

ArevaEPRDCPEm Resource

From: BRYAN Martin (EXT) [Martin.Bryan.ext@areva.com]
Sent: Tuesday, May 25, 2010 5:28 PM
To: Tesfaye, Getachew
Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); GUCWA Len T (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 340, FSARCh. 6, Supplement 3, Part 4 of 4
Attachments: RAI 340 Supplement 3 Response US EPR DC part 4 of 4 .pdf

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 5 questions of RAI No. 340 on March 1, 2010. RAI No. 340, Supplement 1 was submitted on April 7, 2010 and provided responses to 2 of the 4 remaining questions. In addition, on April 7, 2010, the schedule for responding to Question 06.02.01-57 was revised to July 15, 2010. On May 12, 2010, the schedule for responding to Question 06.02.01-53 was revised to May 26, 2010.

Because of the file size, AREVA NP is providing the response to Question 06.02.01-53 in four parts. The four files are designated as "RAI 340 Supplement 3 Response US EPR DC Part X of 4.pdf," where "X" is one of the four parts. The files provide a technically correct and complete response to 1 of the 2 remaining questions.

Attached is file, "RAI 340 Supplement 3 Response US EPR DC Part 4 of 4.pdf."

The following table indicates the respective pages in the response document, "RAI 340 Supplement 3 Response US EPR DC Part 4 of 4.pdf," that contain AREVA NP's responses to the subject questions.

Question #	Start Page	End Page
RAI 340 — 06.02.01-53	169	232

The schedule for a technically correct and complete response to Question 06.02.01-57 is unchanged and provided below.

Question #	Response Date
RAI 340 — 06.02.01-57	July 15, 2010

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

From: BRYAN Martin (EXT)
Sent: Tuesday, May 25, 2010 5:12 PM
To: 'Tesfaye, Getachew'
Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC);

GUCWA Len T (EXT)

Subject: Response to U.S. EPR Design Certification Application RAI No. 340, FSARCh. 6, Supplement 3, Part 3 of 4

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 5 questions of RAI No. 340 on March 1, 2010. RAI No. 340, Supplement 1 was submitted on April 7, 2010 and provided responses to 2 of the 4 remaining questions. In addition, on April 7, 2010, the schedule for responding to Question 06.02.01-57 was revised to July 15, 2010. On May 12, 2010, the schedule for responding to Question 06.02.01-53 was revised to May 26, 2010.

Because of the file size, AREVA NP is providing the response to Question 06.02.01-53 in four parts. The four files are designated as "RAI 340 Supplement 3 Response US EPR DC Part X of 4.pdf," where "X" is one of the four parts. The files provide a technically correct and complete response to 1 of the 2 remaining questions.

Attached is file, "RAI 340 Supplement 3 Response US EPR DC Part 3 of 4.pdf."

The following table indicates the respective pages in the response document, "RAI 340 Supplement 3 Response US EPR DC Part 3 of 4.pdf," that contain AREVA NP's responses to the subject questions.

Question #	Start Page	End Page
RAI 340 — 06.02.01-53	107	168

The schedule for a technically correct and complete response to Question 06.02.01-57 is unchanged and provided below.

Question #	Response Date
RAI 340 — 06.02.01-57	July 15, 2010

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

From: BRYAN Martin (EXT)

Sent: Tuesday, May 25, 2010 5:03 PM

To: 'Tefaye, Getachew'

Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); GUCWA Len T (EXT)

Subject: Response to U.S. EPR Design Certification Application RAI No. 340, FSARCh. 6, Supplement 3, Part 2 of 4

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 5 questions of RAI No. 340 on March 1, 2010. RAI No. 340, Supplement 1 was submitted on April 7, 2010 and provided responses to 2 of the 4 remaining questions. In addition, on April 7, 2010, the schedule for responding to Question 06.02.01-57 was revised to July 15, 2010. On May 12, 2010, the schedule for responding to Question 06.02.01-53 was revised to May 26, 2010.

Because of the file size, AREVA NP is providing the response to Question 06.02.01-53 in four parts. The four files are designated as "RAI 340 Supplement 3 Response US EPR DC Part X of 4.pdf," where "X" is one of the four parts. The files provide a technically correct and complete response to 1 of the 2 remaining questions.

Attached is file, "RAI 340 Supplement 3 Response US EPR DC Part 2 of 4.pdf."

The following table indicates the respective pages in the response document, "RAI 340 Supplement 3 Response US EPR DC Part 2 of 4.pdf," that contain AREVA NP's responses to the subject questions.

Question #	Start Page	End Page
RAI 340 — 06.02.01-53	54	106

The schedule for a technically correct and complete response to Question 06.02.01-57 is unchanged and provided below.

Question #	Response Date
RAI 340 — 06.02.01-57	July 15, 2010

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

From: BRYAN Martin (EXT)
Sent: Tuesday, May 25, 2010 4:55 PM
To: 'Tesfaye, Getachew'
Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); GUCWA Len T (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 340, FSARCh. 6, Supplement 3, Part 1 of 4

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 5 questions of RAI No. 340 on March 1, 2010. RAI No. 340, Supplement 1 was submitted on April 7, 2010 and provided responses to 2 of the 4 remaining questions. In addition, on April 7, 2010, the schedule for responding to Question 06.02.01-57 was revised to July 15, 2010. On May 12, 2010, the schedule for responding to Question 06.02.01-53 was revised to May 26, 2010.

Because of the file size, AREVA NP is providing the response to Question 06.02.01-53 in four parts. The four files are designated as "RAI 340 Supplement 3 Response US EPR DC Part X of 4.pdf," where "X" is one of the four parts. The files provide a technically correct and complete response to 1 of the 2 remaining questions.

Attached is file, "RAI 340 Supplement 3 Response US EPR DC Part 1 of 4.pdf."

The following table indicates the respective pages in the response document, "RAI 340 Supplement 3 Response US EPR DC Part 1 of 4.pdf," that contain AREVA NP's responses to the subject questions.

Question #	Start Page	End Page
RAI 340 — 06.02.01-53	2	53

The schedule for a technically correct and complete response to Question 06.02.01-57 is unchanged and provided below.

Question #	Response Date
RAI 340 — 06.02.01-57	July 15, 2010

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

From: BRYAN Martin (EXT)
Sent: Wednesday, May 12, 2010 4:42 PM
To: 'Tsfaye, Getachew'
Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); GUCWA Len T (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 340, FSARCh. 6, Supplement 2

Getachew,

AREVA NP Inc. (AREVA NP) provided a response to 1 of the 5 questions of RAI No. 340 on March 1, 2010. RAI No. 340, Supplement 1 was submitted on April 7, 2010 and provided responses to 2 of the 4 remaining questions. In addition, on April 7, 2010, the schedule for responding to Question 06.02.01-57 was revised to July 15, 2010.

Because the response to Question 06.02.01-53 is anticipated to include over 200 figures, an additional two weeks is needed to provide a complete and accurate response. As agreed with the NRC staff, the schedule for responding to Question 06.02.01-53 is changed to May 26, 2010. The schedule for responding to Question 06.02.01-57 is unchanged.

The schedule for a technically correct and complete response to the remaining RAI No. 340 questions is provided below.

Question #	Response Date
RAI 340 — 06.02.01-53	May 26, 2010
RAI 340 — 06.02.01-57	July 15, 2010

Sincerely,

Martin (Marty) C. Bryan
U.S. EPR Design Certification Licensing Manager
AREVA NP Inc.
Tel: (434) 832-3016
702 561-3528 cell
Martin.Bryan.ext@areva.com

From: BRYAN Martin (EXT)
Sent: Wednesday, April 07, 2010 2:55 PM
To: 'Tefaye, Getachew'
Cc: DELANO Karen V (AREVA NP INC); ROMINE Judy (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); GUCWA Len T (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 340, FSARCh. 6, Supplement 1

Getachew,

The proprietary/SUNSI and public versions of the response to RAI No. 340, Supplement 1 are submitted via AREVA NP Inc. letter, "Response to U.S. EPR Design Certification Application RAI No. 340 Supplement 1 " NRC:10:032, dated April 7, 2010. The enclosure to that letter provides a schedule to provide technically correct and complete response to 2 of the 4 remaining questions in RAI No. 340. The RAI response also contains **security-related sensitive information** that should be withheld from public disclosure in accordance with 10 CFR 2.390. In addition, an affidavit to support withholding of information that AREVA considers **proprietary** from public disclosure, per 10CFR2.390(b), is provided as an enclosure to that letter.

A public version with the **proprietary** and **security-related sensitive information** redacted is also provided as an enclosure to that letter.

The following table indicates the respective pages in the response document that contain AREVA NP's response to the subject questions:

Question #	Start Page	End Page
RAI 340 — 06.02.01-54	2	10
RAI 340 — 06.02.01-56	11	11

The schedule for a technically correct and complete response to Question 06.02.01-53 is unchanged and provided below. The response to Questions 06.02.01-57 is dependent upon the results of ongoing GSI-191 head loss testing and evaluations which will demonstrate sump strainer performance. Because of the ongoing activities, AREVA NP is not providing a response at this time. The schedule for a technically correct and complete response to Question 06.02.01-57 has been revised and is provided below.

Question #	Response Date
RAI 340 — 06.02.01-53	May 12, 2010
RAI 340 — 06.02.01-57	July 15, 2010

Sincerely,

Martin (Marty) C. Bryan
Licensing Advisory Engineer
AREVA NP Inc.
Tel: (434) 832-3016
Martin.Bryan.ext@areva.com

From: BRYAN Martin (EXT)
Sent: Monday, March 01, 2010 3:23 PM
To: 'Tefaye, Getachew'
Cc: DELANO Karen V (AREVA NP INC); BENNETT Kathy A (OFR) (AREVA NP INC); ROMINE Judy (AREVA NP INC); GUCWA Len T (EXT)
Subject: Response to U.S. EPR Design Certification Application RAI No. 340, FSARCh. 6

Getachew,

Attached please find AREVA NP Inc.'s response to the subject request for additional information (RAI). The attached file, "RAI 340 Response US EPR DC.pdf" provides a technically correct and complete response to 1 of the 5 questions.

The following table indicates the respective pages in the response document, "RAI 340 Response US EPR DC.pdf," that contains AREVA NP's response to the subject questions.

Question #	Start Page	End Page
RAI 340 — 06.02.01-53	2	2
RAI 340 — 06.02.01-54	3	3
RAI 340 — 06.02.01-55	4	11
RAI 340 — 06.02.01-56	12	12
RAI 340 — 06.02.01-57	13	13

A complete answer is not provided for 4 of the 5 questions. The schedule for a technically correct and complete response to these questions is provided below.

Question #	Response Date
RAI 340 — 06.02.01-53	May 12, 2010
RAI 340 — 06.02.01-54	April 7, 2010
RAI 340 — 06.02.01-56	April 7, 2010
RAI 340 — 06.02.01-57	April 7, 2010

Sincerely,

Martin (Marty) C. Bryan
Licensing Advisory Engineer
AREVA NP Inc.
Tel: (434) 832-3016
Martin.Bryan@areva.com

From: Tesfaye, Getachew [mailto:Getachew.Tesfaye@nrc.gov]

Sent: Friday, January 29, 2010 10:23 AM

To: ZZ-DL-A-USEPR-DL

Cc: Jensen, Walton; Jackson, Christopher; Snodderly, Michael; Carneal, Jason; Colaccino, Joseph; ArevaEPRDCPEm Resource

Subject: U.S. EPR Design Certification Application RAI No. 340 (4094), FSARCh. 6

Attached please find the subject requests for additional information (RAI). A draft of the RAI was provided to you on December 6, 2009, and discussed with your staff on January 20, 2010. Draft RAI Questions 06.02.01-53 was modified as a result of that discussion. The schedule we have established for review of your application assumes technically correct and complete responses within 30 days of receipt of RAIs. For any RAIs that cannot be answered within 30 days, it is expected that a date for receipt of this information will be provided to the staff within the 30 day period so that the staff can assess how this information will impact the published schedule.

Thanks,
Getachew Tesfaye
Sr. Project Manager

NRO/DNRL/NARP
(301) 415-3361

Hearing Identifier: AREVA_EPR_DC_RAIs
Email Number: 1458

Mail Envelope Properties (BC417D9255991046A37DD56CF597DB7106445255)

Subject: Response to U.S. EPR Design Certification Application RAI No. 340, FSARCh. 6, Supplement 3, Part 4 of 4
Sent Date: 5/25/2010 5:27:55 PM
Received Date: 5/25/2010 5:28:22 PM
From: BRYAN Martin (EXT)

Created By: Martin.Bryan.ext@areva.com

Recipients:

"DELANO Karen V (AREVA NP INC)" <Karen.Delano@areva.com>

Tracking Status: None

"ROMINE Judy (AREVA NP INC)" <Judy.Romine@areva.com>

Tracking Status: None

"BENNETT Kathy A (OFR) (AREVA NP INC)" <Kathy.Bennett@areva.com>

Tracking Status: None

"GUCWA Len T (EXT)" <Len.Gucwa.ext@areva.com>

Tracking Status: None

"Tsfaye, Getachew" <Getachew.Tsfaye@nrc.gov>

Tracking Status: None

Post Office: AUSLYNCMX02.adom.ad.corp

Files	Size	Date & Time
MESSAGE	13863	5/25/2010 5:28:22 PM
RAI 340 Supplement 3 Response US EPR DC part 4 of 4 .pdf		6821344

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

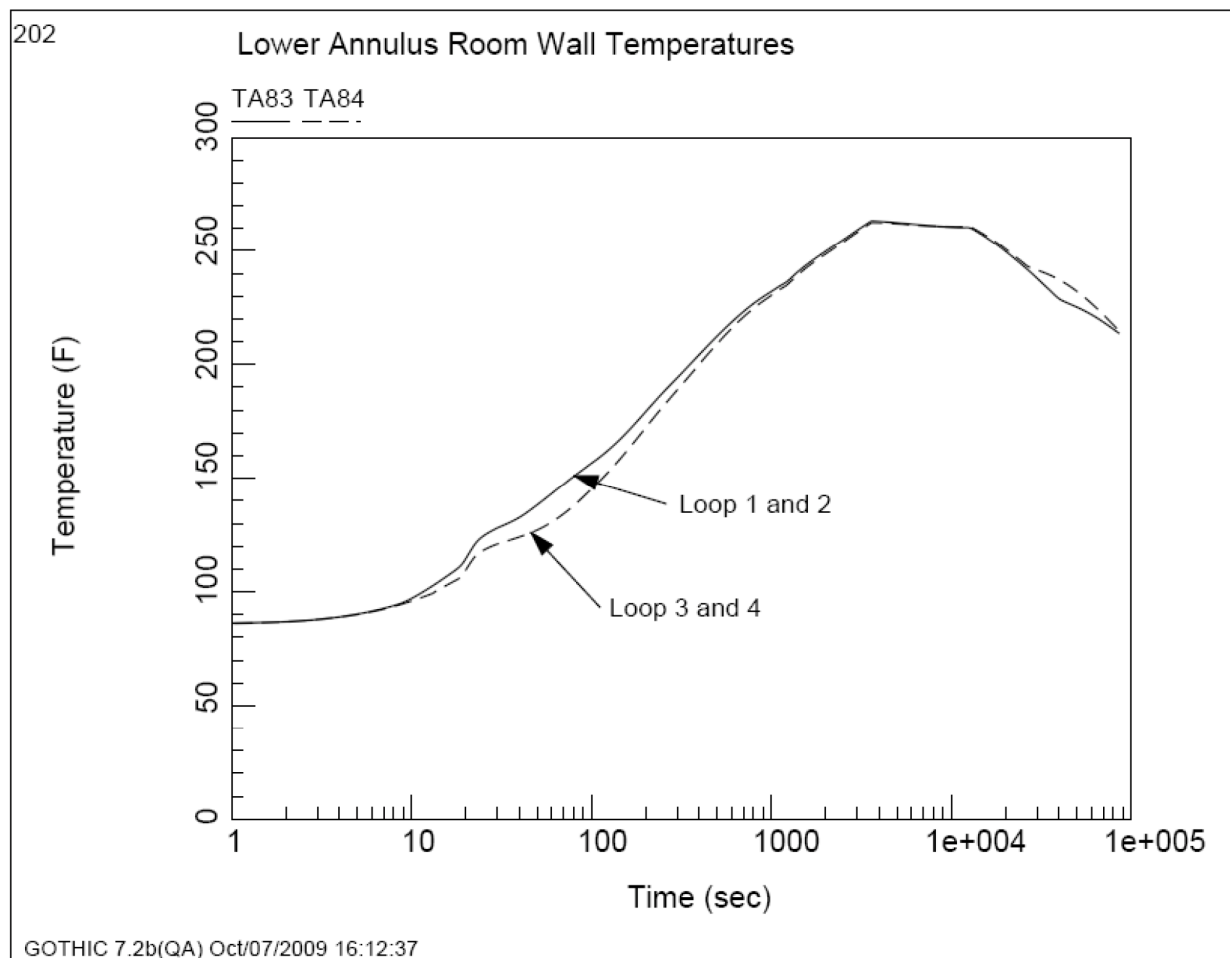
Figure 06.02.01-53-165—Lower Annulus Room Wall Surface Temperatures

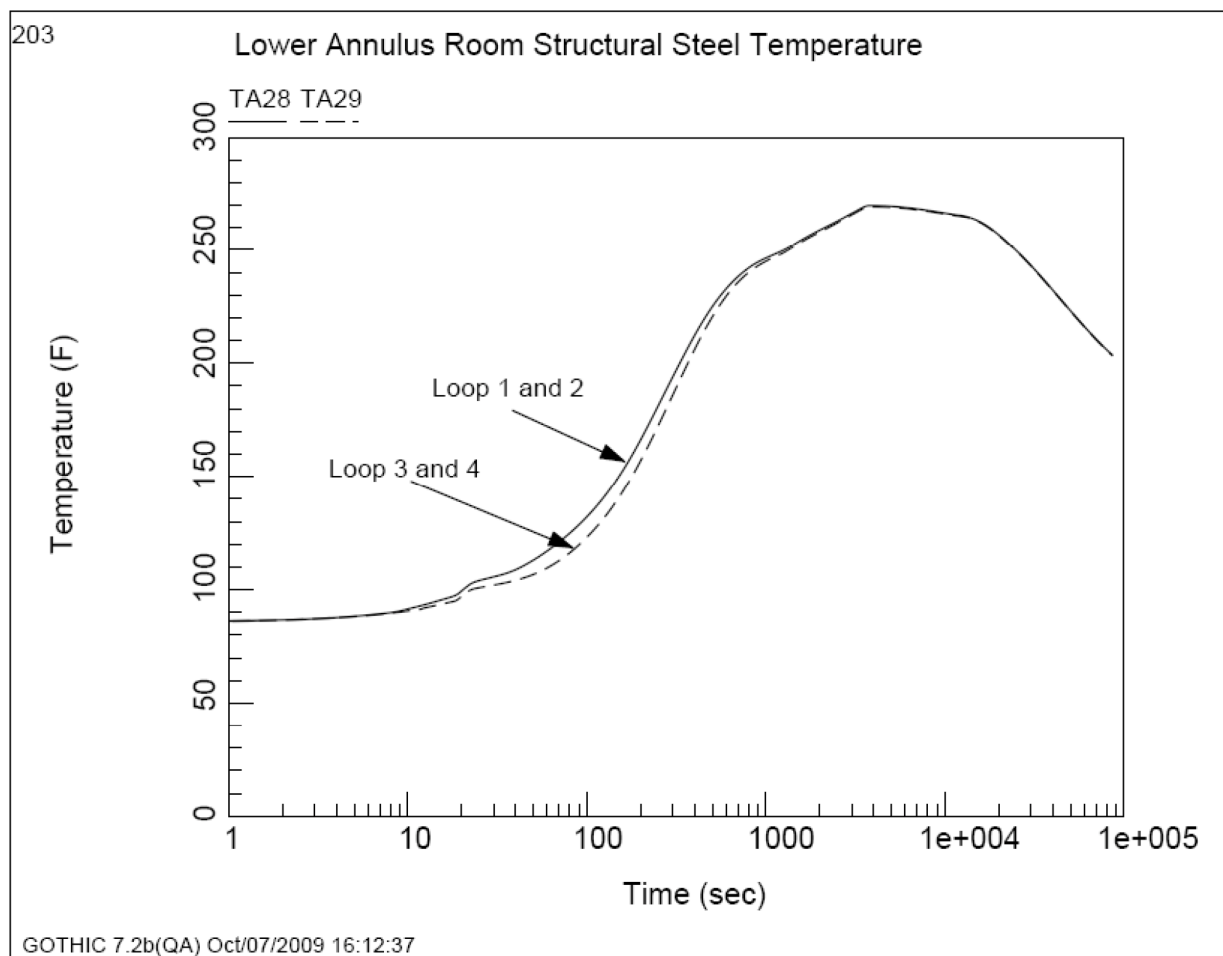
Figure 06.02.01-53-166—Lower Annulus Room Structural Steel Surface Temperatures

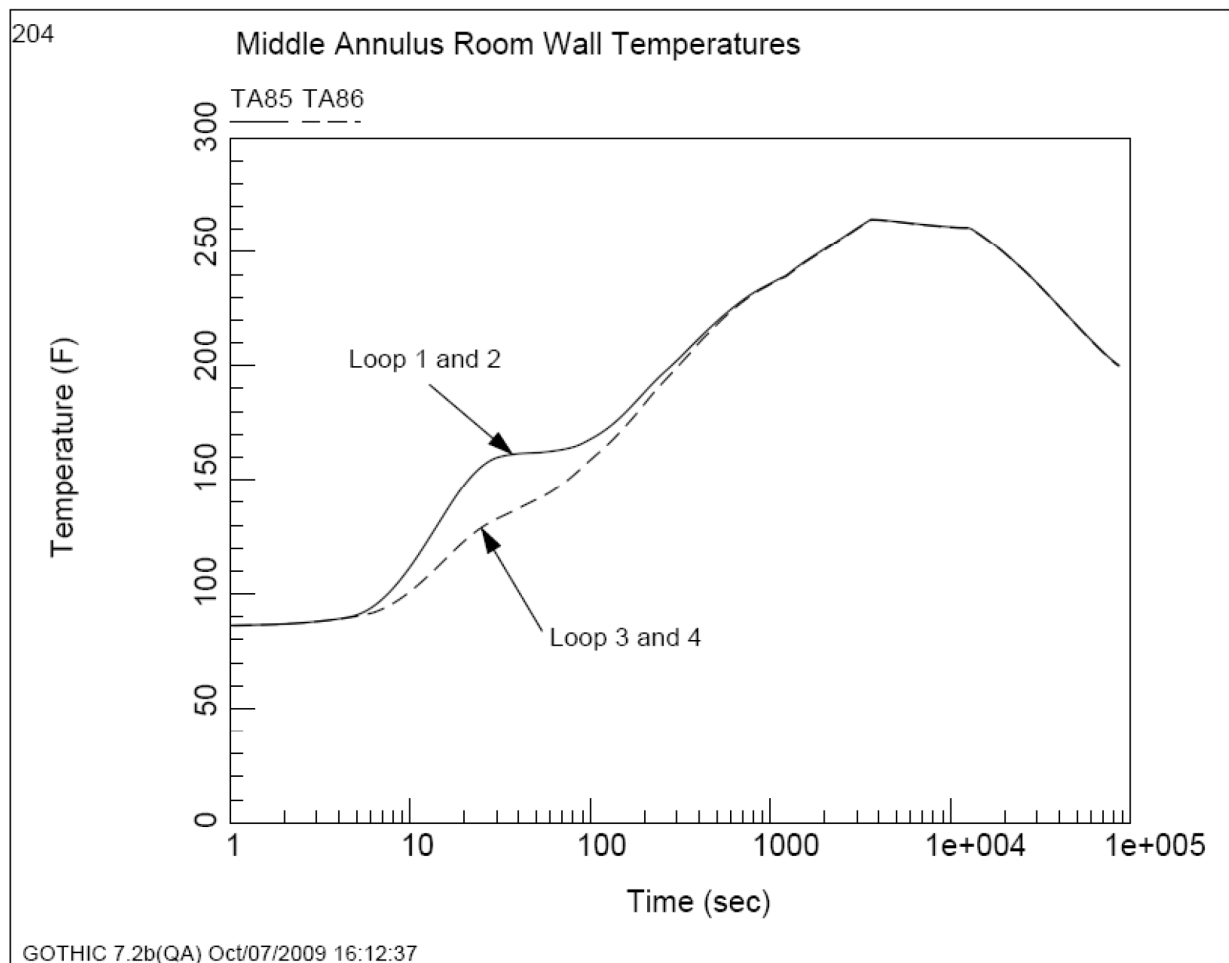
Figure 06.02.01-53-167—Middle Annulus Room Wall Surface Temperatures

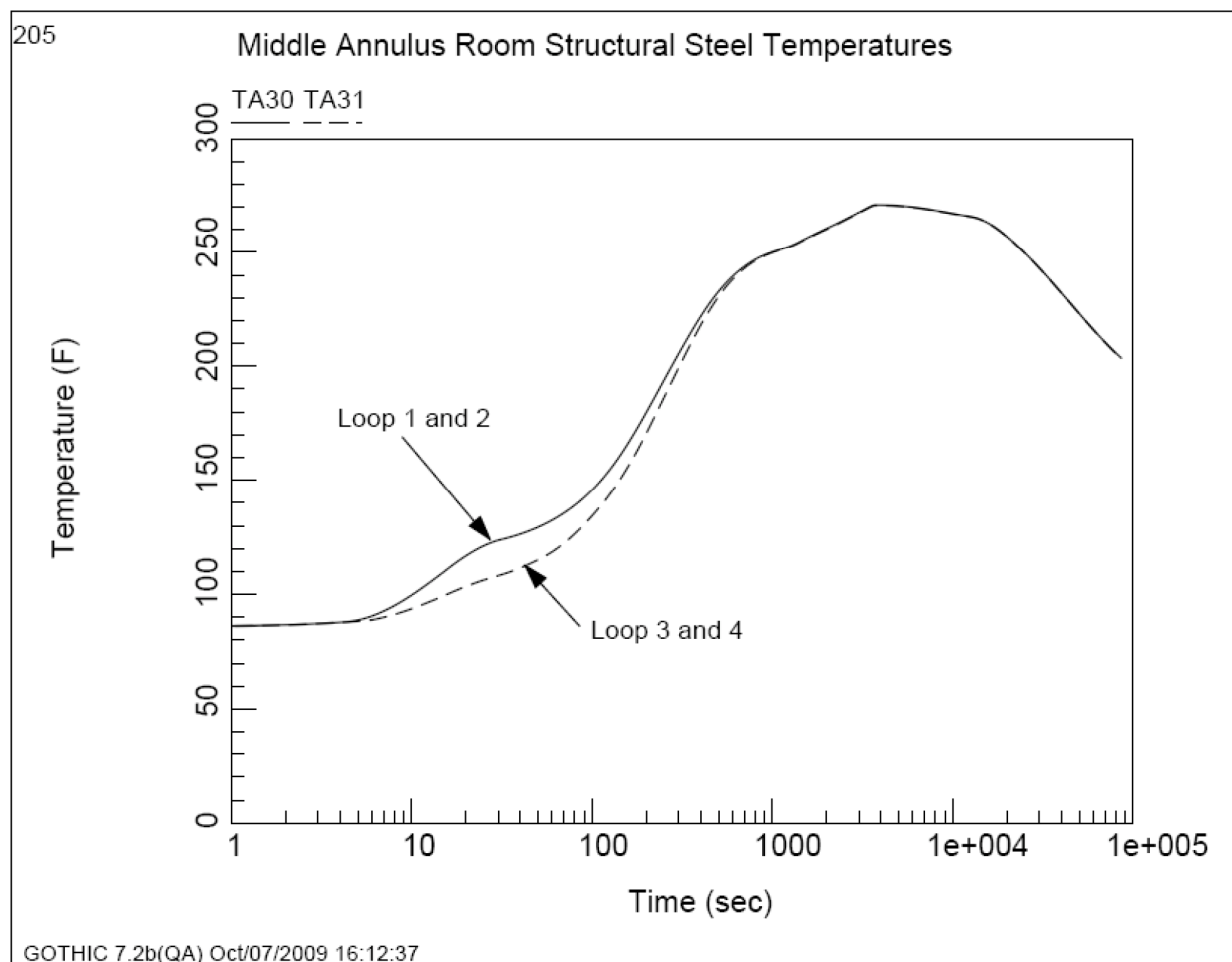
Figure 06.02.01-53-168—Middle Annulus Room Structural Steel Surface Temperatures

