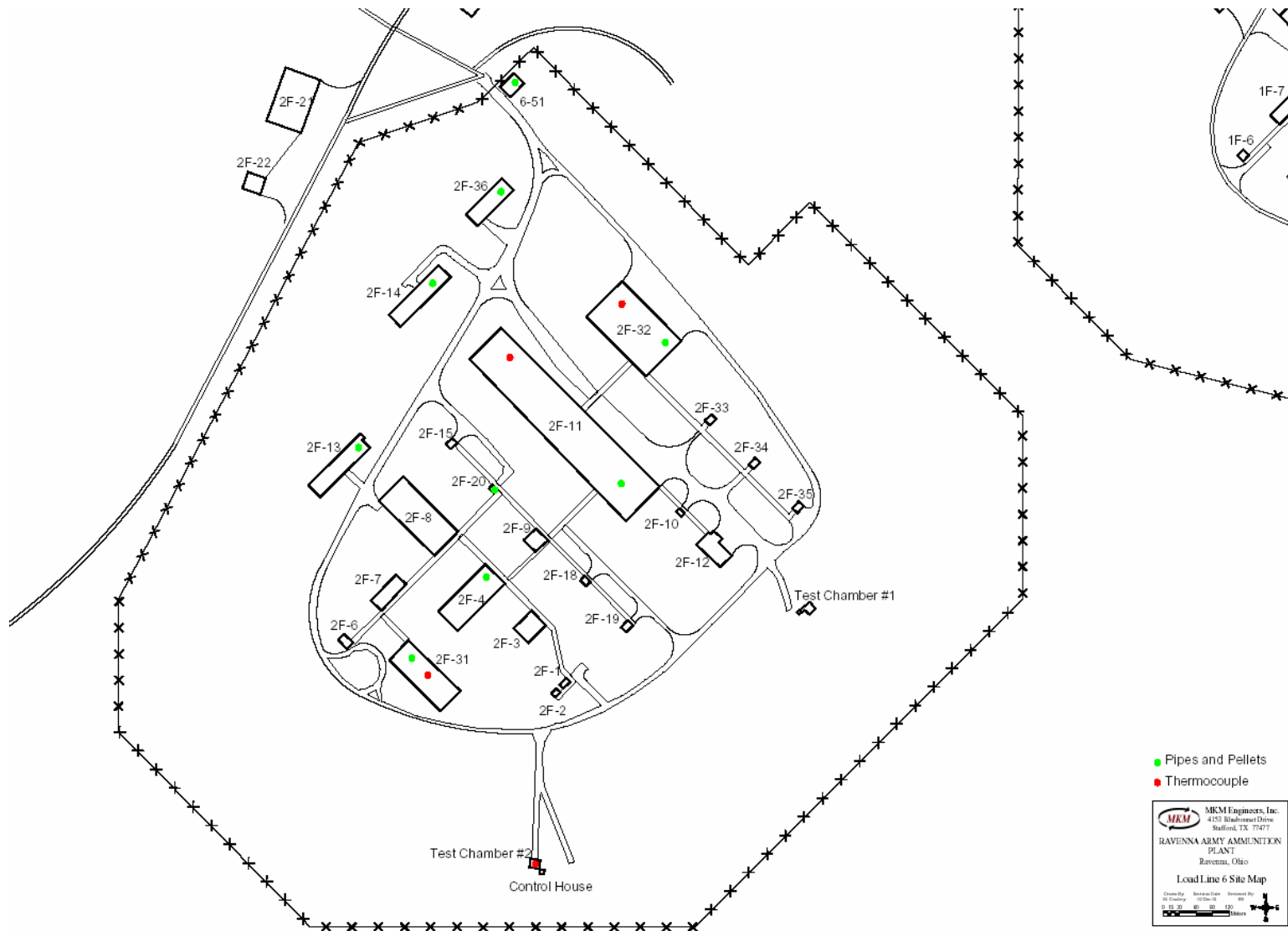**Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A**

Temperature Monitoring Locations – LL6

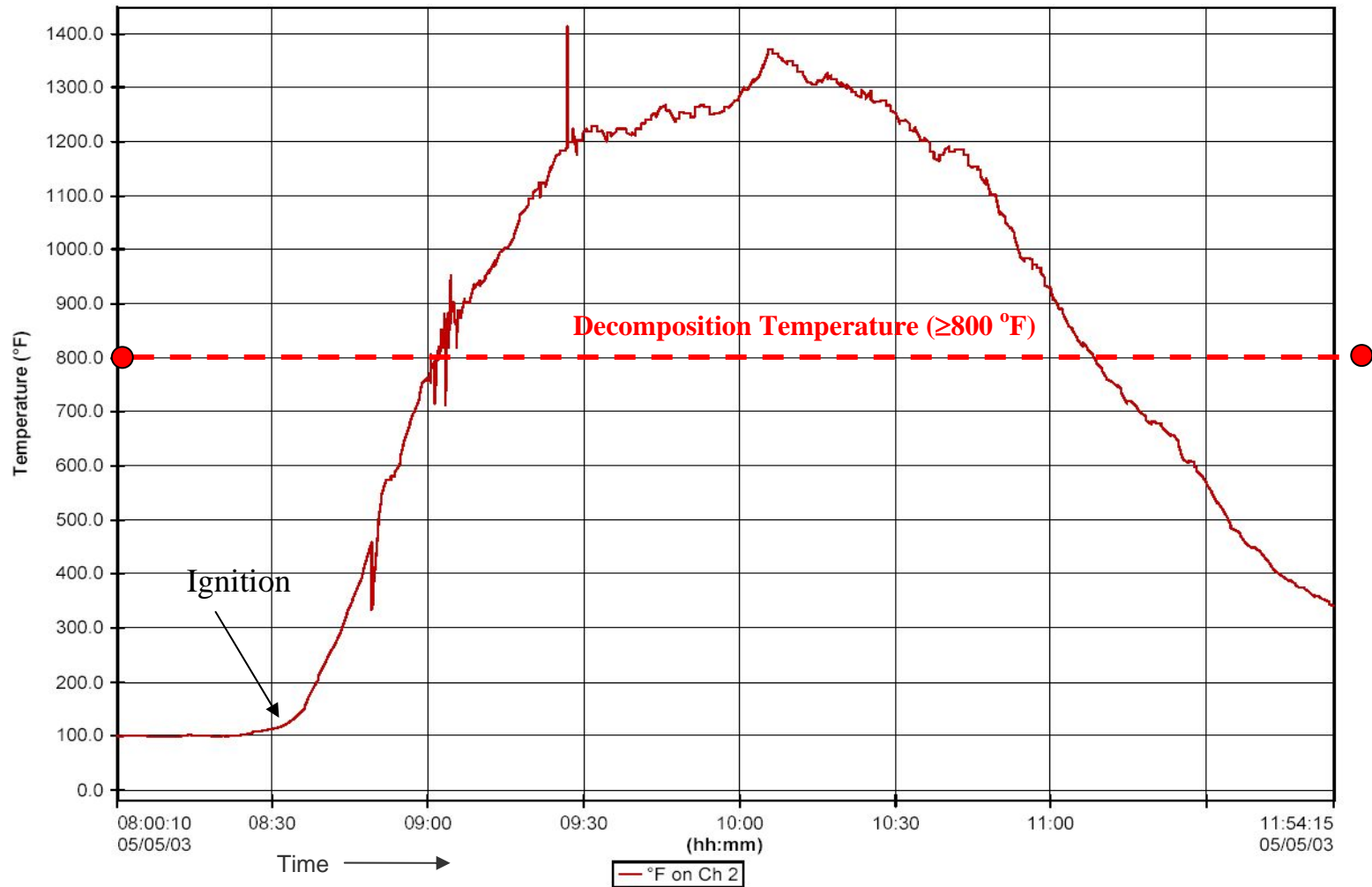**Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A**

LL-6
Thermocouple
Data Charts

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Data Logger # 1

Bldg. /Ramp: 2F-31

Rationale for Placing Thermocouple in Bldg. 2F-31: Random

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

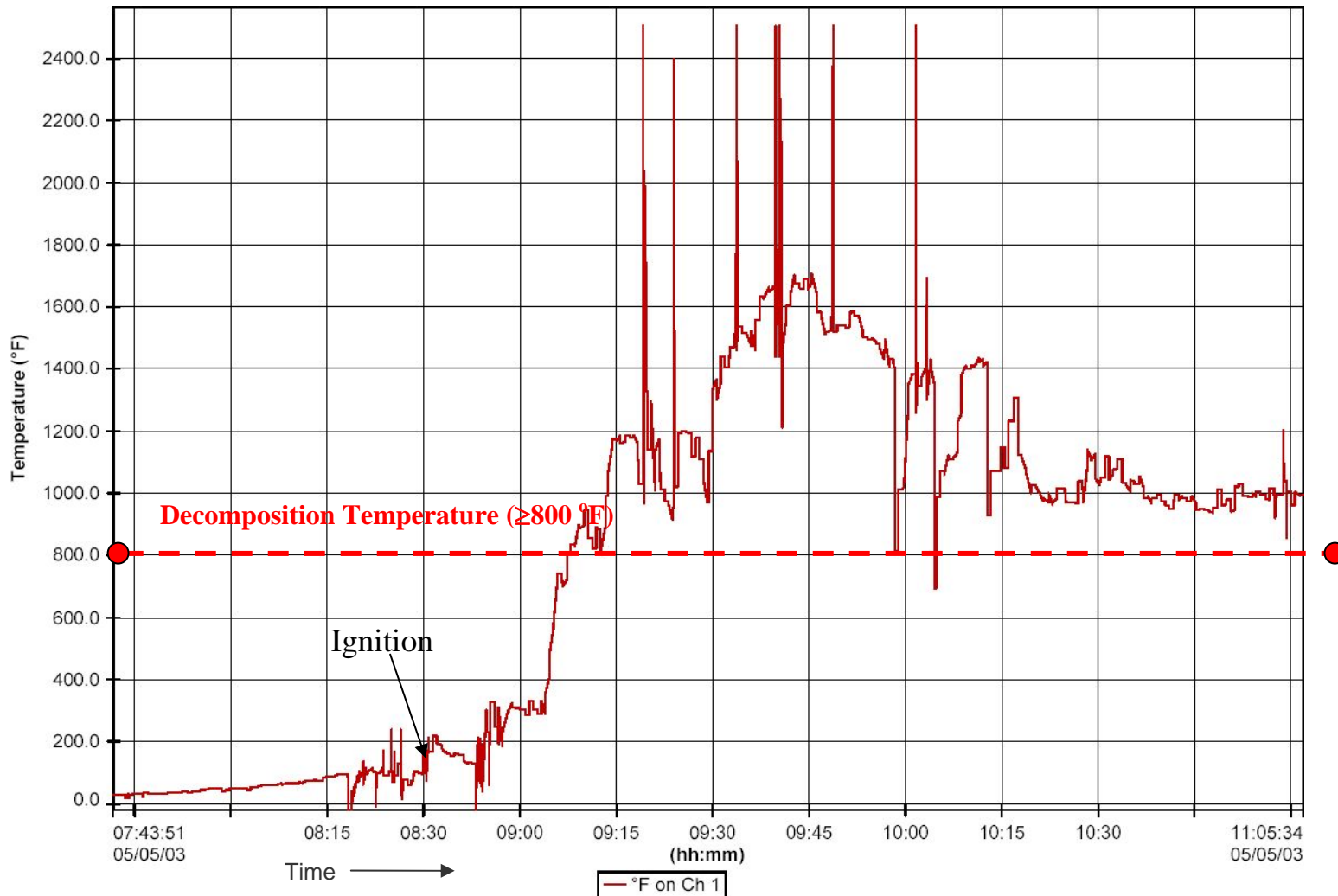**Data Logger # 2**　　　　　　　　　　　　　　　　　　　**Bldg. /Ramp: 2F-32**

Rationale for Placing Thermocouple in Bldg. 2F-32: Random

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Data Logger # 2 **Bldg. /Ramp: Test Chamber #2**
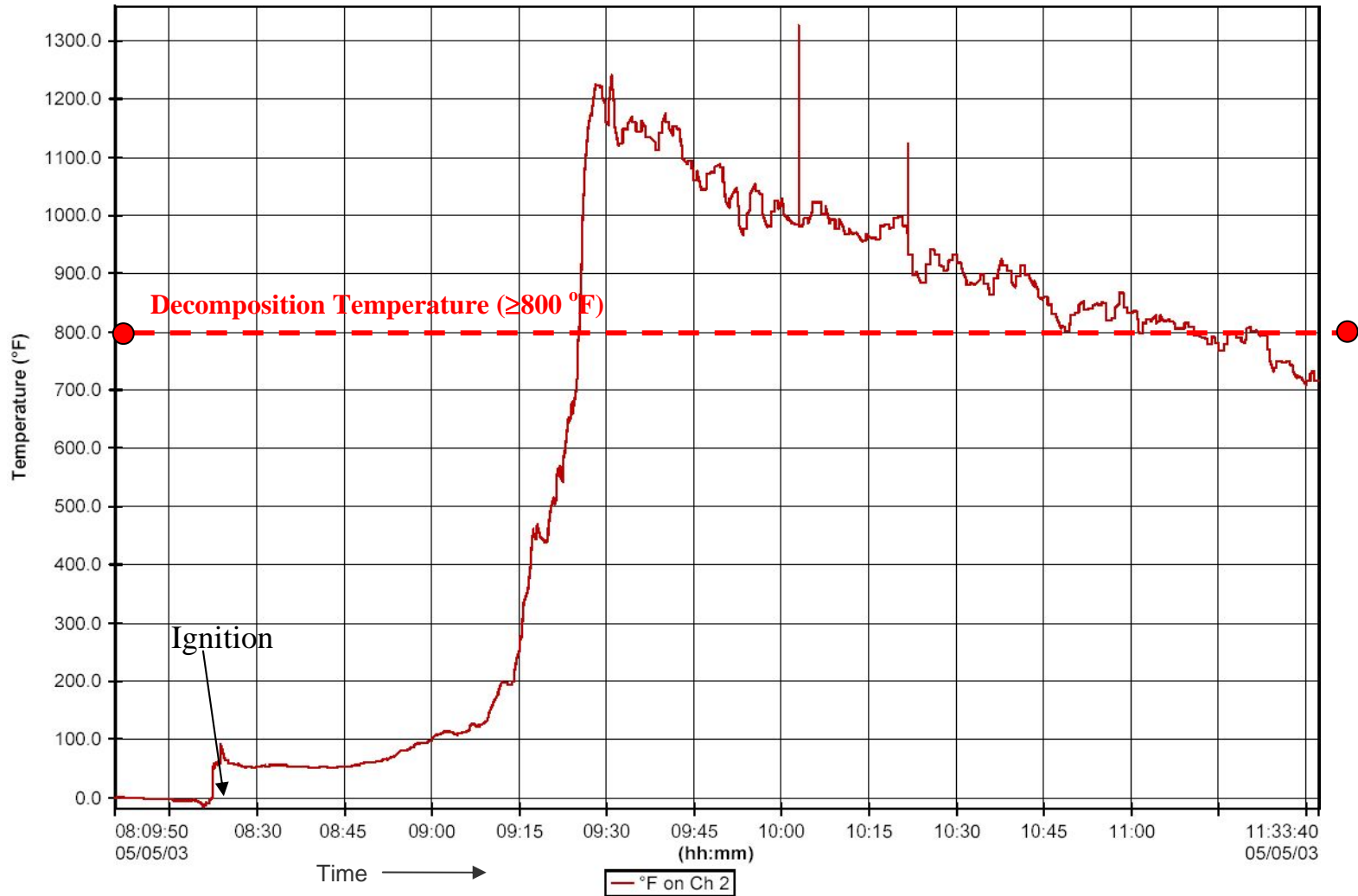

Rationale for Placing Thermocouple in Bldg. Test Chamber # 2: Random

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

LL-6
Temperature Indicating Pallets/Paint Results

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 01

Bldg. /Ramp: 2F-14

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Decomposition Temp.

