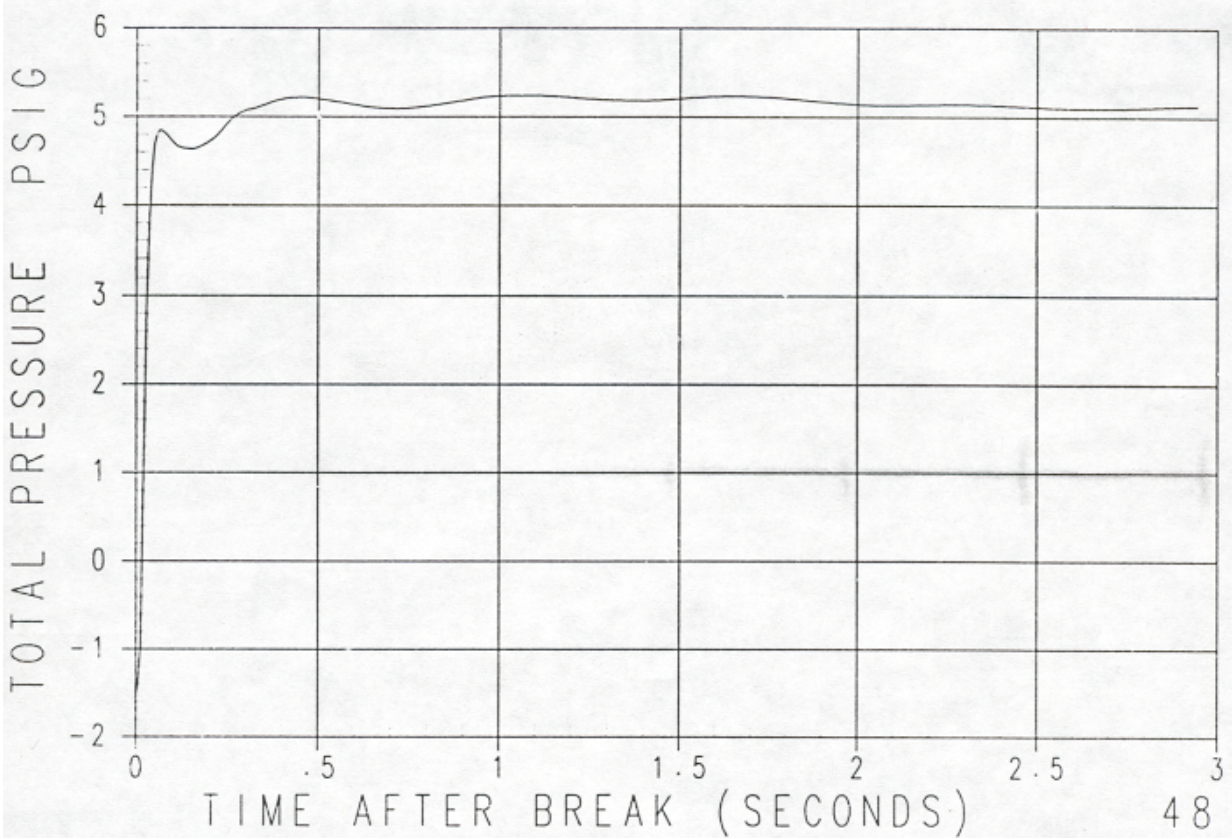
Sheet 1 of 1



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

Revision: 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 47 Spray Line Break		
	UFSAR Figure: 14.3.4-73		Sheet 1 of 1

UFSAR Revision 30.0



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

Revision: **17.1**

Change Description: **UCR-850**

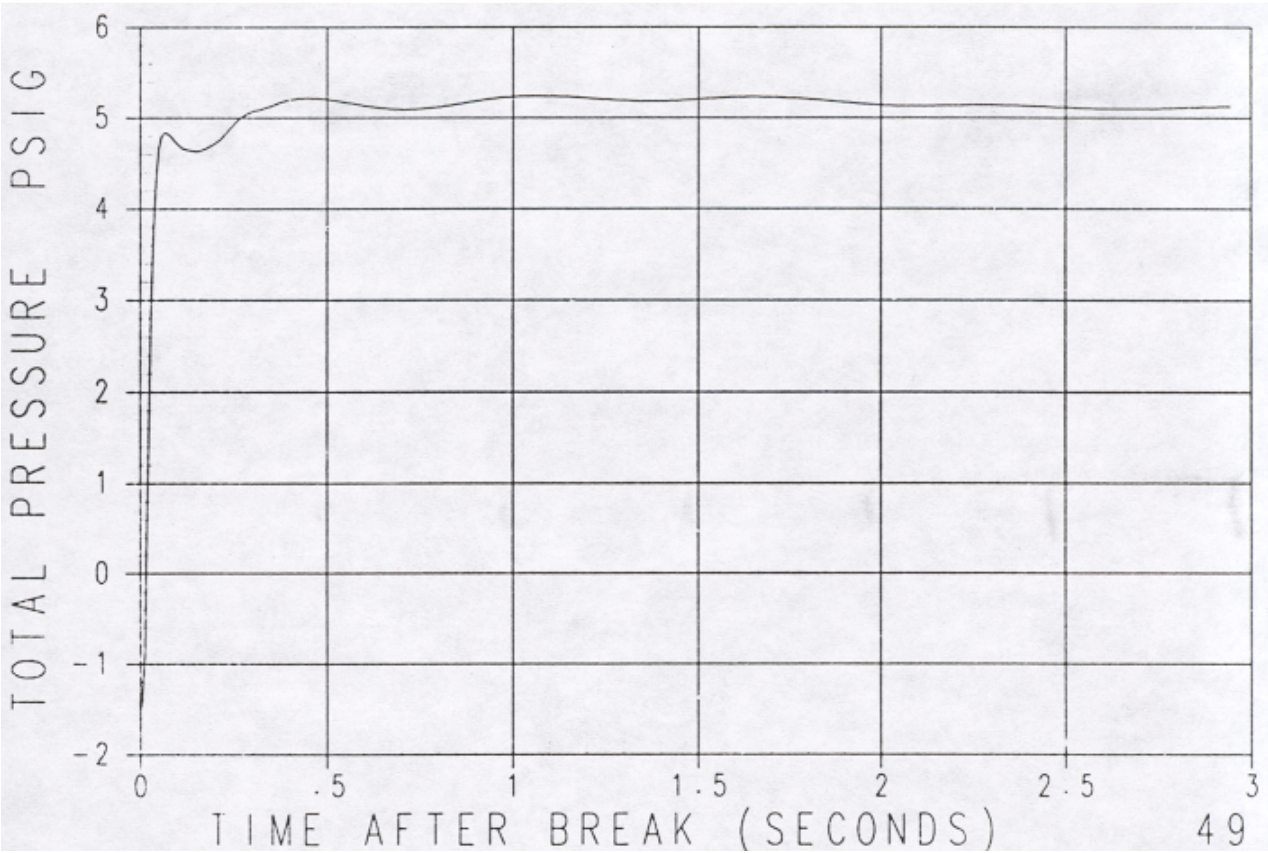
**AMERICAN ELECTRIC POWER  
COOK NUCLEAR PLANT  
NUCLEAR GENERATION GROUP  
BRIDGMAN, MICHIGAN**

Title: **Cook Unit 1 & 2  
Pressurizer Time History  
Pressurizer Enclosure Element 48  
Spray Line Break**

UFSAR Figure: **14.3.4-74**

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 49  
Spray Line Break**

UFSAR Figure: **14.3.4-75**

Sheet 1 of 1