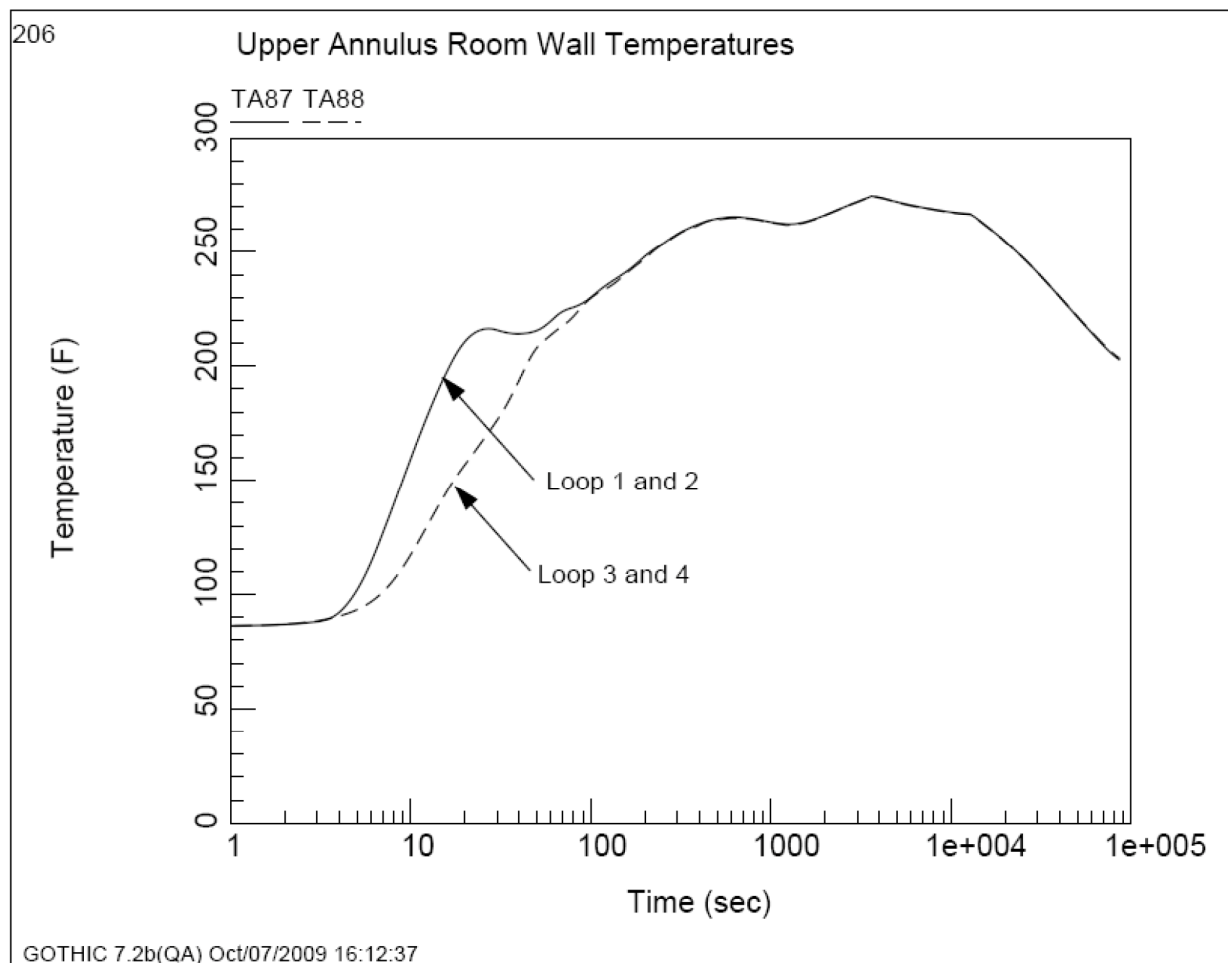
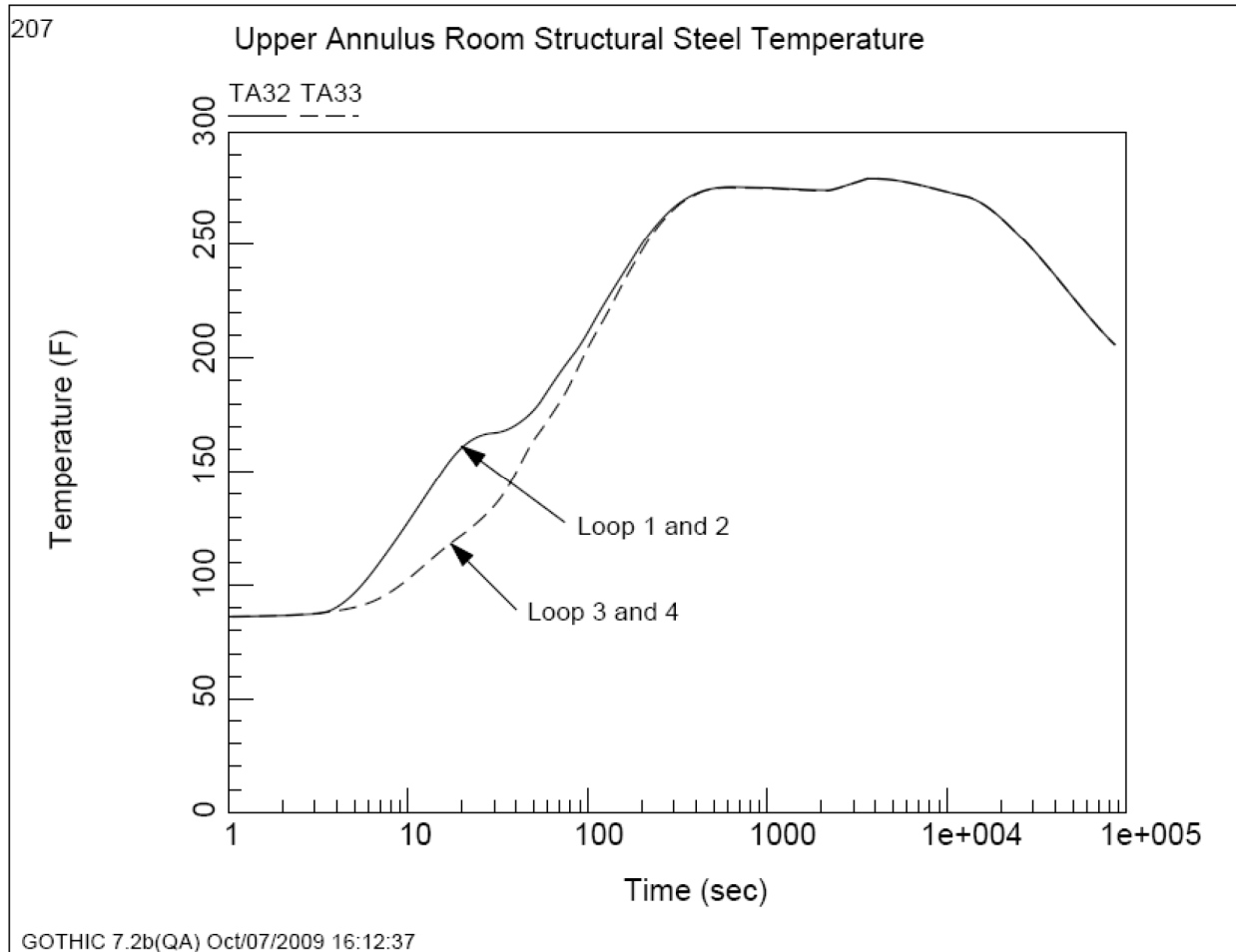
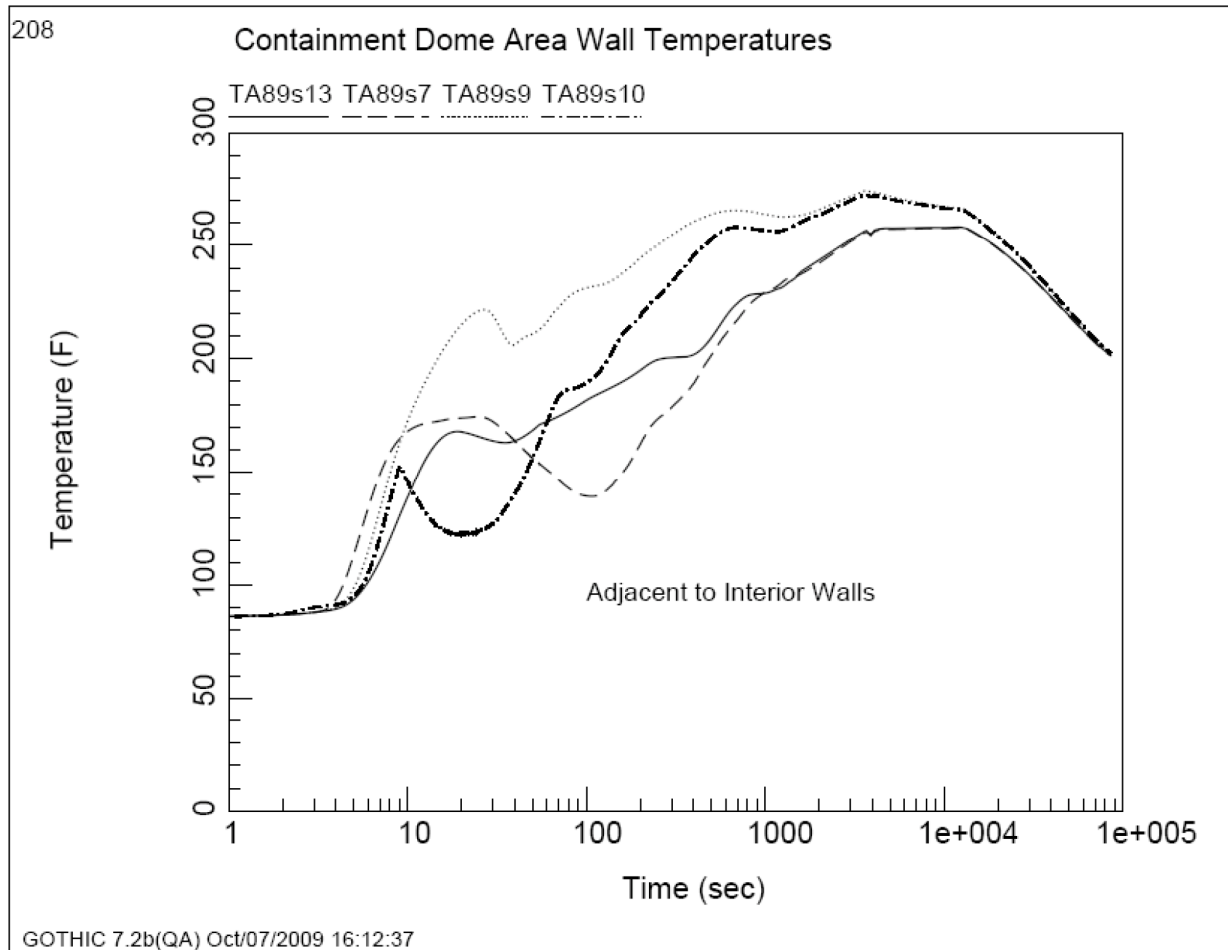
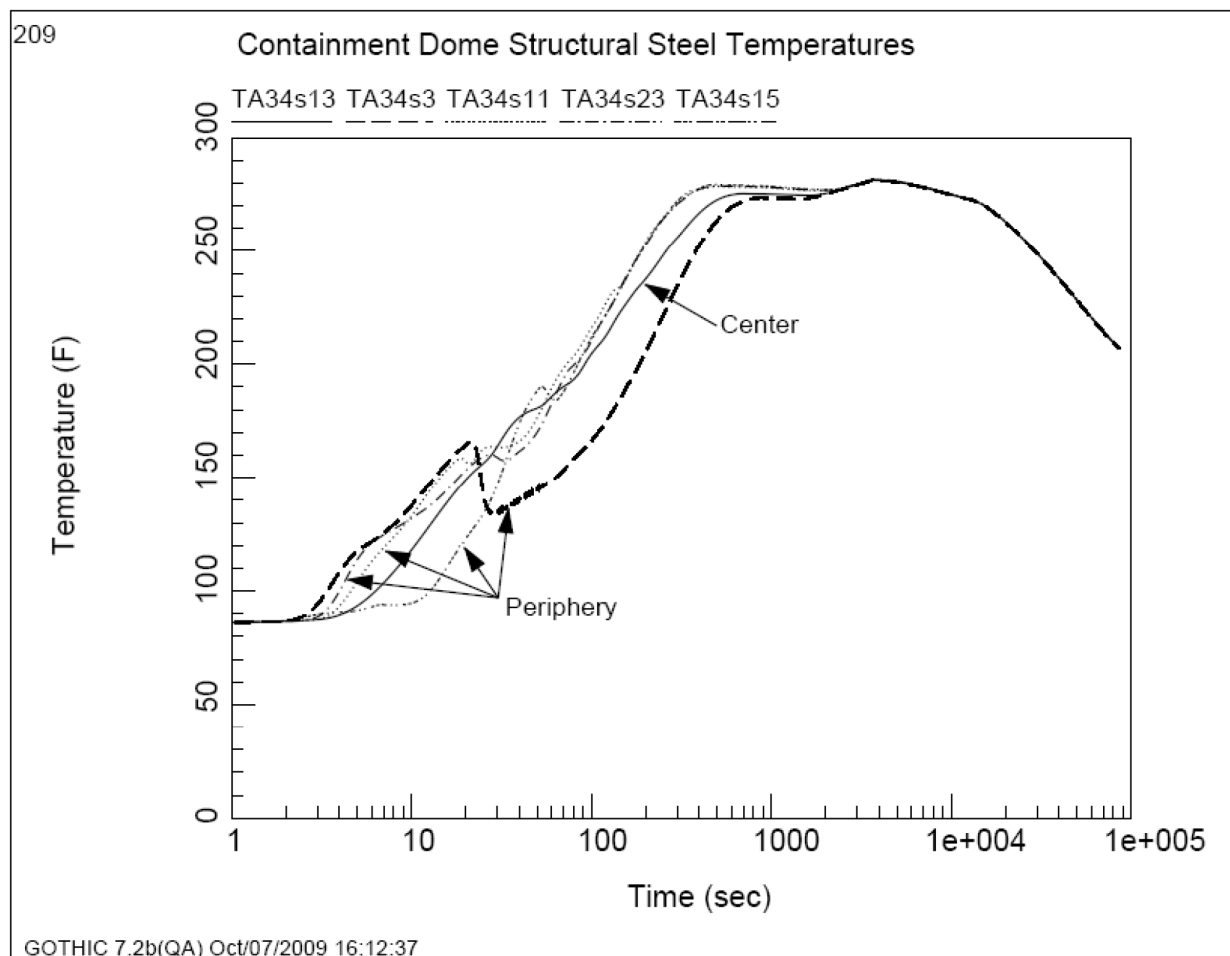
Figure 06.02.01-53-169—Upper Annulus Room Wall Surface Temperatures

Figure 06.02.01-53-170—Upper Annulus Room Structural Steel Surface Temperatures

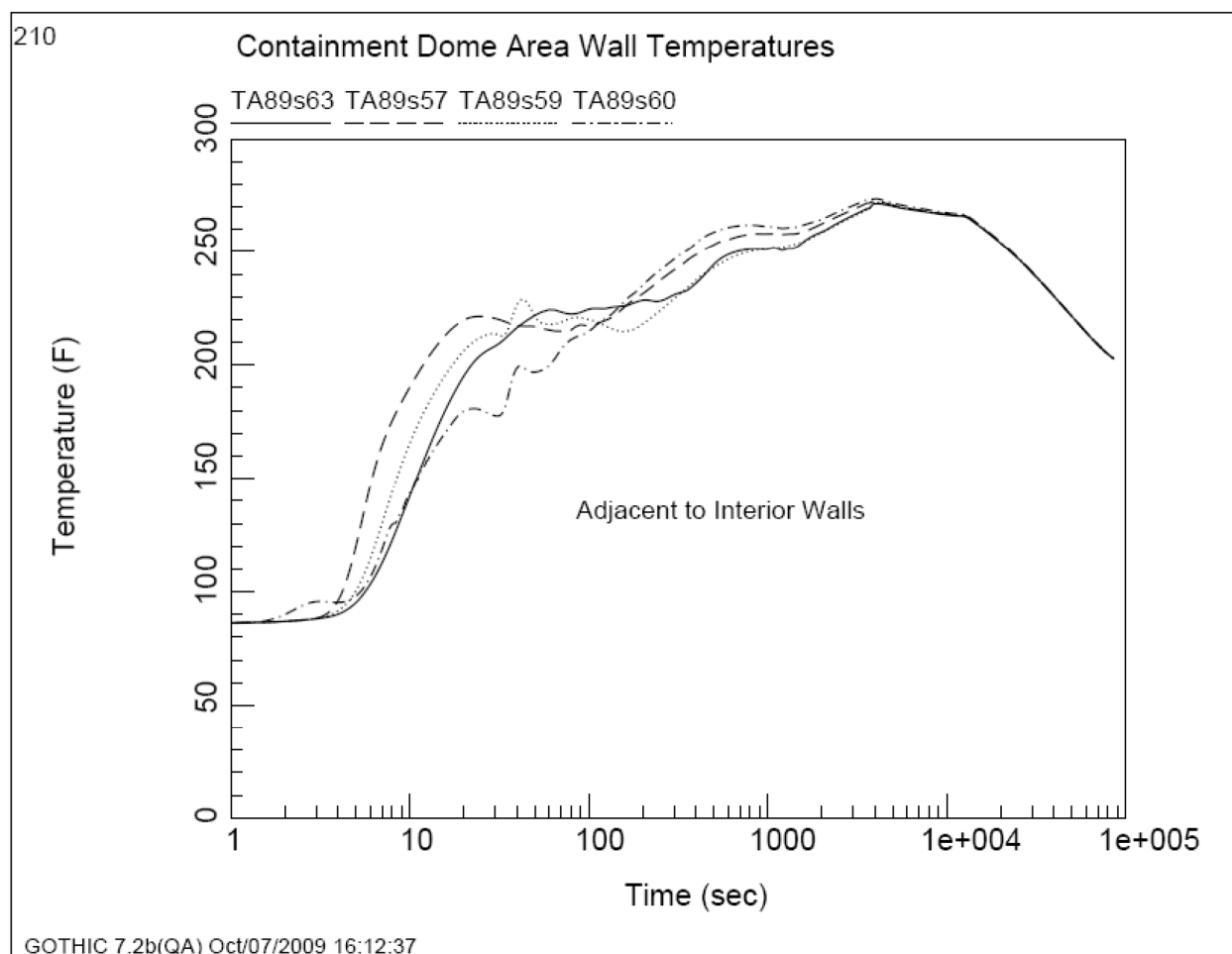
**Figure 06.02.01-53-171—Containment Dome Interior Wall Surface
Temperatures from the 63.98 ft to the 71.53 ft Elevation**



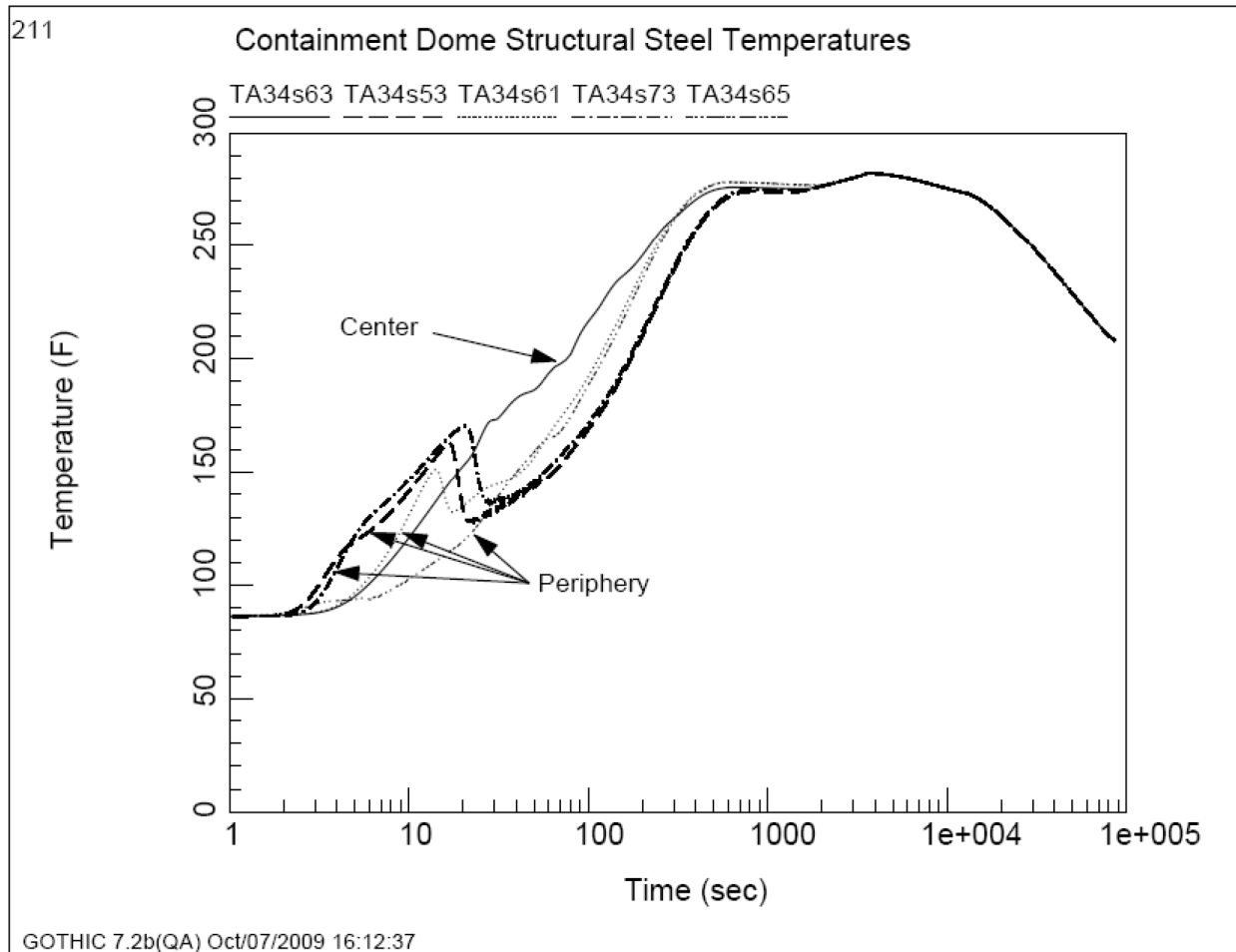
**Figure 06.02.01-53-172—Containment Dome Structural Steel Surface
Temperatures from the 63.98 ft to the 71.53 ft Elevation**

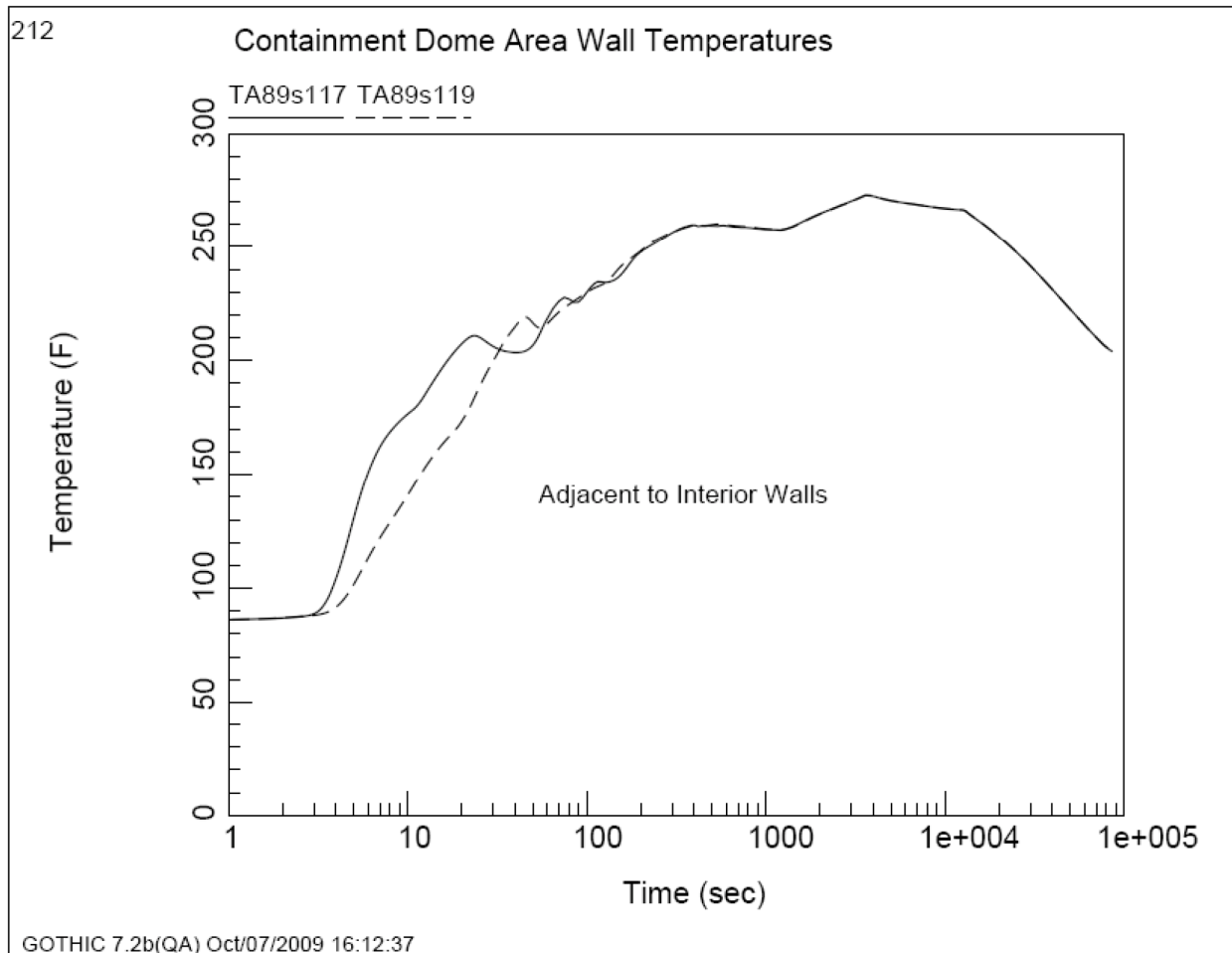


**Figure 06.02.01-53-173—Containment Dome Interior Wall Surface
Temperatures from the 79.97 ft to the 86.29 ft Elevation**

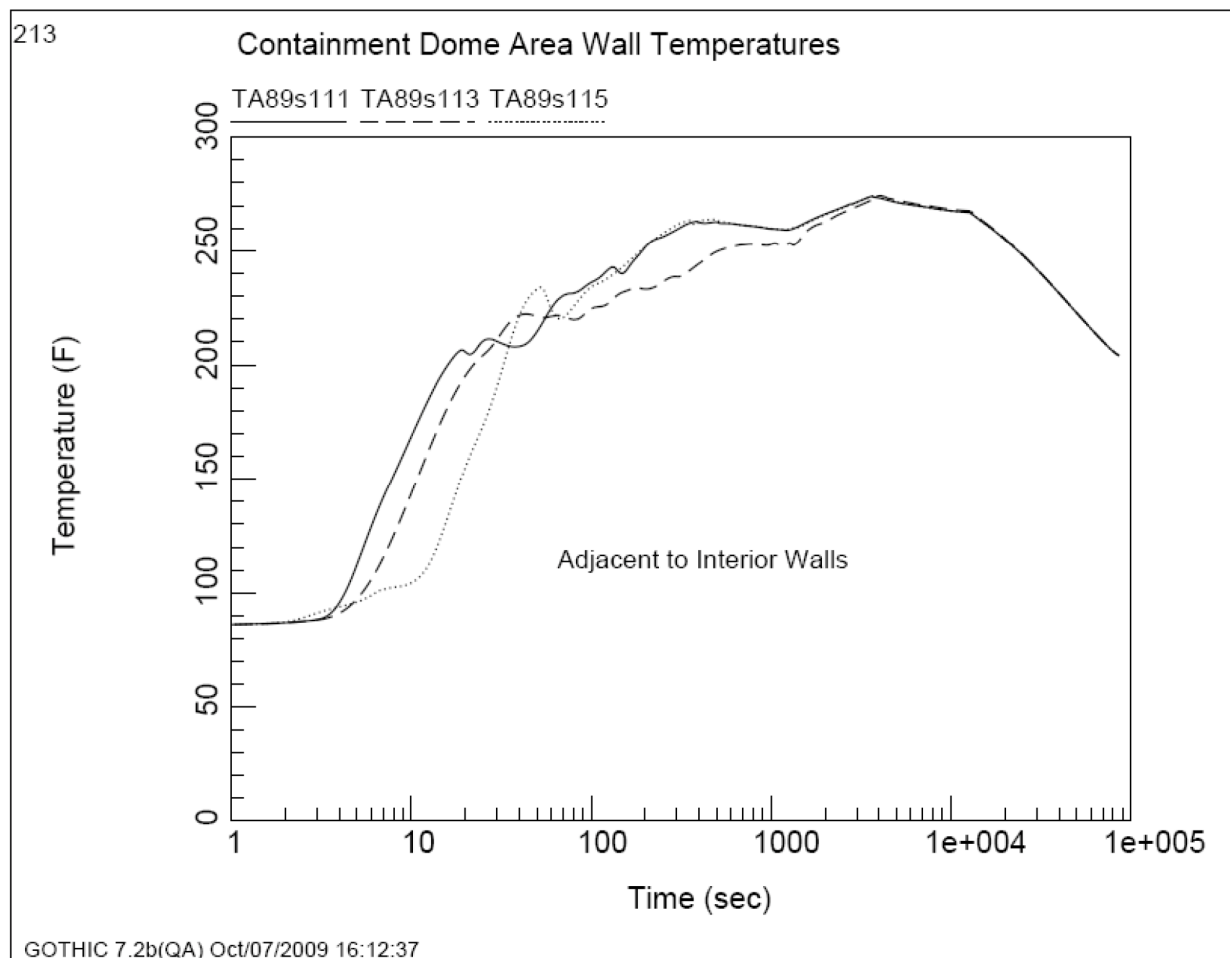


**Figure 06.02.01-53-174—Containment Dome Structural Steel Surface
Temperatures from the 79.07 ft to the 86.29 ft Elevation**

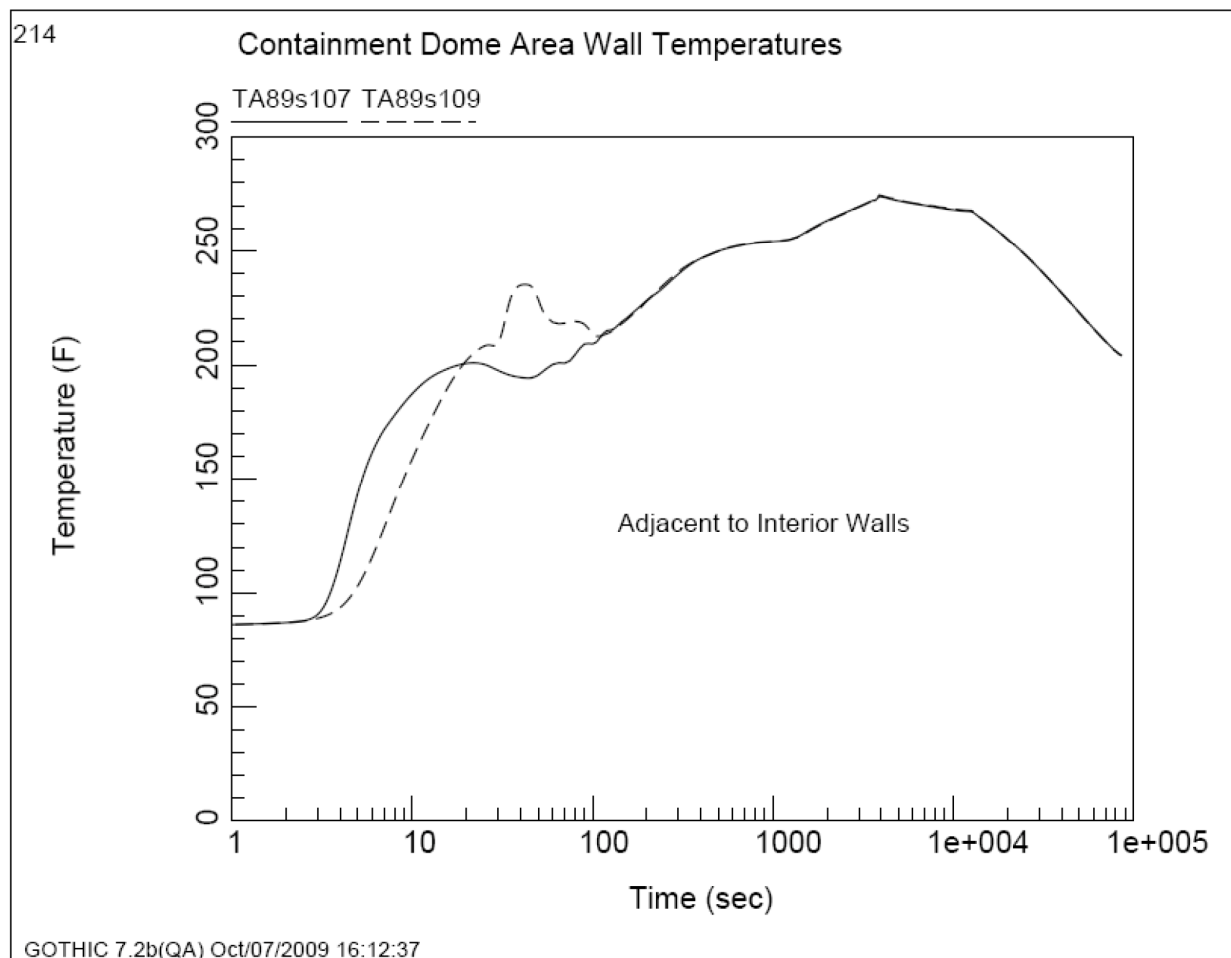


**Figure 06.02.01-53-175—Containment Dome Interior Wall Surface
Temperatures from the 93.51 ft to the 98.59 ft Elevation**