800°F

Temperature Reached (F)

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Monitoring Data - LL6
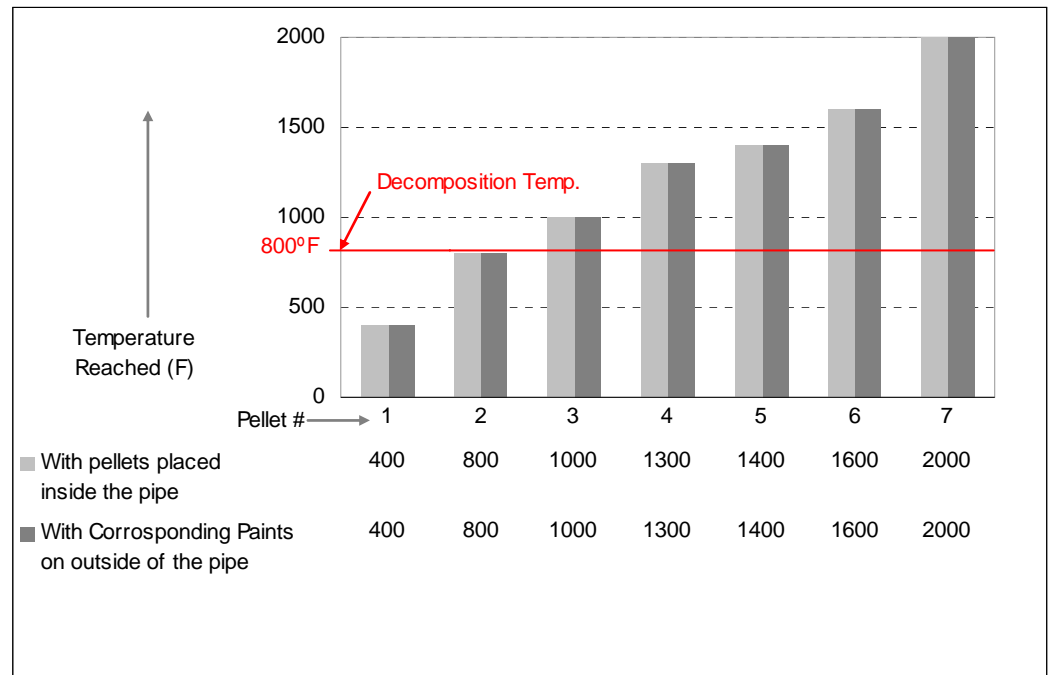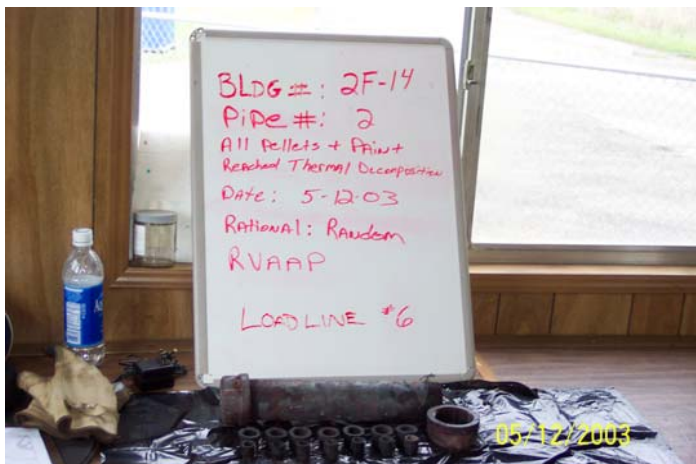
Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 02　　　　　　　　　　　　　　　　　　　　　　　　**Bldg. /Ramp: 2F-20**

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Decomposition Temp.
800°F

Temperature Reached (F)

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 05

Bldg. /Ramp: 2F-36

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
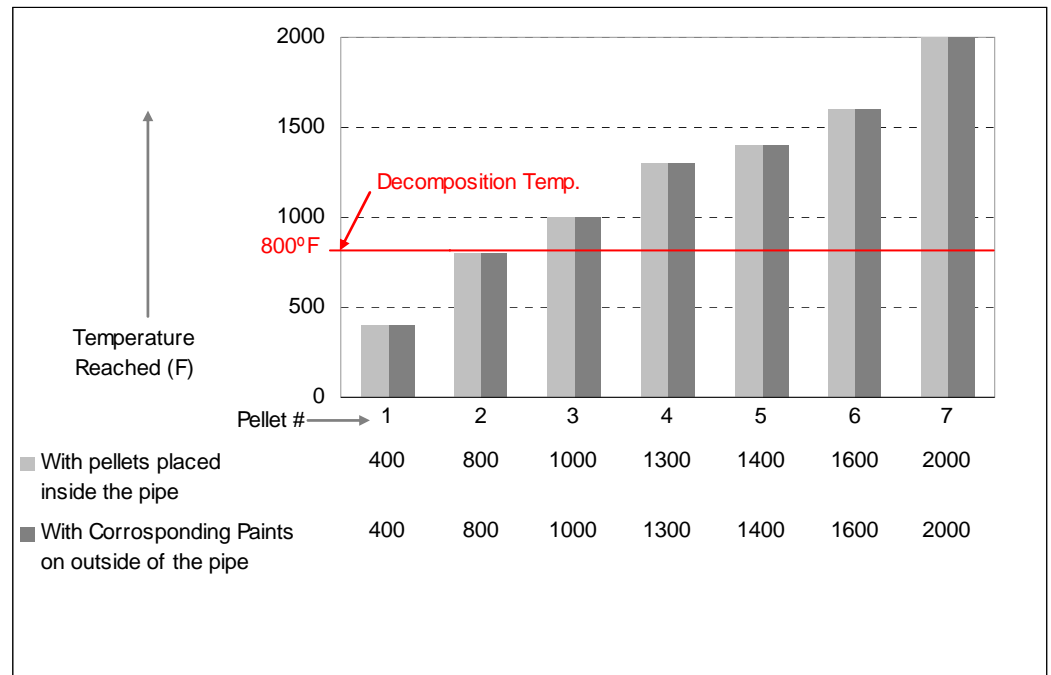With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.
800ºF

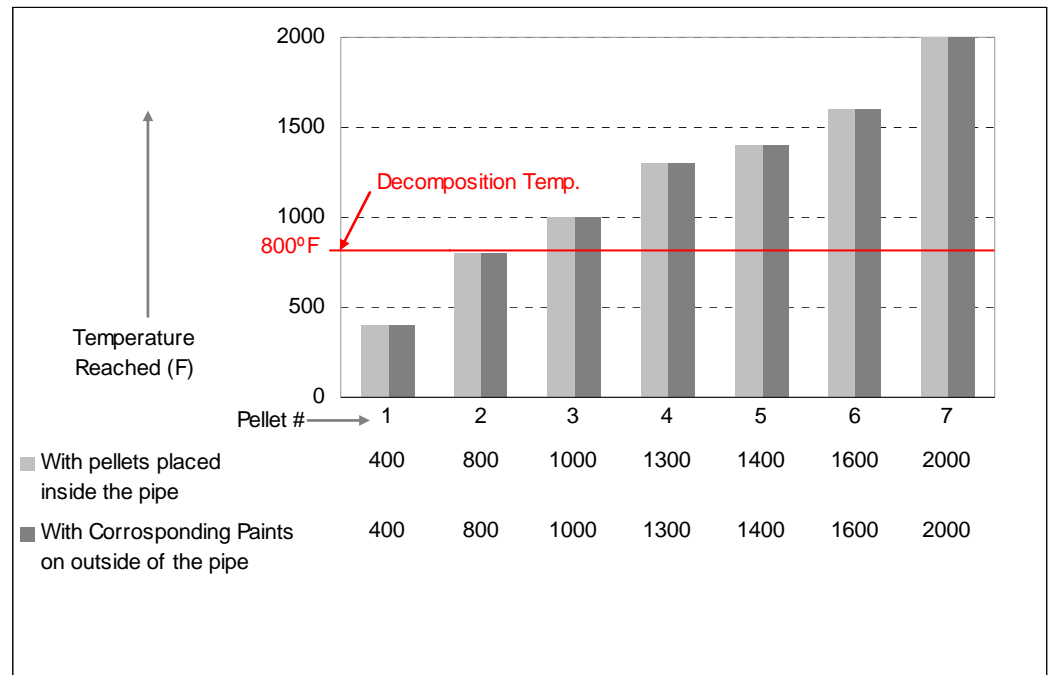**Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A**

Field ID # 17   **Bldg. /Ramp: 6-51**

Rationale for Placing Indicating Devices: Random

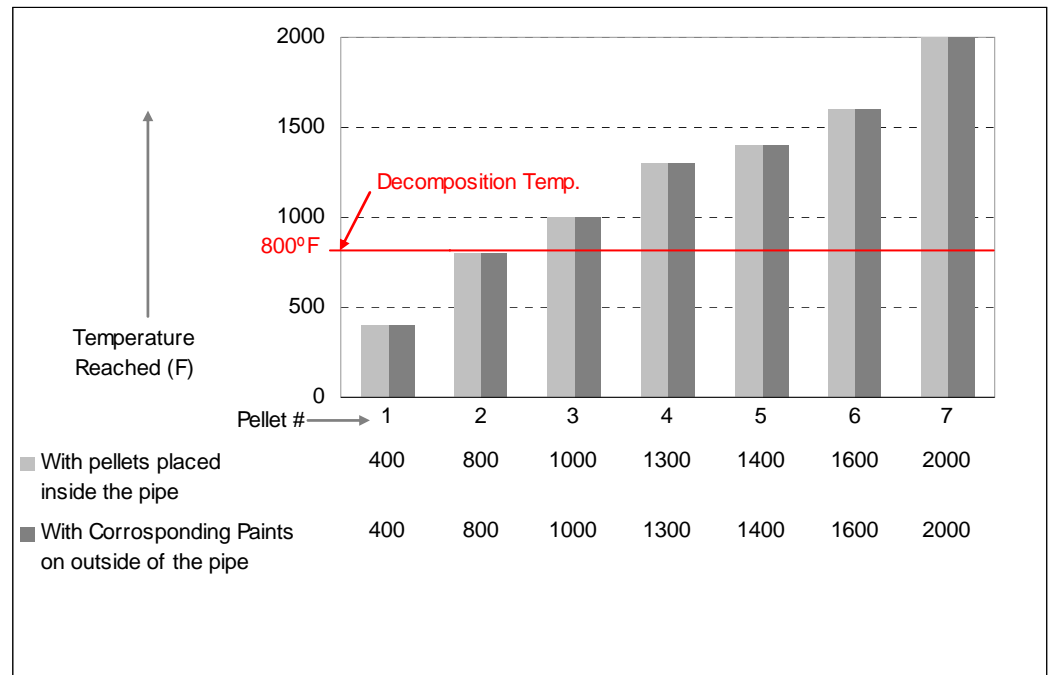**Max. Temperature Reached** With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Decomposition Temp.
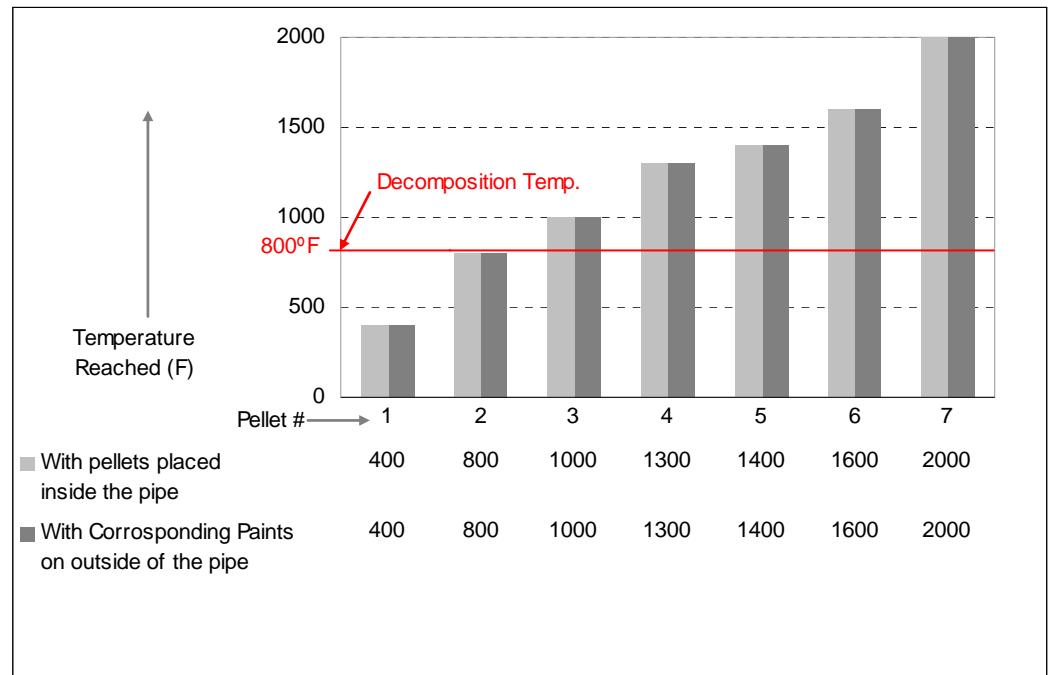800ºF

Temperature Reached (F)

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 20

Bldg. /Ramp: 2F-32

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

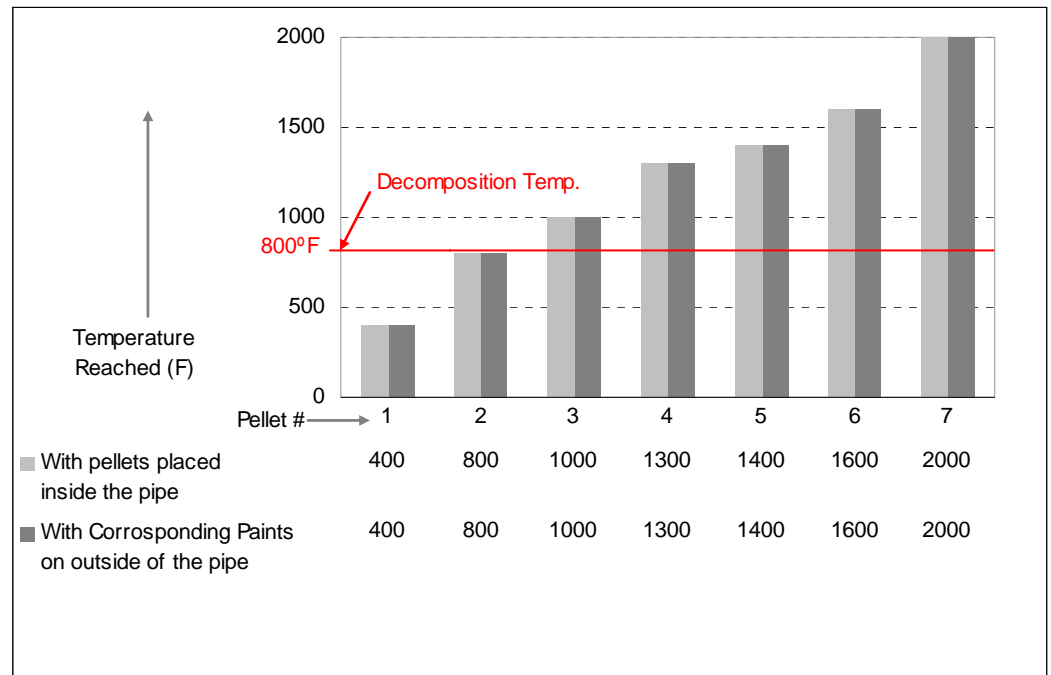**Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A**

Field ID # 28   **Bldg. /Ramp: 2F-11**

Rationale for Placing Indicating Devices: Random

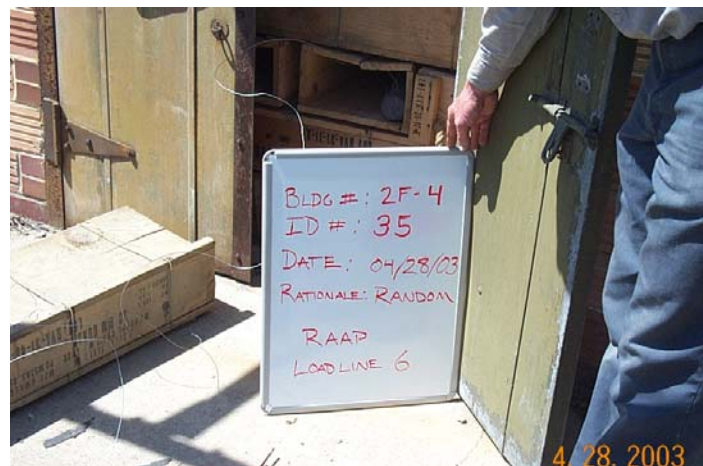**Max. Temperature Reached** With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.

