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July 2, 2014
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Report No.: 101705503GRR-001
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Test Report For:
Peter Danko Designs, Inc
CALIFORNIA TB-133
FURNITURE SEATING FIRE TEST
Nue Chair




Raymond Szwak
Project Manager


James Jantz
Reviewer

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CALIFORNIA TB-133 TEST PROCEDURE

Flammability Test Procedure for Seating
Furniture for use in Public Occupancies

Test Procedure:

The submitted sample was tested according to the procedure outlined in the Bureau of Home Furnishing's Technical Bulletin Number 133, dated January, 1991.

Test Ignition Source:

Square Gas Burner as described in Appendix C.

Test Sample Conditioning:

Pre-conditioned 48 hours at $70 \pm 5^\circ\text{F}$ and relative humidity of less than 55%.

Test Criteria:

Seating furniture fails to meet the requirements of Technical Bulletin 133 under Group A if any of the following criteria are exceeded:

Criteria Group A:

1. Temperature increase of 200°F or greater at the ceiling thermocouple.
2. A temperature increase of 50°F or greater at the four (4) foot thermocouple.
3. Greater than 75% opacity at the four (4) foot smoke opacity monitor.
4. Carbon monoxide concentration shall not continuously exceed 1000 ppm for five (5) minutes.
5. Greater than 3 lbs. weight loss in the first ten (10) minutes of test.

Seating furniture fails to meet the requirements of Technical Bulletin 133 under Group B if any of the following criteria are exceeded:

Criteria Group B:

1. A maximum rate of heat release of 80 kW or greater.
2. A total heat energy release of 25 MJ or greater in the first 10 minutes of the test.
3. Greater than 75% opacity at the four (4) foot smoke opacity monitor.
4. Carbon Monoxide concentration shall not continuously exceed 1000 ppm for five (5) minutes.

Date Received: June 25, 2014
Date Tested: June 30, 2014

Test Sample Description (per Peter Danko Designs, Inc):

Product: Nue Chair
Model Number: None Stated
Condition of Samples: None Stated
Fabric Type: None Stated
Fabric Color: None Stated
Blocking Description (if present): None Stated
Filler Description (order of layering): None Stated
Seat Cushion Dimensions: None Stated
Back Cushion Dimensions: None Stated
Arm Description (if present): N/A

Test Procedure:

Conduct the California TB-133 Seating Product Burn Test on the **Nue Chair**. Determine if the submitted sample meets the test requirements.

Acceptance Criteria:

The acceptance level criteria are listed in the summation table on the following page.

Conclusion:

The test results show that the **Nue Chair** passed both Criteria A and Criteria B of the California TB-133 Burn Test.