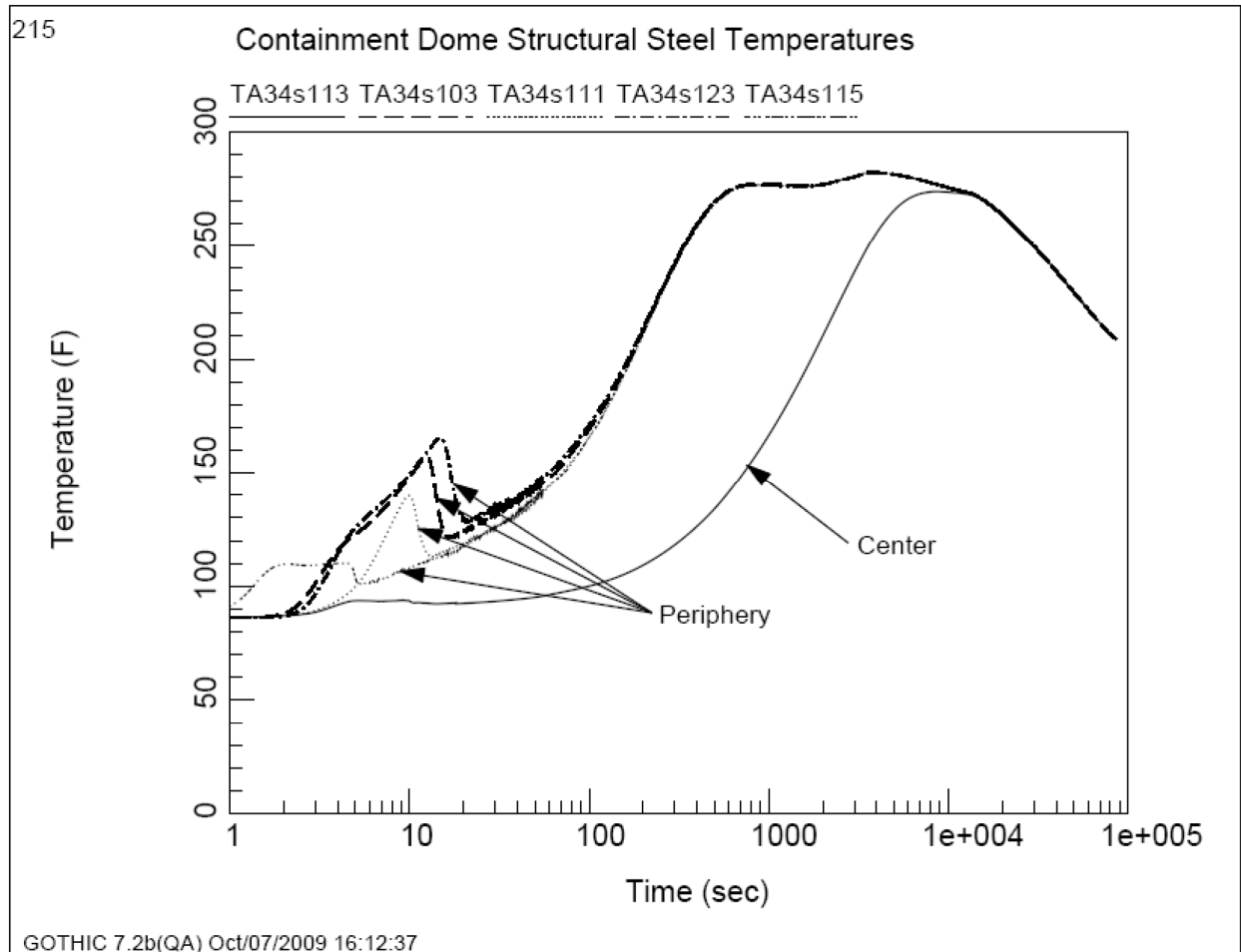
**Figure 06.02.01-53-176—Containment Dome Structural Steel Surface
Temperatures from the 93.51 ft to the 98.59 ft Elevation**



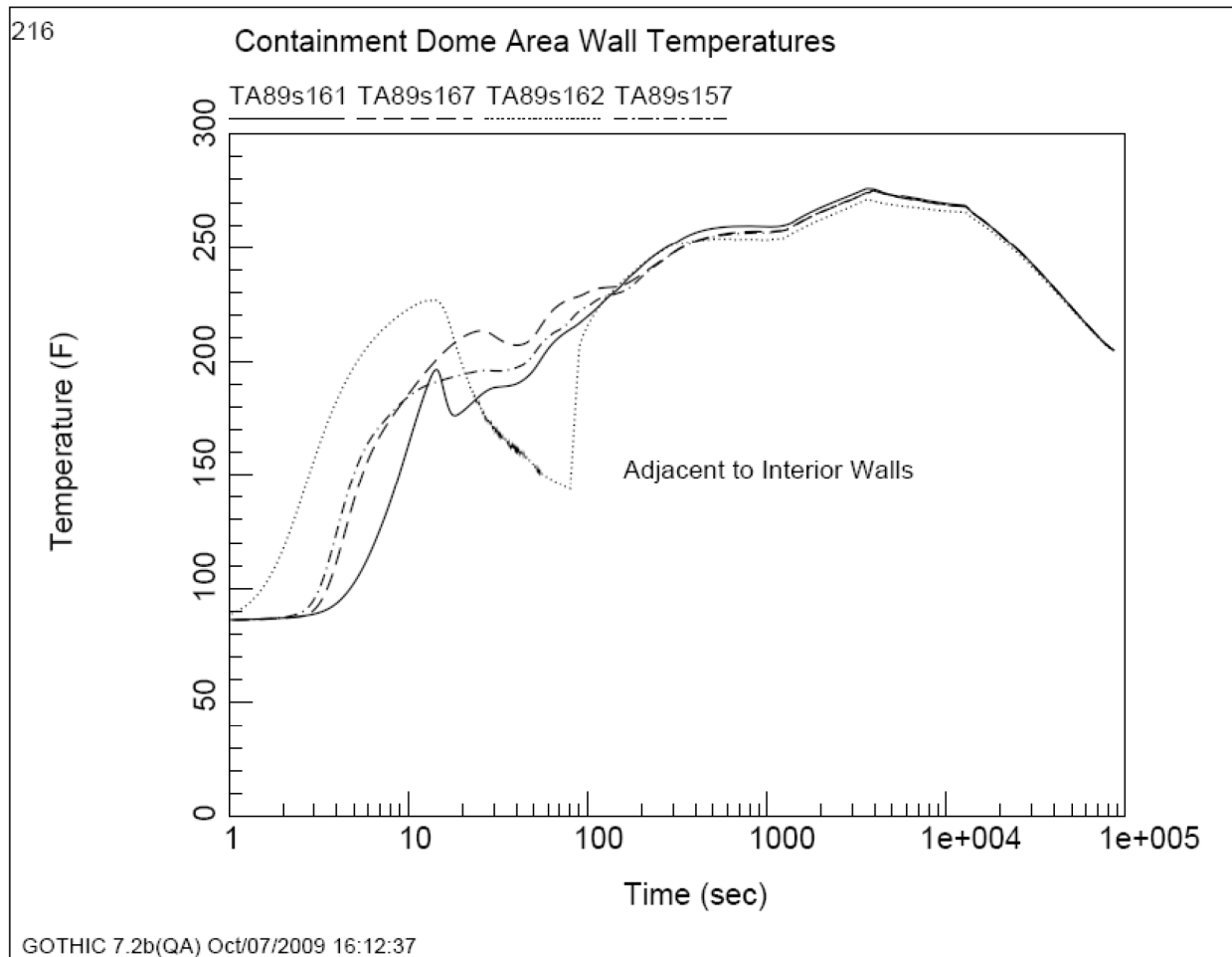
**Figure 06.02.01-53-177—Containment Dome Interior Wall Surface
Temperatures from the 93.51 ft to the 98.59 ft Elevation**



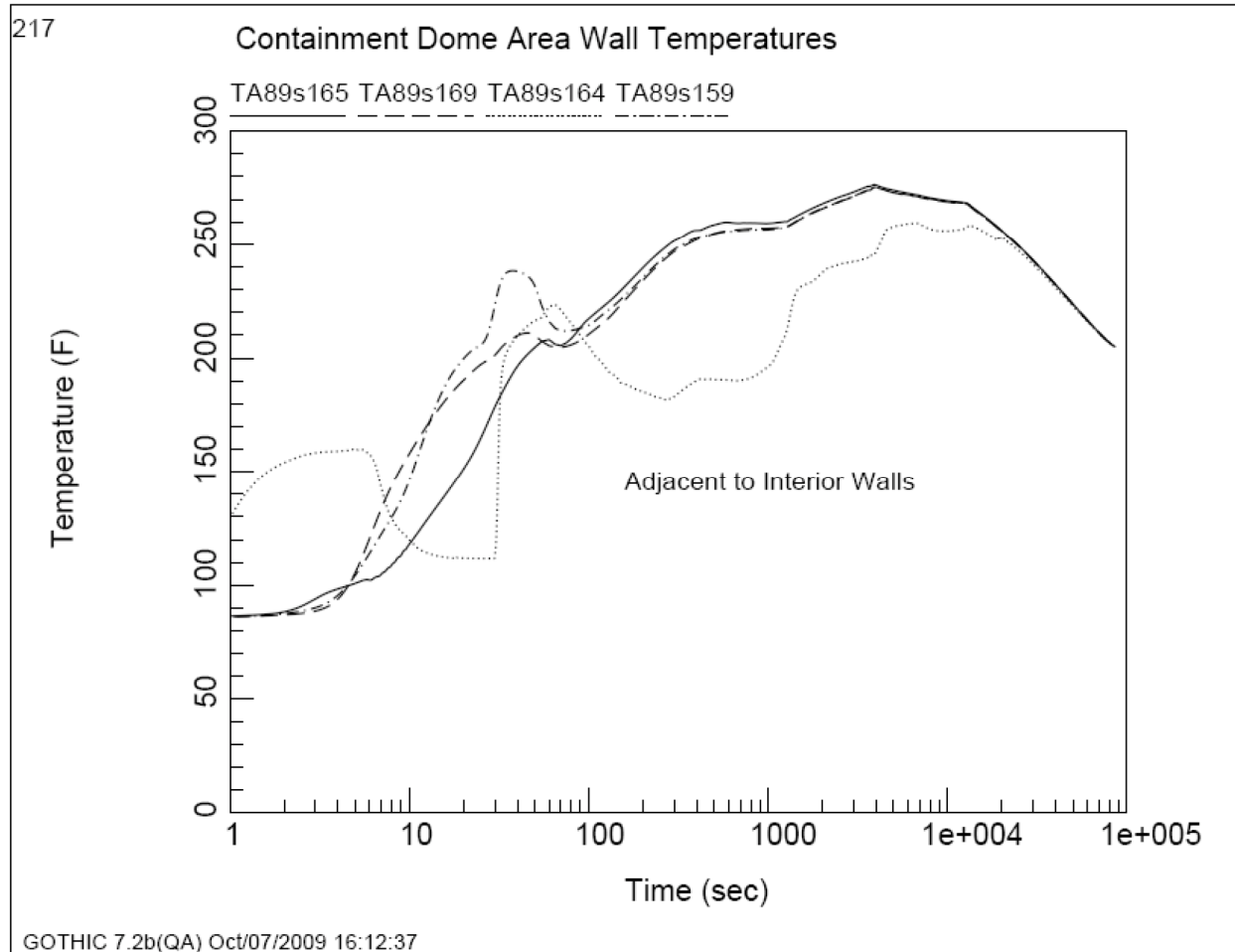
**Figure 06.02.01-53-178—Containment Dome Structural Steel Surface
Temperatures from the 93.51 ft to the 98.59 ft Elevation**



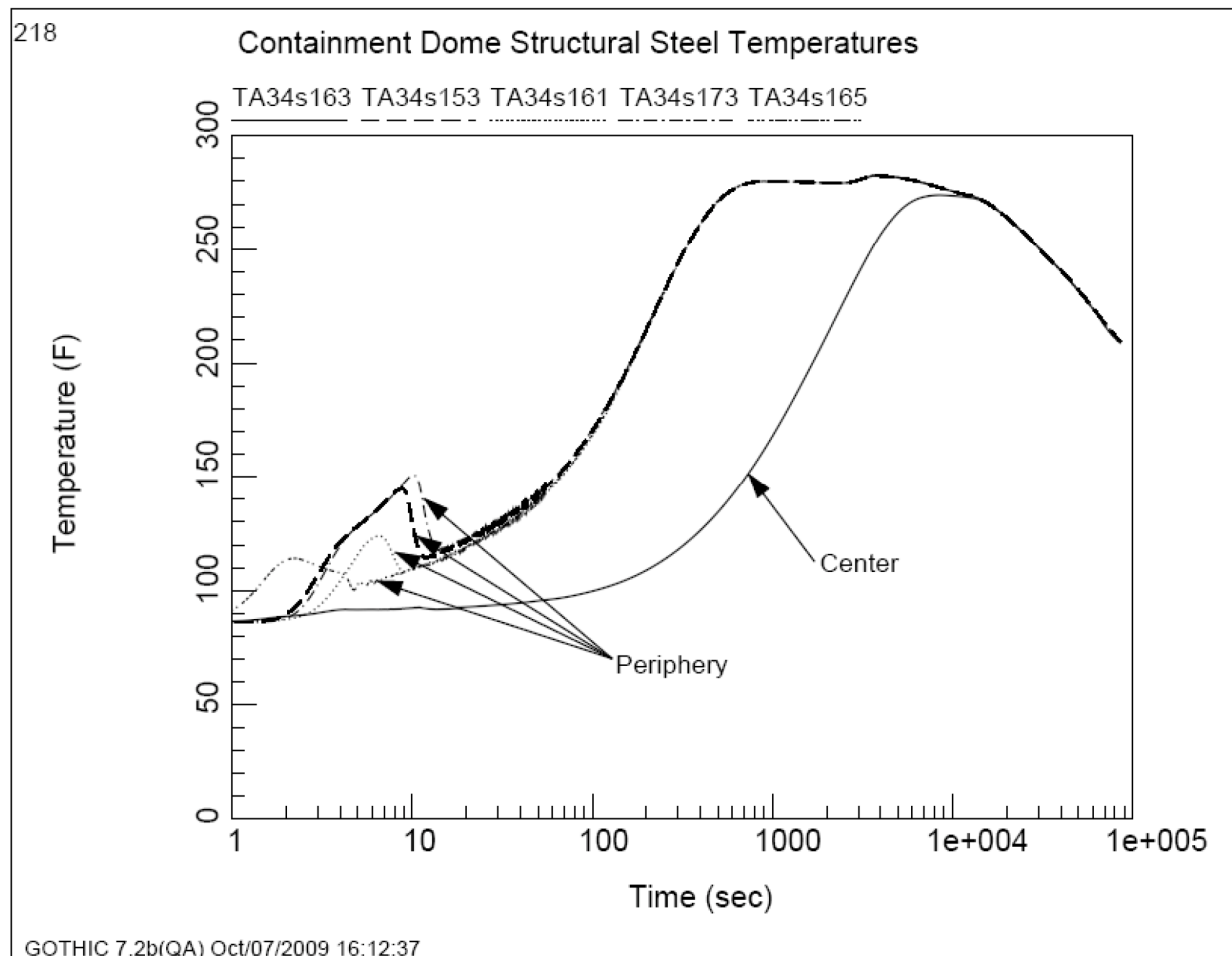
**Figure 06.02.01-53-179—Containment Dome Interior Wall Surface
Temperatures from the 103.68 ft to the 108.76 ft Elevation**



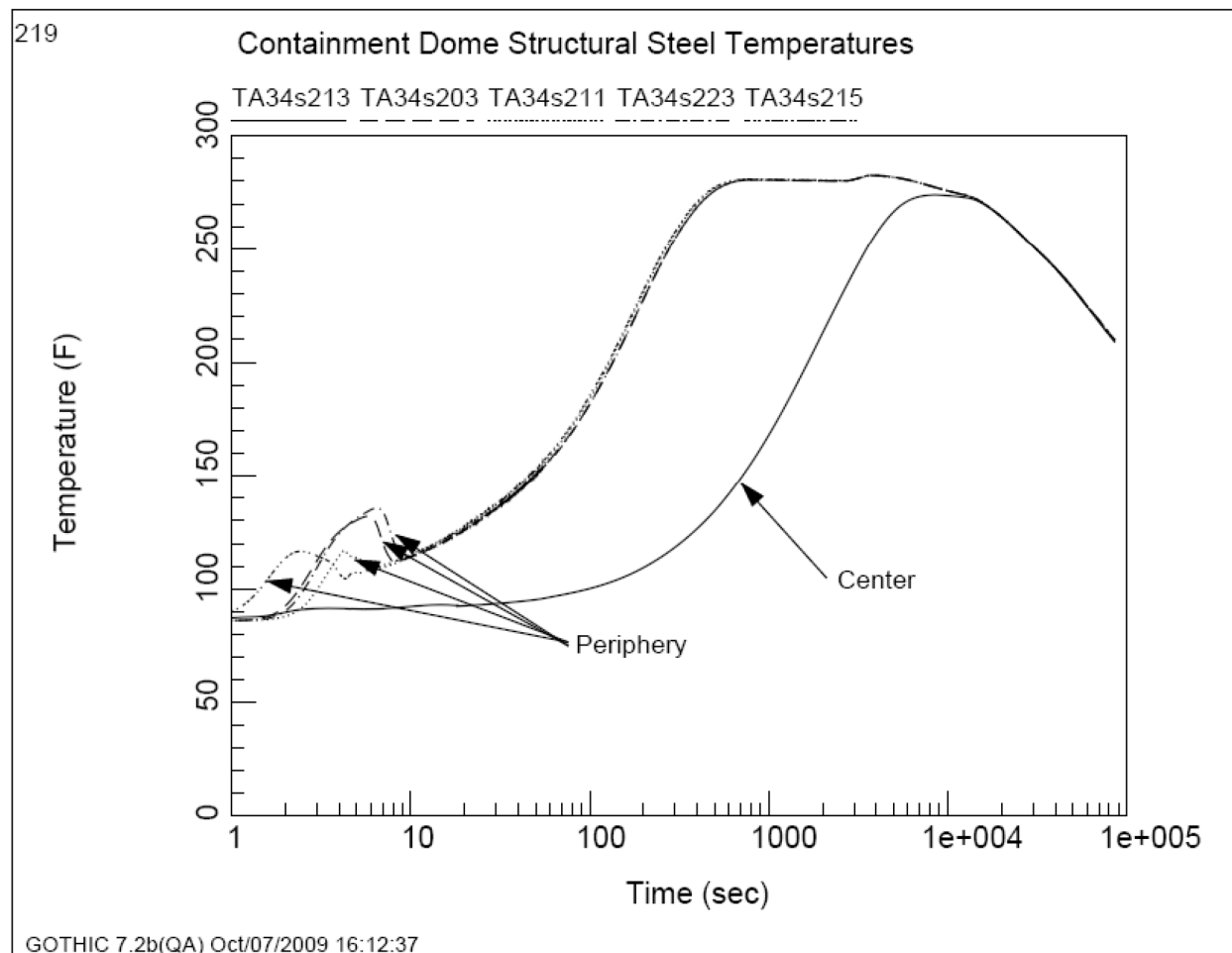
**Figure 06.02.01-53-180—Containment Dome Interior Wall Surface
Temperatures from the 103.68 ft to the 108.76 ft Elevation**



**Figure 06.02.01-53-181—Containment Dome Structural Steel Surface
Temperatures from the 103.68 ft to the 108.76 ft Elevation**



**Figure 06.02.01-53-182—Containment Dome Structural Steel Surface
Temperatures from the 113.85 ft to the 119.90 ft Elevation**



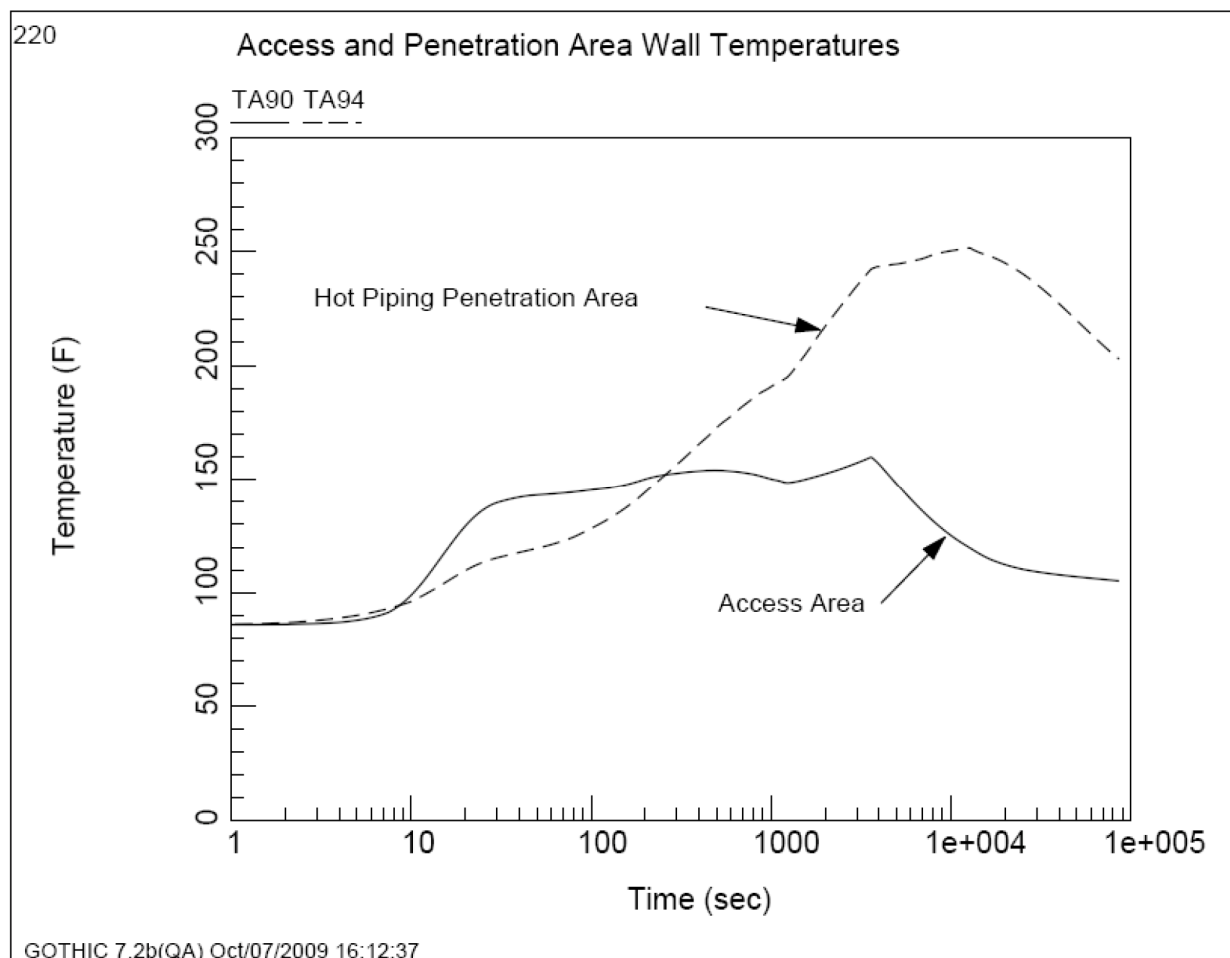
**Figure 06.02.01-53-183—Wall Surface Temperatures in the Access Room
and the Hot Piping Penetration Room**

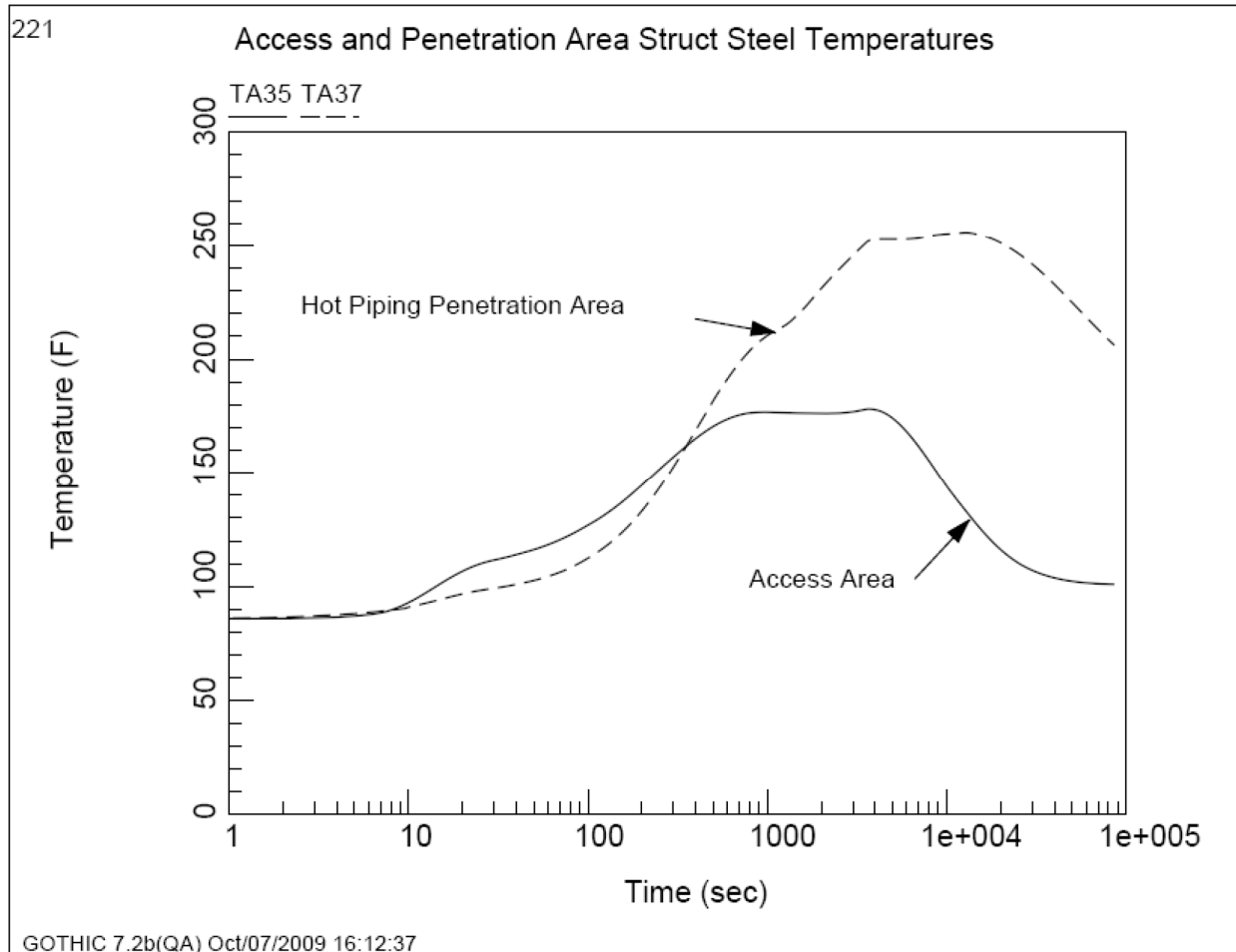
Figure 06.02.01-53-184—Structural Steel Surface Temperatures in the Access Room and the Hot Piping Penetration Room

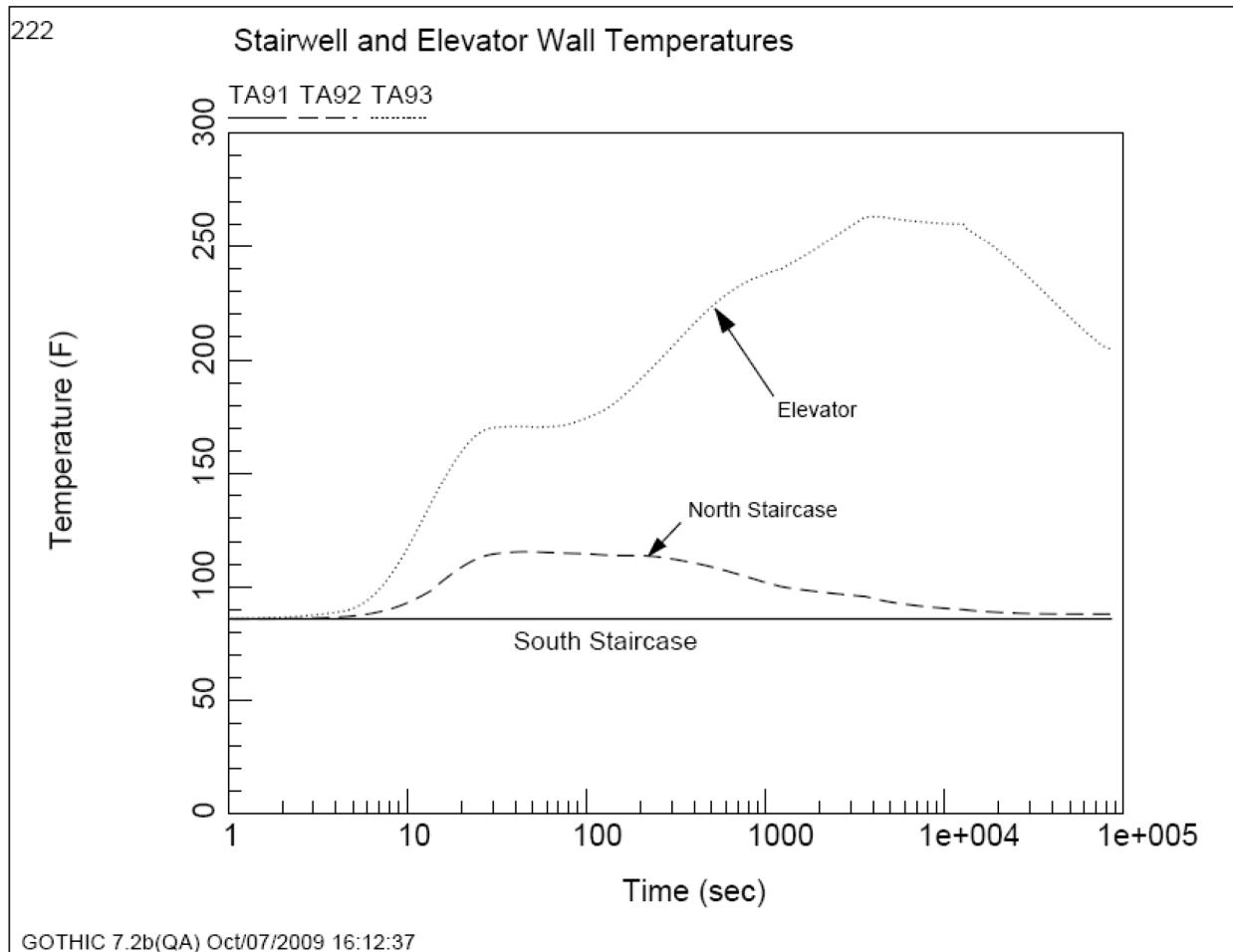
Figure 06.02.01-53-185—Wall Surface Temperatures in the North and South Staircases and the Elevator