800°F

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 35 **Bldg. /Ramp: 2F-4**

BLDG #: 2F-4
ID #: 35
DATE: 04/28/03
RATIONALE: RANDOM
RAAP
LOAD LINE 6

BLDG #: 2F-4
PIPE #: 35
All Pellets + Paint
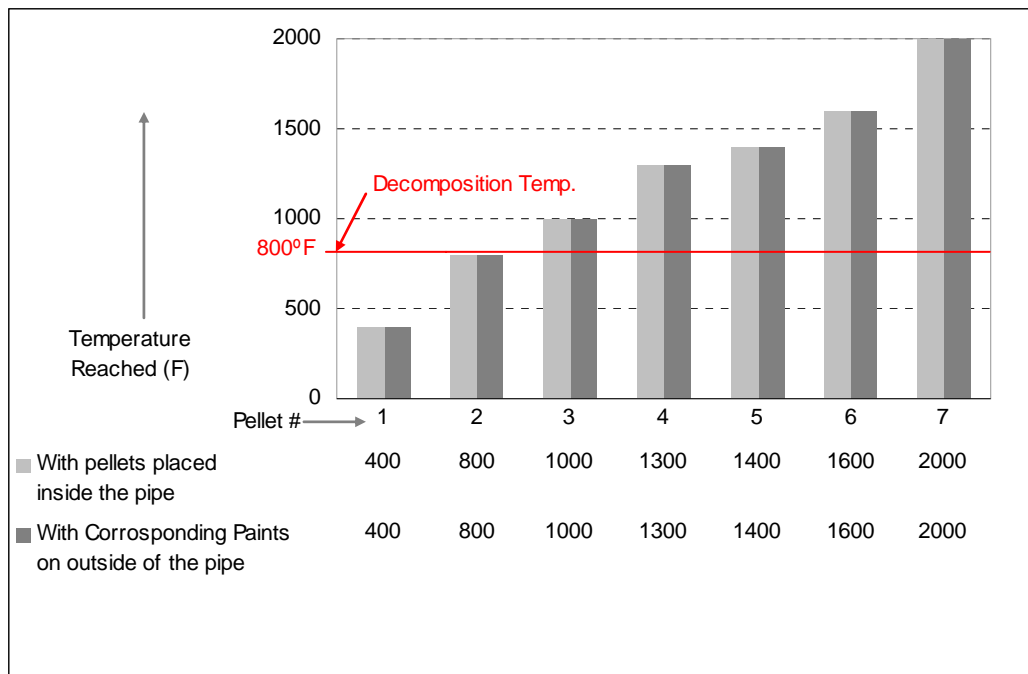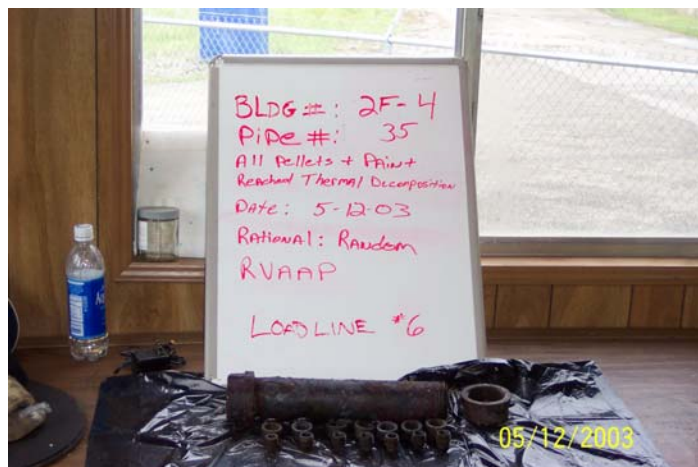Reached Thermal Decomposition
Date: 5-12-03
Rational: Random
RVAAP
LOAD LINE #6

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Decomposition Temp.
800°F

Temperature
Reached (F)

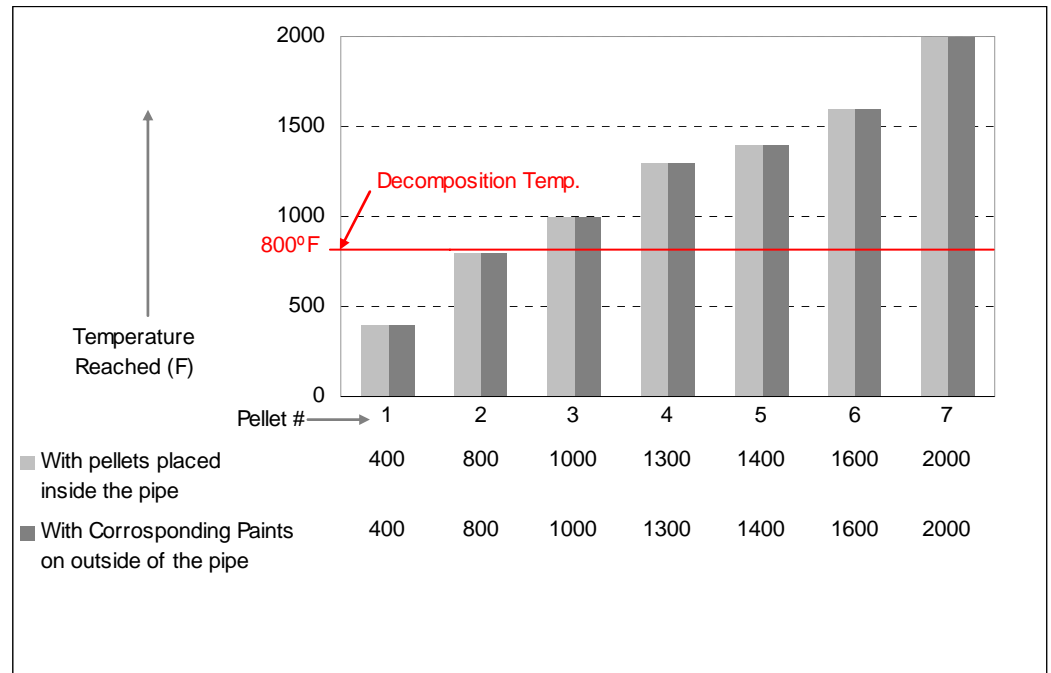| Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 49　　　　　　　　　　　　　　　　　　　　　　　**Bldg. /Ramp: 2F-31**

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
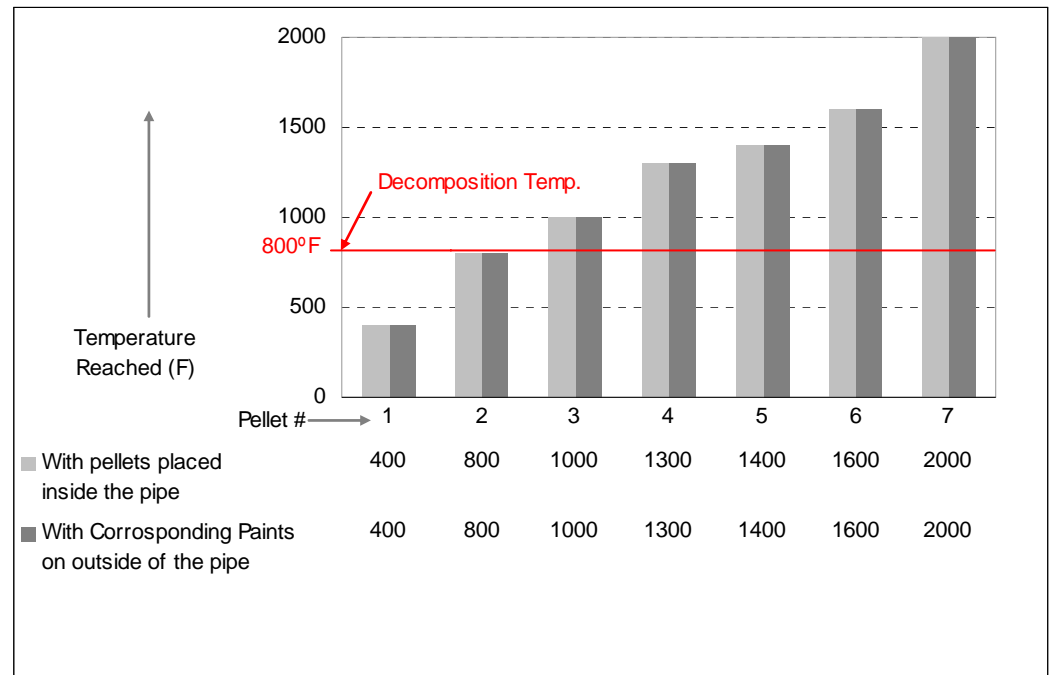With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.
800ºF

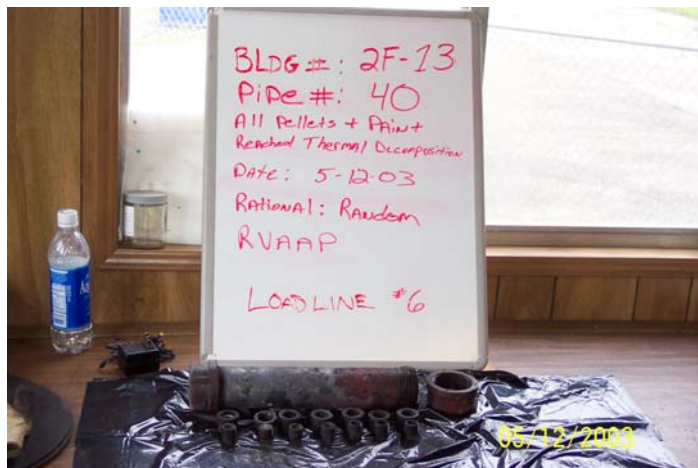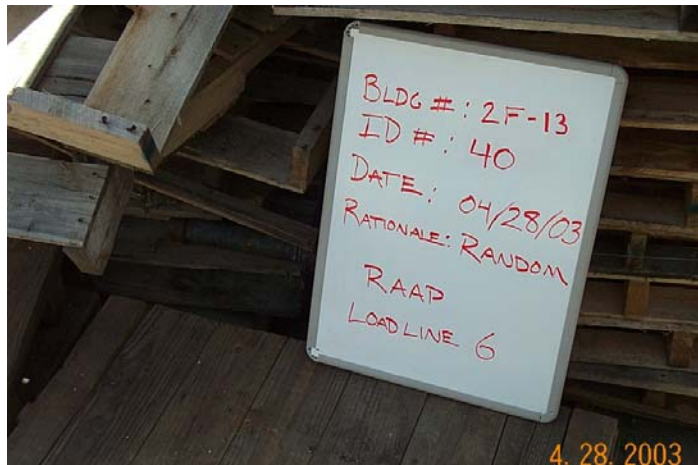**Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A**

Field ID # 40   **Bldg. /Ramp: 2F-13**

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.

800ºF

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

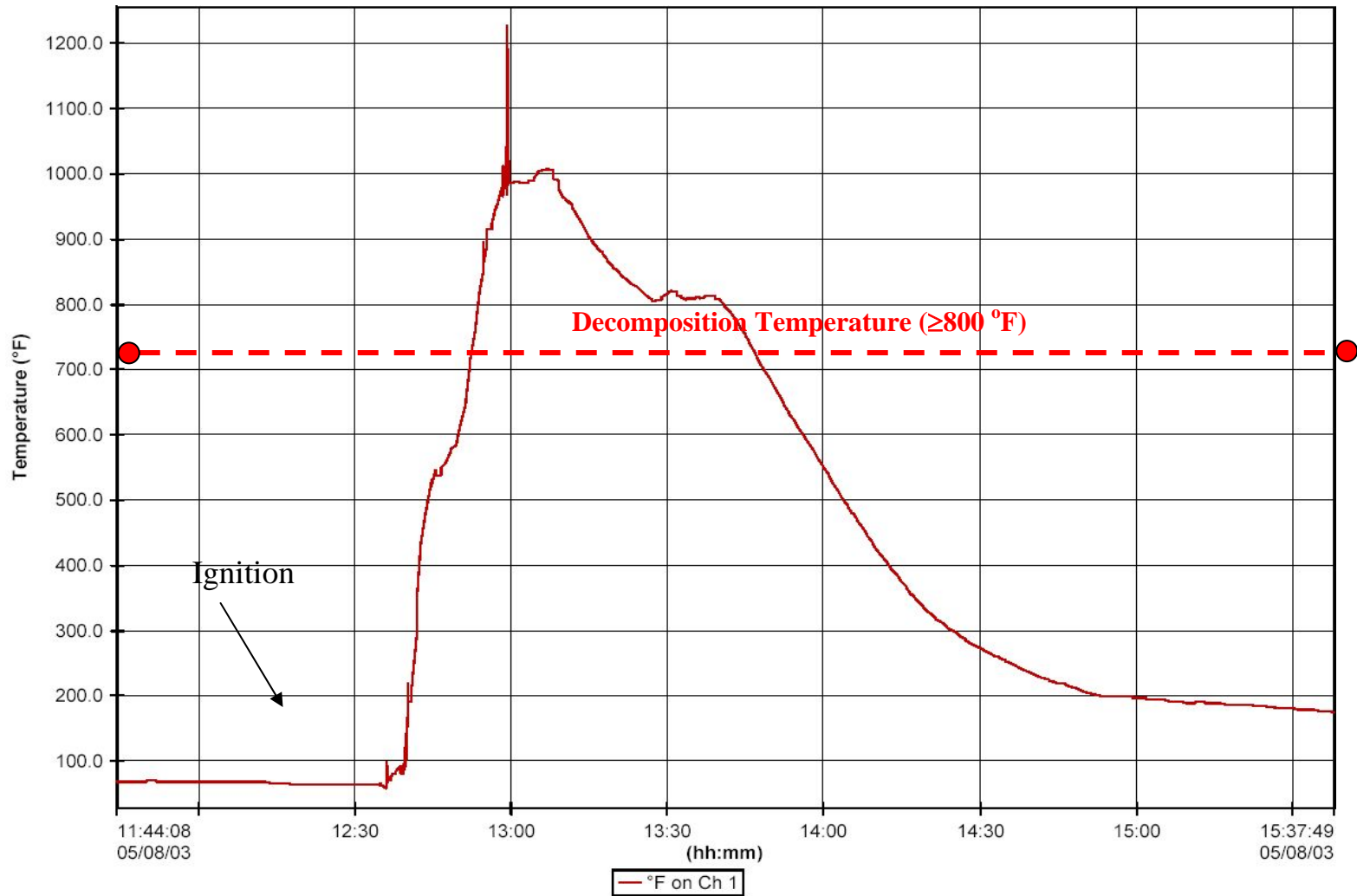## Temperature Monitoring Locations – LL9
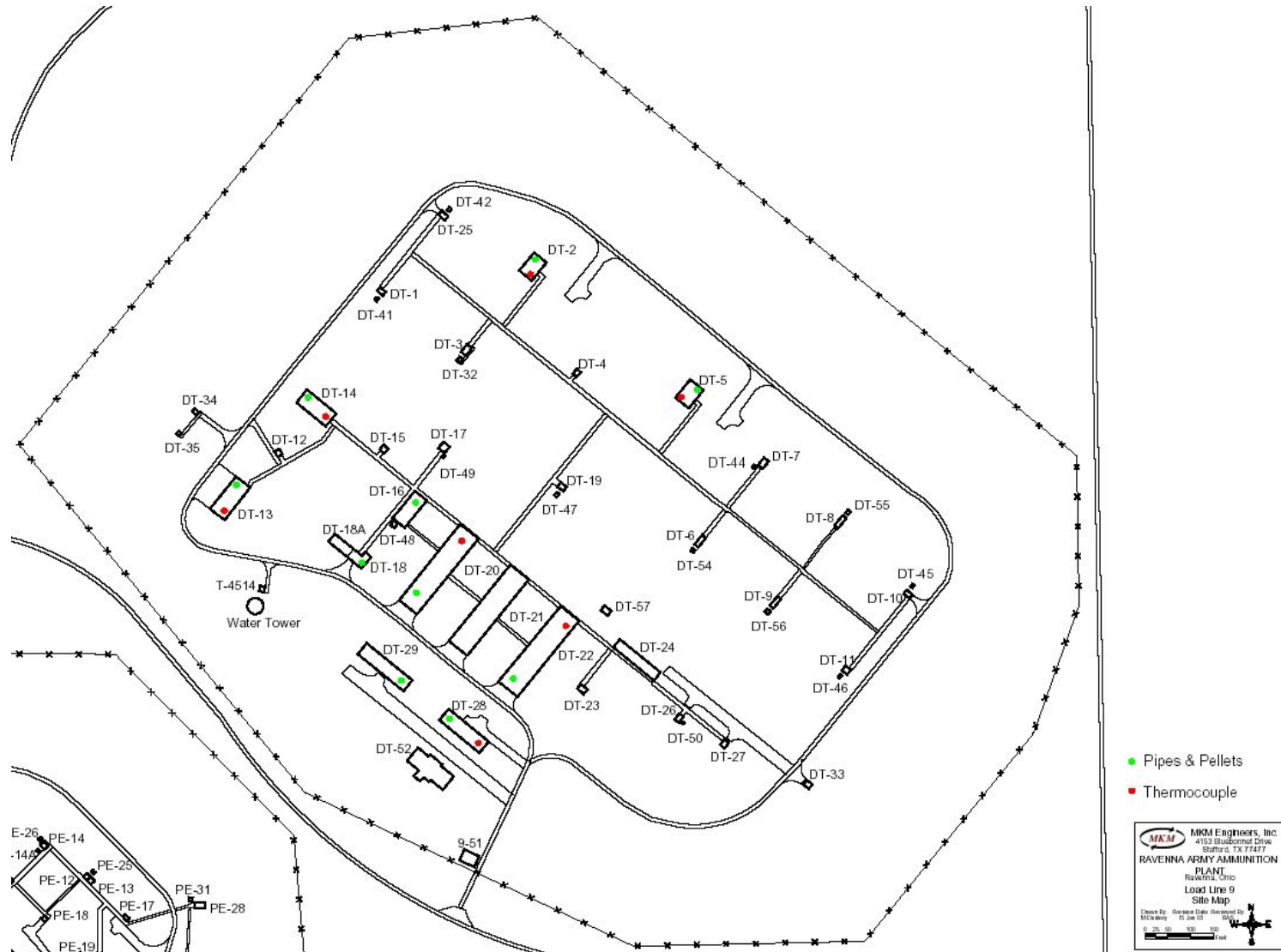
LL-9
Thermocouple
Data Charts