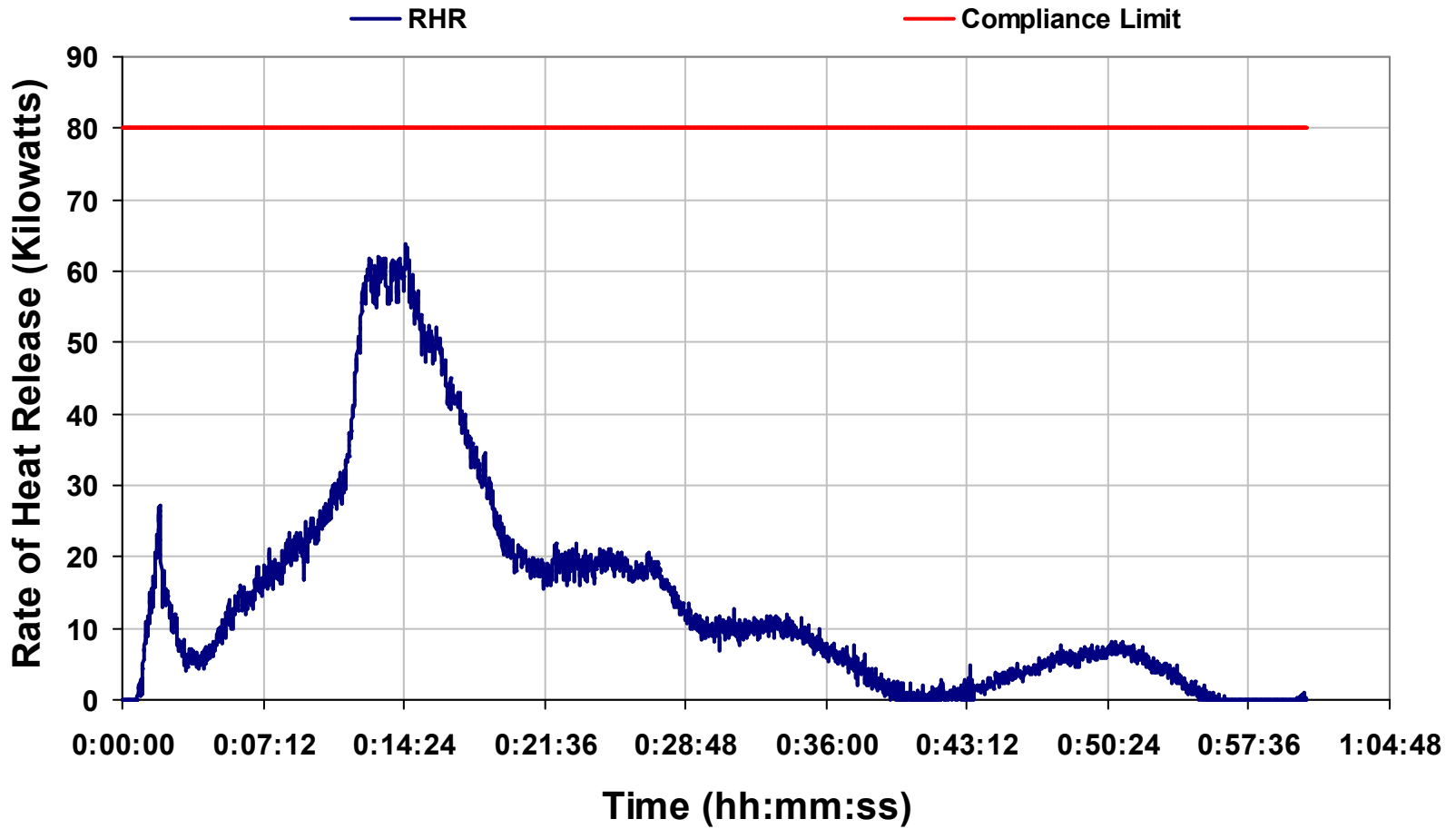
Test Equipment:

Asset No.:	Description:	Cal Due:
138245.1	SCALE	12/11/2014
138051.9	SMOKE DENSITY MONITOR 0-100%	VBU
138051.26	CARBON MONOXIDE / DIOXIDE ANALYZER	VBU
138051.22	OXYGEN ANALYZER	09/05/2014
138181	DPI DIFFERENTIAL PRESSURE TRANSDUCER	05/29/2015
138327	GRADUATED RULE 36"	10/11/2018
138051.33	FLOW METER 0-14 SLM PROPANE	10/08/2014
138301	STOPWATCH	07/10/2014