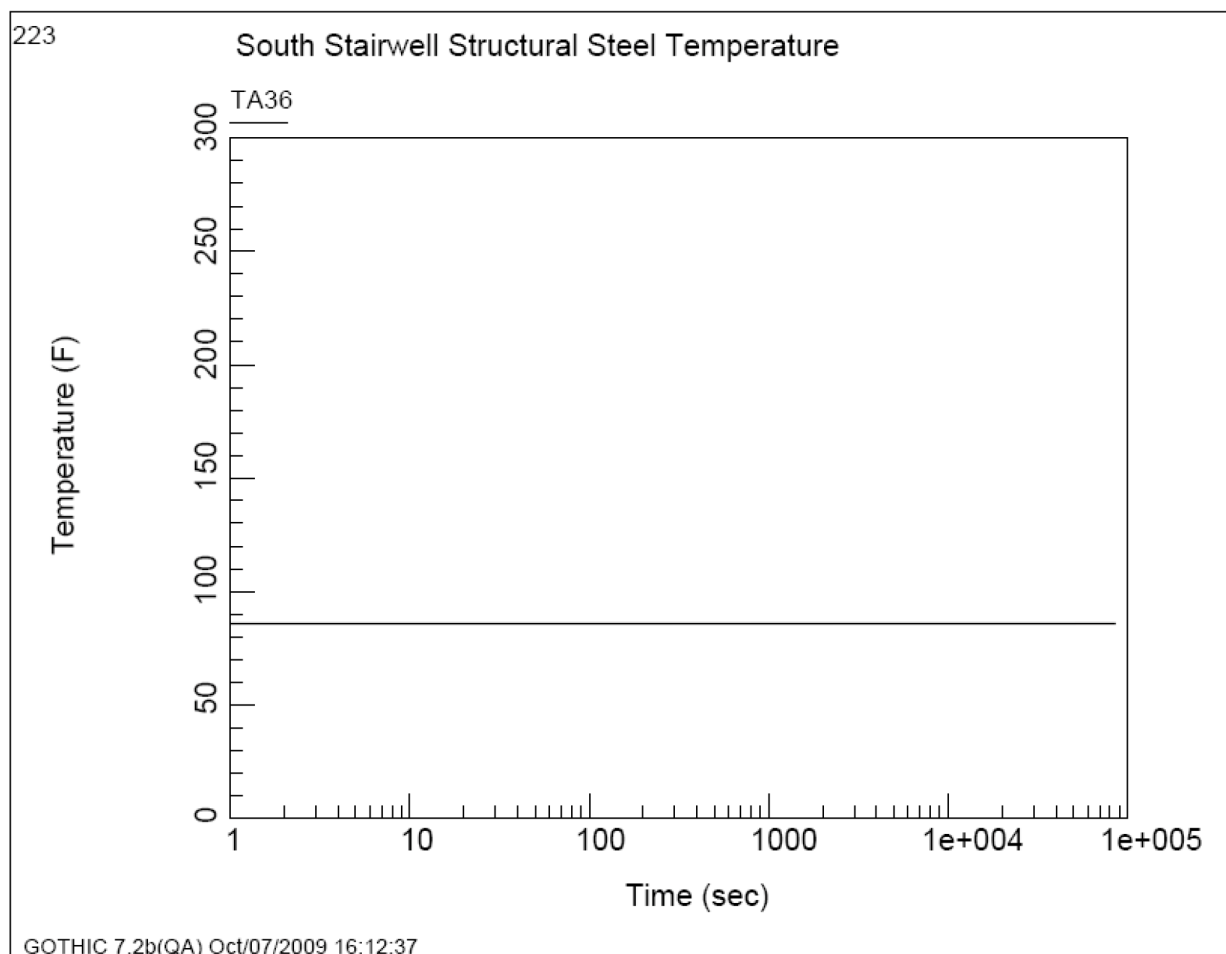
Figure 06.02.01-53-186—Structural Steel Surface Temperatures in the South Staircase

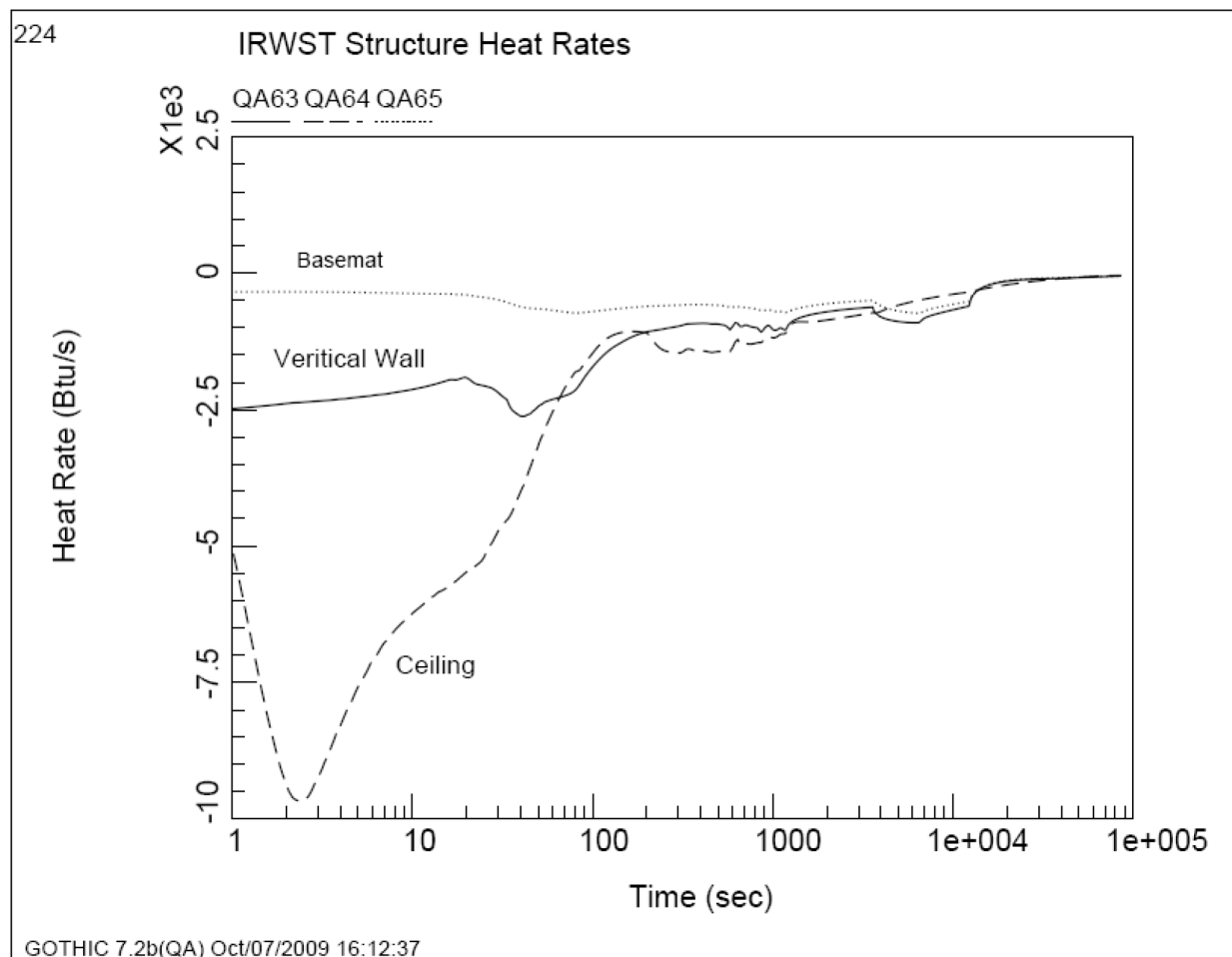
Figure 06.02.01-53-187—IRWST Ceiling, Wall, and Basemat Heat Rates

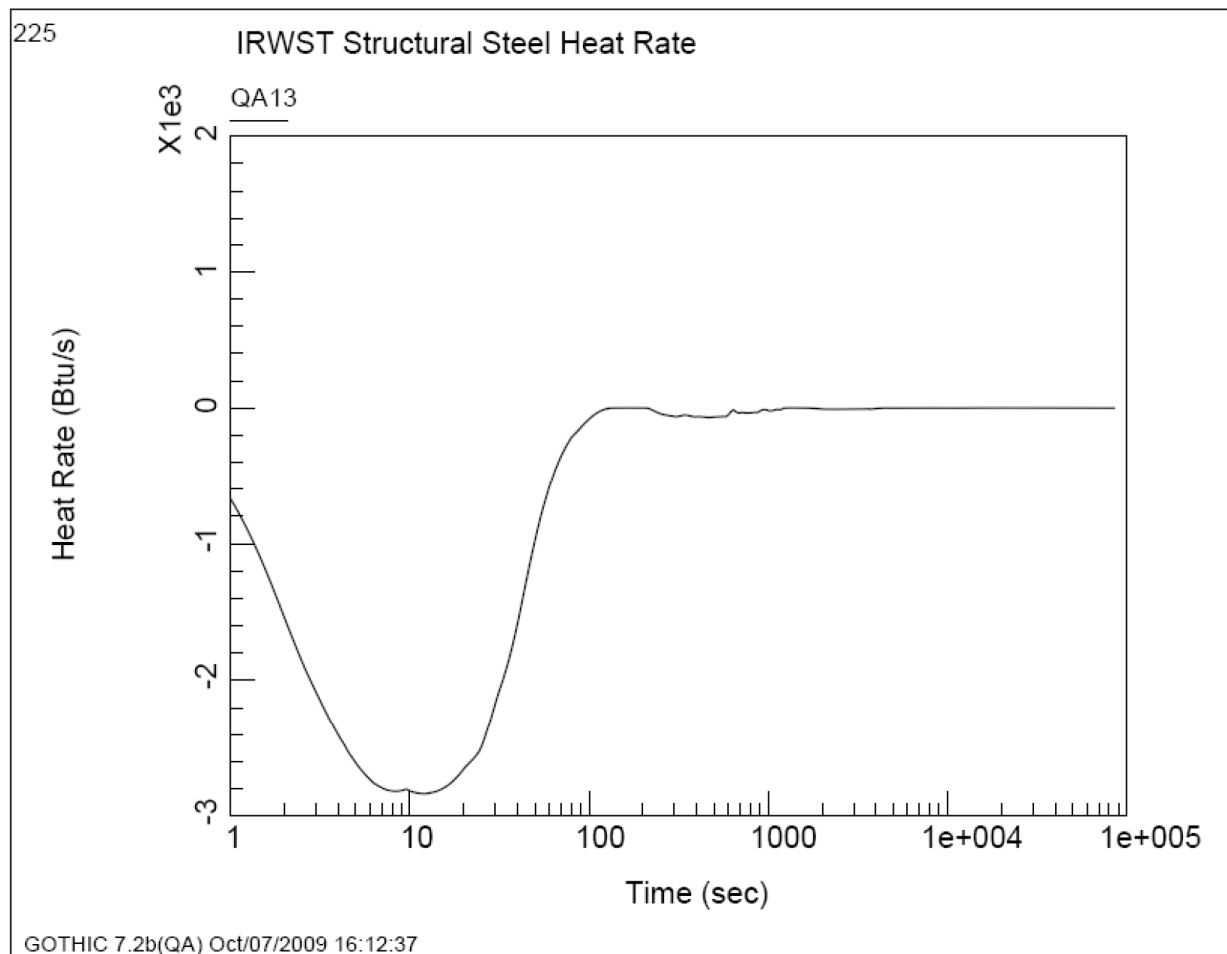
Figure 06.02.01-53-188—IRWST Structural Steel Heat Rate

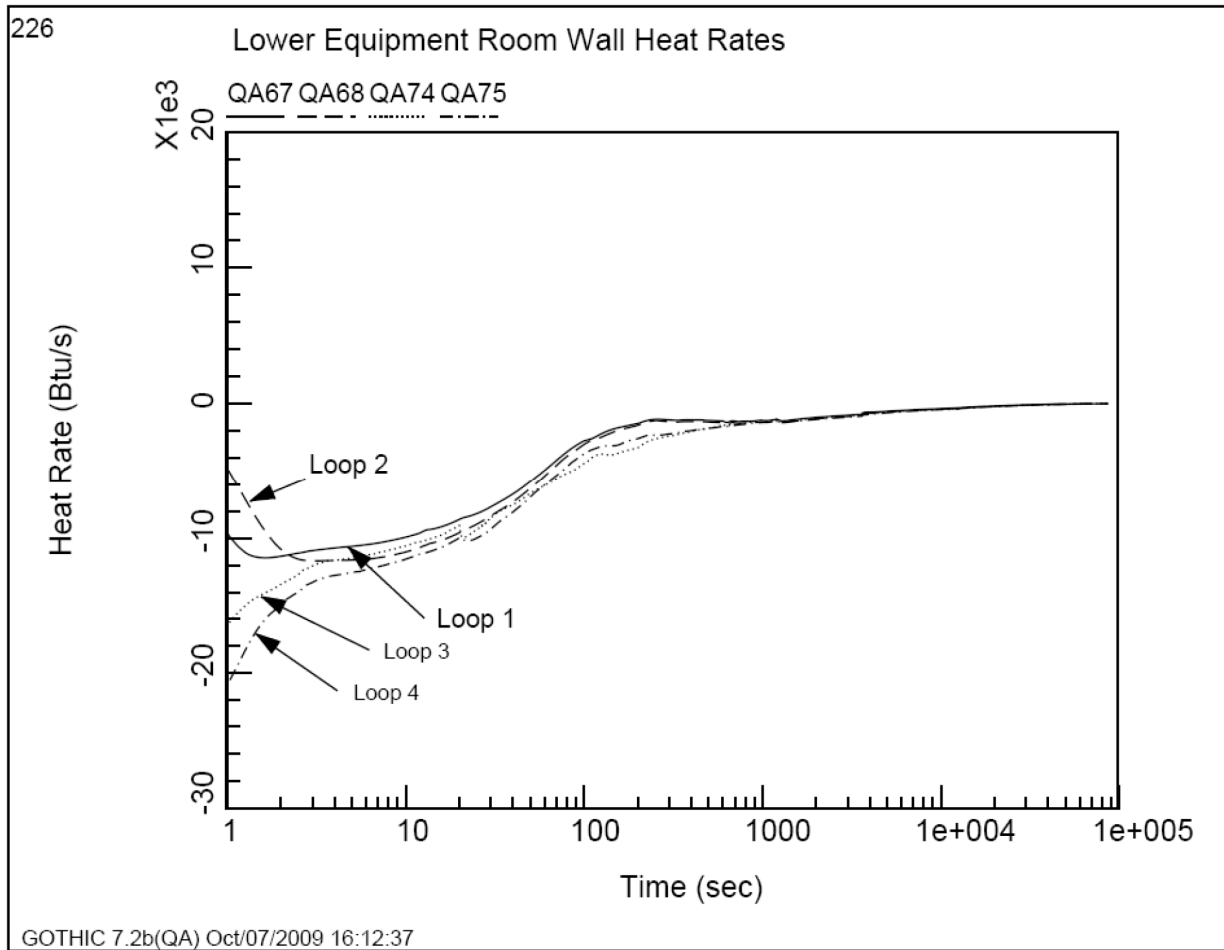
Figure 06.02.01-53-189—Lower Equipment Room Wall Heat Rates

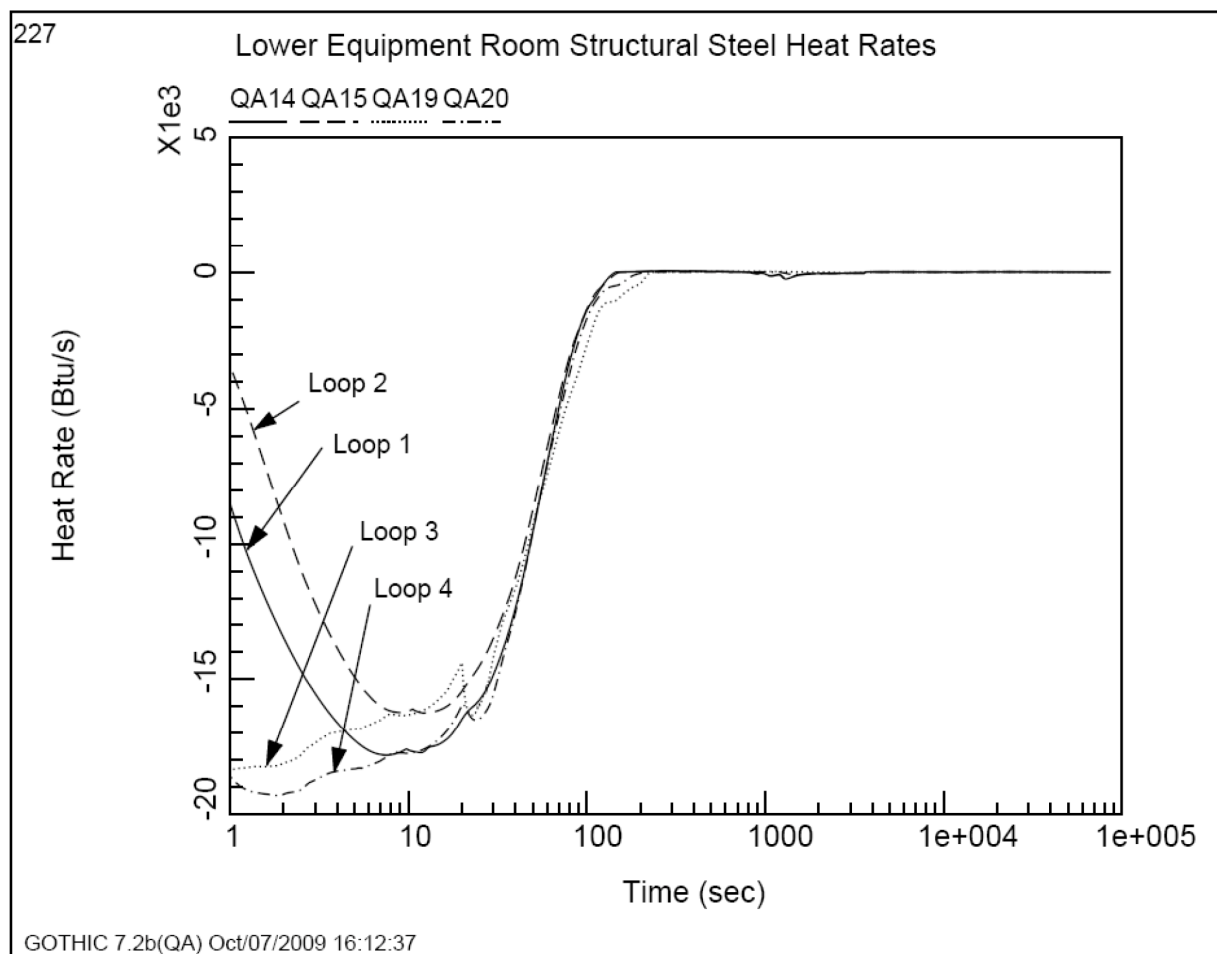
Figure 06.02.01-53-190—Lower Equipment Room Structural Steel Heat Rates

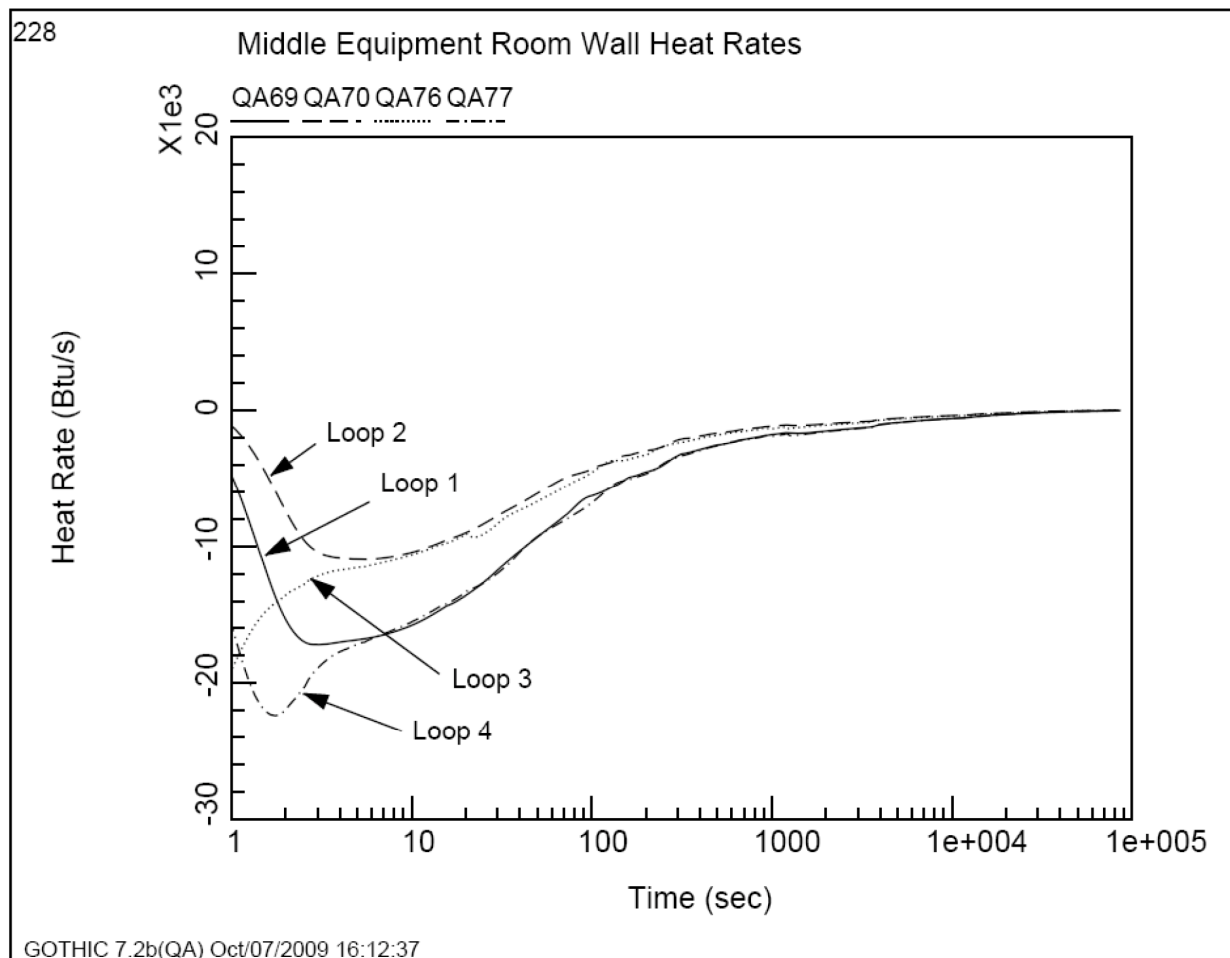
Figure 06.02.01-53-191—Middle Equipment Room Wall Heat Rates

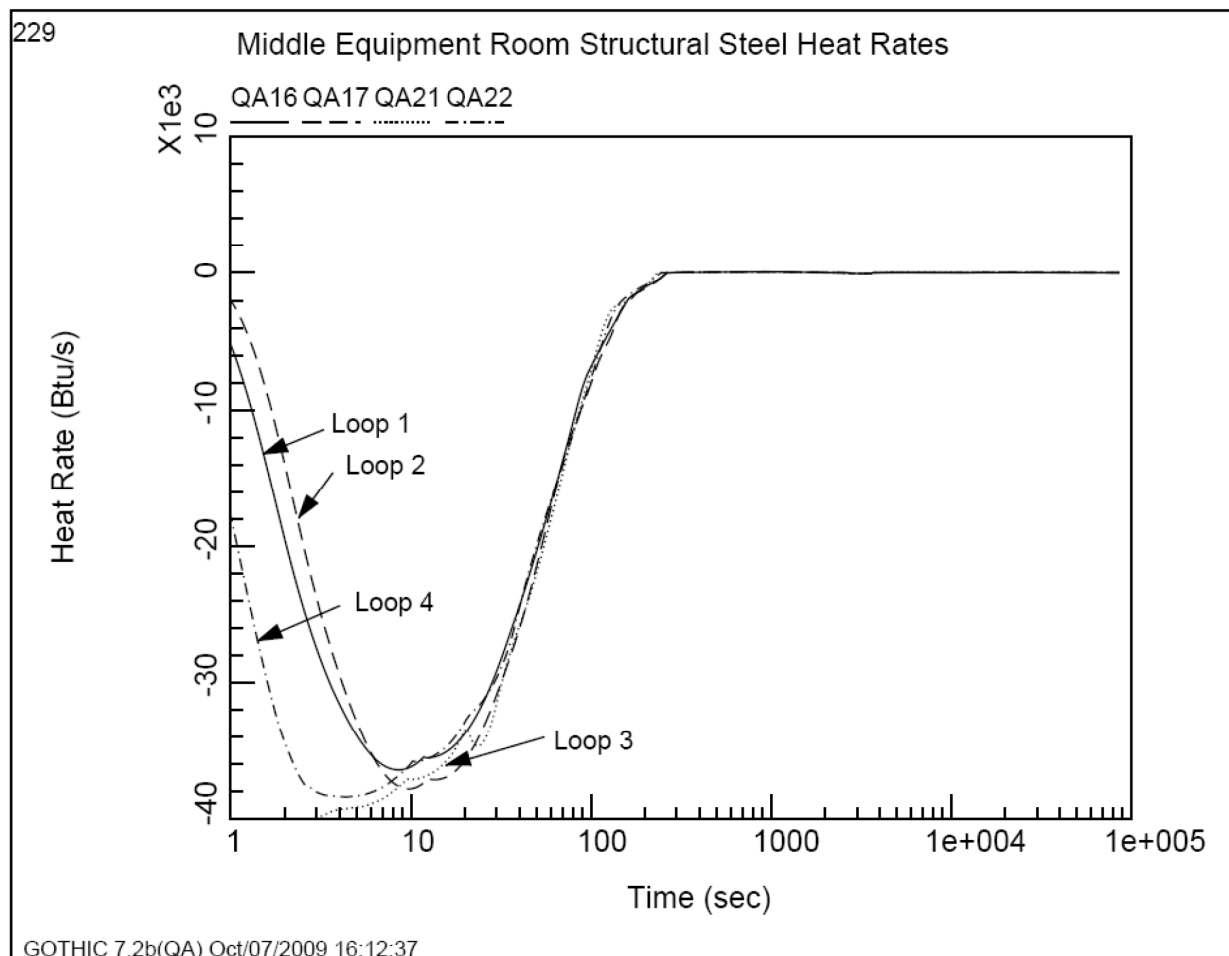
Figure 06.02.01-53-192—Middle Equipment Room Structural Steel Heat Rates

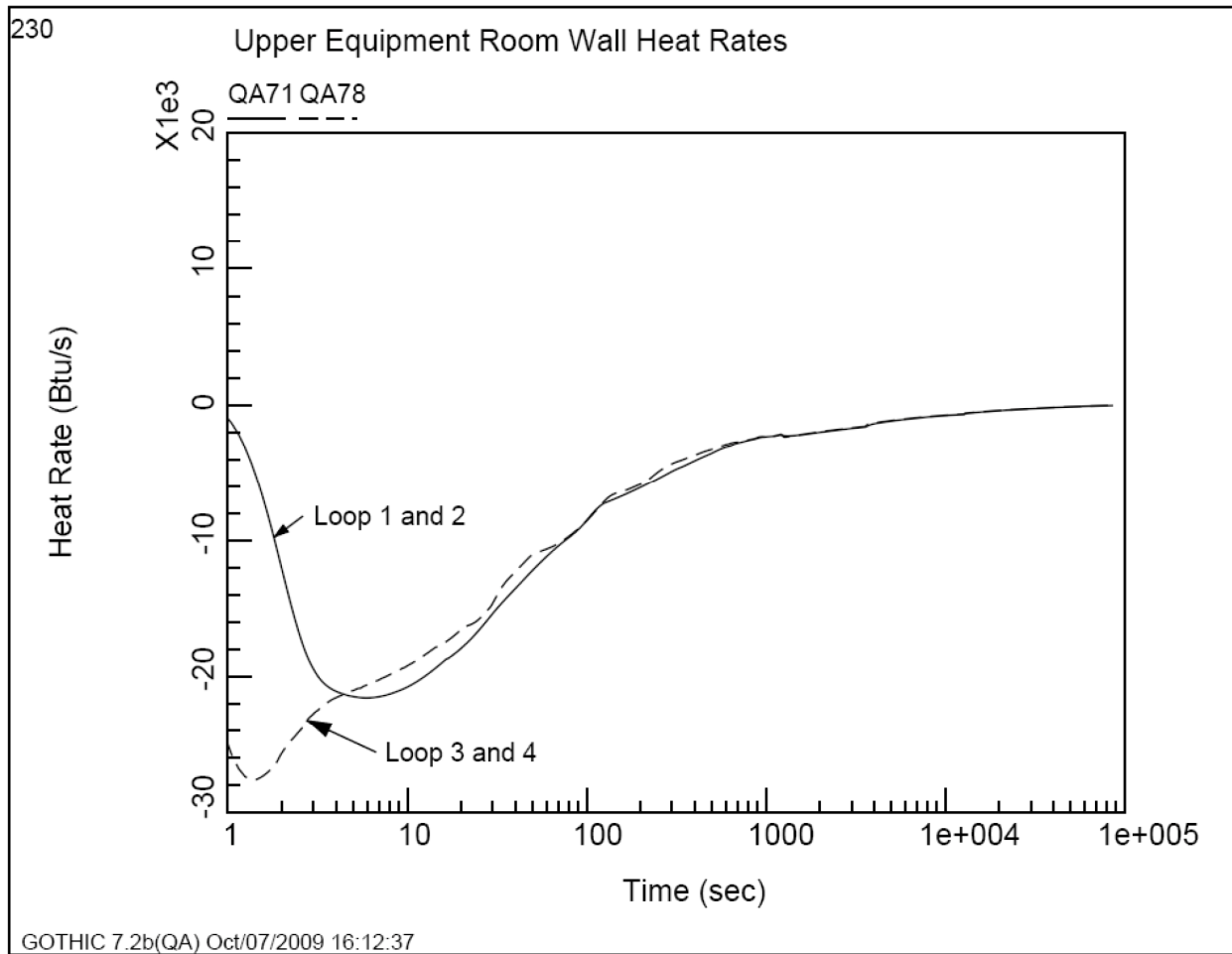
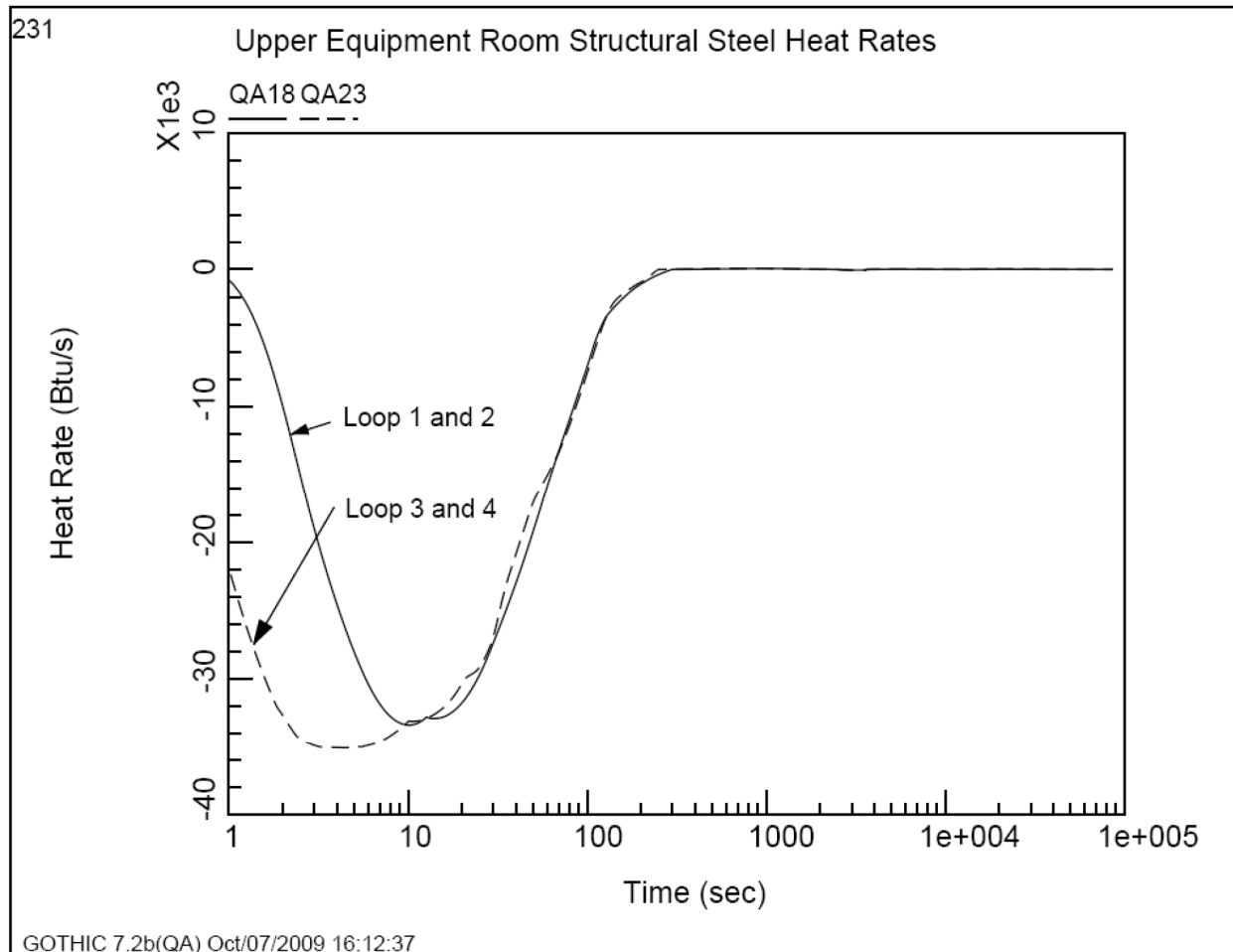
Figure 06.02.01-53-193—Upper Equipment Room Wall Heat Rates