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Data Logger # 1   **Bldg. /Ramp: DT-2**

Rationale for Placing Thermocouple in Bldg. DT-2: Random

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Data Logger # 1   **Bldg. /Ramp: DT-5**
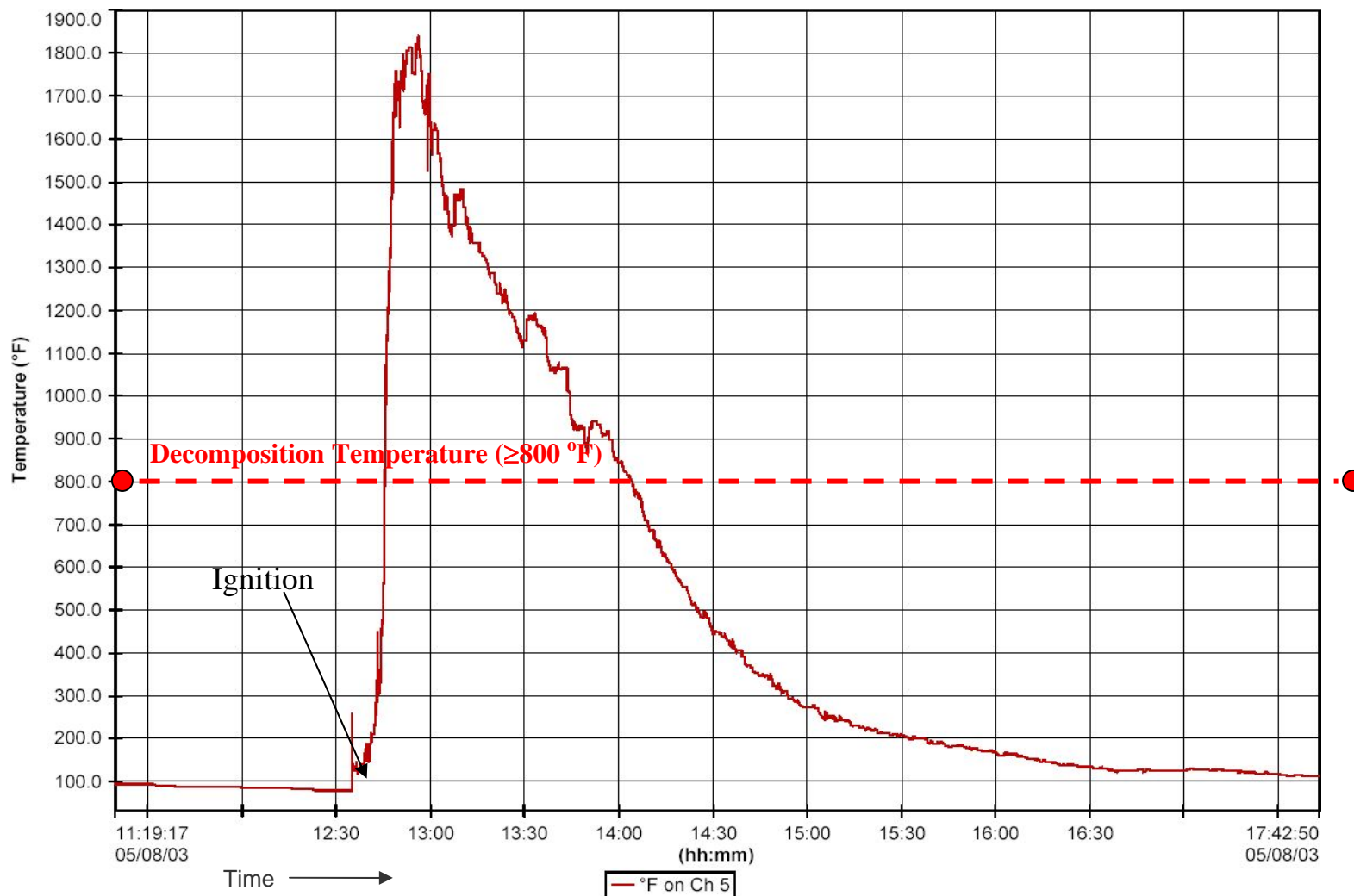

Rationale for Placing Thermocouple in Bldg. DT-5: Random

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Data Logger # 3   **Bldg. /Ramp: DT-13**
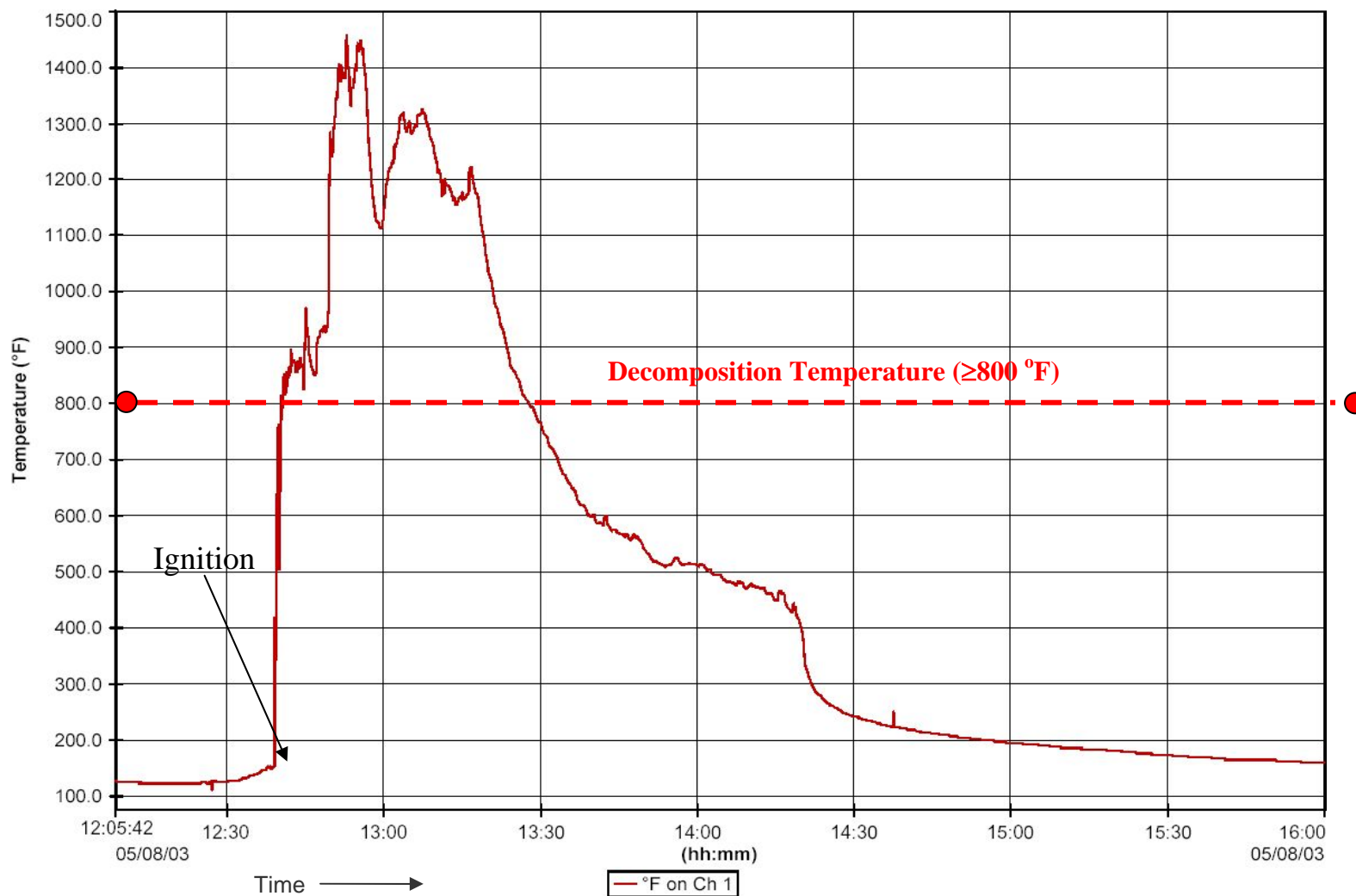

Rationale for Placing Thermocouple in Bldg. DT-13: Random

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Data Logger # 3　　　　　　　　　　　　　　　　　　　　　　　　　　**Bldg. /Ramp: DT-14**

Rationale for Placing Thermocouple in Bldg. DT-14: Random

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Data Logger # 3   **Bldg. /Ramp: DT-20**
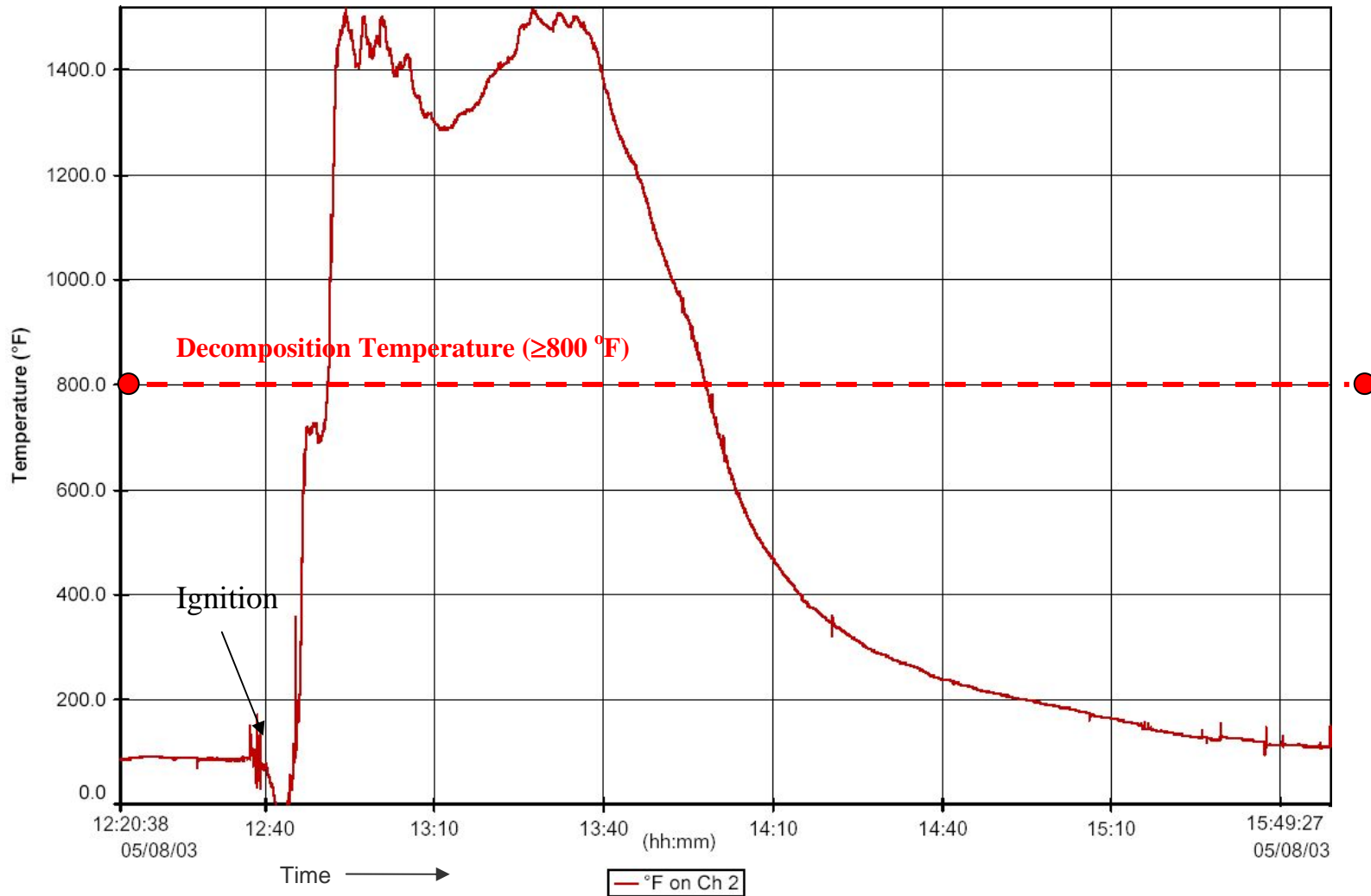