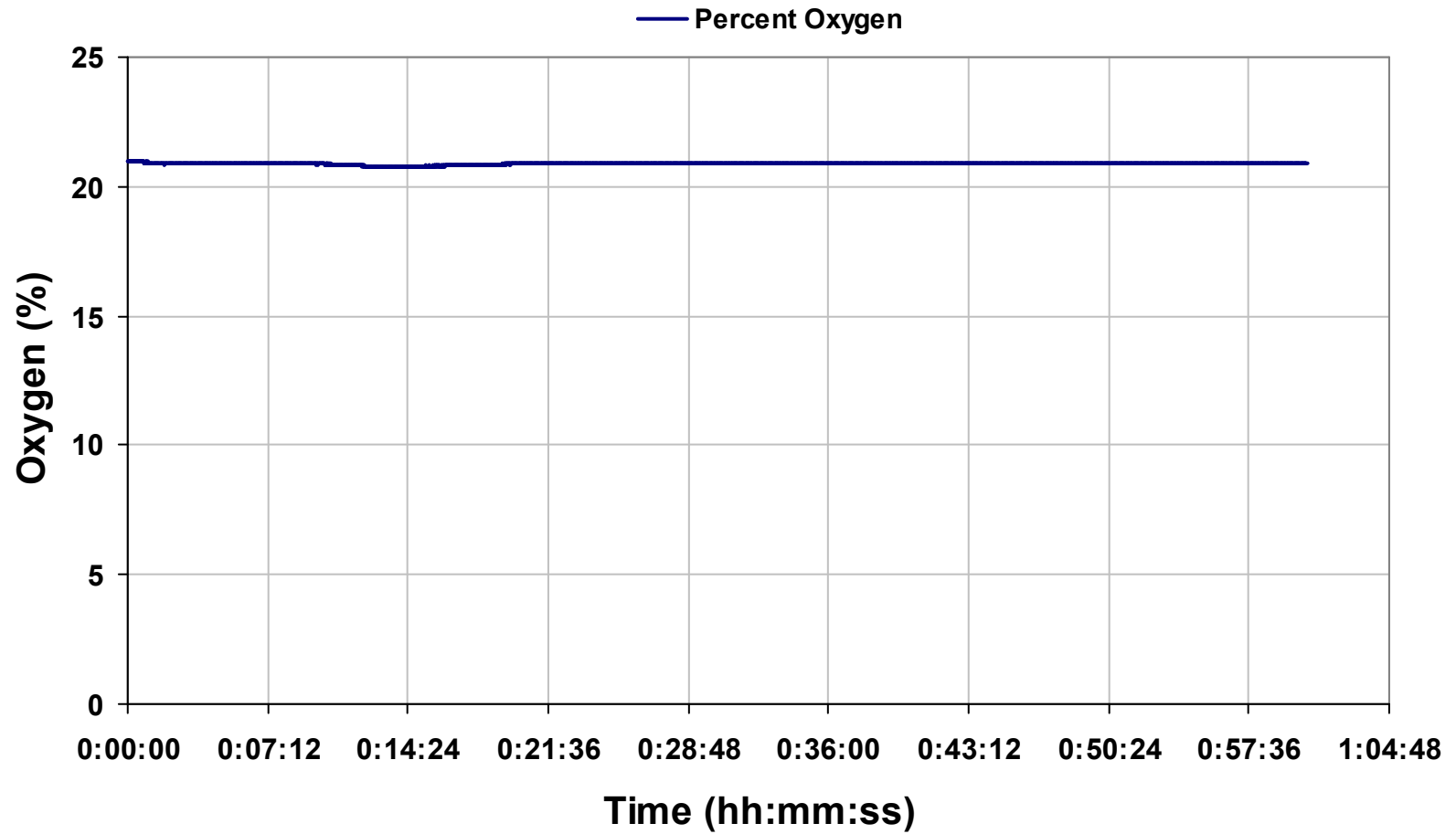
CALIFORNIA TB-133 FIRE TEST SUMMATION

	Criteria	Actual Value	Pass/Fail
8' Temp. Increase, (maximum), °F	≤ 200°F	149 °F	Pass
4' Temp. Increase, (maximum), °F	≤ 50°F	21 °F	Pass
4' Smoke Opacity, (maximum), %	≤ 75 %	6 %	Pass
CO concentration (maximum), ppm	N/A	1156 ppm	N/A
Time CO is greater than 1,000 ppm (min:sec):	< 5:00	1:12	Pass
Pre-test weight of chair	N/A	13.10 lb	N/A
Weight loss at 10 minutes	≤ 3 lbs	0.60 lbs	Pass
Post-test weight of chair	N/A	9.50 lbs	N/A
Flame out (min:sec)	N/A	60:00	N/A
Max. Rate of Heat Release (kW)	≤ 80 kW	64 kW	Pass
Total Heat Energy Release in 1 st 10 mins. (MJ)	≤ 25 MJ	7.6 MJ	Pass