Figure 06.02.01-53-194—Upper Equipment Room Structural Steel Heat Rates

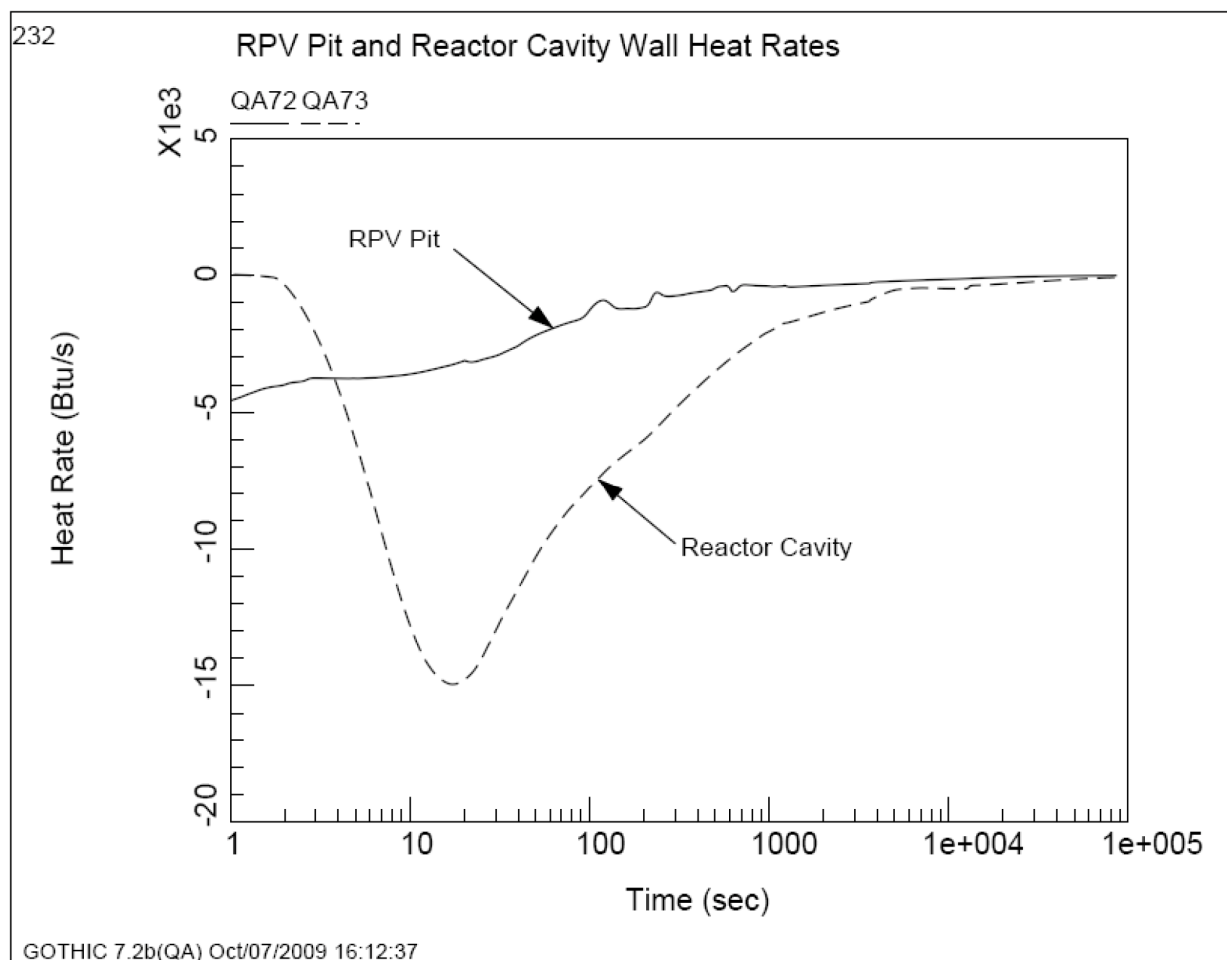
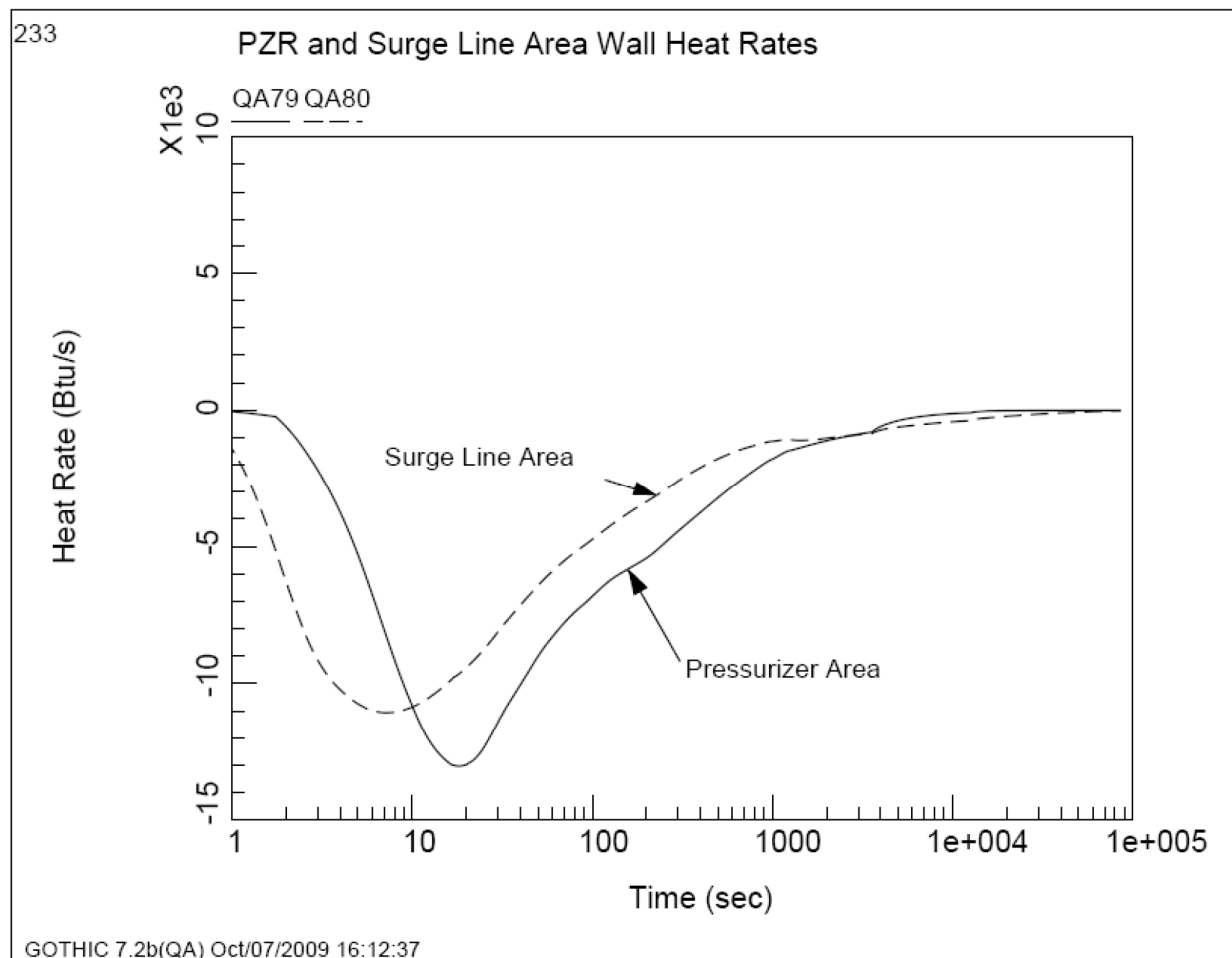
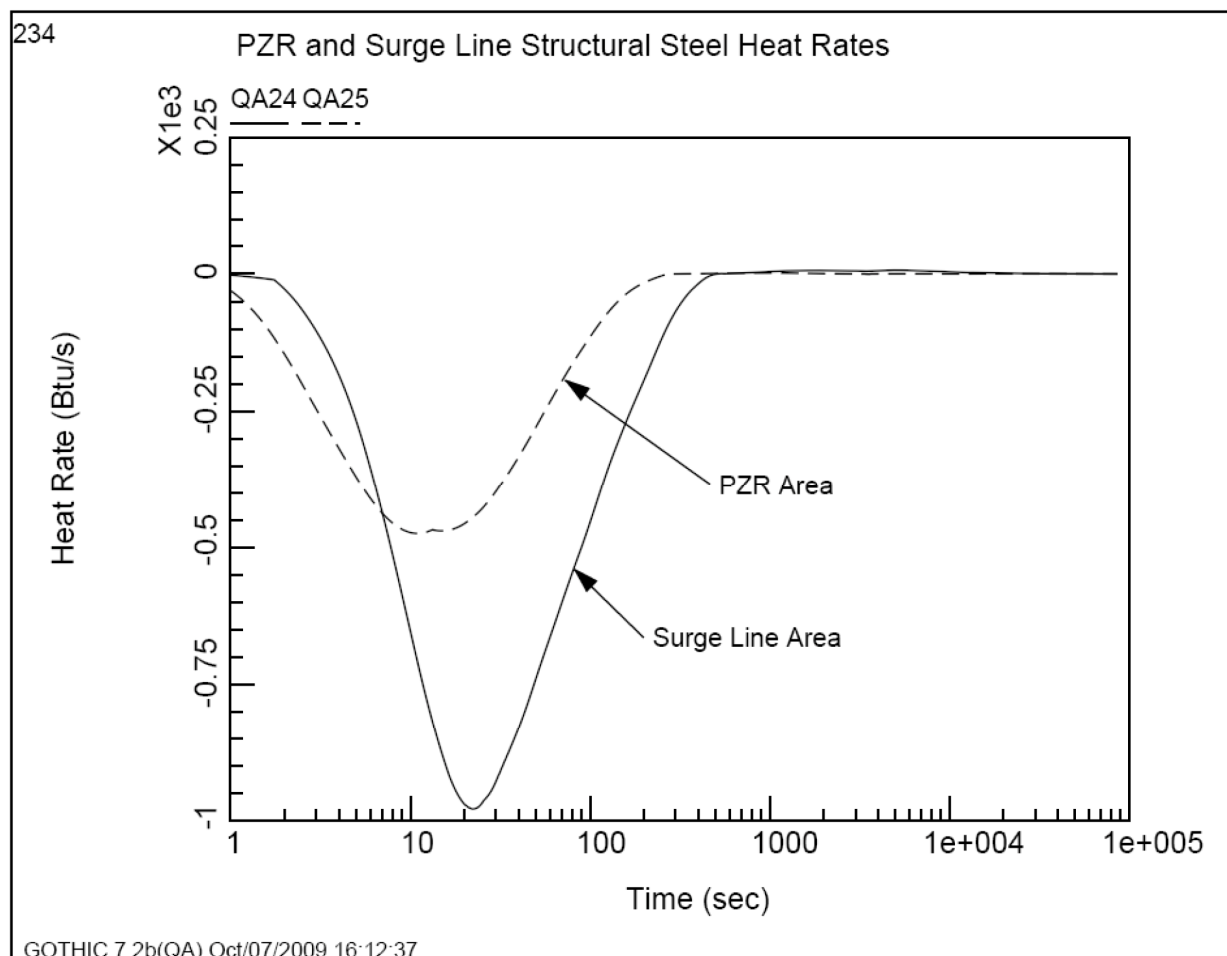
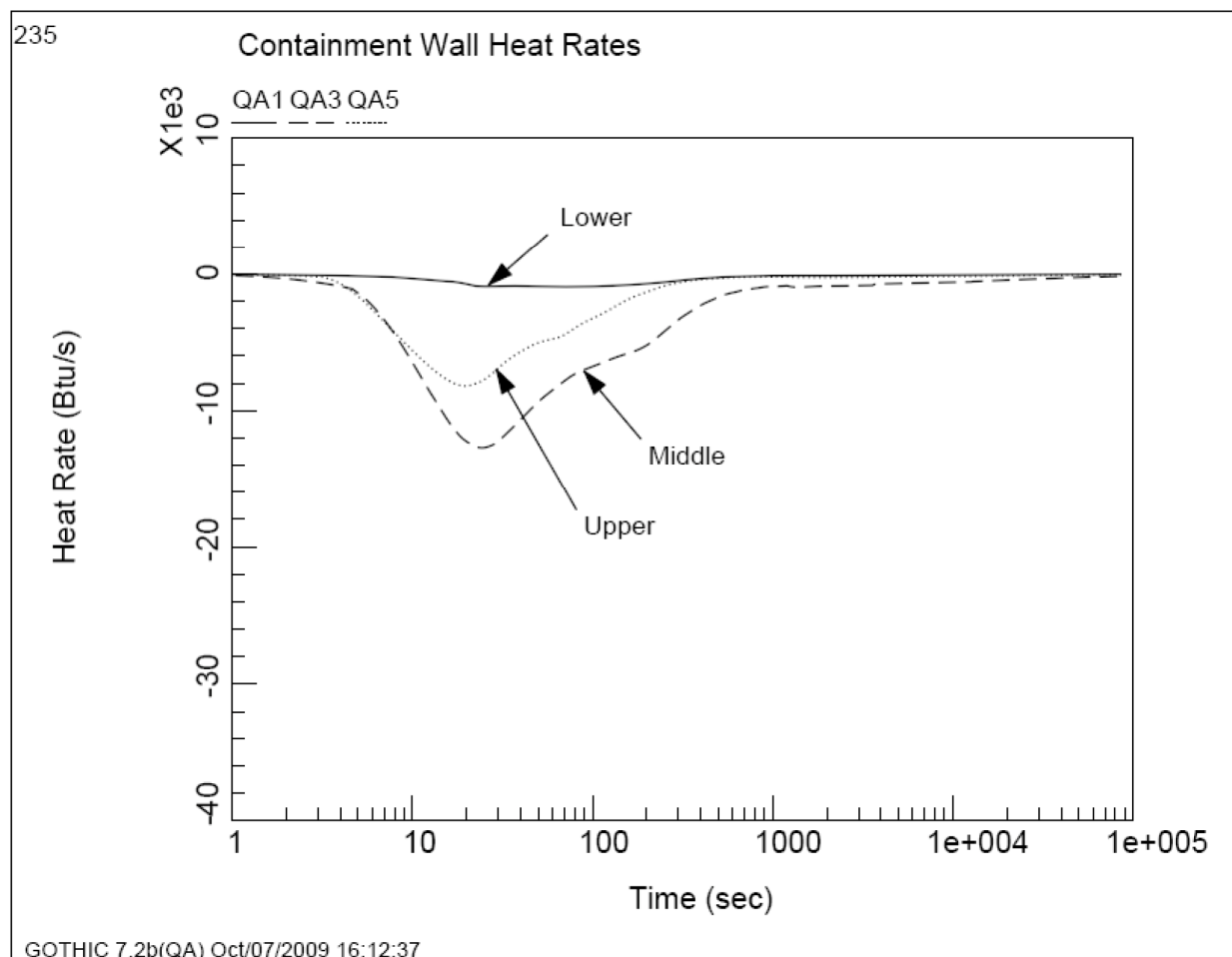
**Figure 06.02.01-53-195—Reactor Pressure Vessel Pit and Reactor Cavity
Wall Heat Rates**

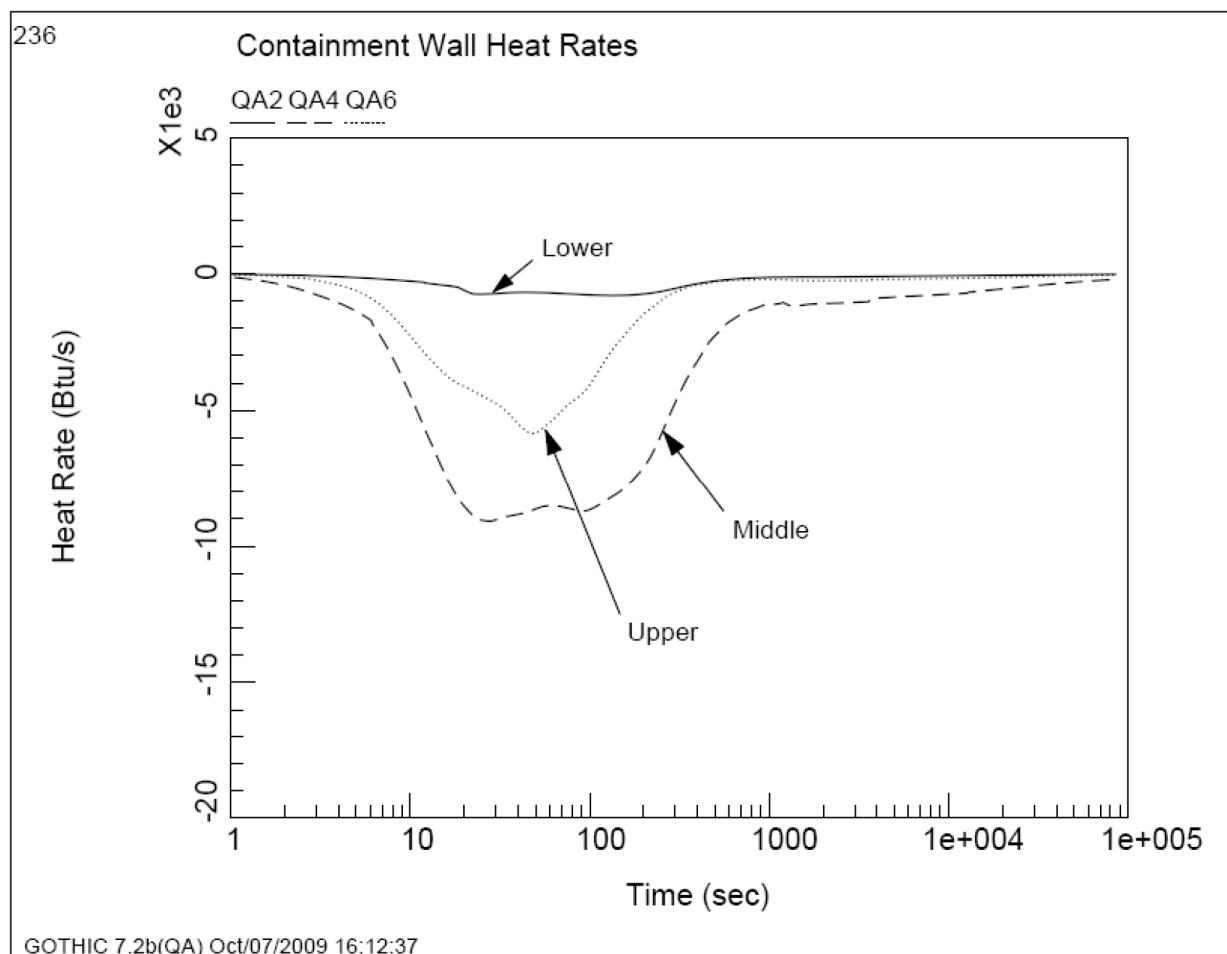
Figure 06.02.01-53-196—Pressurizer Room and Surge Line Room Wall Heat Rates

**Figure 06.02.01-53-197—Pressurizer Room and Surge Line Room
Structural Steel Heat Rates**

**Figure 06.02.01-53-198—Containment Wall Heat Rates in the Loop 1 and 2
Lower, Middle, and Upper Annulus Rooms**



**Figure 06.02.01-53-199—Containment Wall Heat Rates in the Loop 3 and 4
Lower, Middle, and Upper Annulus Rooms**



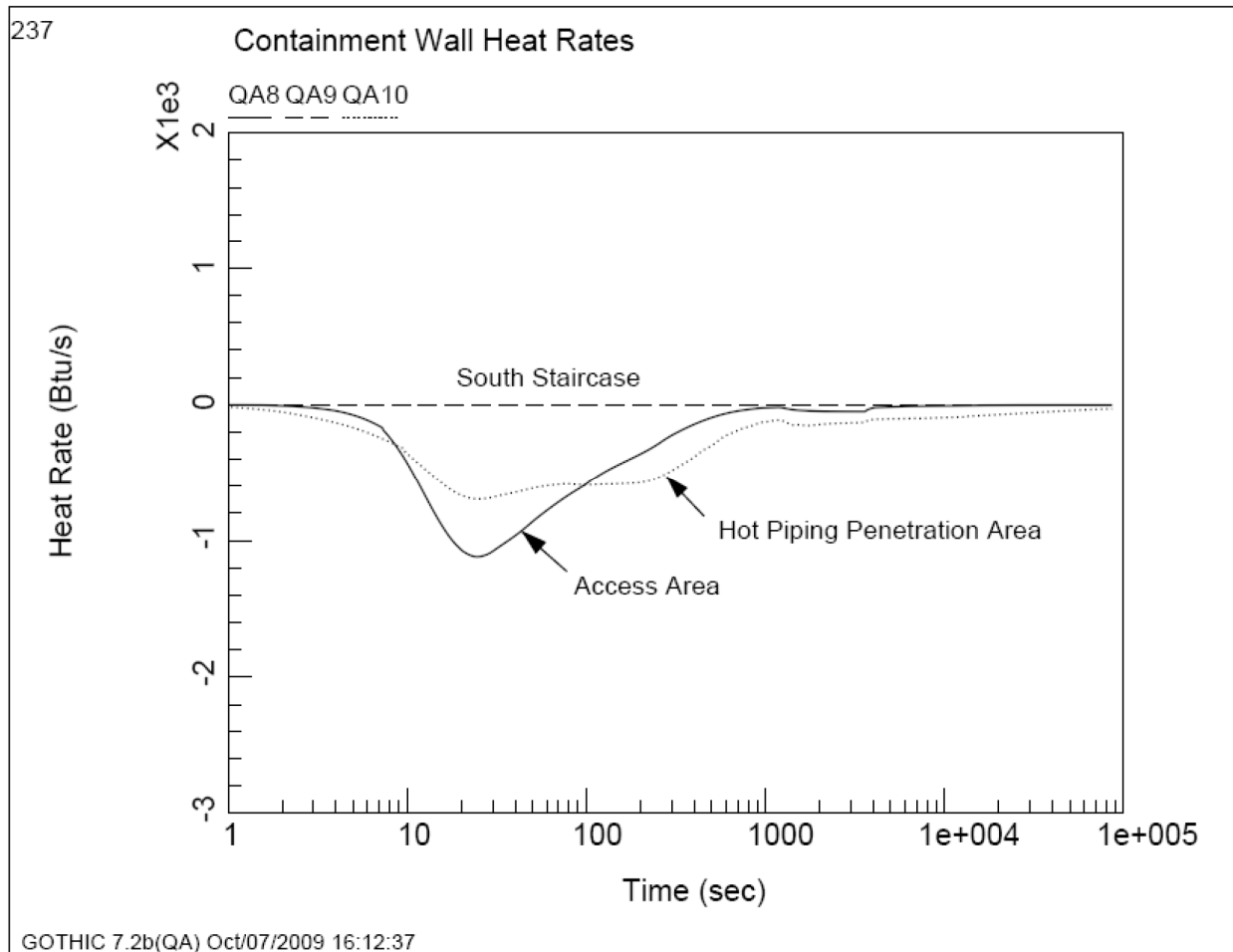
**Figure 06.02.01-53-200—Containment Wall Heat Rates in the Access Room,
South Staircase, and Hot Piping Penetration Room**

Figure 06.02.01-53-201—CVCS Room and Steam Generator Blowdown Heat Exchanger Room Wall Heat Rates

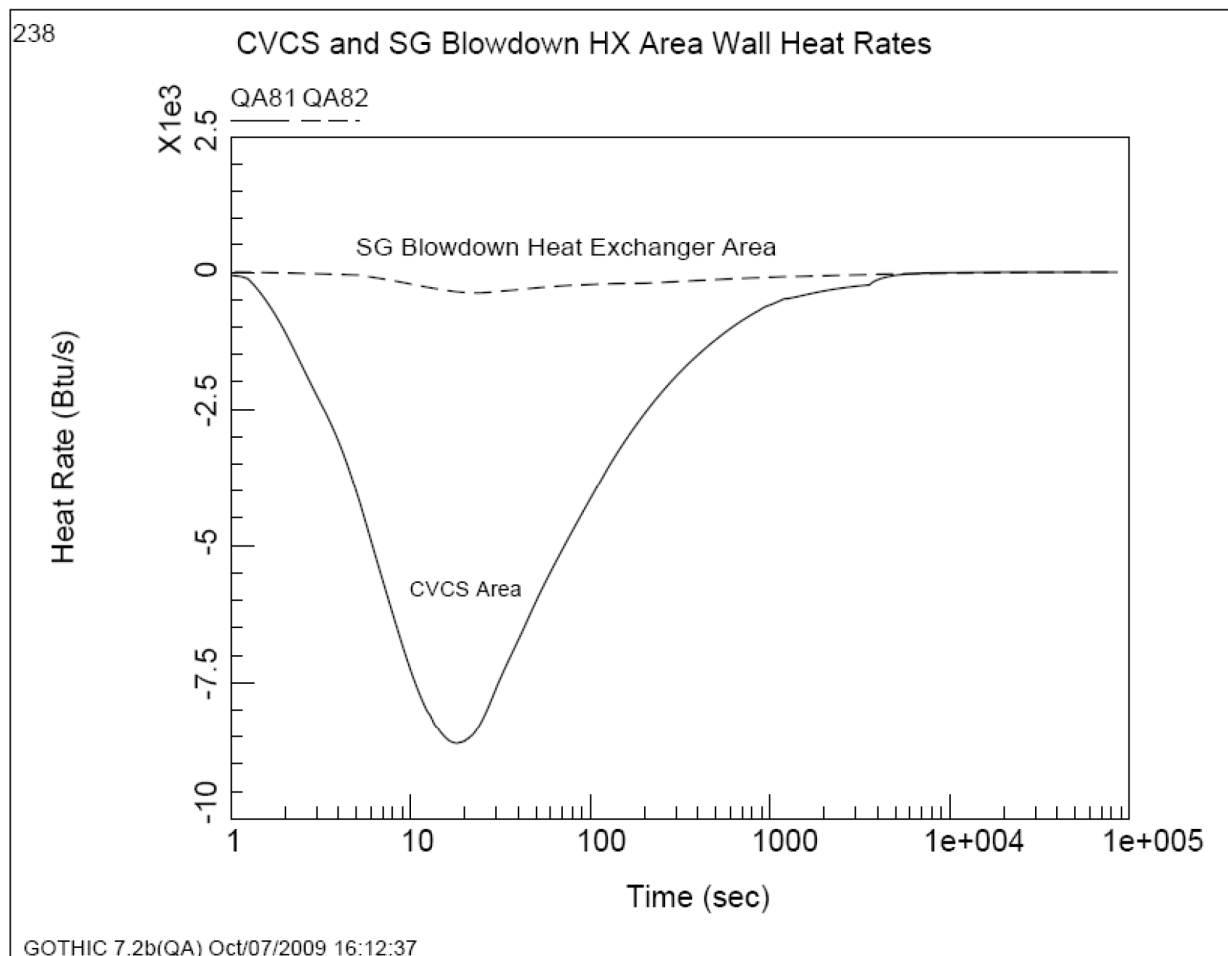


Figure 06.02.01-53-202—CVCS Room and Steam Generator Blowdown Heat Exchanger Room Structural Steel Heat Rates

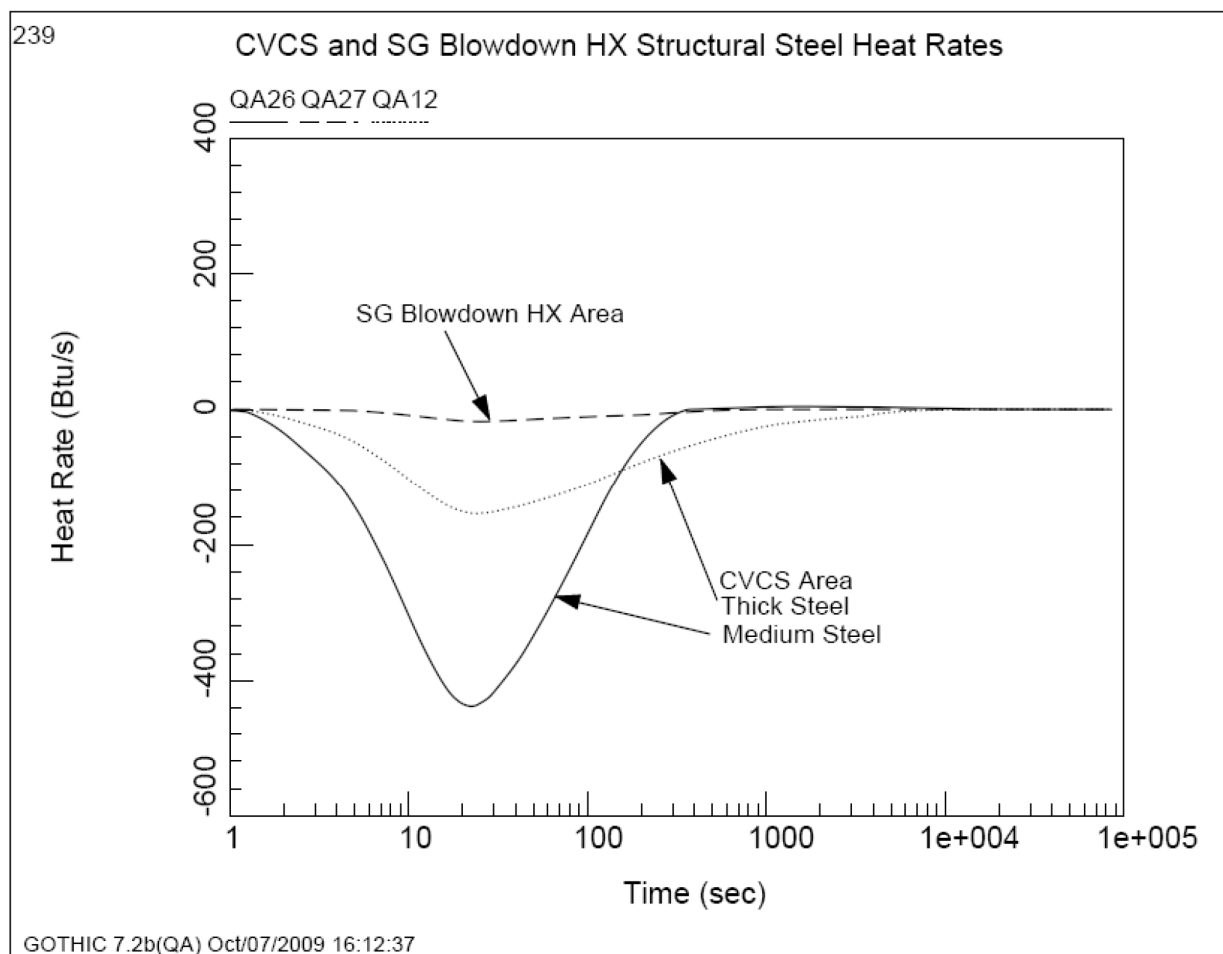
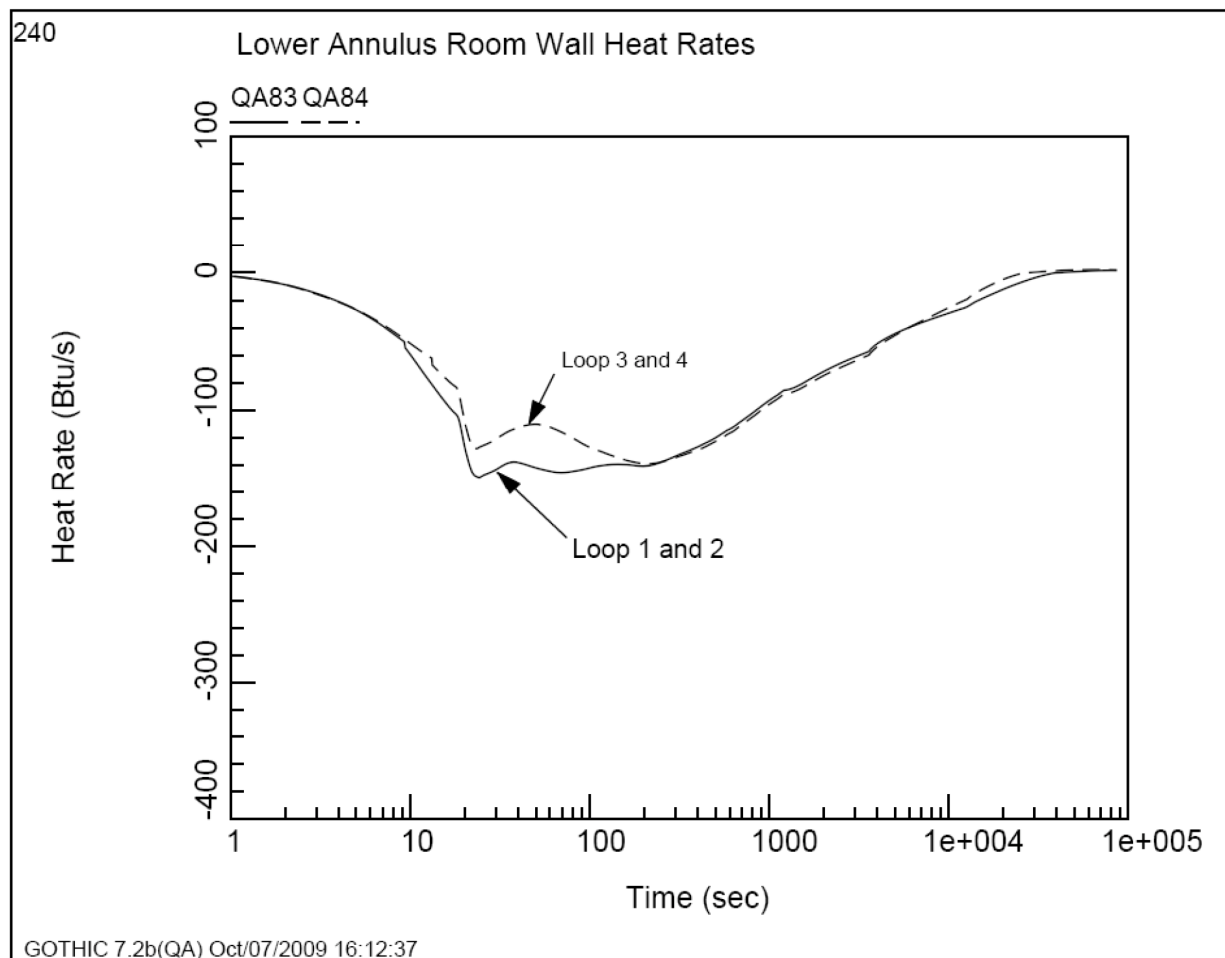