Rationale for Placing Thermocouple in Bldg. DT-20: Random

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Data Logger # 2   **Bldg. /Ramp: DT-22**
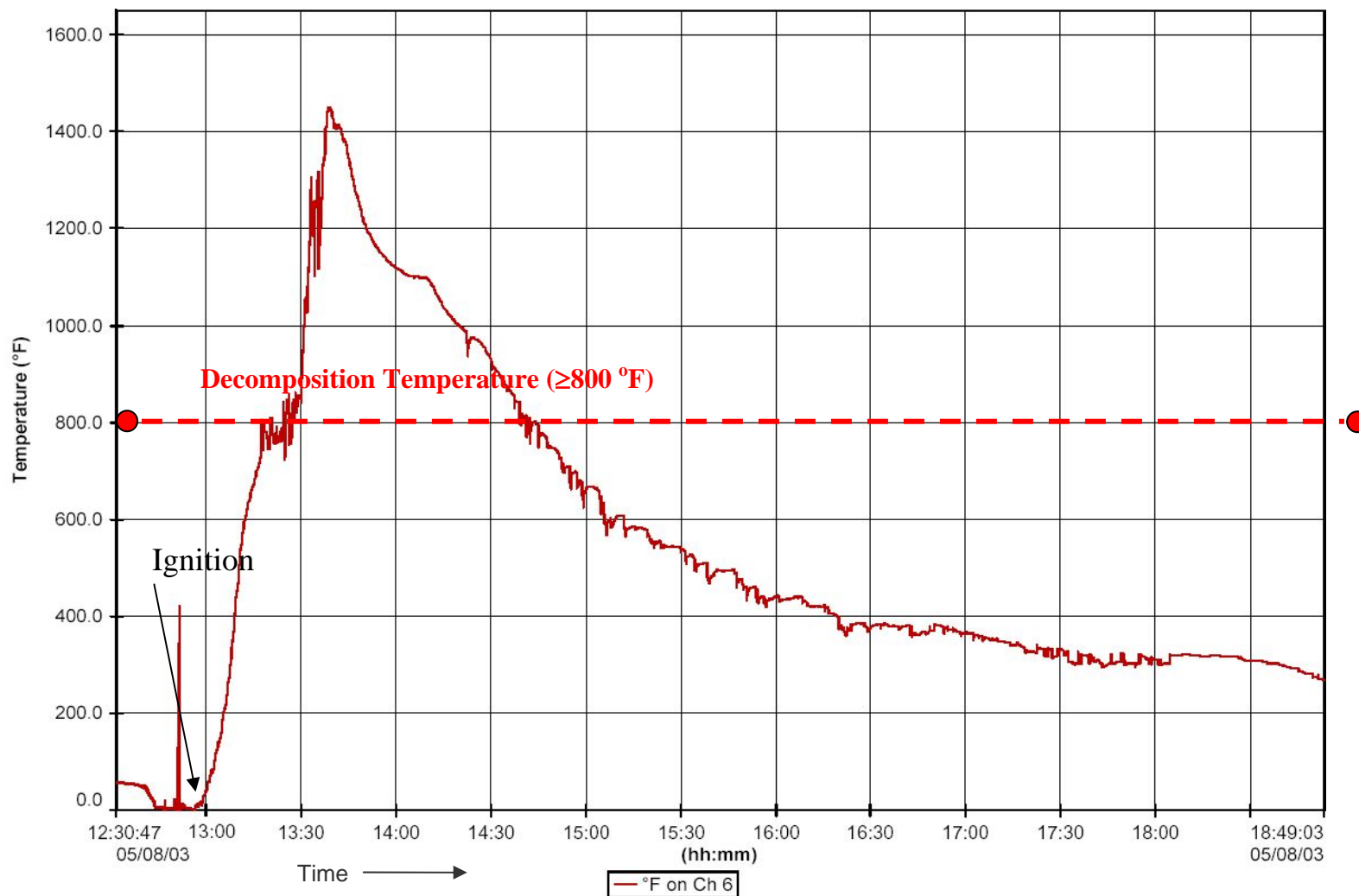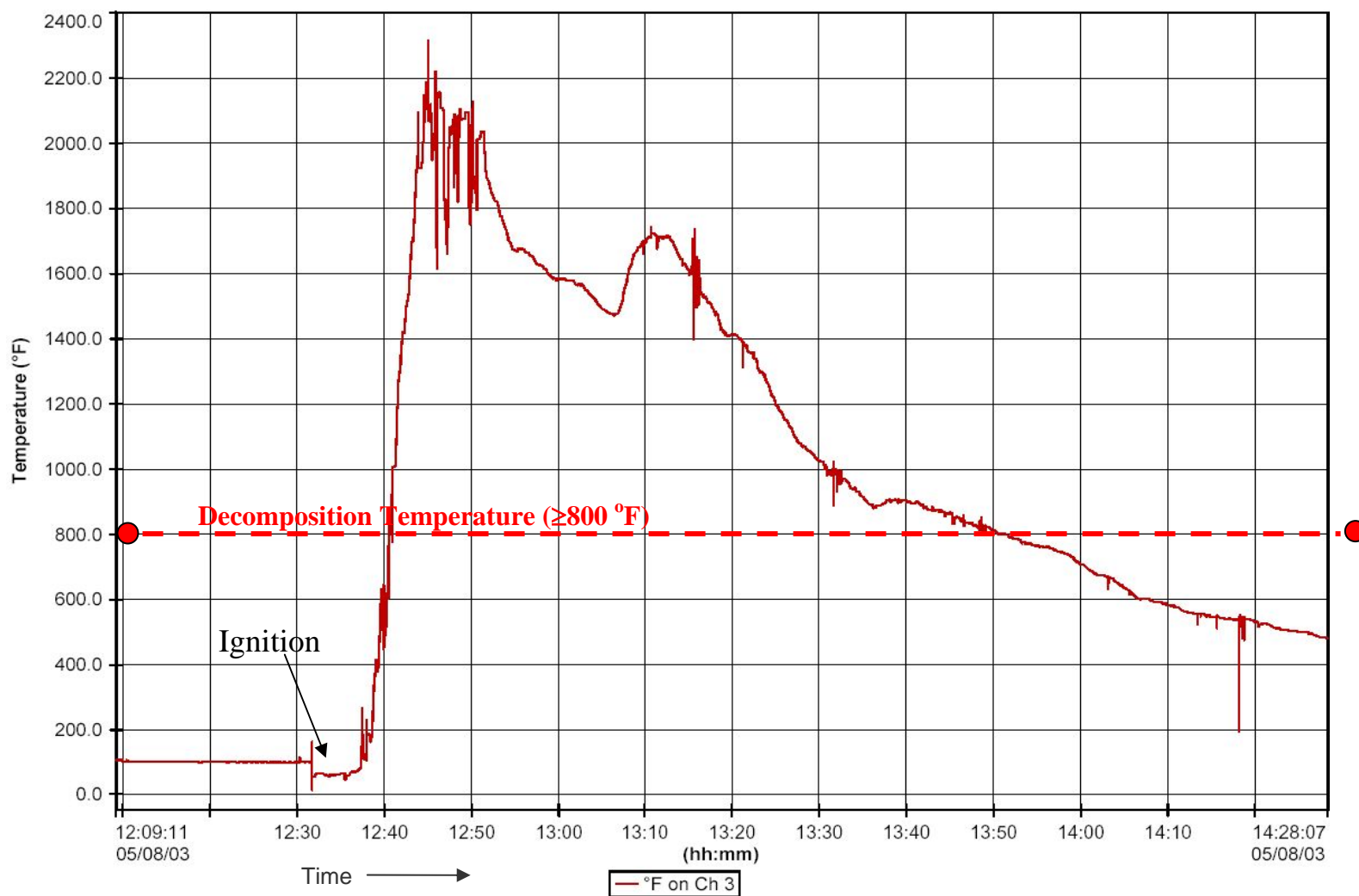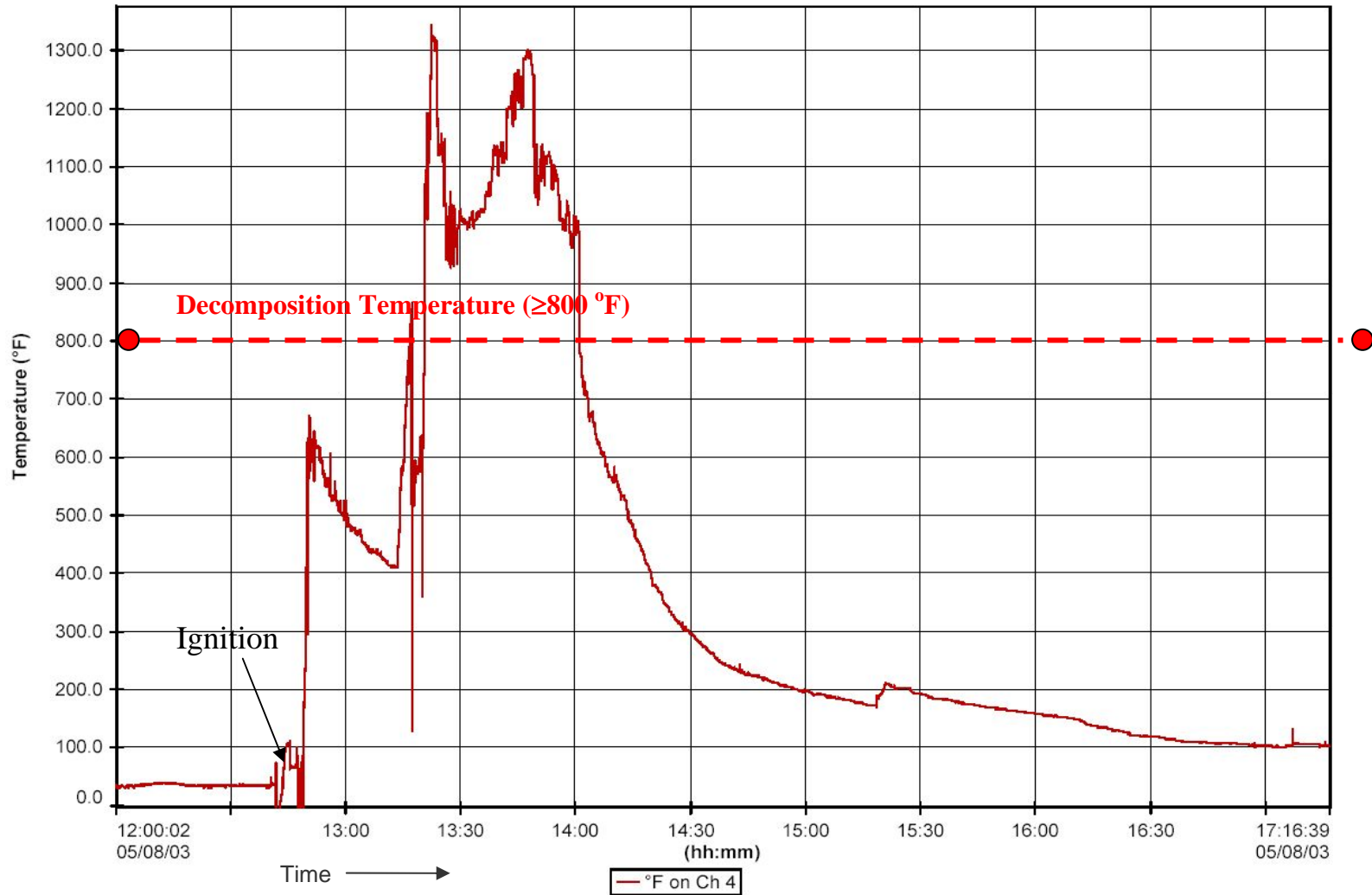

Rationale for Placing Thermocouple in Bldg. DT-22: Random

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Data Logger # 2   **Bldg. /Ramp: DT-28**

Rationale for Placing Thermocouple in Bldg. DT-28: Random

LL-9
**Temperature Indicating
Pallets/Paint Results**

MKM

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 07   **Bldg. /Ramp: DT-29**

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Temperature Reached (F)

Decomposition Temp.

800ºF

	Pellet # →	1	2	3	4	5	6	7
■	With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
■	With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 44

Bldg. /Ramp: DT-2

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.
800ºF
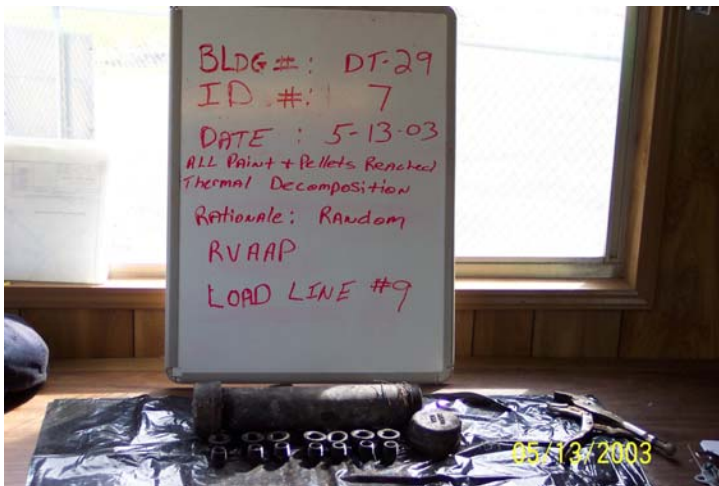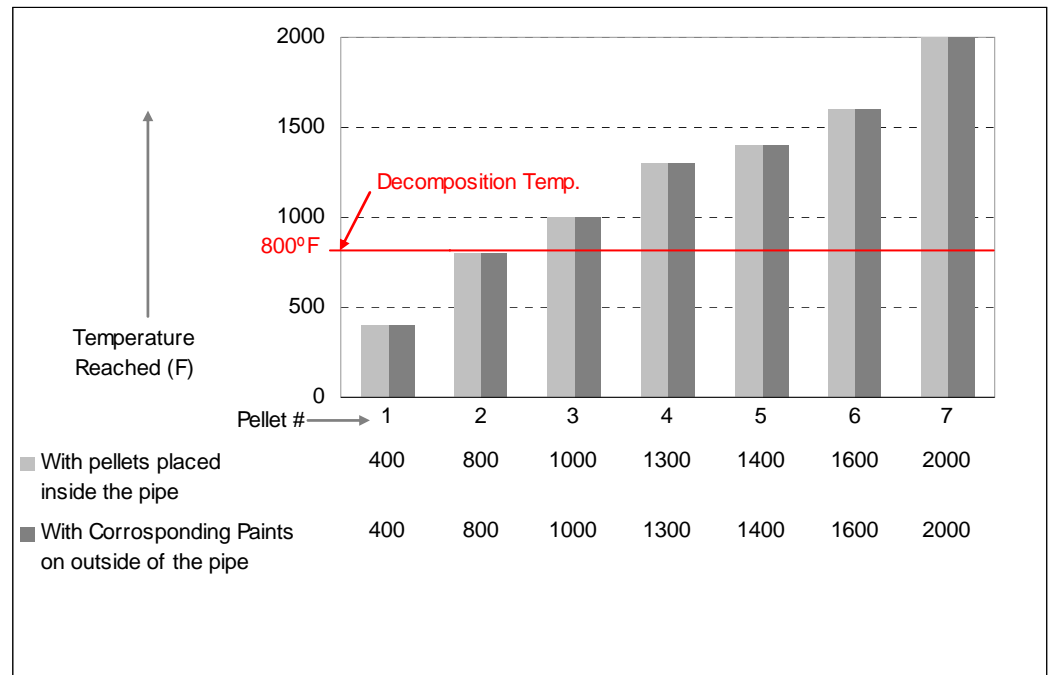
Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 24   **Bldg. /Ramp: DT-28**

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
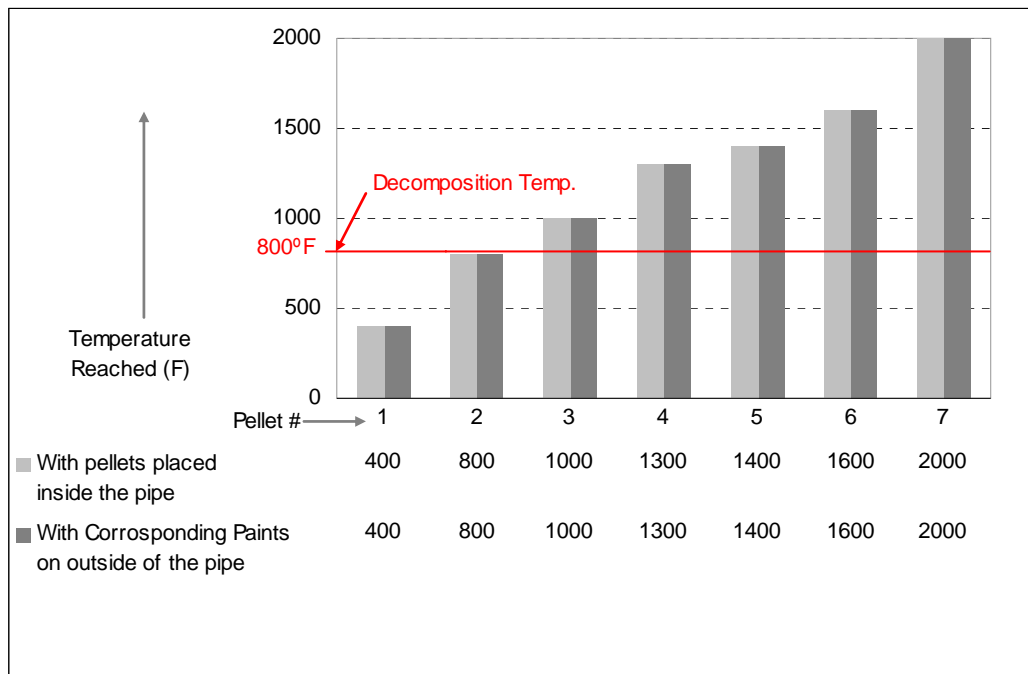With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.