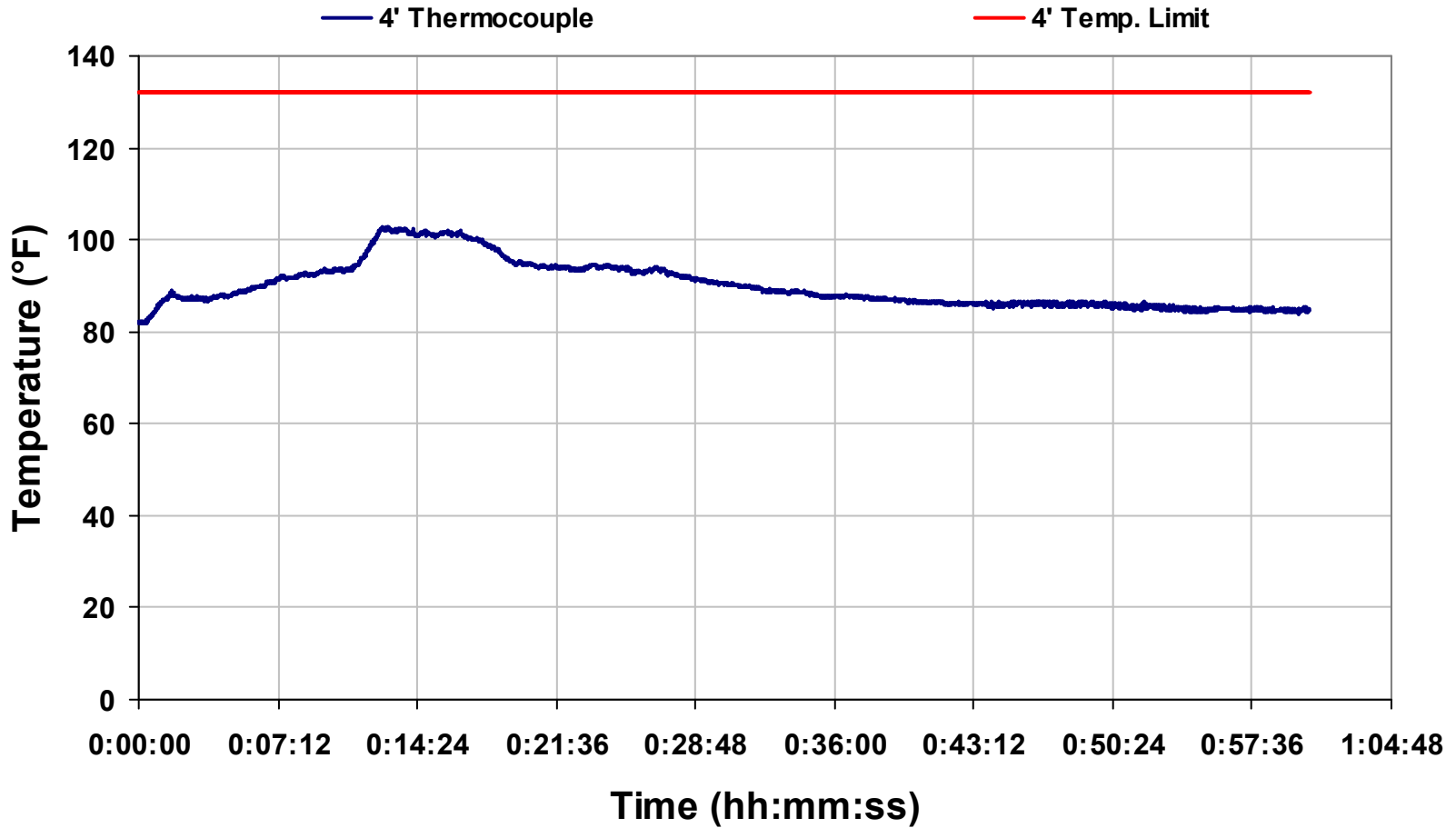
Rate of Heat Release