Figure 06.02.01-53-203—Lower Annulus Room Wall Heat Rates

GOTHIC 7.2b(QA) Oct/07/2009 16:12:37

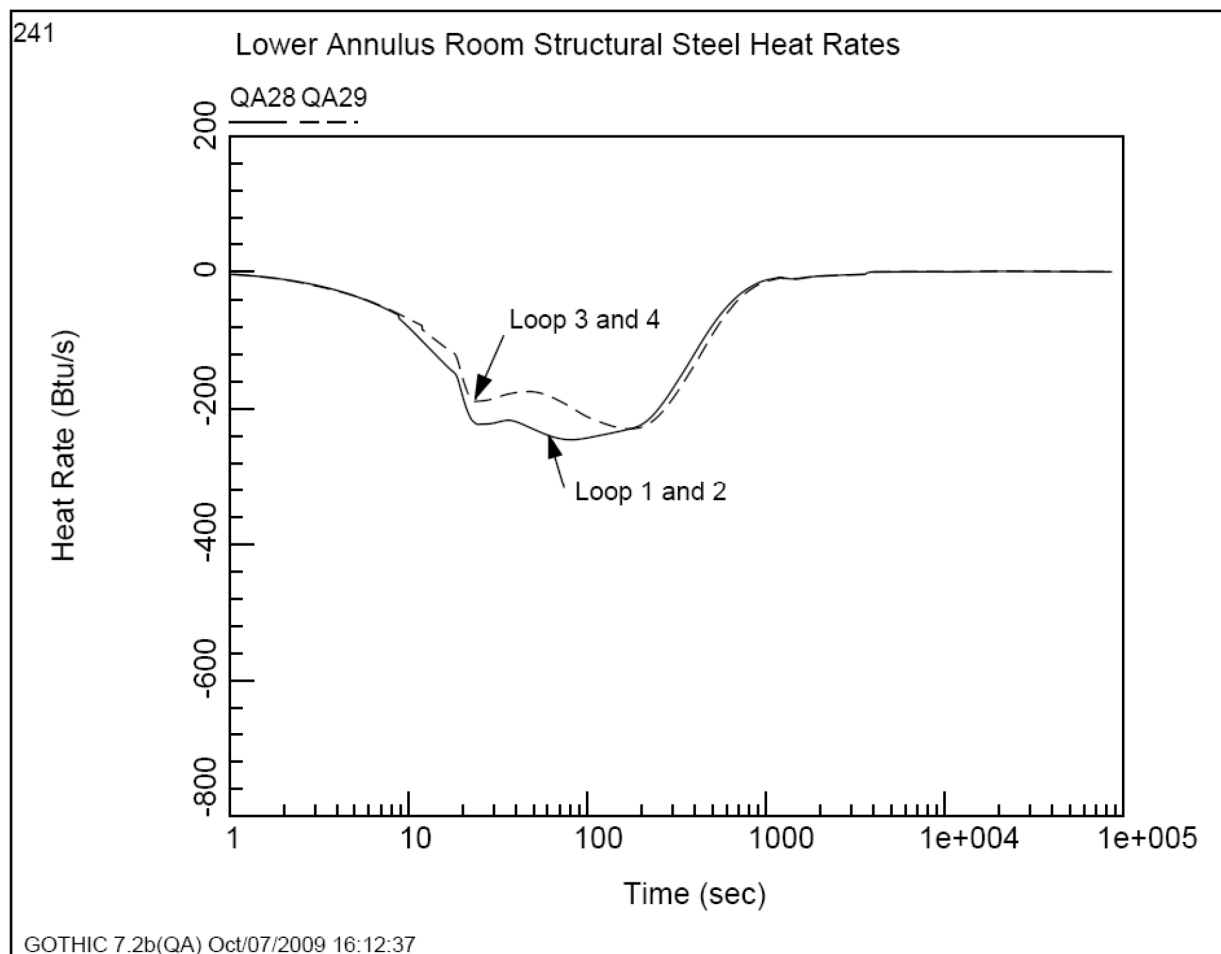
Figure 06.02.01-53-204—Lower Annulus Room Structural Steel Heat Rates

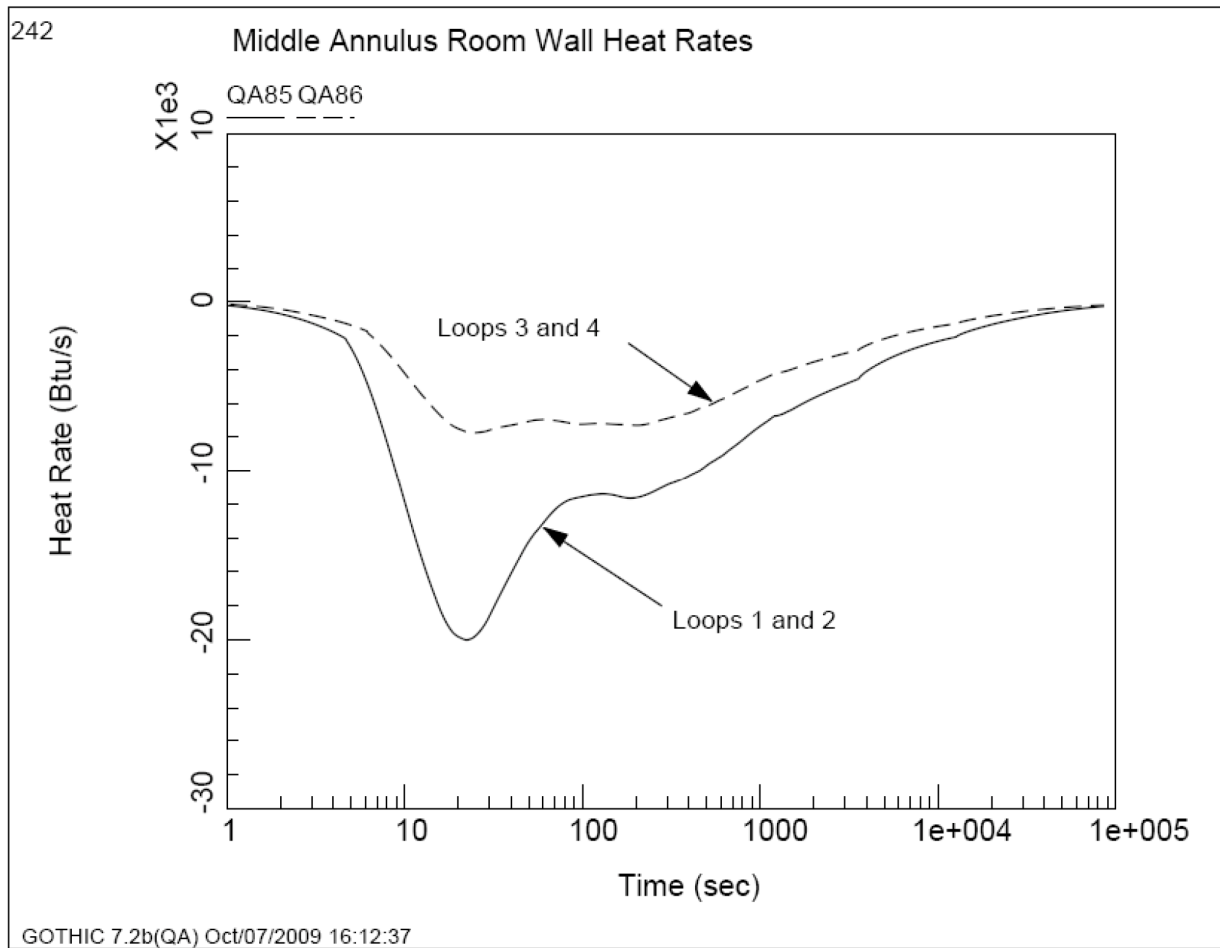
Figure 06.02.01-53-205—Middle Annulus Room Wall Heat Rates

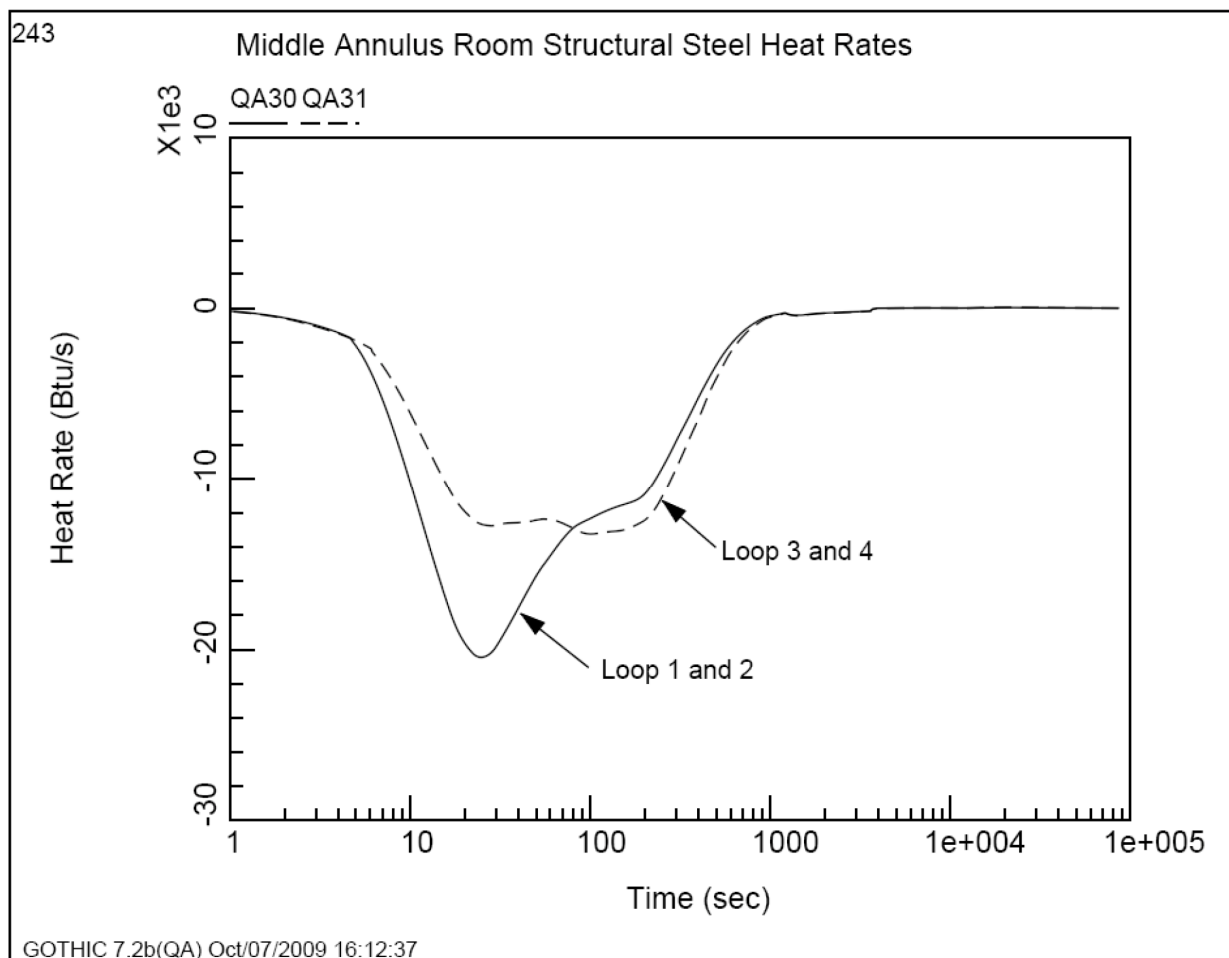
Figure 06.02.01-53-206—Middle Annulus Room Structural Steel Heat Rates

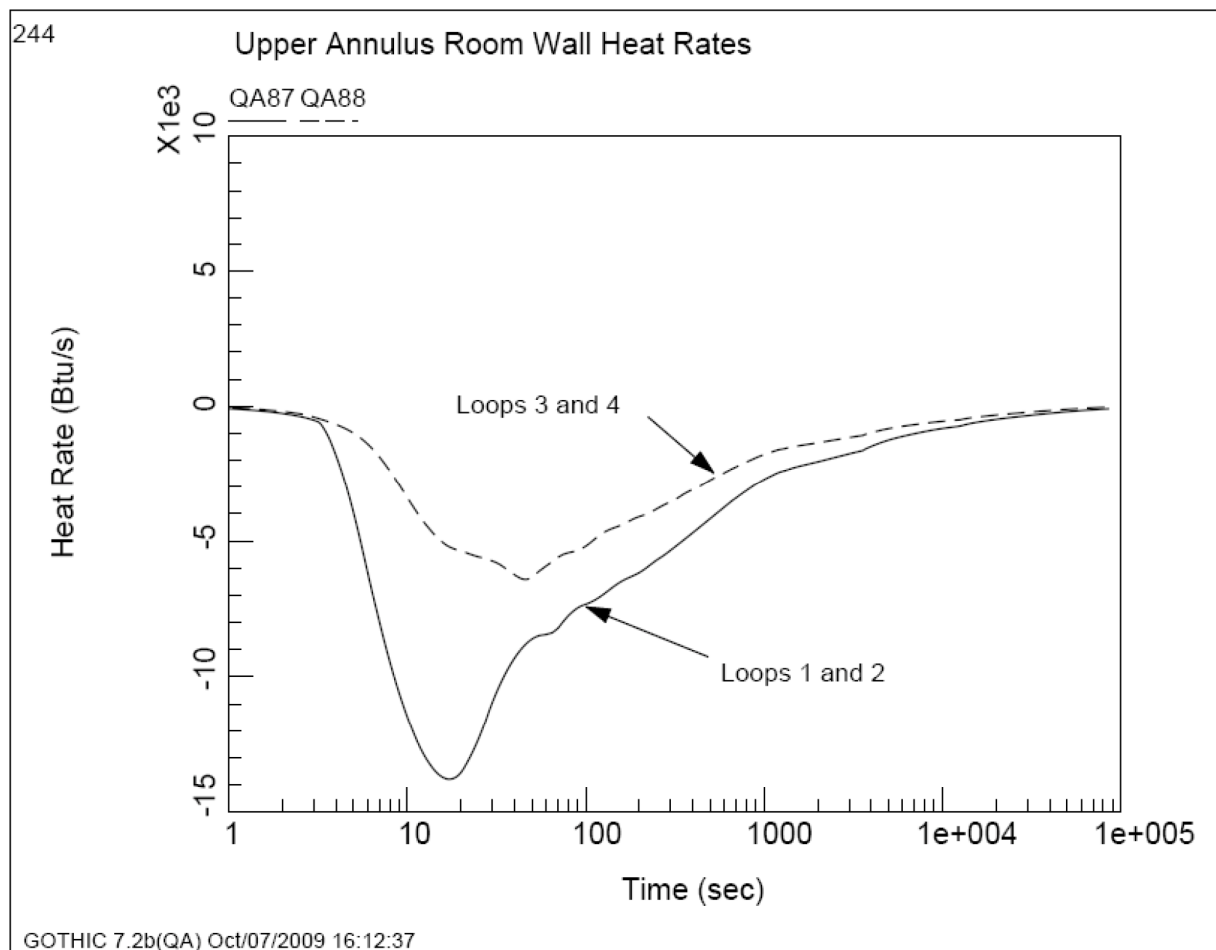
Figure 06.02.01-53-207—Upper Annulus Room Wall Heat Rates

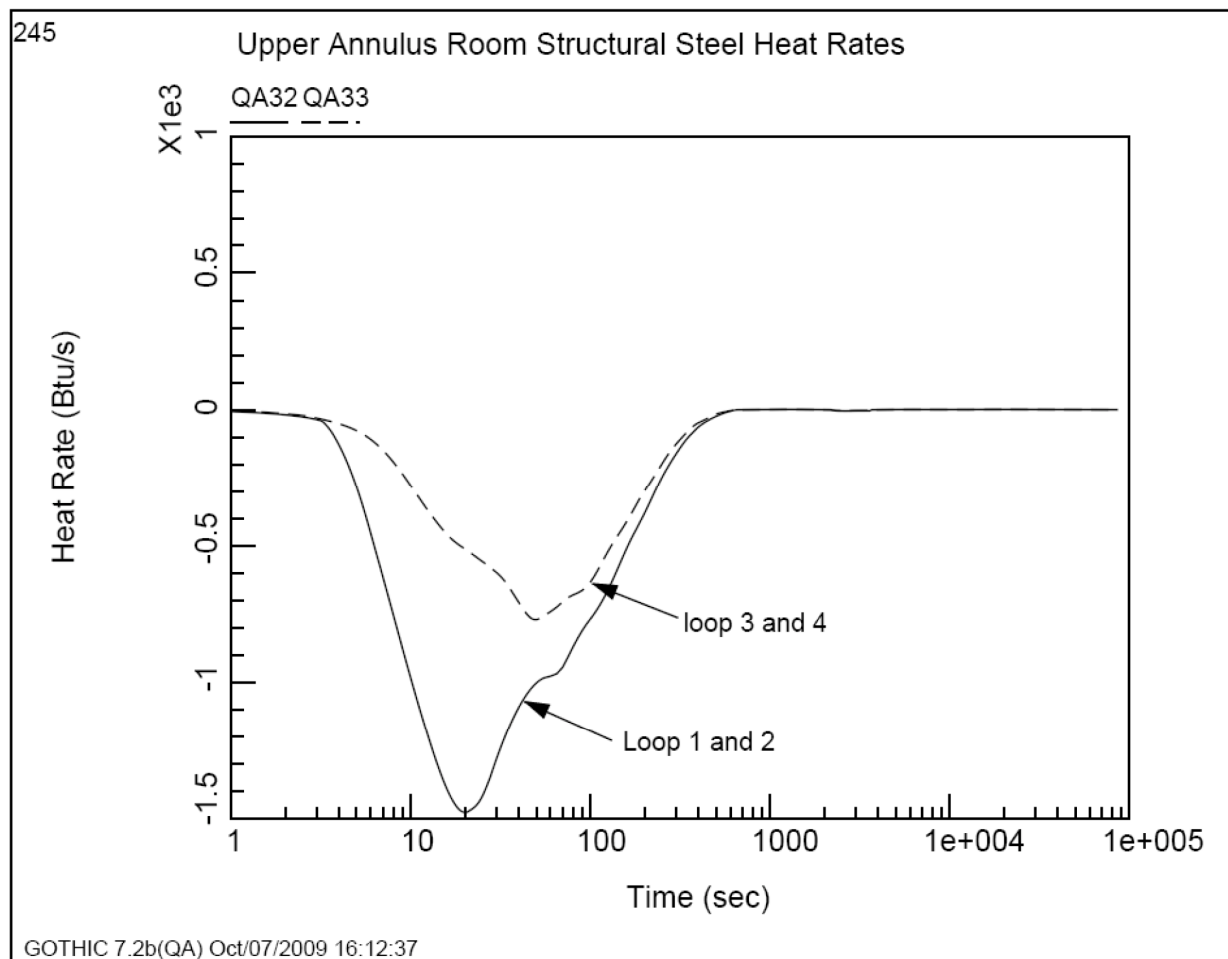
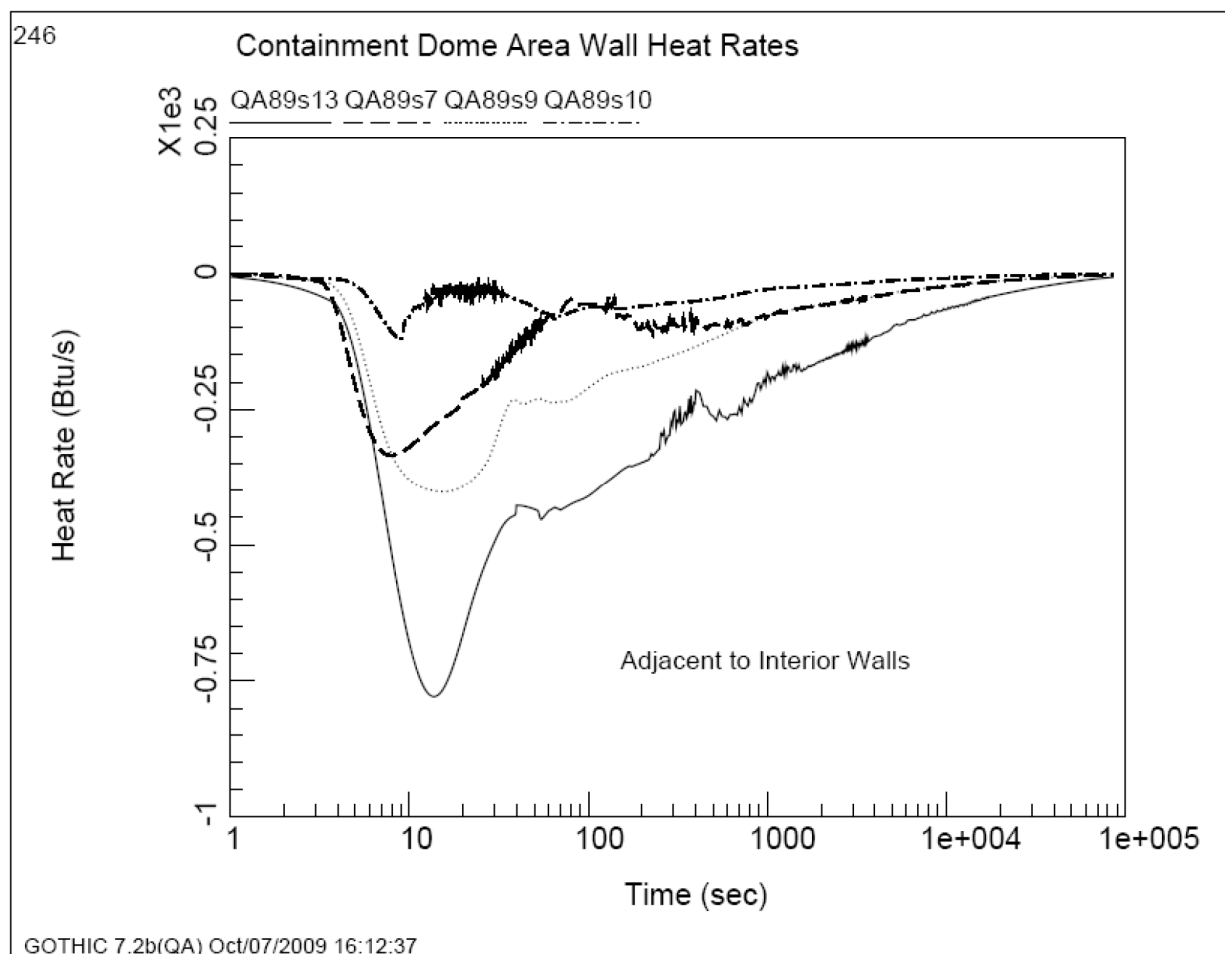
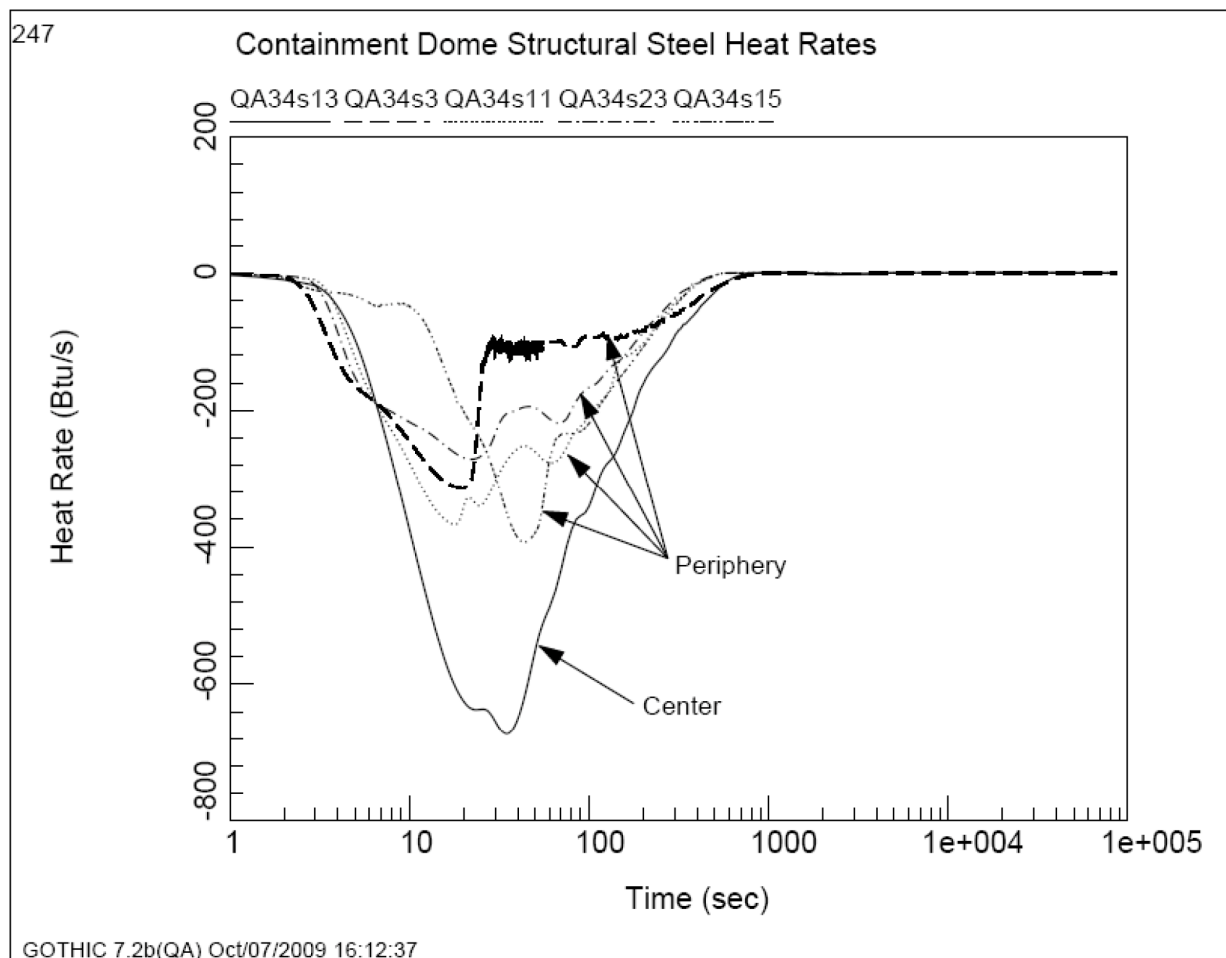
Figure 06.02.01-53-208—Upper Annulus Room Structural Steel Heat Rates