800ºF

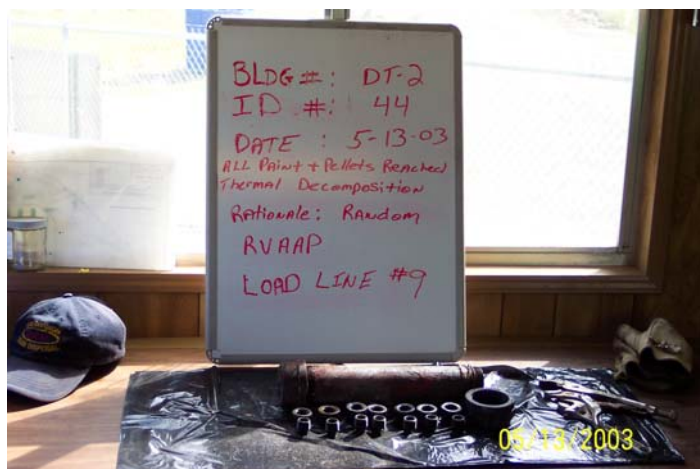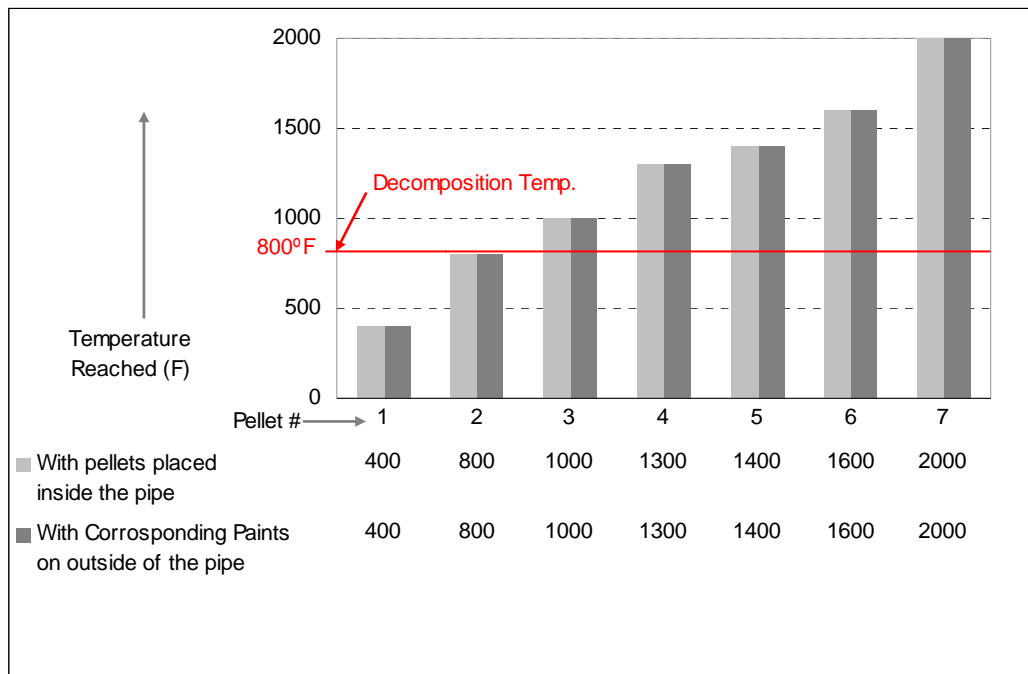**Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A**

Field ID # 2   **Bldg. /Ramp: DT-5**

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.

800°F

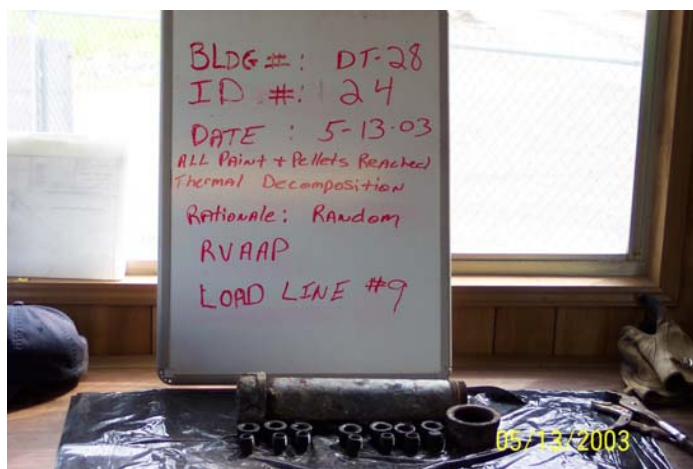## Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

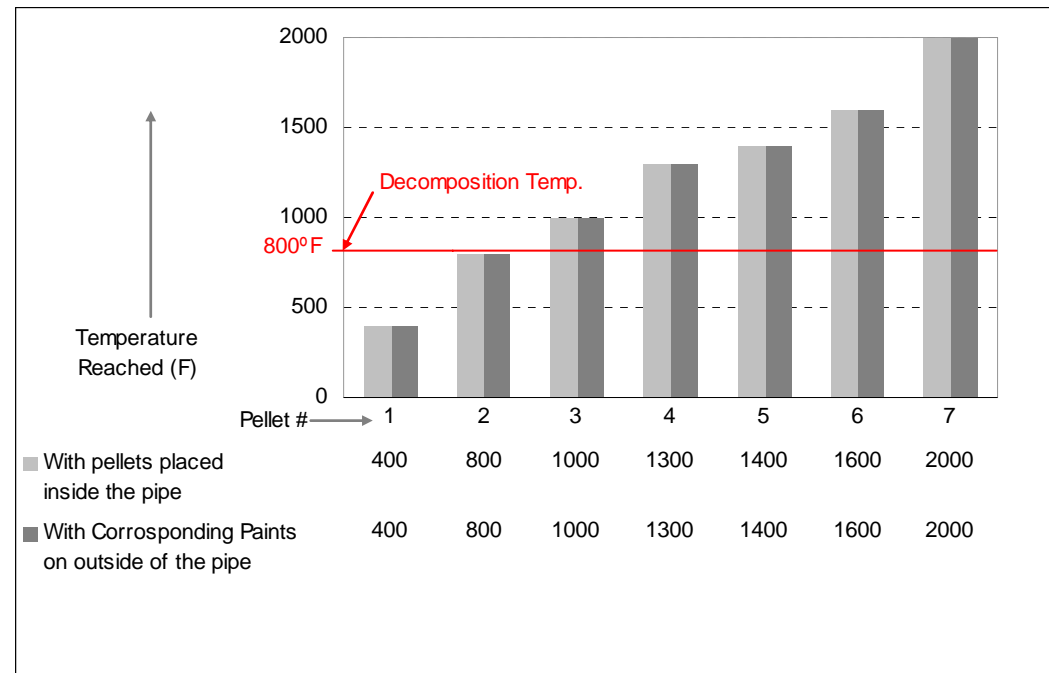**Field ID # 2**   **Bldg. /Ramp: DT-22**

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.

800ºF

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

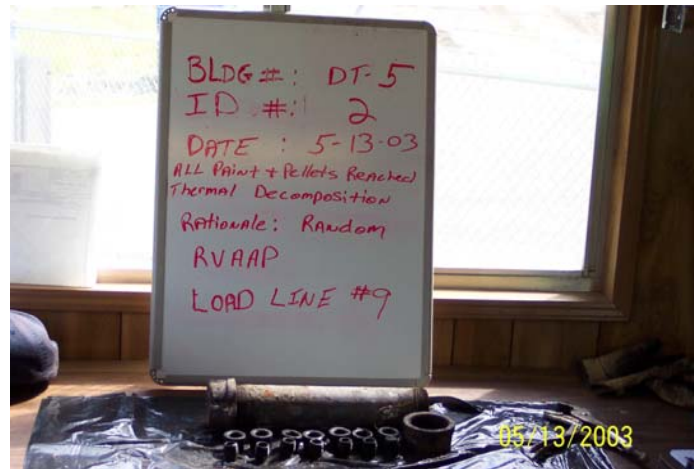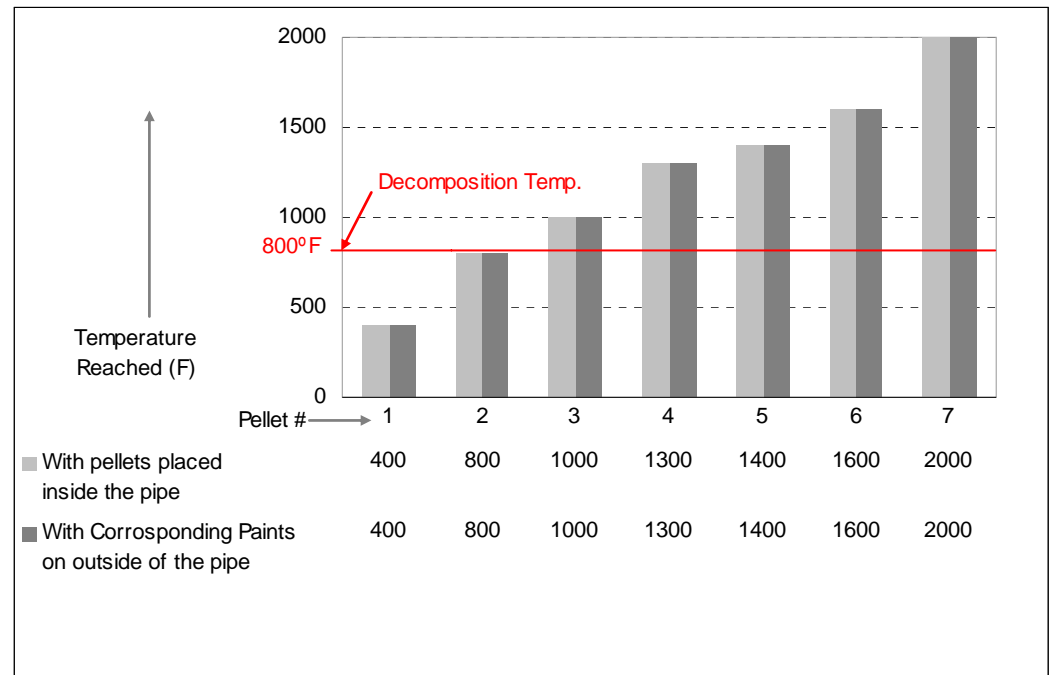**Field ID # 11**   **Bldg. /Ramp: DT-13**

Rationale for Placing Indicating Devices: Random

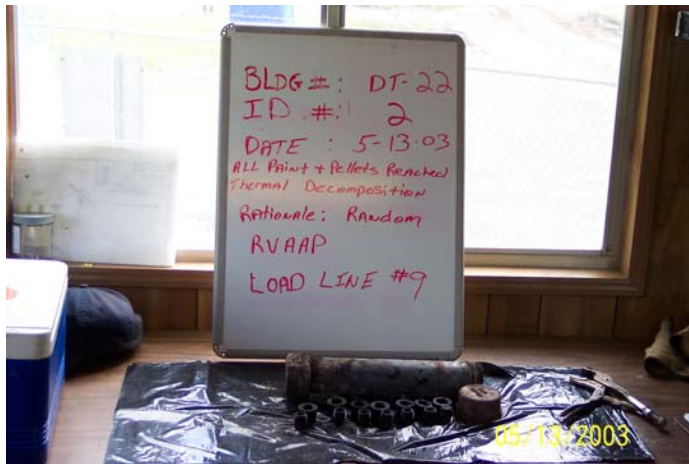**Max. Temperature Reached** With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.
800°F

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 48   **Bldg. /Ramp: DT-14**

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
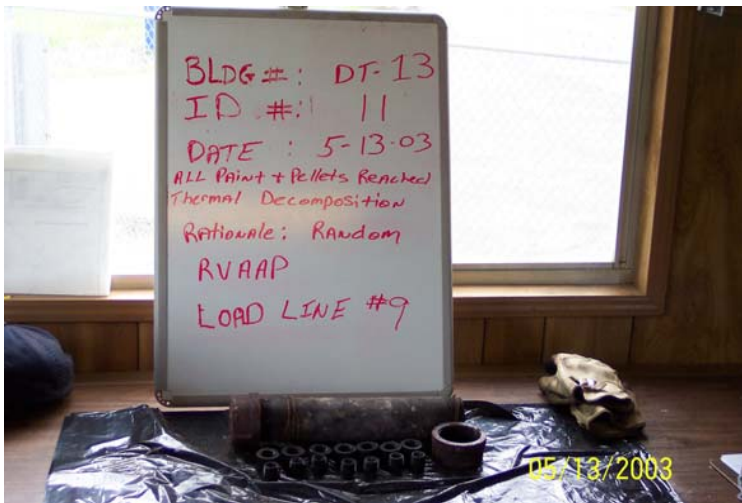With Inside Pallets: 2000° F

Pellet # →	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.
800°F

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A
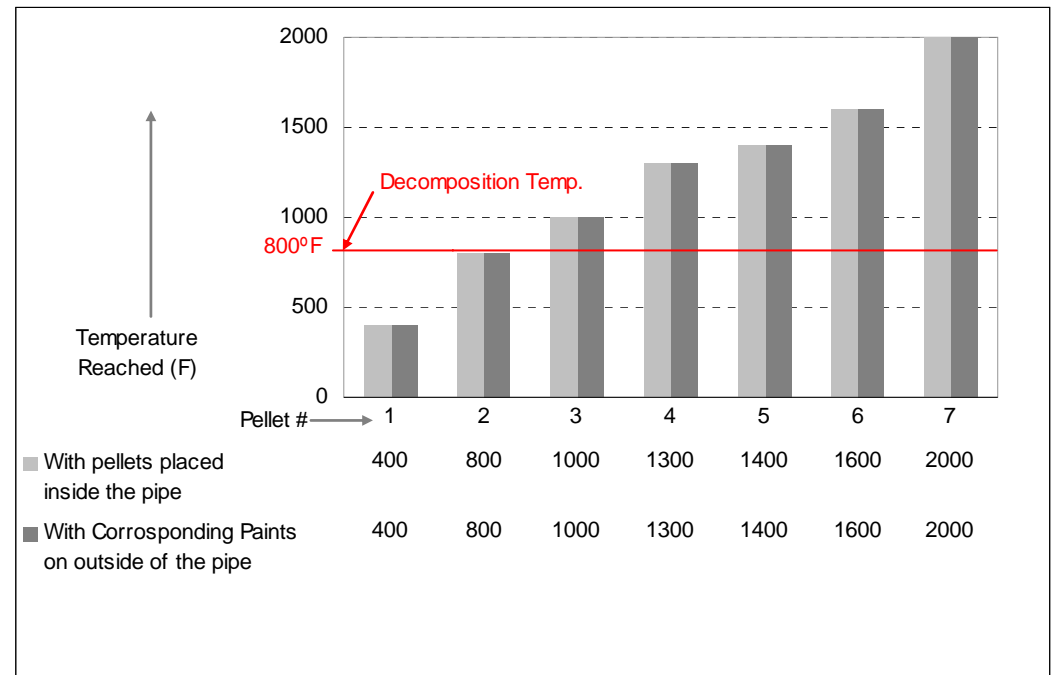
Field ID # 2