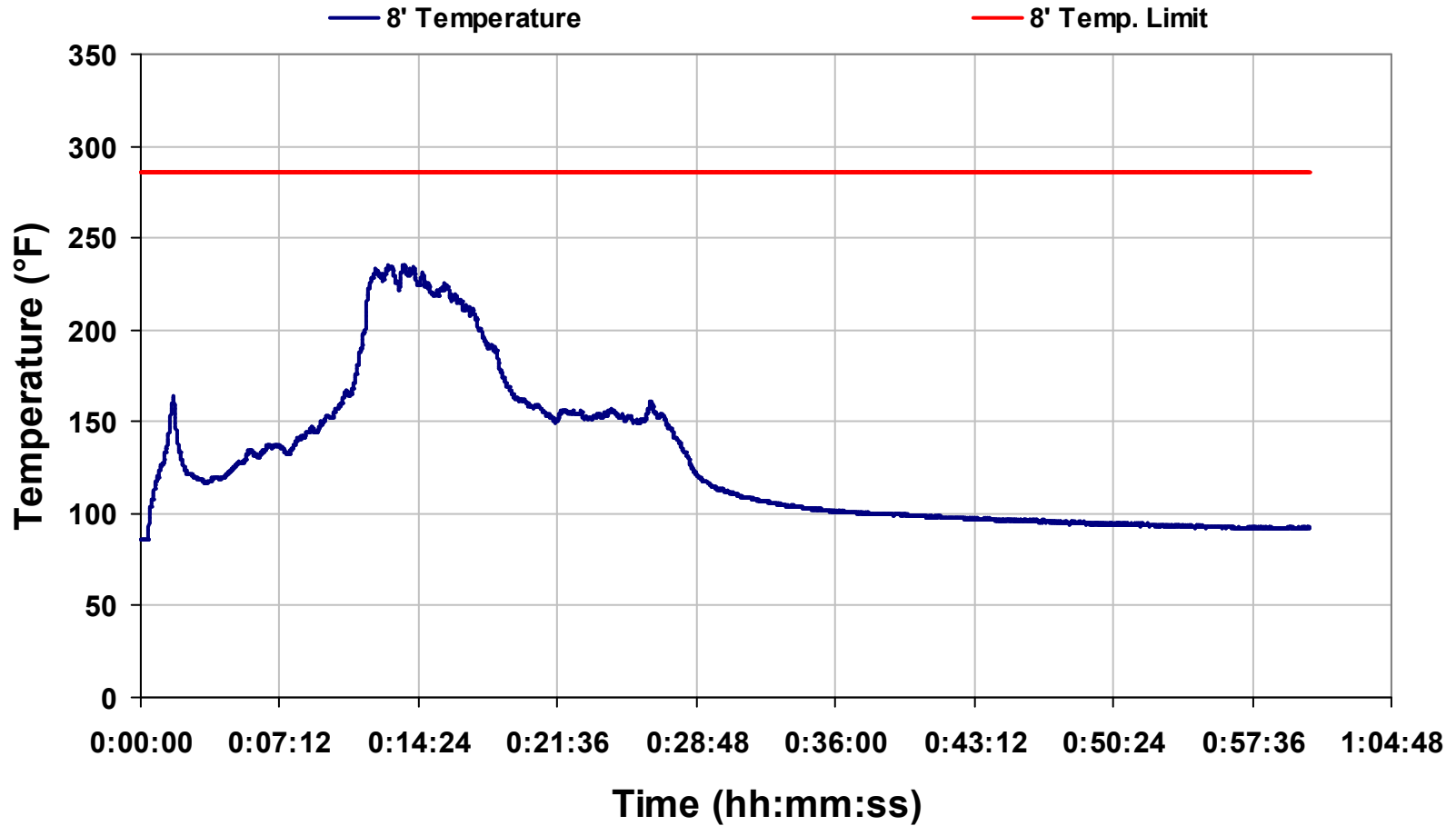
Percent Oxygen



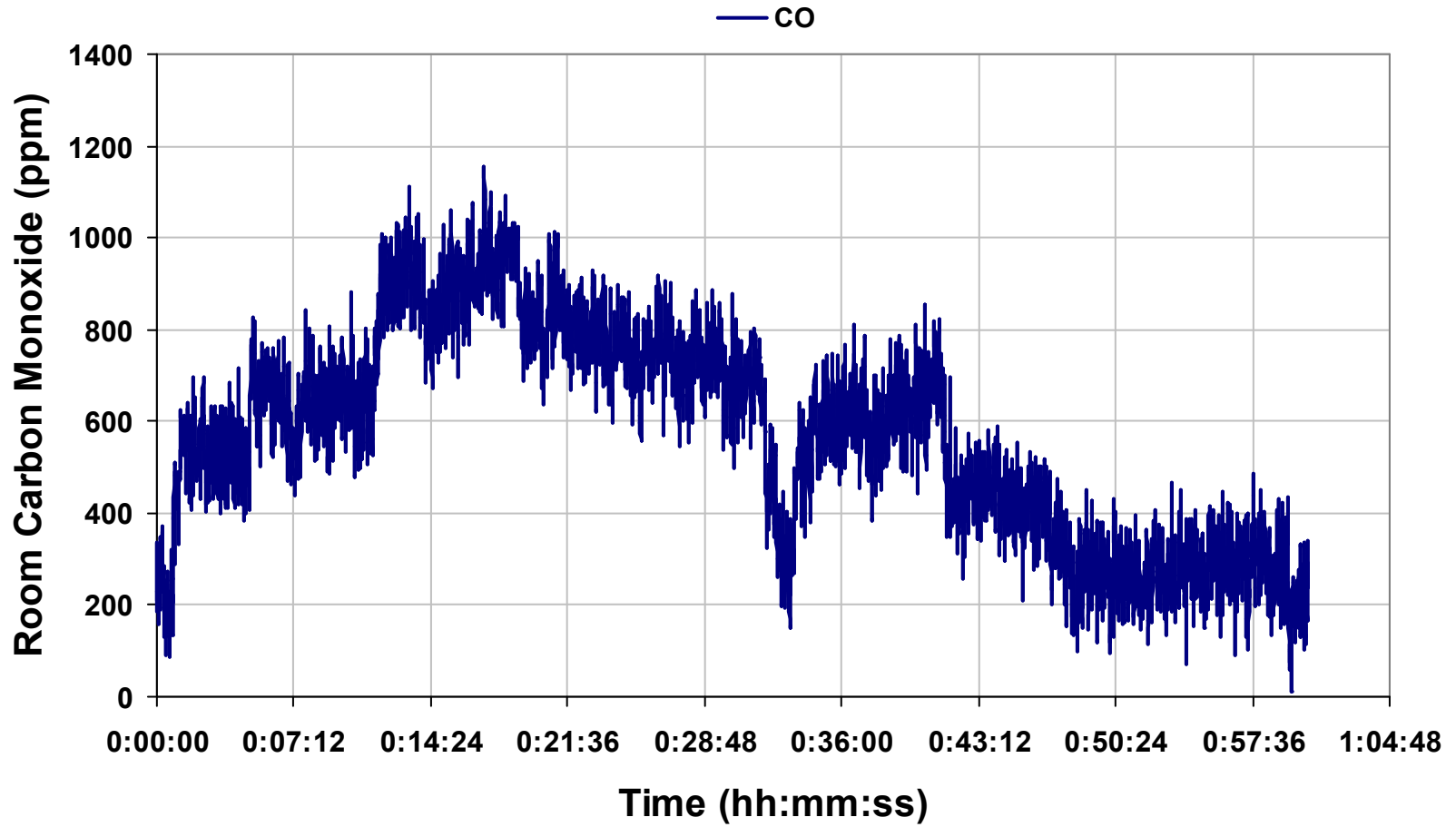