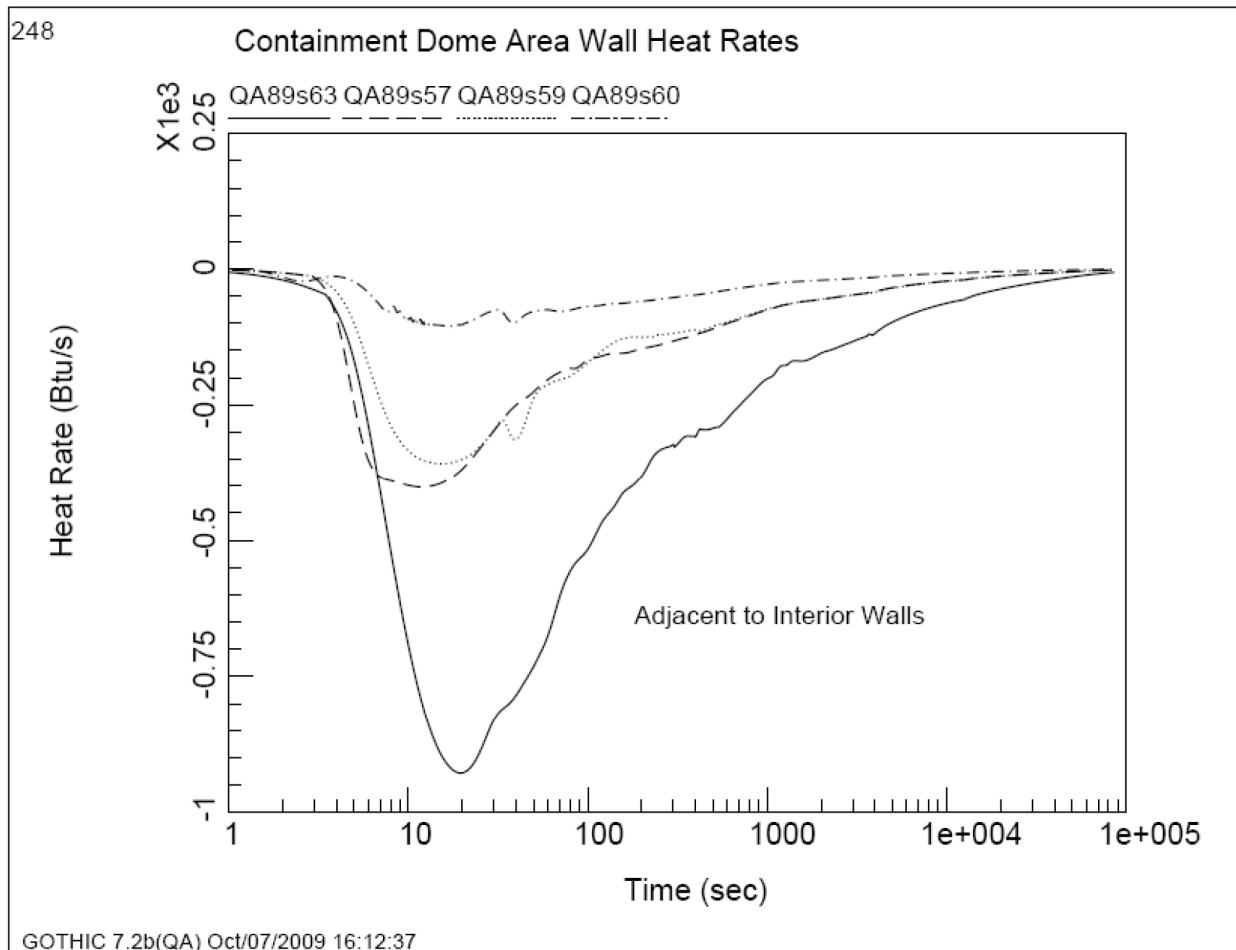
Figure 06.02.01-53-209—Containment Dome Interior Wall Heat Rates from the 63.98 ft to the 71.53 ft Elevation



**Figure 06.02.01-53-210—Containment Dome Structural Steel Heat Rates
from the 63.98 ft to the 71.53 ft Elevation**



**Figure 06.02.01-53-211—Containment Dome Interior Wall Heat Rates from
the 79.07 ft to the 86.29 ft Elevation**



**Figure 06.02.01-53-212—Containment Dome Structural Steel Heat Rates
from the 79.07 ft to the 86.29 ft Elevation**

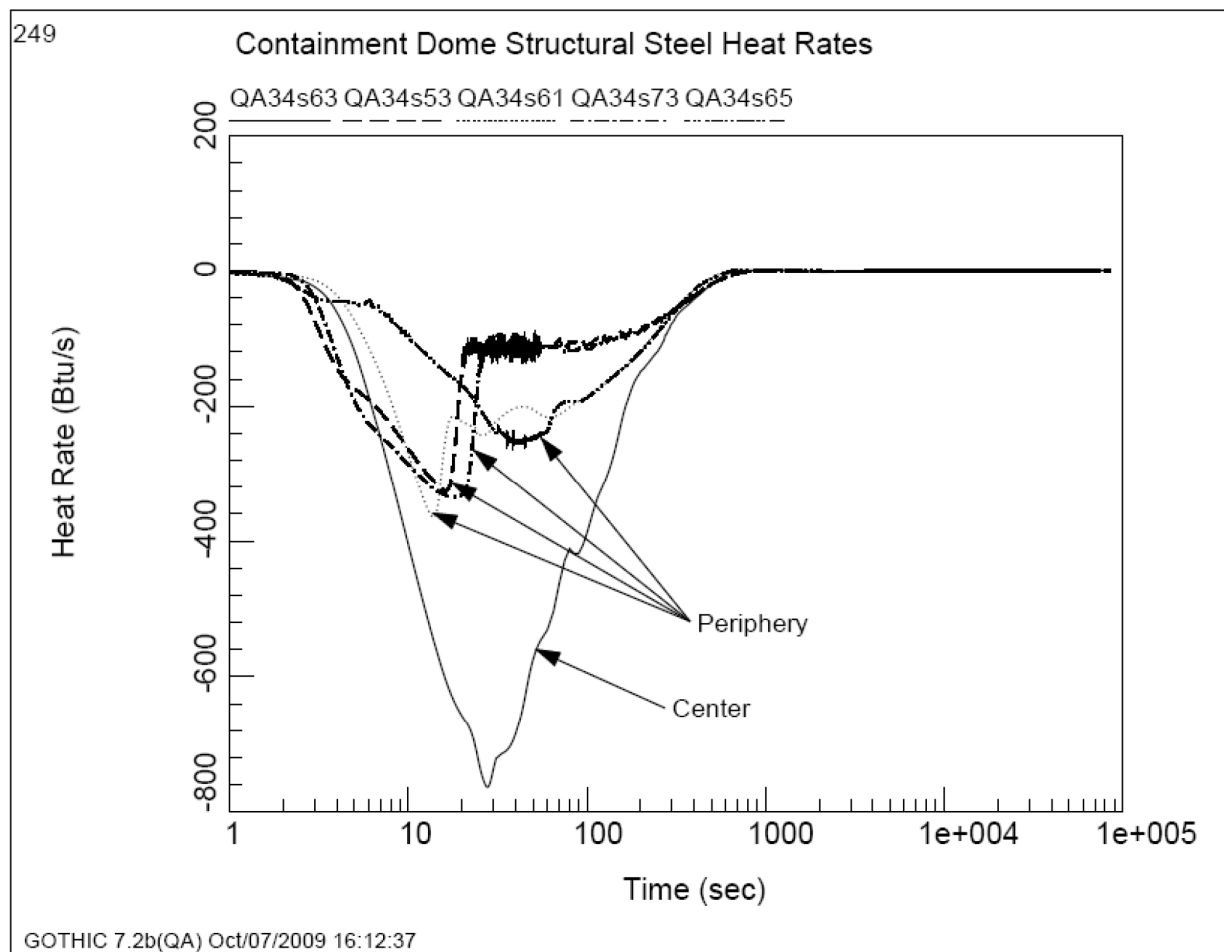
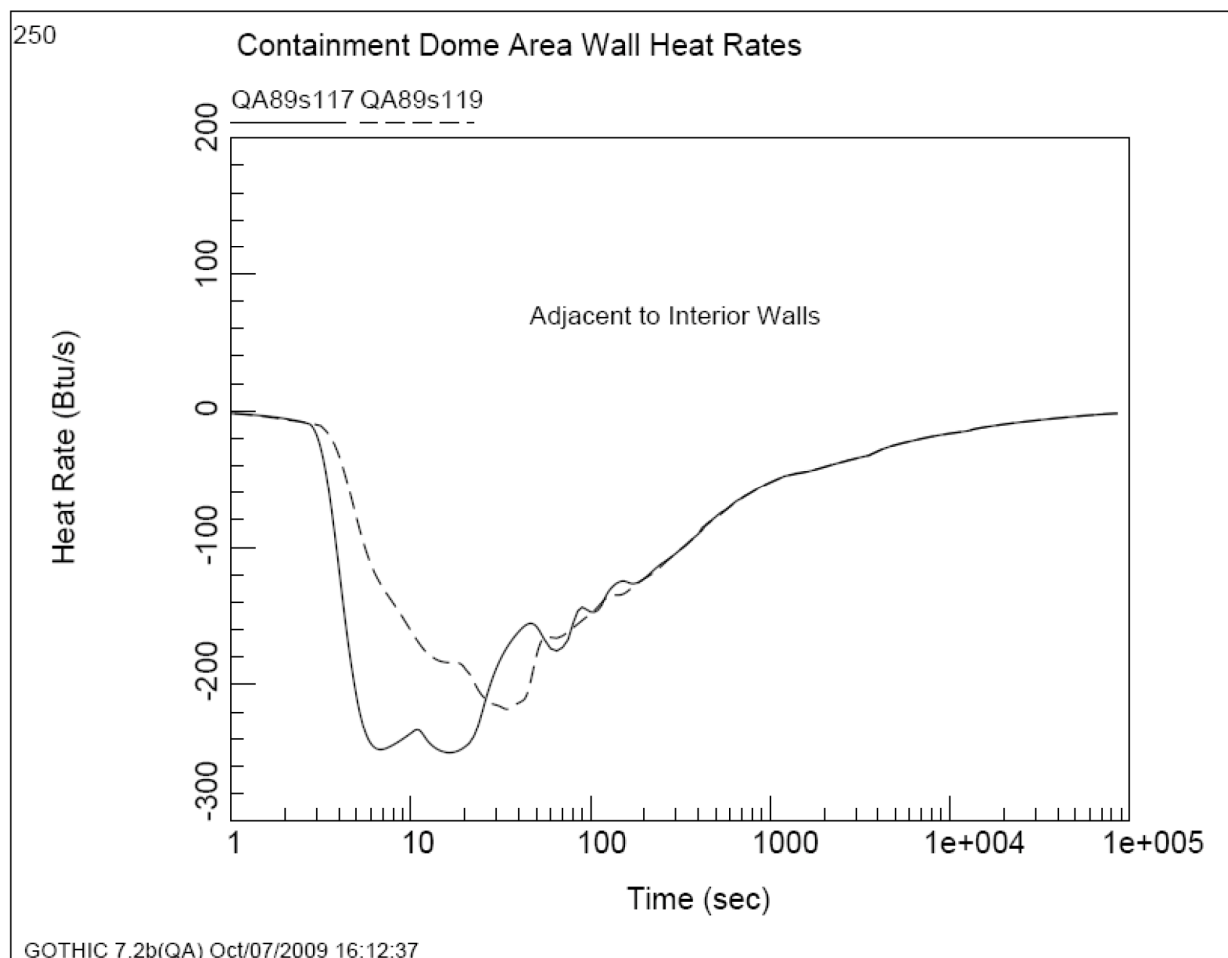


Figure 06.02.01-53-213—Containment Dome Interior Wall Heat Rates from the 93.51 ft to the 98.59 ft Elevation



**Figure 06.02.01-53-214—Containment Dome Structural Steel Heat Rates
from the 93.51 ft to the 98.59 ft Elevation**

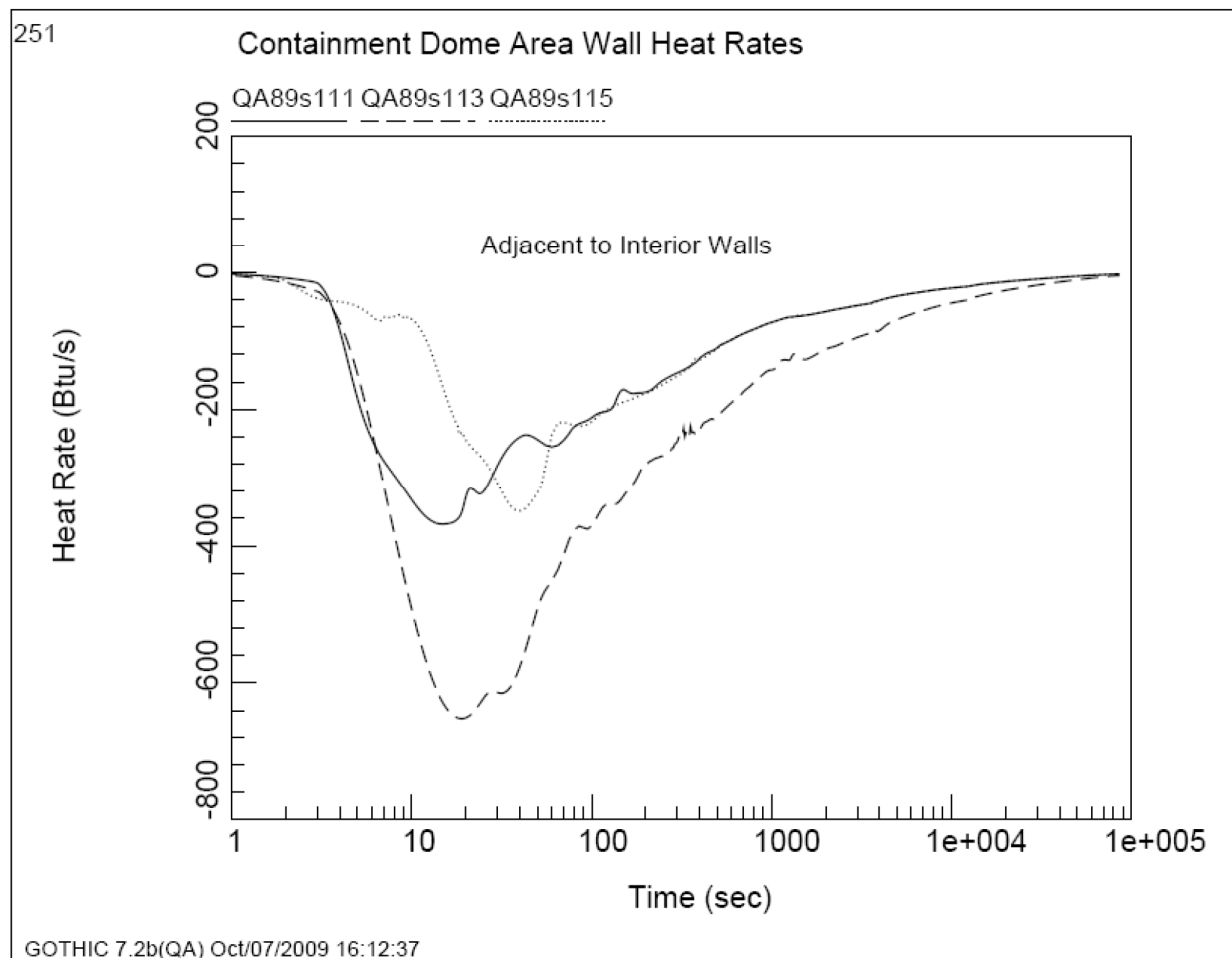
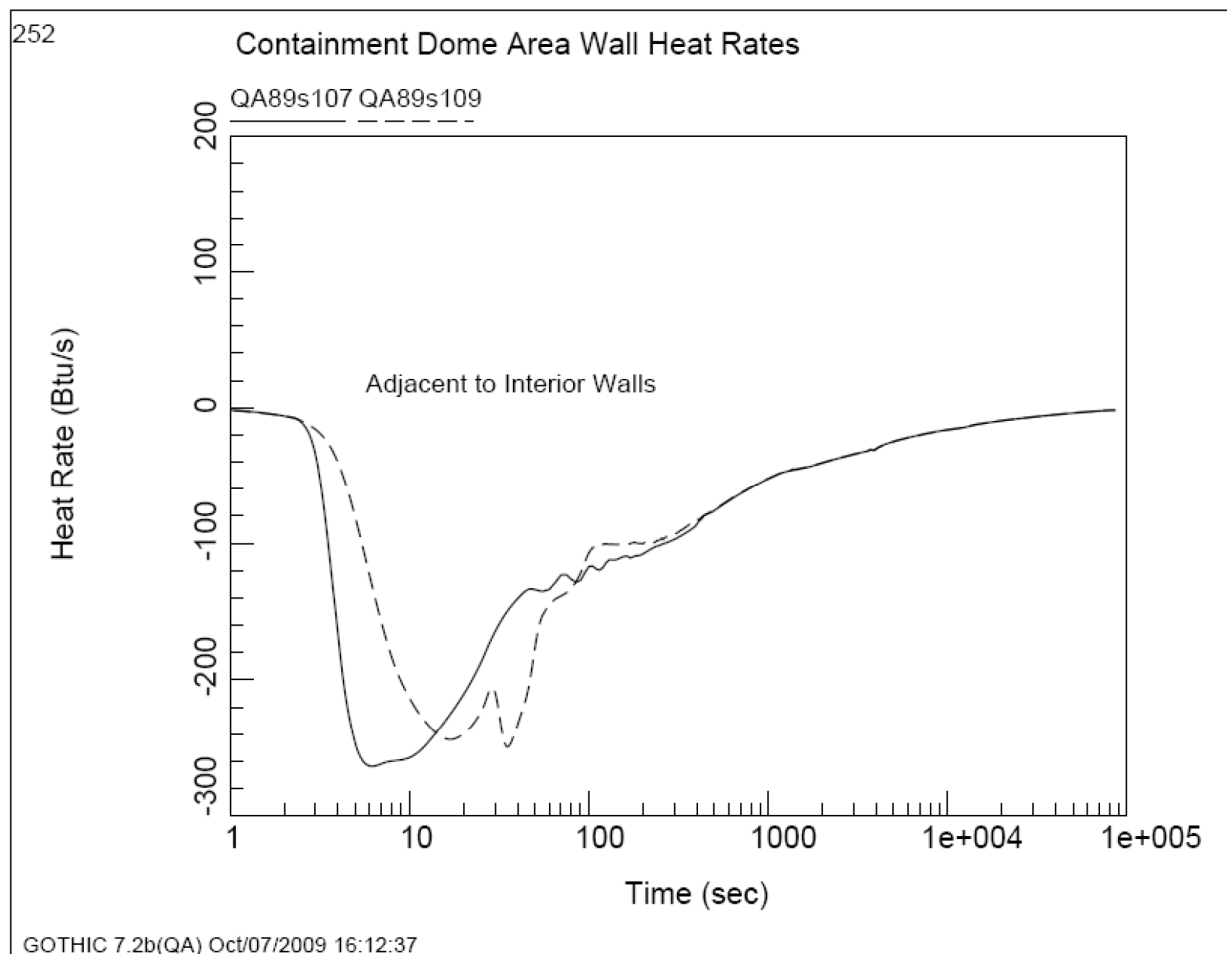


Figure 06.02.01-53-215—Containment Dome Interior Wall Heat Rates from the 93.51 ft to the 98.59 ft Elevation



**Figure 06.02.01-53-216—Containment Dome Structural Steel Heat Rates
from the 93.51 ft to the 98.59 ft Elevation**

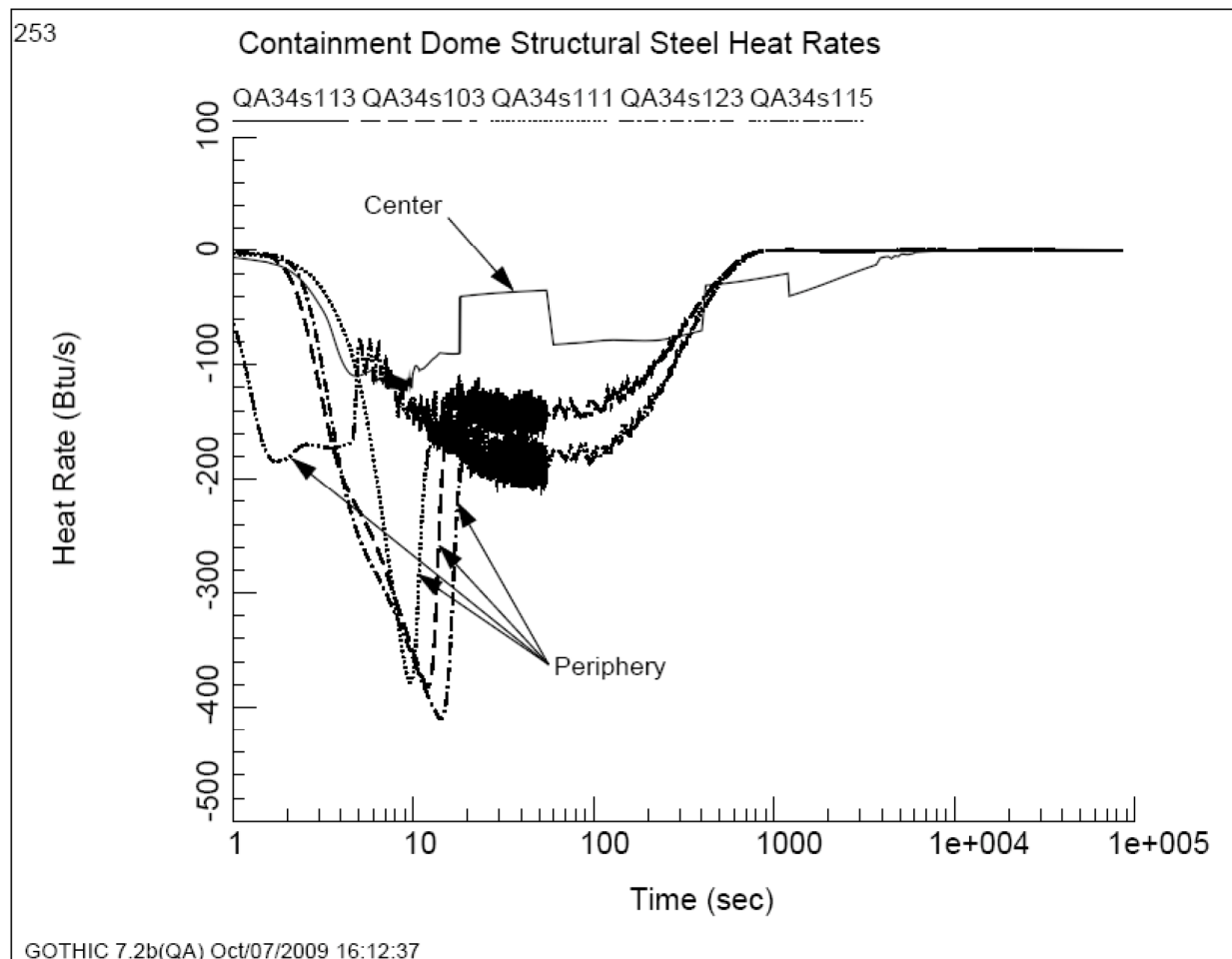
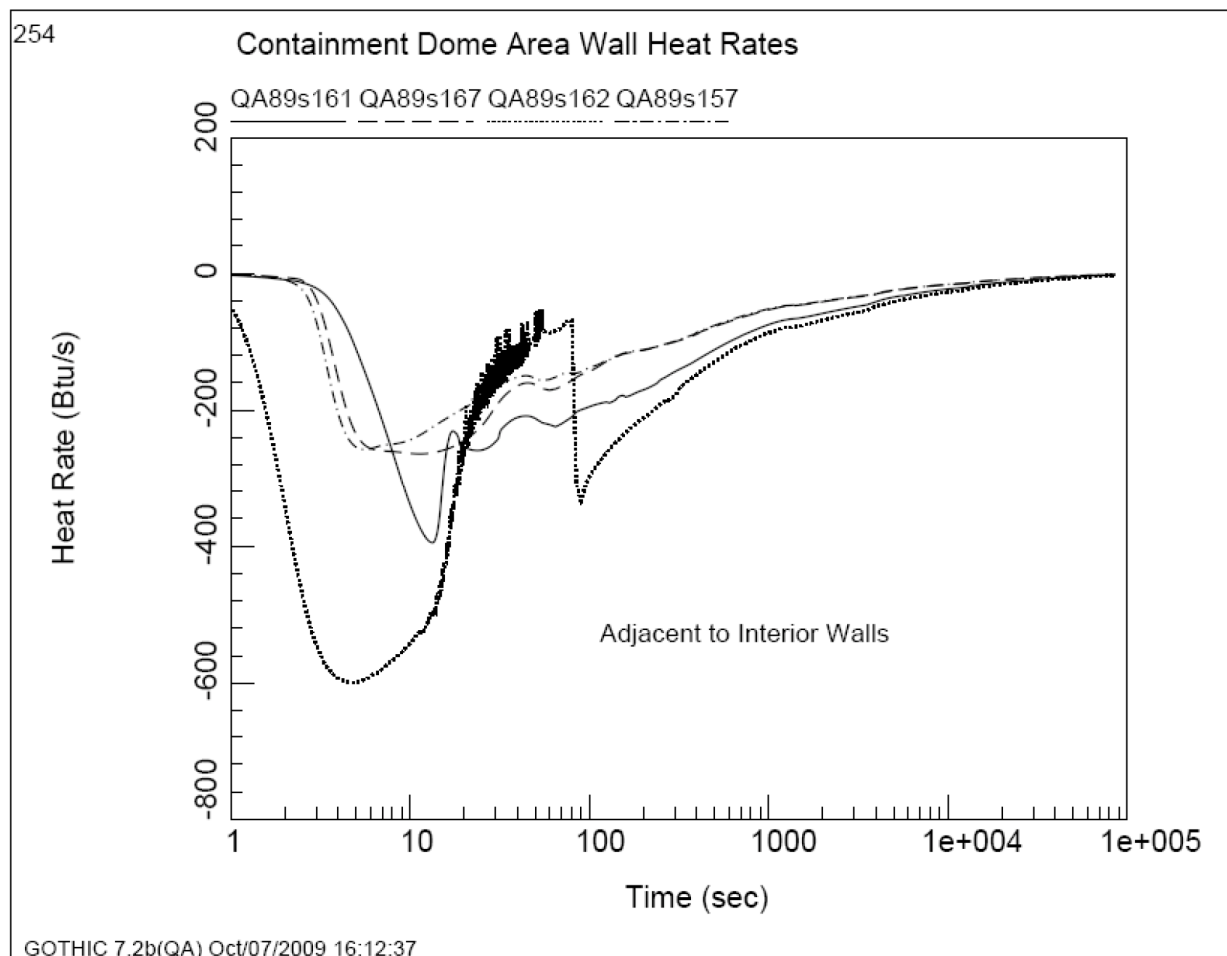
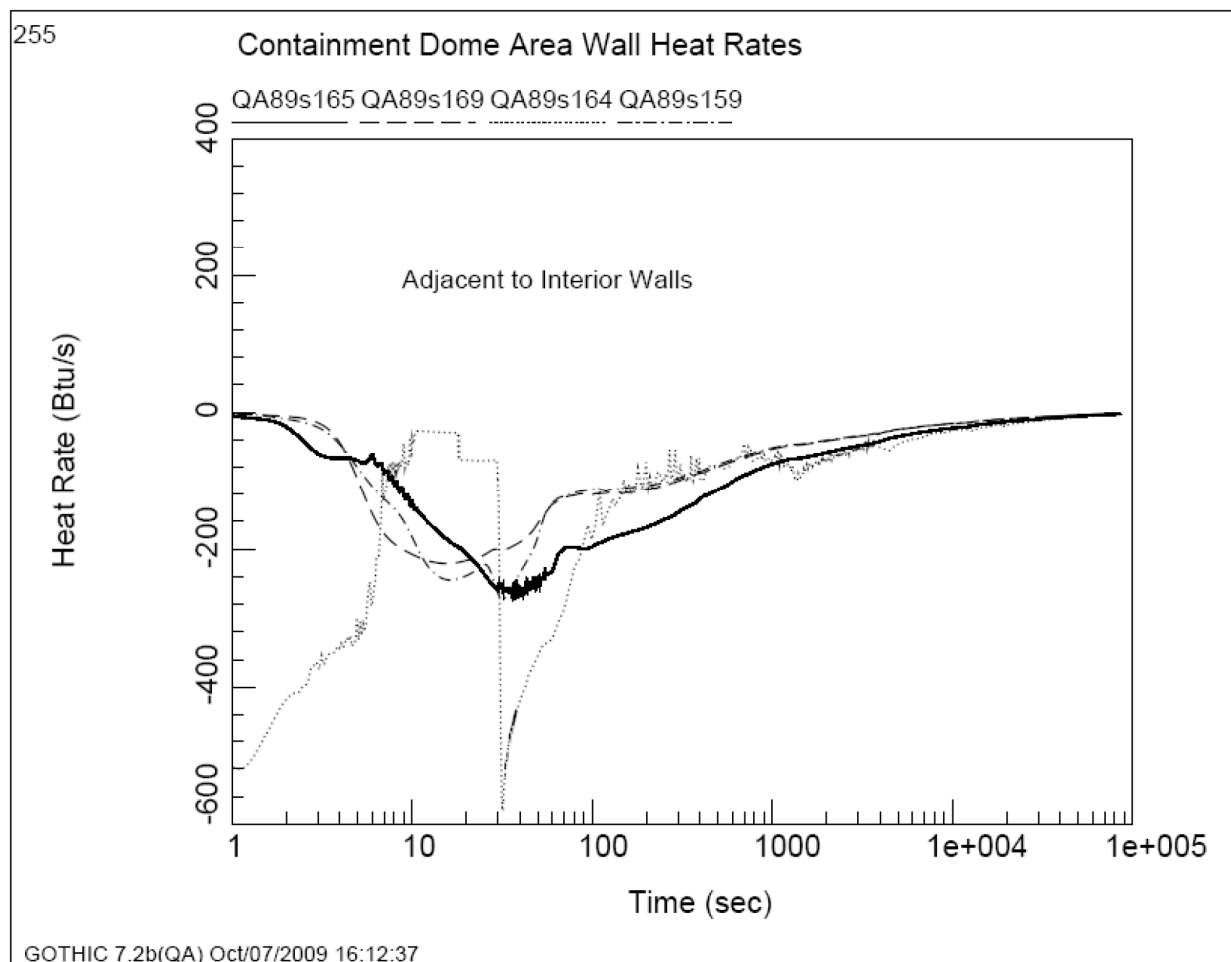


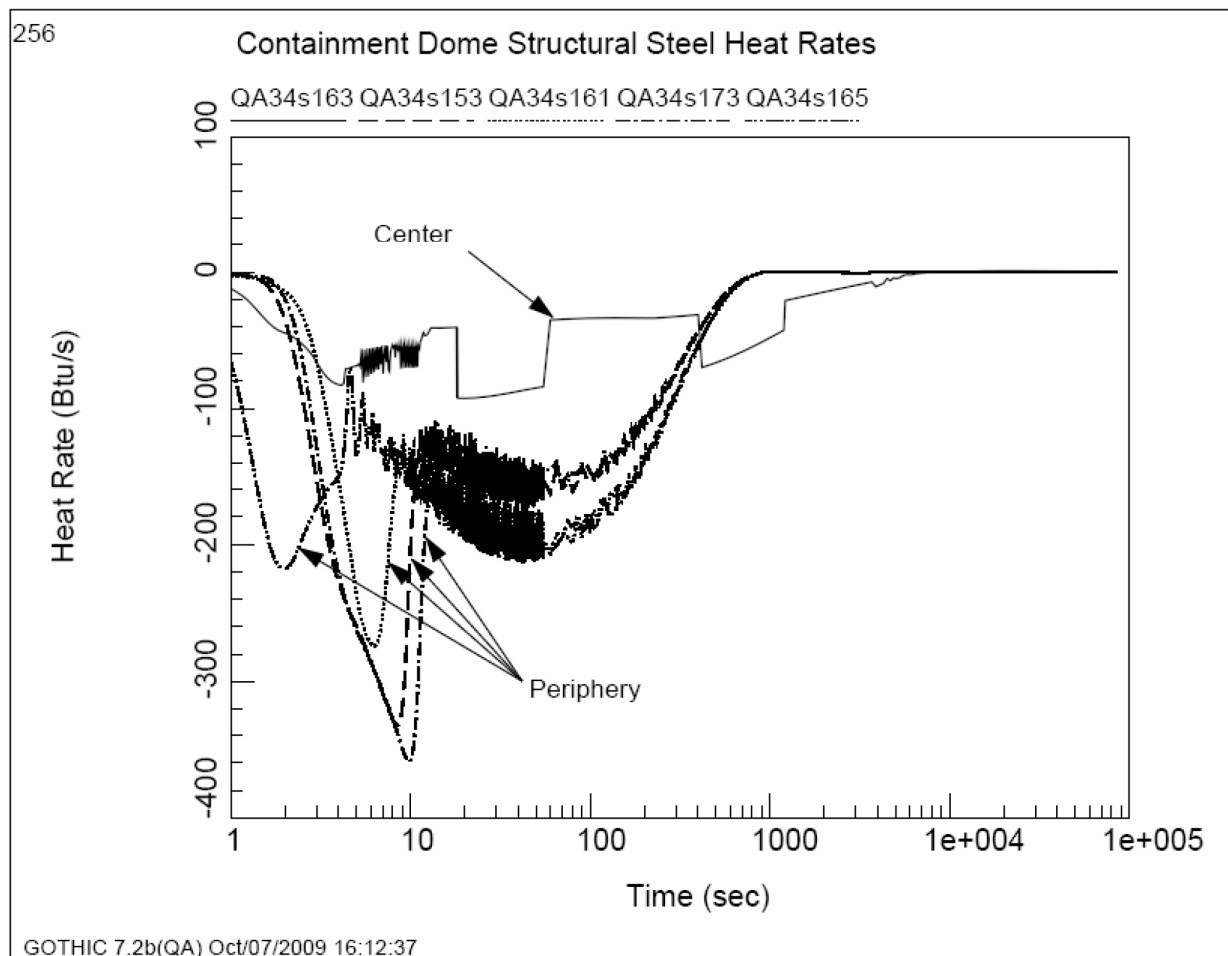
Figure 06.02.01-53-217—Containment Dome Interior Wall Heat Rates from the 103.68 ft to the 108.76 ft Elevation