Bldg. /Ramp: DT-16

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
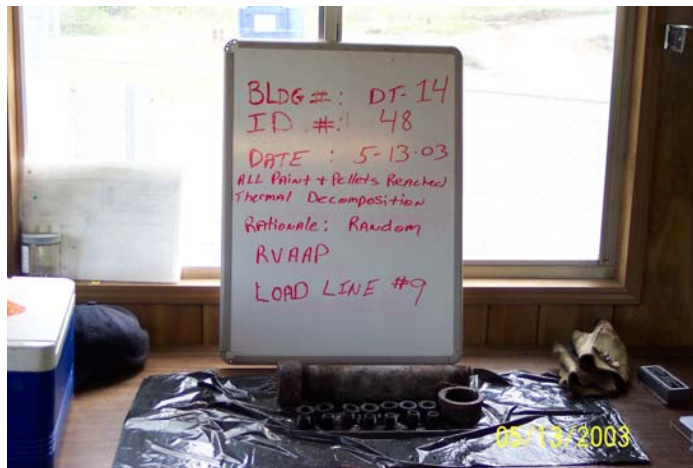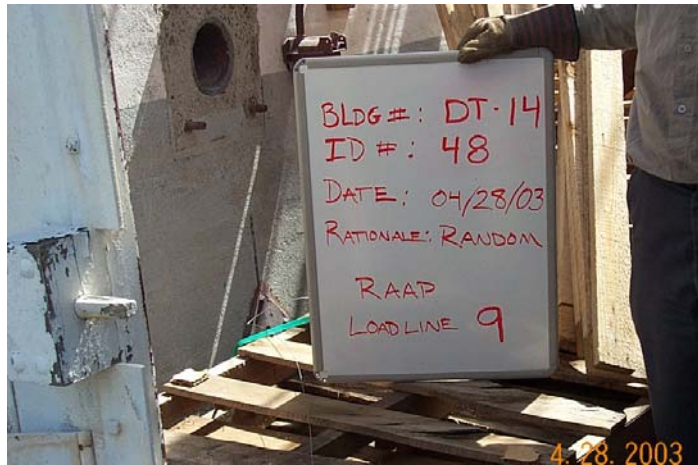With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.
800°F

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Field ID # 2

Bldg. /Ramp: DT-20

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F

With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

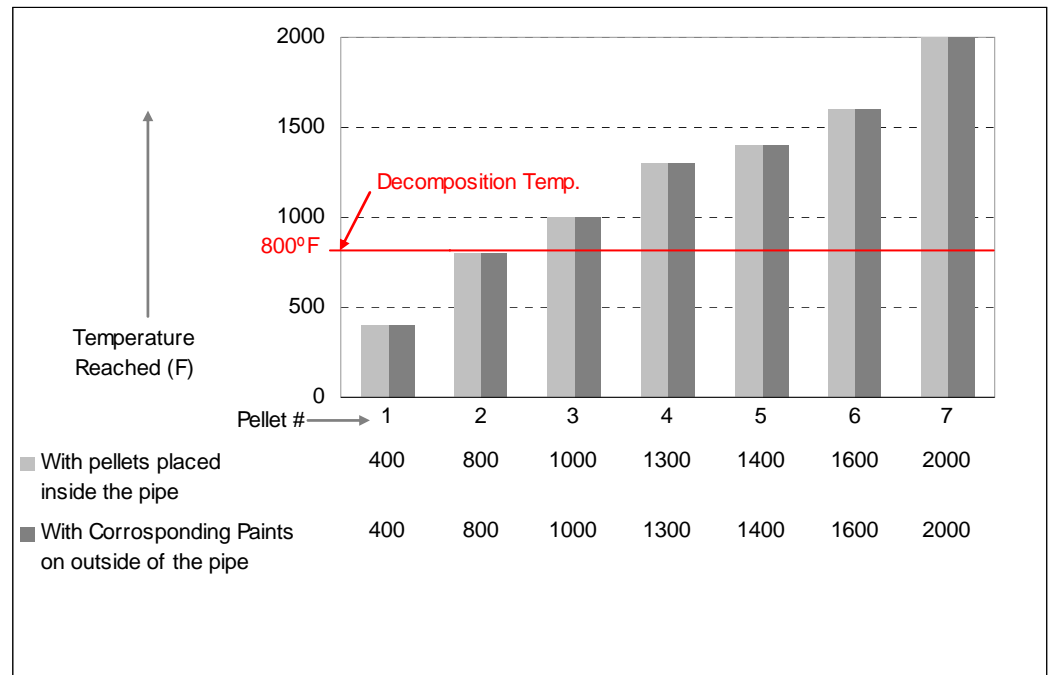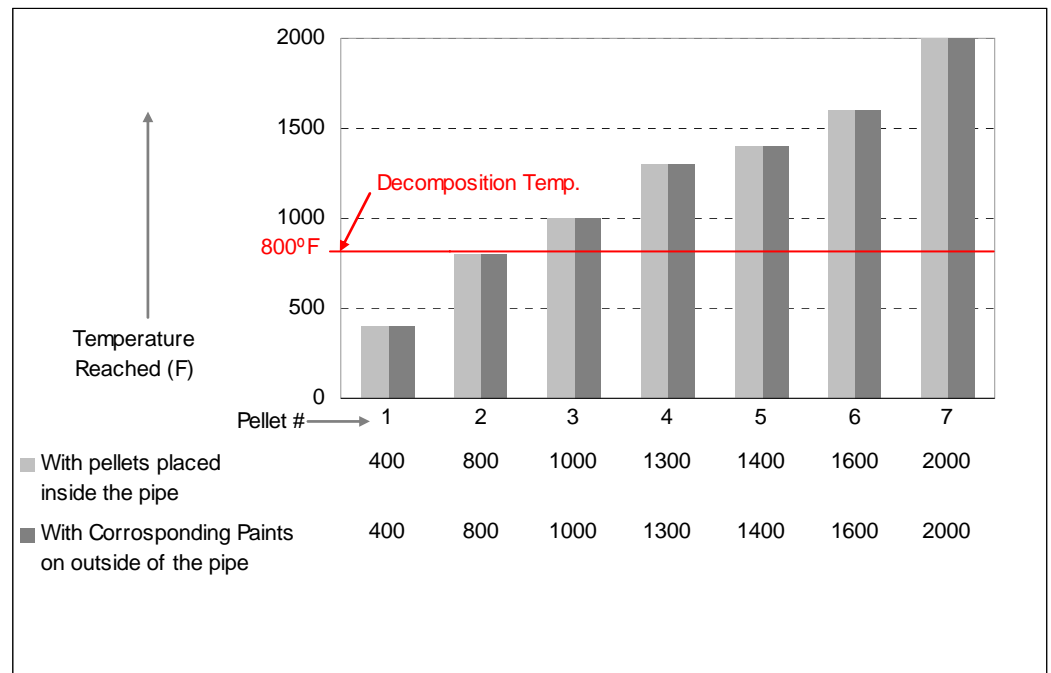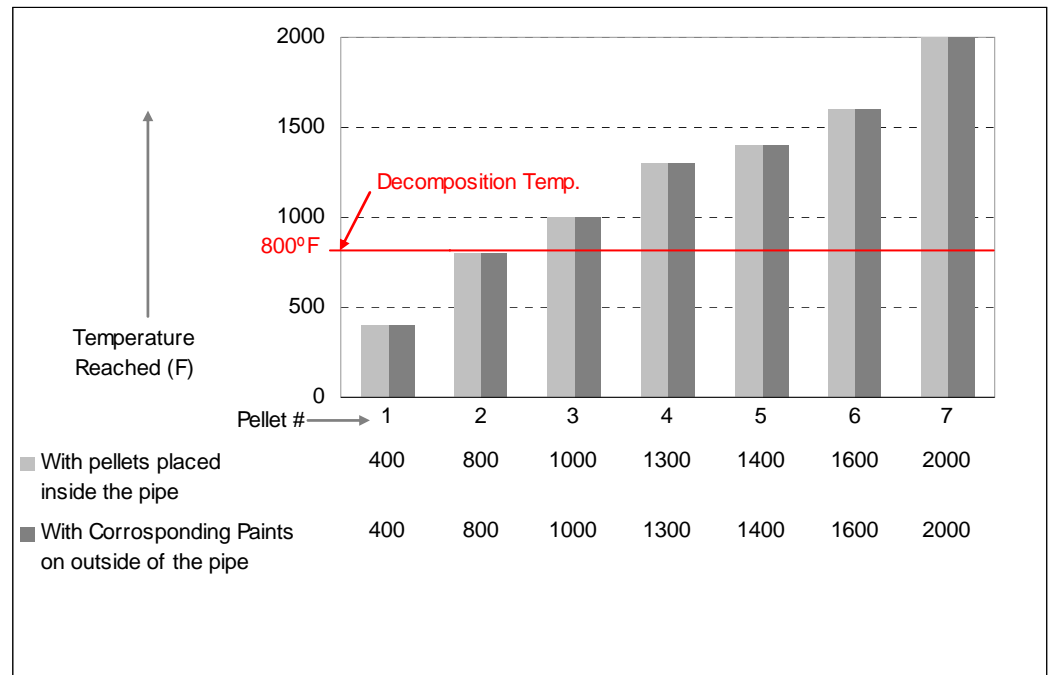**Field ID # 22**   **Bldg. /Ramp: DT-18**

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)

Decomposition Temp.
800°F

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Temperature Monitoring Locations – Wet Storage

A typical sketch of a building showing pipes & thermocouples placed (Not to the scale)

WS-2A
WS-3
WS-2
WS-1A
PS-7
WS-3A
WS-1

● Thermocouple

● Pipes & Pellets

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A
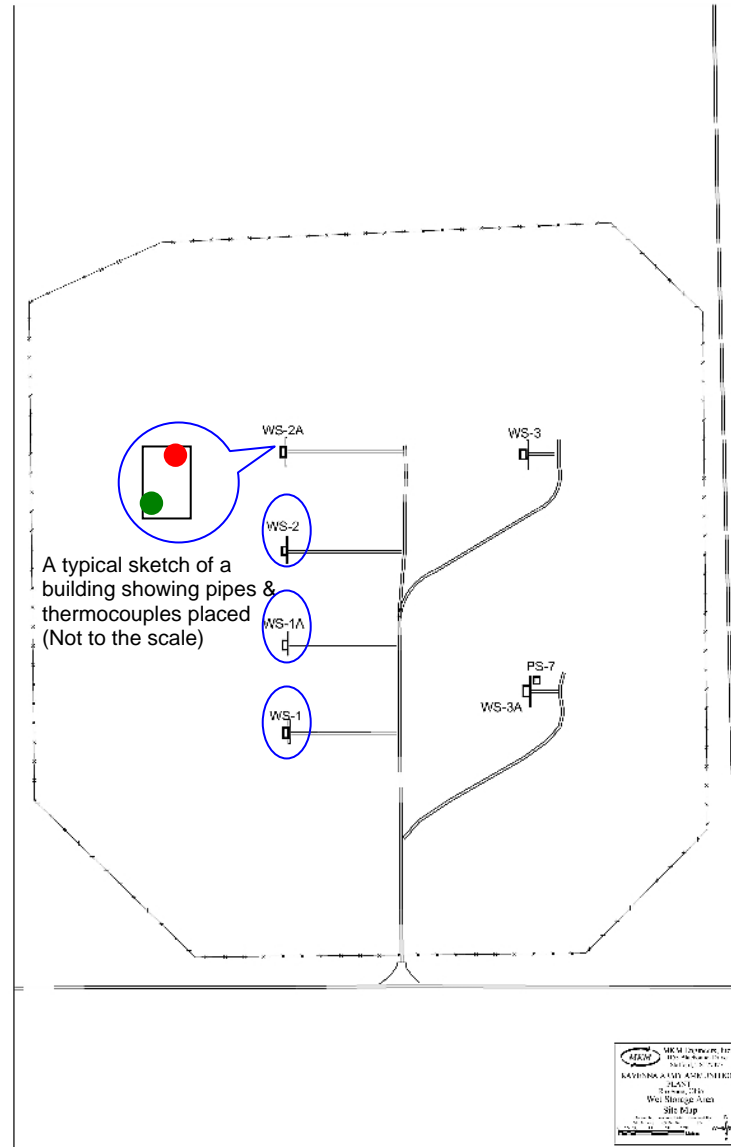
Wet Storage
Thermocouple
Data Charts

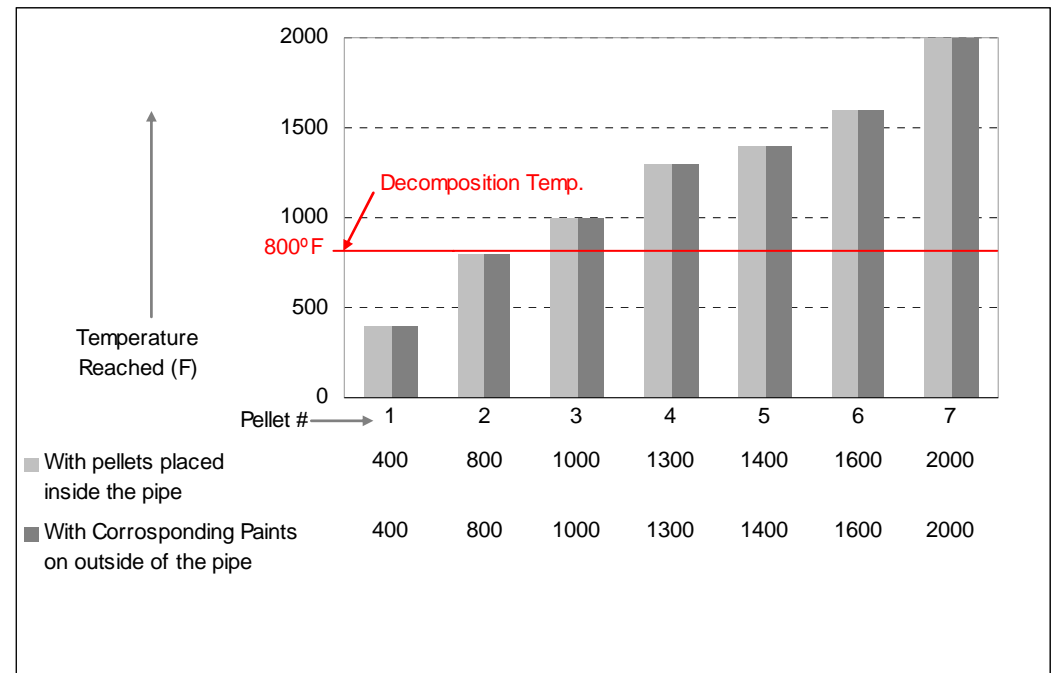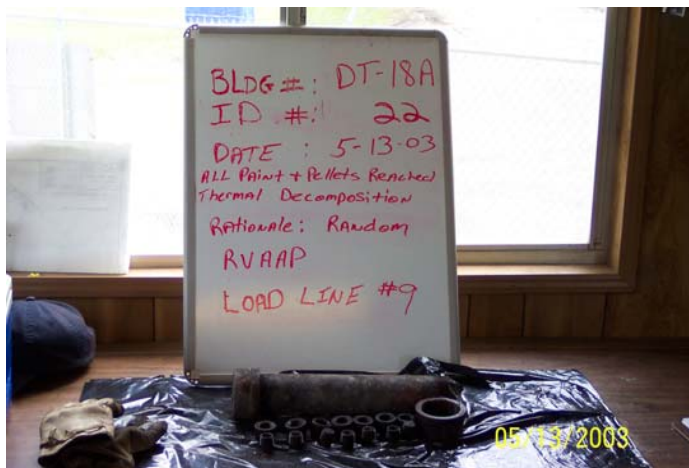**Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A**