4' Thermocouple Temperature



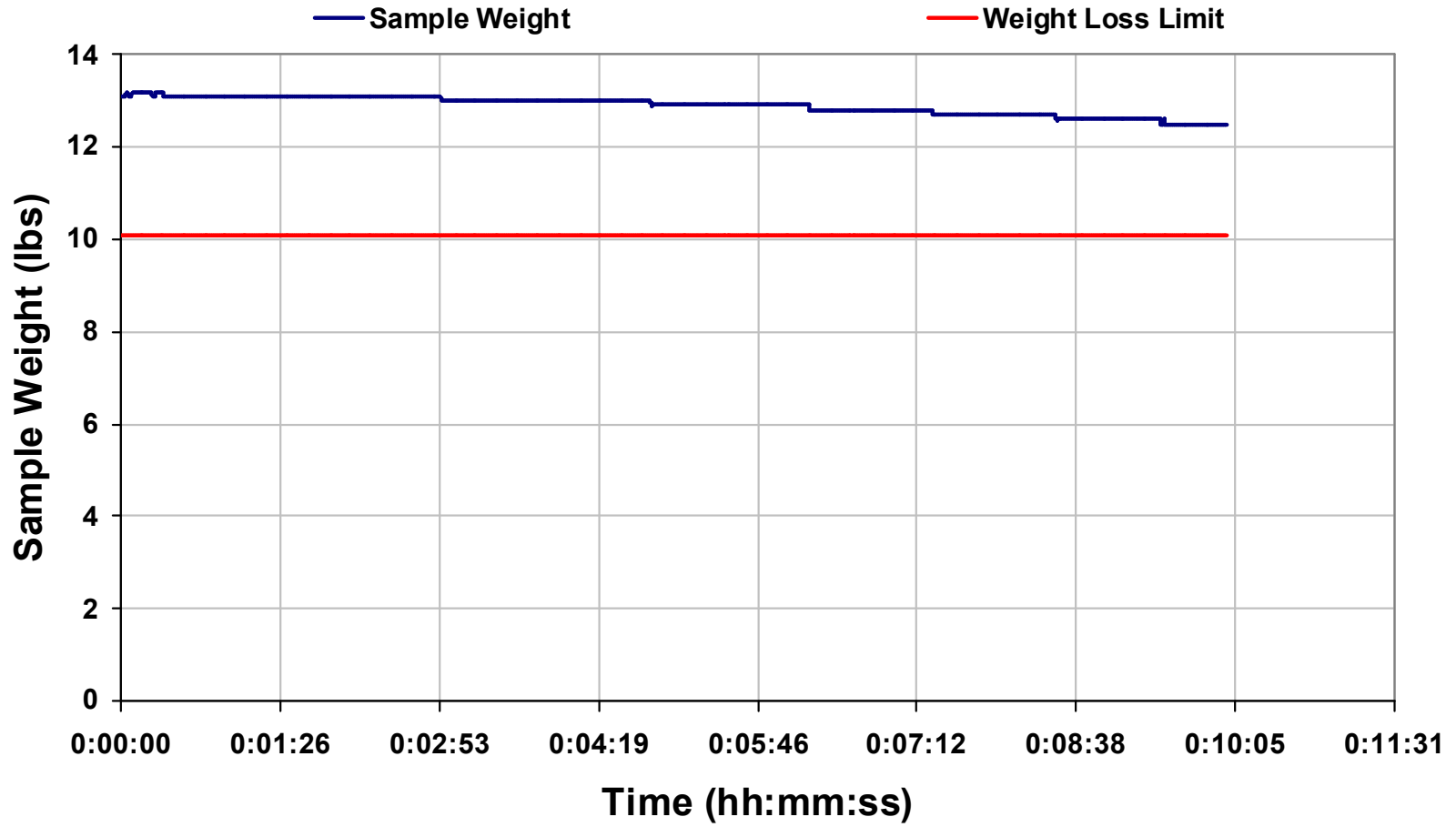
8' Thermocouple Temperature



Room Carbon Monoxide



Sample Weight (scale reading)



Opacity