**Figure 06.02.01-53-218—Containment Dome Interior Wall Heat Rates from
the 103.68 ft to the 108.76 ft Elevation**



**Figure 06.02.01-53-219—Containment Dome Structural Steel Heat Rates
from the 103.68 ft to the 108.76 ft Elevation**



**Figure 06.02.01-53-220—Containment Dome Structural Steel Heat Rates
from the 113.85 ft to the 119.90 ft Elevation**

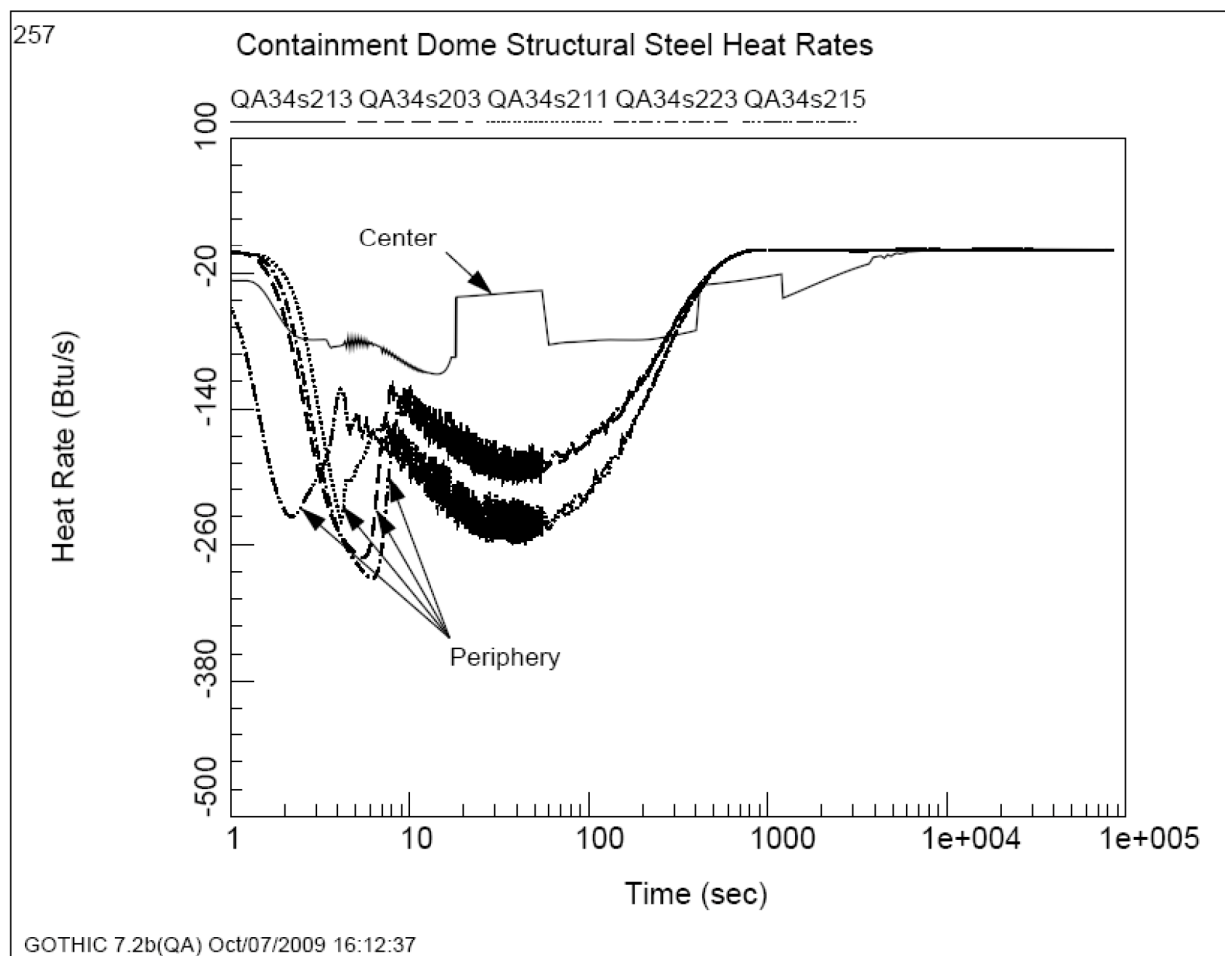
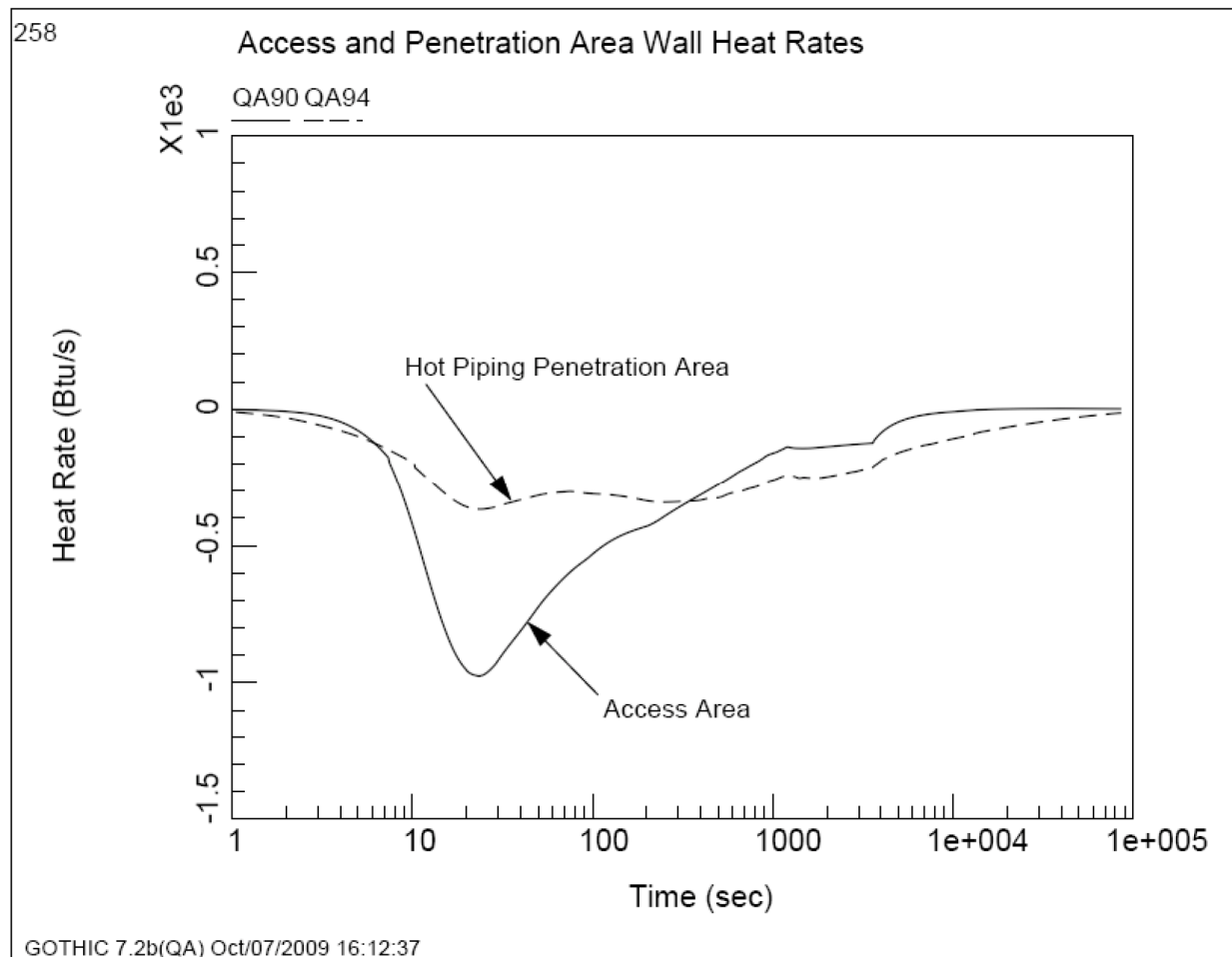


Figure 06.02.01-53-221—Structural Steel Heat Rates in the South Staircase

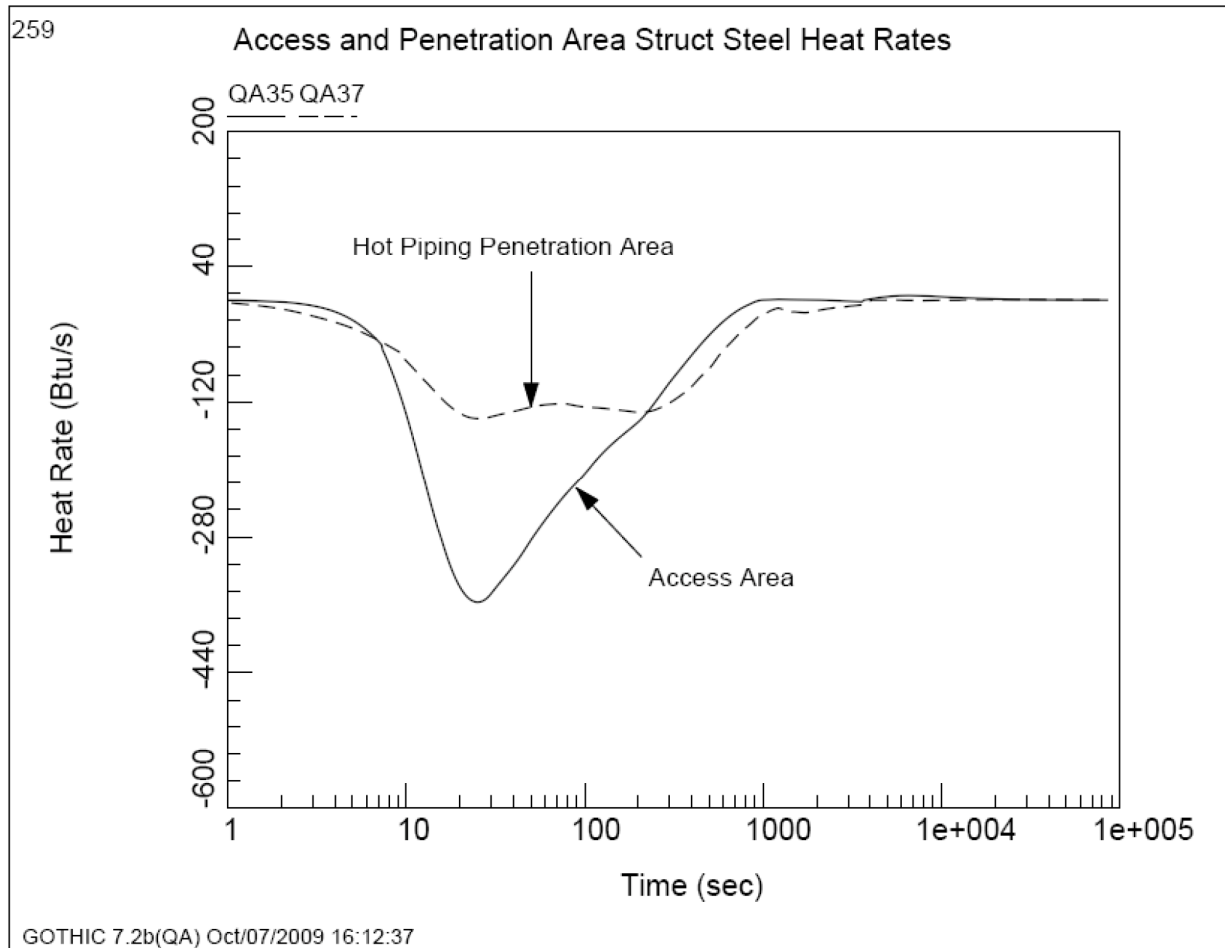
**Figure 06.02.01-53-222—Structural Steel Heat Rates in the Access Room
and the Hot Piping Penetration Room**

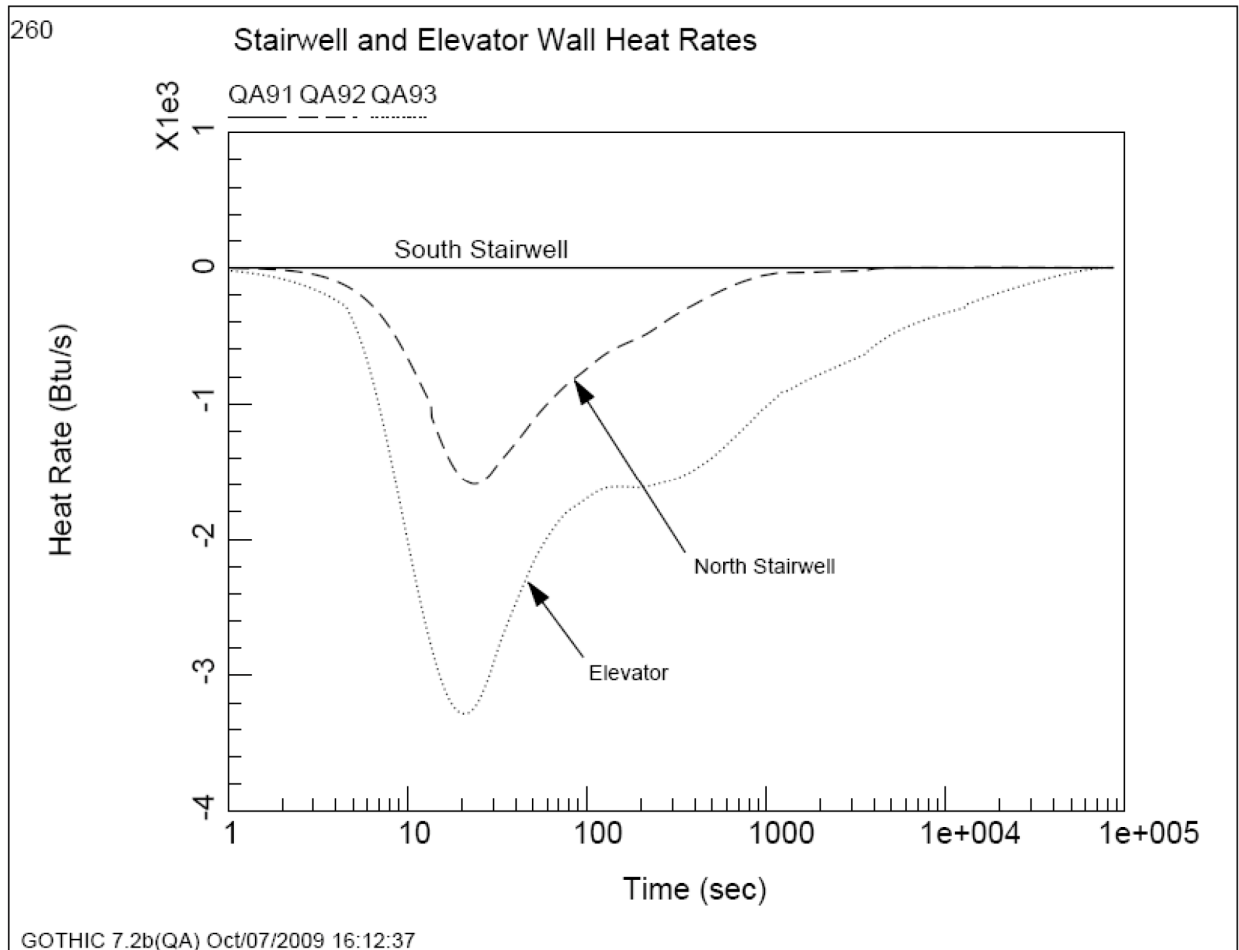
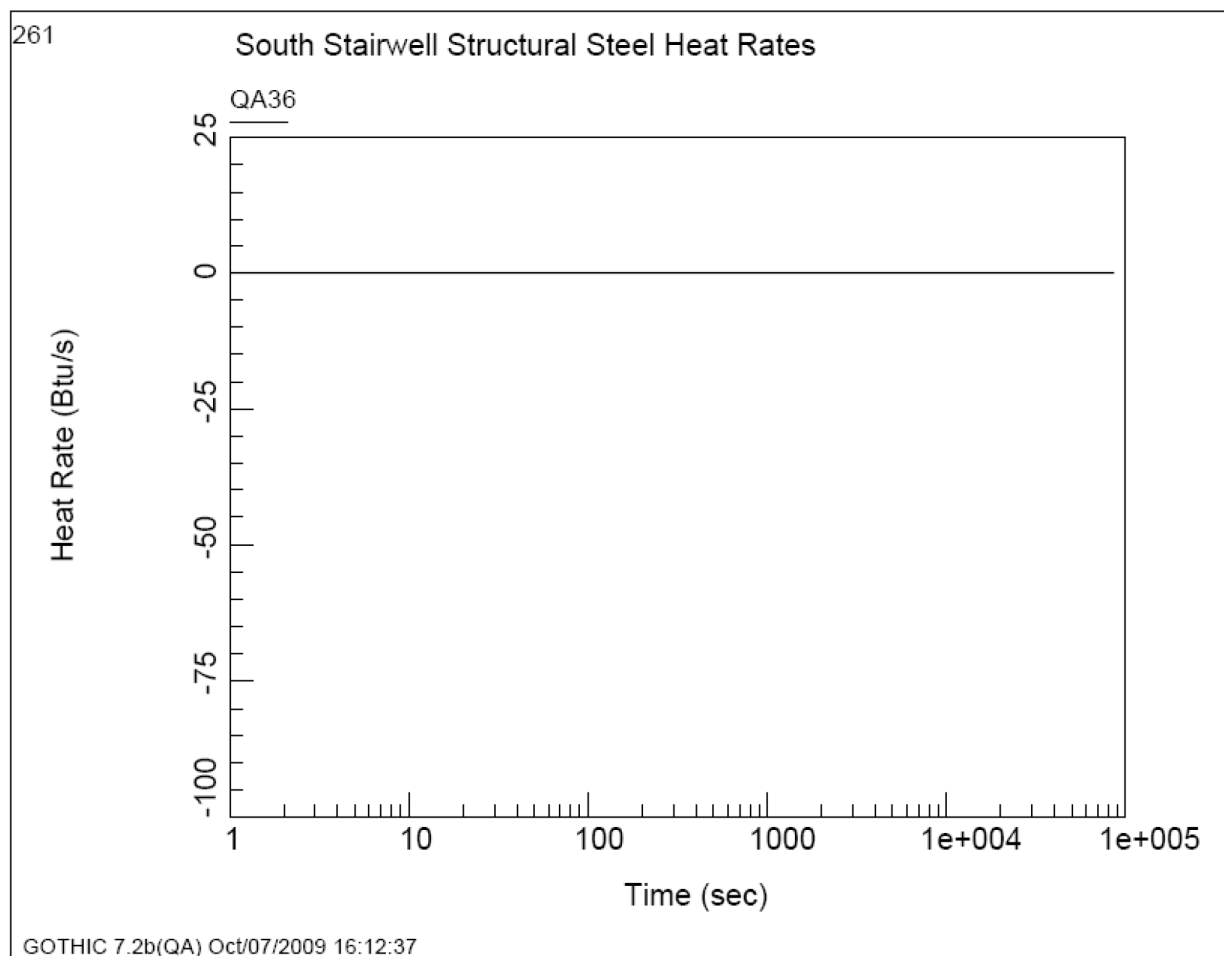
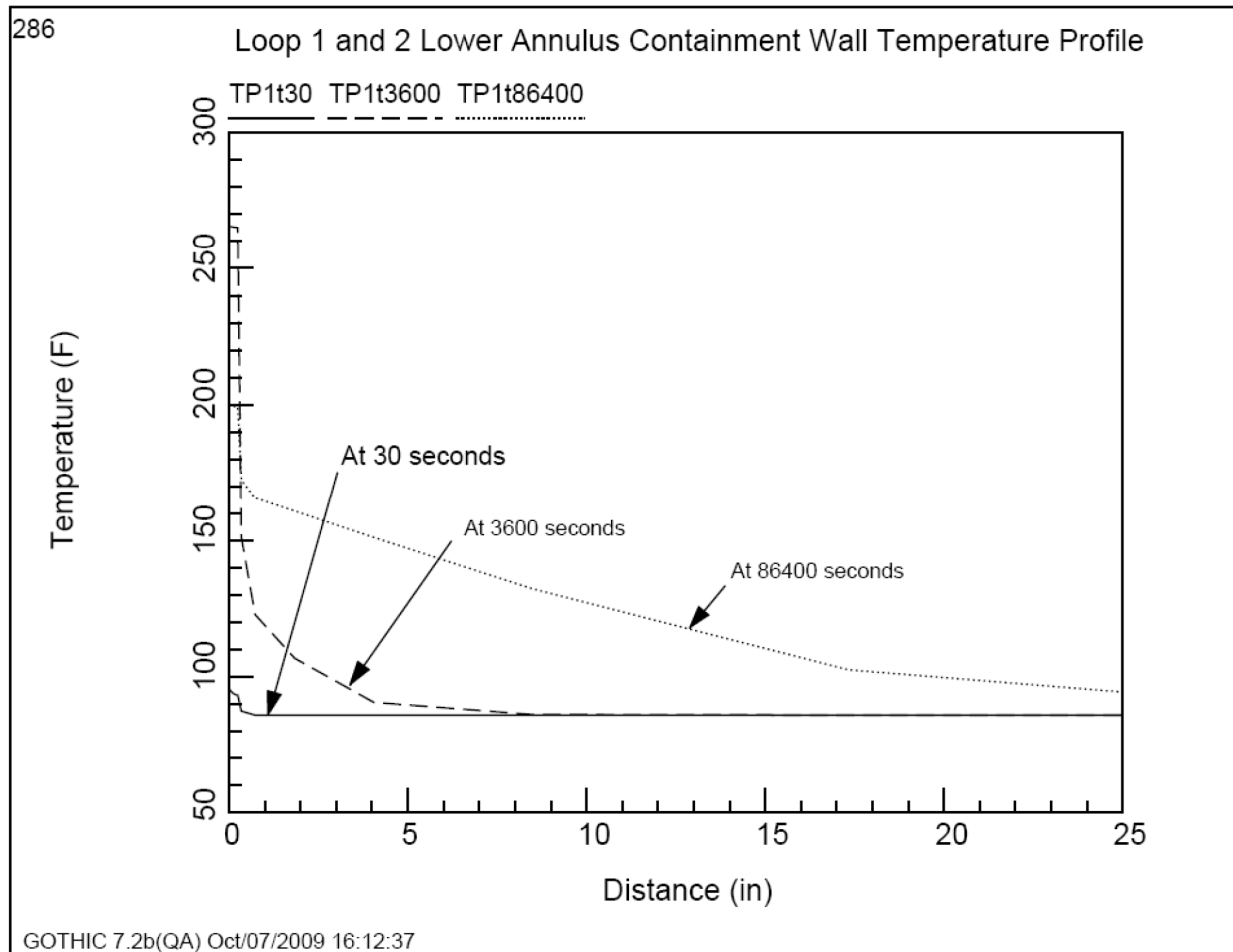
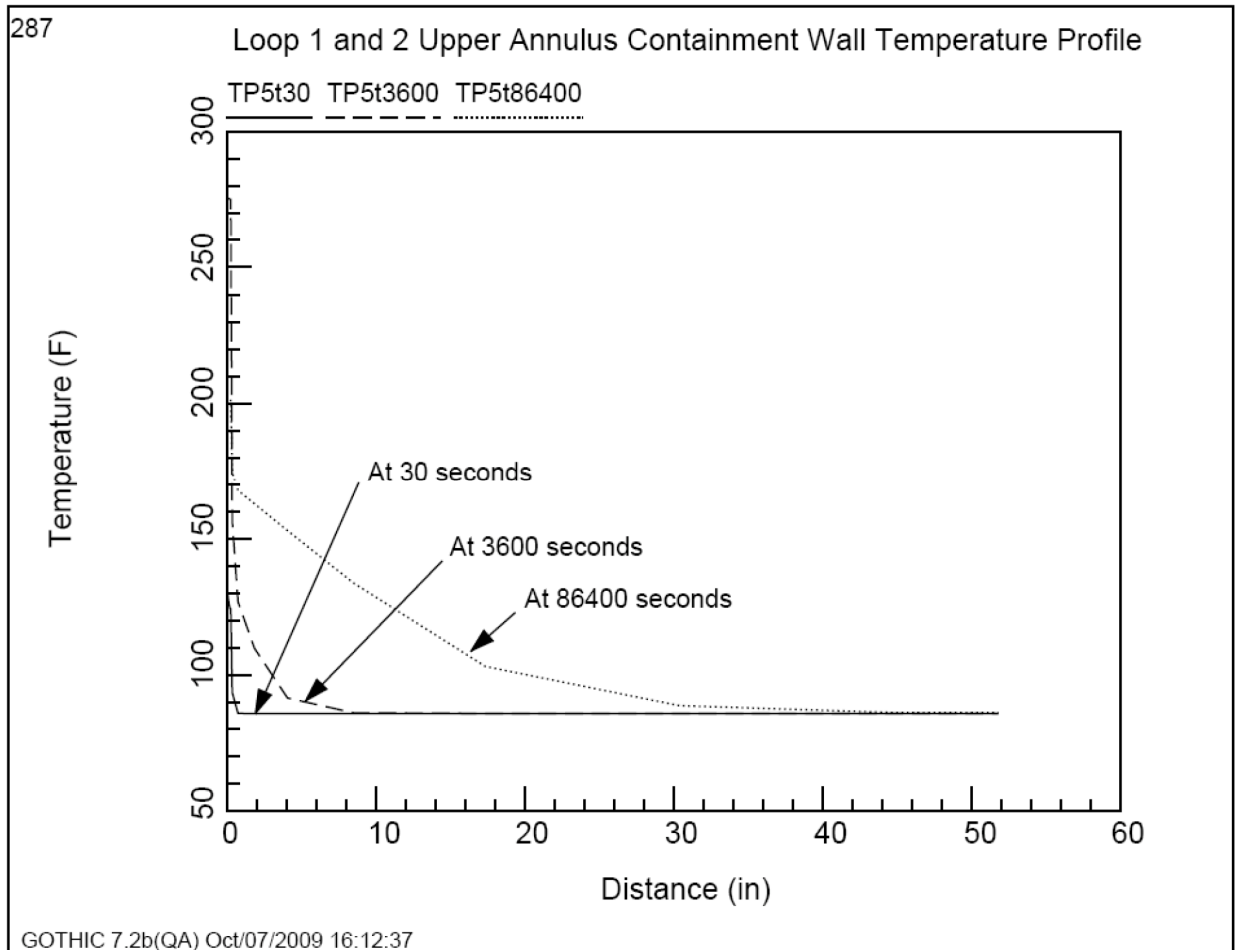
Figure 06.02.01-53-223—Wall Heat Rates in the North and South Staircases and the Elevator

Figure 06.02.01-53-224—Structural Steel Heat Rates in the South Staircase

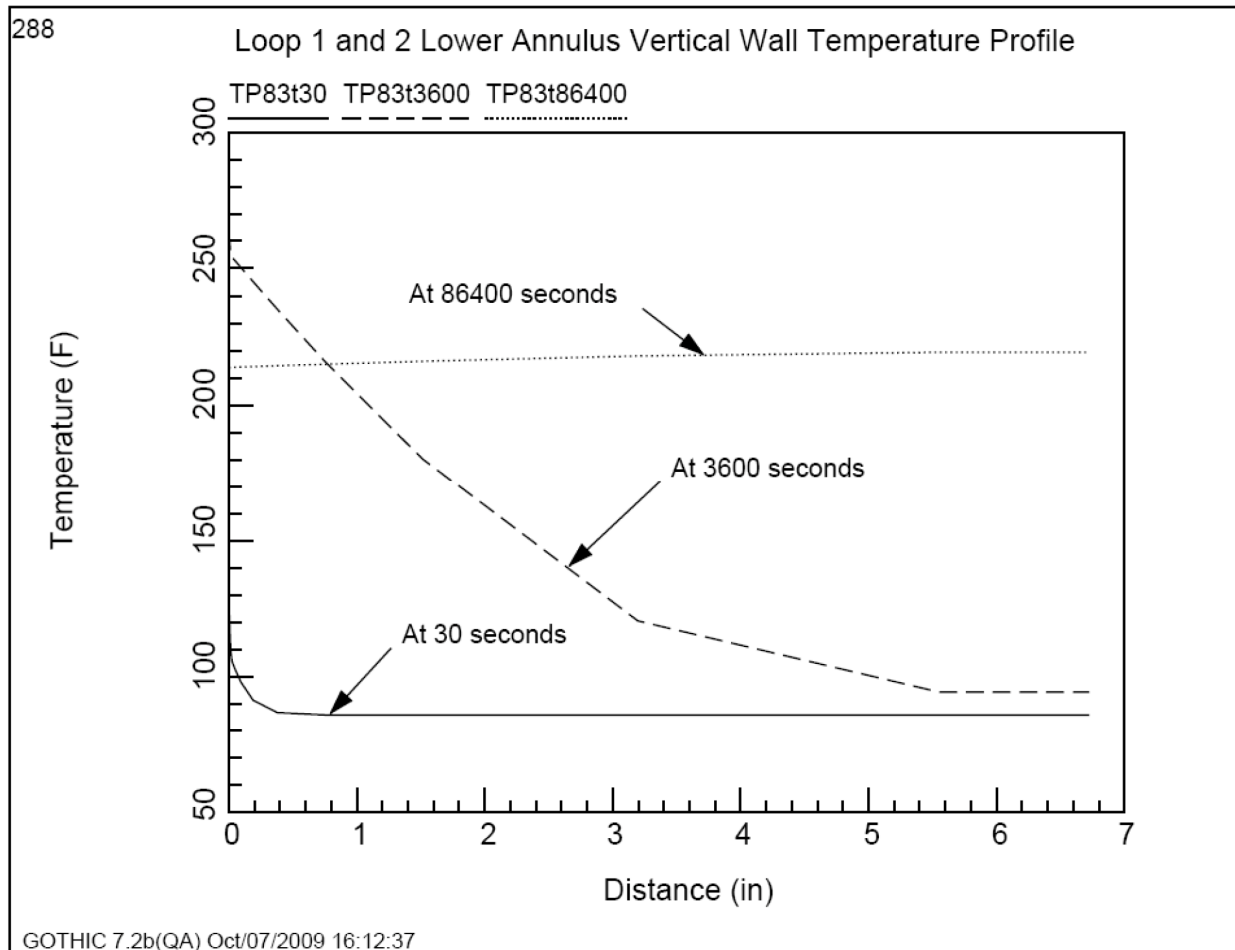
**Figure 06.02.01-53-225—Temperature Profile across the Loop 1 and 2
Lower Annulus Containment Wall**



**Figure 06.02.01-53-226—Temperature Profile across the Loop 1 and 2
Upper Annulus Containment Wall**



**Figure 06.02.01-53-227—Temperature Profile across the Loop 1 and 2
Lower Annulus Vertical Wall**



**Figure 06.02.01-53-228—Temperature Profile across the Loop 1 and 2
Upper Annulus Vertical Wall**