Data Logger # 1   **Bldg. /Igloo: WS-1A**

Rationale for Placing Thermocouple in WS-1A: Cracks in the Floor

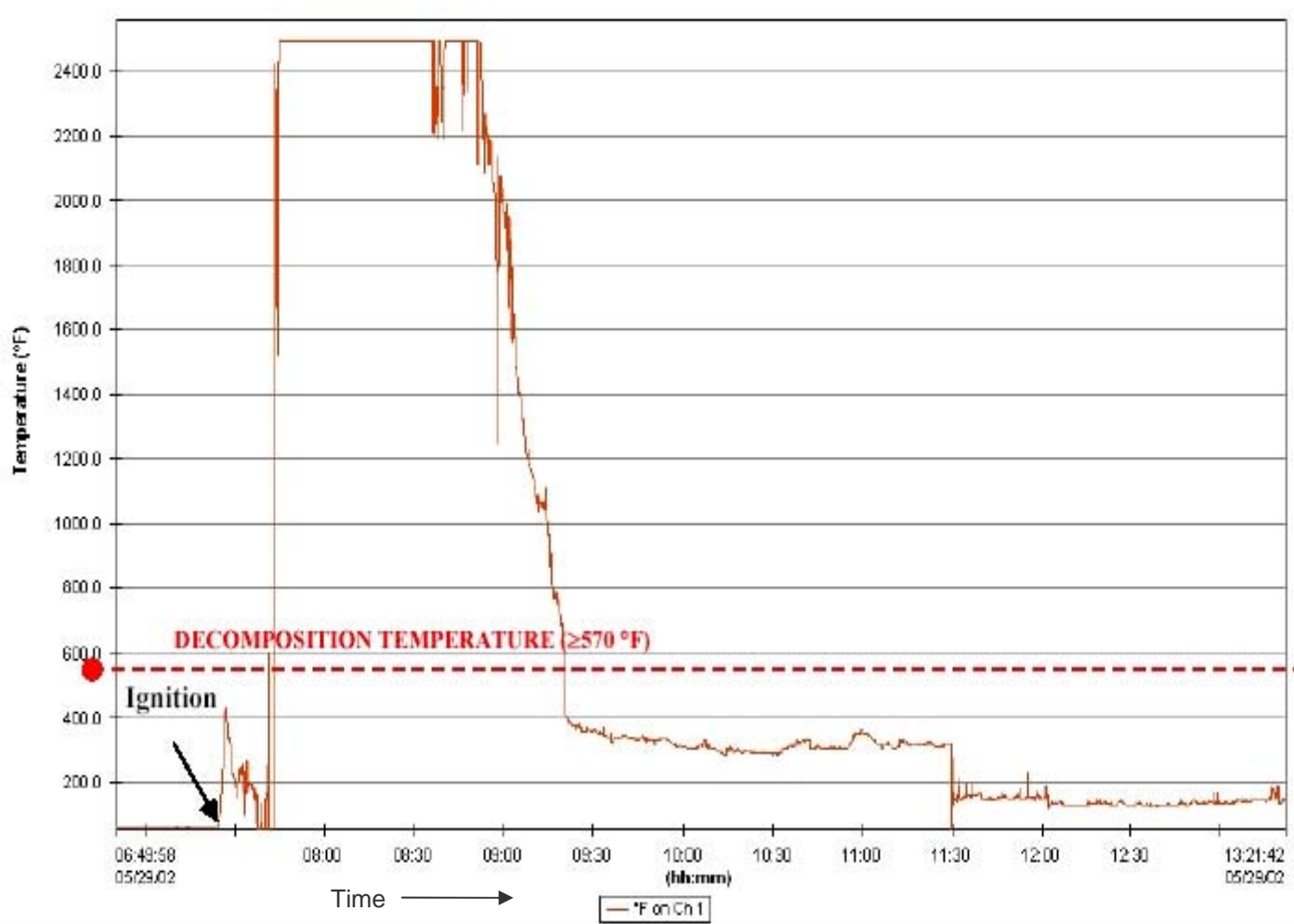**Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A**

Data Logger # 1   **Bldg. /Igloo: WS-1**
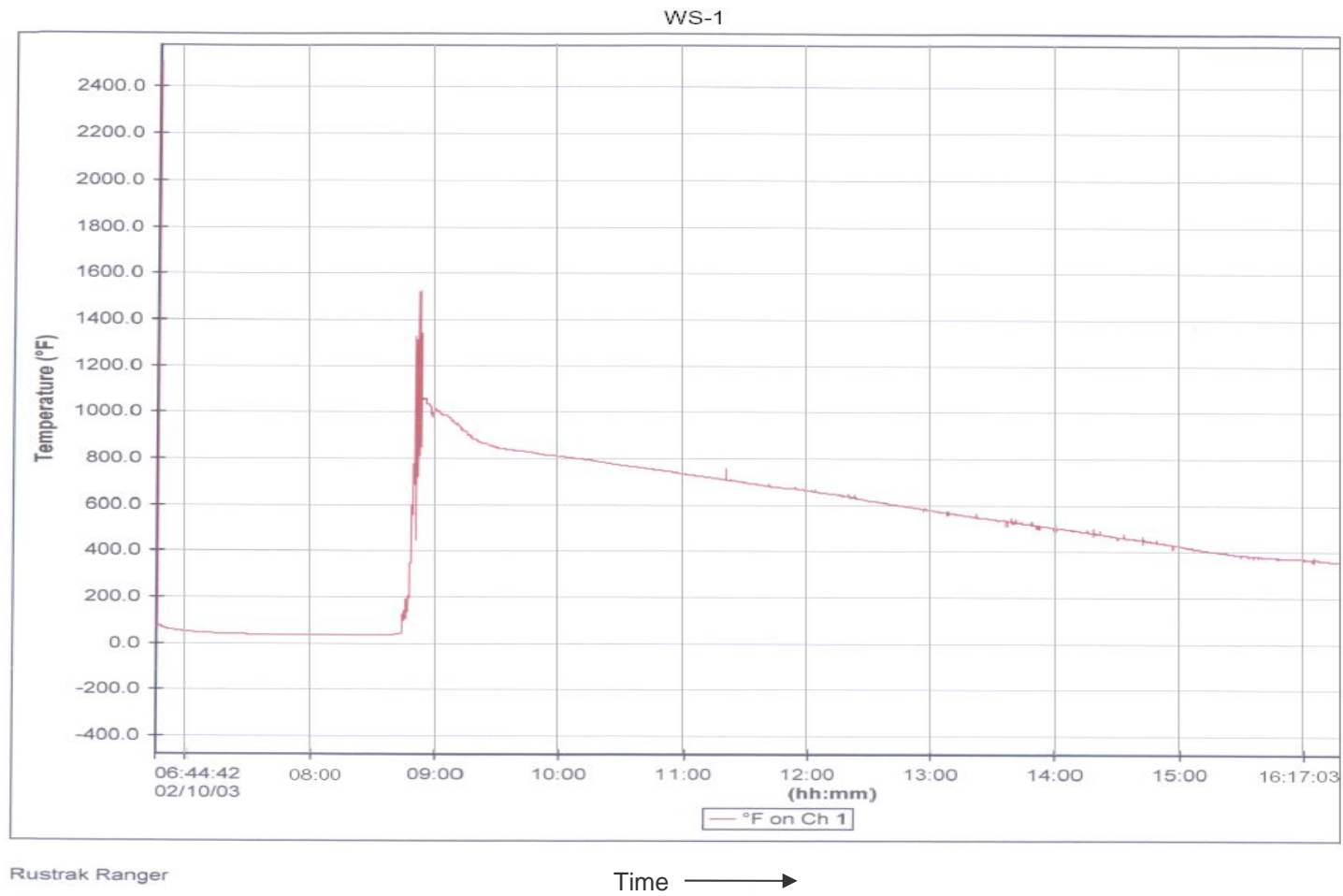

Rationale for Placing Thermocouple in WS-1: Cracks in the Floor

Wet Storage

Temperature Indicating
Pallets/Paint Results

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Bldg. /Ramp: WS-1

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)
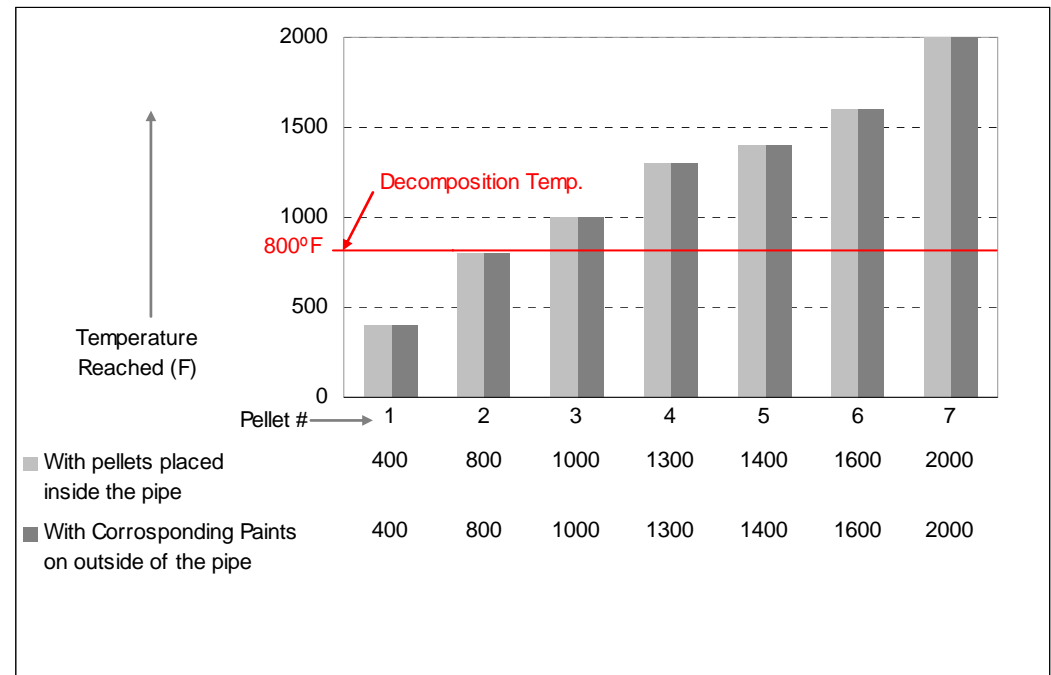
Decomposition Temp.

800°F

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Bldg. /Ramp: WS-1A

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Temperature Reached (F)
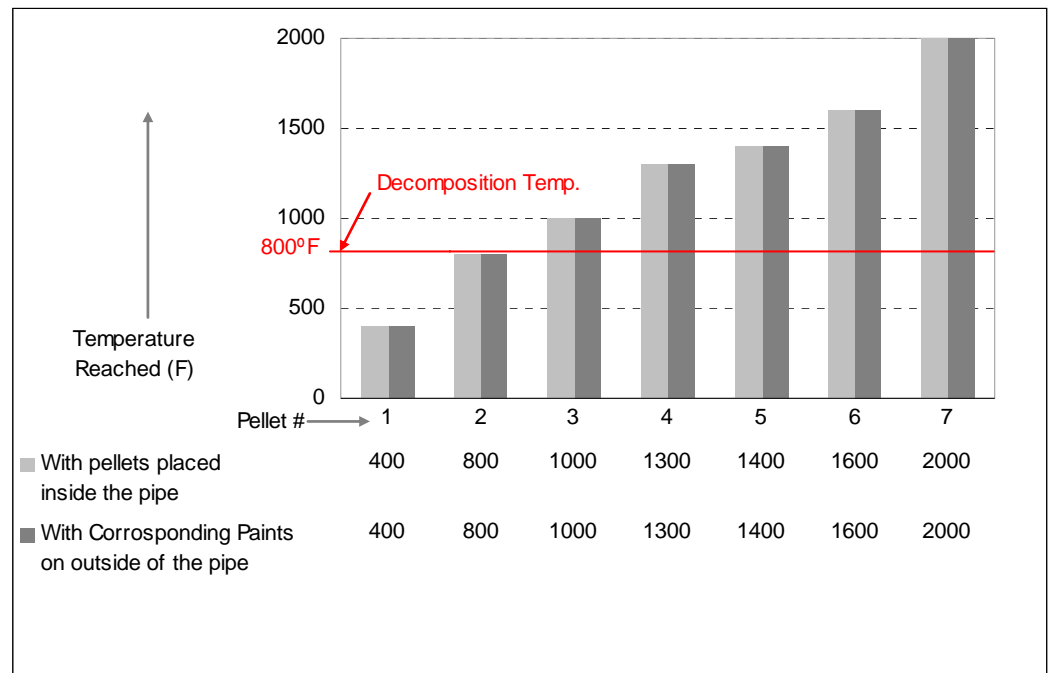
Decomposition Temp.
800⁰F

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Bldg. /Ramp: WS-2

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

Temperature Reached (F)

Decomposition Temp.

800°F

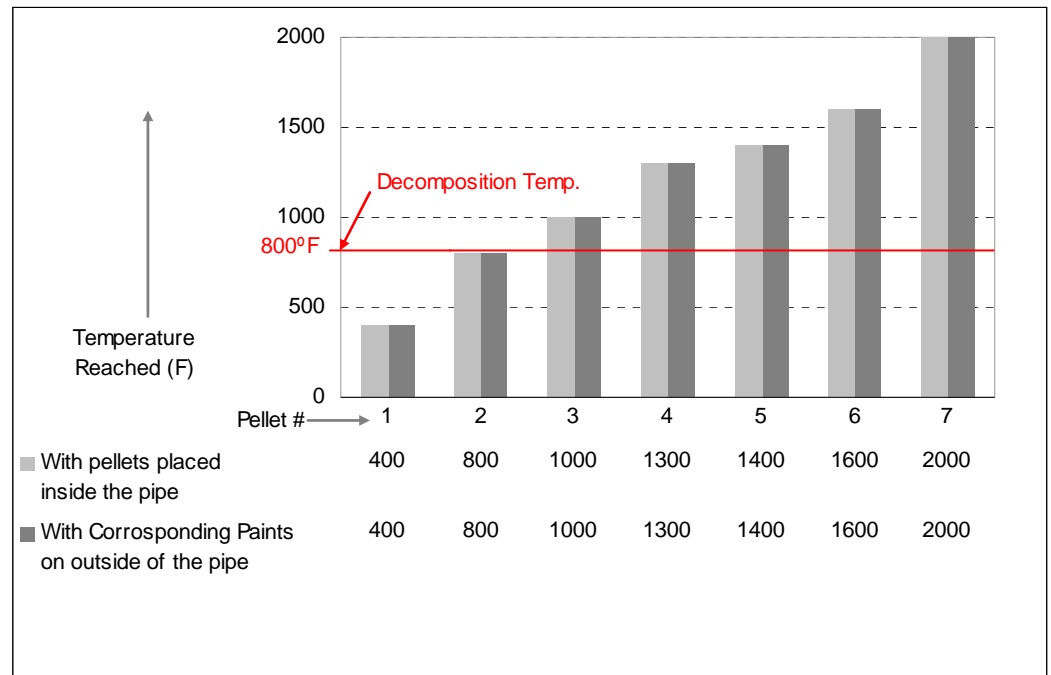| Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000

Thermal Decomposition and 5X Certification of Load Lines 6, 9 and Wet Storage Igloos 1, 1A, 2, & 2A

Bldg. /Ramp: WS-2A

Rationale for Placing Indicating Devices: Random

Max. Temperature Reached With Outside Paint: 2000° F
With Inside Pallets: 2000° F

2003. 2. 6

No Picture Available

Temperature Reached (F)

Decomposition Temp.

800ºF

Pellet #	1	2	3	4	5	6	7
With pellets placed inside the pipe	400	800	1000	1300	1400	1600	2000
With Corrosponding Paints on outside of the pipe	400	800	1000	1300	1400	1600	2000