

Manufacturer: Alternate Heating Systems Model: SE210
 Job #G104711998 Run 1
 Reviewer:

Page 27 of 27
 Date 9-20-21 ^{RS} 9.21.21
 Tech. [Signature]

Pre/Post Checks

Moisture Meter Calibration Check:

Time: <u>8:00A</u>	X: <input checked="" type="checkbox"/>	Y: <input checked="" type="checkbox"/>	12: <input checked="" type="checkbox"/>	22: <input checked="" type="checkbox"/>
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Pre-Test

Post-Test

Facility Conditions:

Air Velocity

<u>0</u> fpm	<u>0</u> fpm
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Smoke Capture Check

Wood Heater Conditions:

Date Wood Heater Stack Cleaned

<u>9-20-21</u>

Date Dilution Tunnel Cleaned

<u>9-20-21</u>

Induced Draft Check

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Tunnel Velocity

<u>0.120</u>	<u>0.118</u>
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Pitot Leak Check:

Side A

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Side B

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Temperature System:

Ambient (65° - 90°F)

<u>83.43</u> °F

Proportional Checks:

CO Analyzer Drift Check

<input checked="" type="checkbox"/>

CO₂ Analyzer Check

<input checked="" type="checkbox"/>

O₂ Analyzer Check

<input checked="" type="checkbox"/>

Thermocouple check

<input checked="" type="checkbox"/>

Sampling Train ID Numbers:

Probe

Train 1	Train 2	Train 3
<u>1</u>	<u>2</u>	<u>3</u>
<u>1</u>	<u>3</u>	<u>5</u>
<u>2</u>	<u>4</u>	<u>6</u>
<u>-</u>	<u>-</u>	<u>-</u>

Filter Front

Filter Back

Filter 5G-3 (<90°F)

Pre-Test Scale Audit

Manufacturer: Alternate Heating Systems Model:SE210
 Job #G104711998 Run 1
 Reviewer:

Page 37 of
 Date 9-20-21 KS 9-21-21
 Tech. [Signature]

Scale Type	Audit Weight	Measured Weight
Platform	<u>25.00</u> lbs., Class F	<u>25.00</u> lbs.
Wood	<u>10.00</u> lbs., Class F	<u>10.00</u> lbs.
Analytical	<u>100.000</u> mg, Class S	<u>100.000</u> mg.

LIMITS OF WEIGHT RANGES

ANALYTICAL SCALE:50%-150% of dry filter weight, ± 0.1 mg
PLATFORM SCALE 20%-80% of ideal test load weight, ± 0.1 lbs. or 1%
WOOD SCALE 20%-80% of ideal test load weight, ± 0.1 lbs. or 1%

Manufacturer: Alternate Heating Systems Model:SE210
 Job #G104711998 Run 1
 Reviewer:

Page 47 of 45
 Date 9-21-21
 Tech. [Signature]

SAMPLING EQUIPMENT CHECK OUT

Leakage Checks Tunnel Samplers

	SAMPLE 1		SAMPLE 2		SAMPLE 3	
	Pre-Test	Post-Test	Pre-Test	Post-Test	Pre-test	Post Test
Unplugged Flow Rate = .25cfm						
Vacuum (inches Hg.)	10 ^u					
Final 1 minute DGM (ft ³)	0	0	0	0	0	0
Initial 1 minute DGM (ft ³)	0	0	0	0	0	0
Change (C) (ft ³)	0	0	0	0	0	0
Allowable leakage .04 x Sample rate or .02cfm	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100
Check OK	✓	✓	✓	✓	✓	✓

Leakage Checks Flue Gas Sampler

	Pre Test	Post Test
Plugged Probe		
Vacuum (inches Hg.)	10 ^u	10 ^u
Rotometer Reading (mm)	0	0
Flow Rate (CFM)	0	0
Allowable (.04 x Sample Rate)	.04	.04
Check OK	✓	✓

Manufacturer: Alternate Heating Systems
 Job #G104711998
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Model:SE210
 Run 1

Page 5 of 7
 Date 9-20-21 K59-21-21
 Tech. [Signature]

CONTINUOUS ANALYZERS

Pre-Test (Adjust and Record)

	ZERO		SPAN		CAL. (Record Only)	
CO ₂	<u>0</u>	<u>0</u>	<u>24.94</u>	<u>24.92</u>	<u>11.98</u>	<u>11.99</u>
CO	<u>0</u>	<u>0</u>	<u>7.75</u>	<u>7.748</u>	<u>3.94</u>	<u>4.00</u>
O ₂	<u>0</u>	<u>0</u>	<u>20.90</u>	<u>20.89</u>	<u>9.96</u>	<u>10.01</u>
	Actual	Should Be	Actual	Should Be	Actual	Should Be

Post Test (Record Only)

	Zero	Span	Cal.	Zero Drift	Span Drift	Cal. Drift	OK?	Not OK*
CO ₂	<u>0.00</u>	<u>24.85</u>	<u>11.94</u>	<u>0.00</u>	<u>.09</u>	<u>.02</u>	<u>✓</u>	<u>NA</u>
CO	<u>-0.08</u>	<u>7.47</u>	<u>3.80</u>	<u>.88</u>	<u>.28</u>	<u>.16</u>	<u>✓</u>	<u>NA</u>
O ₂	<u>0.01</u>	<u>20.85</u>	<u>9.95</u>	<u>.01</u>	<u>.05</u>	<u>.01</u>	<u>✓</u>	<u>NA</u>

* Greater than ± 5% of the range used.

Manufacturer: Alternate Heating Systems Model: SE210
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Reviewer: _____

Page 6 of 7
Date 9-20-21 KS 9-21-21
Tech [Signature]

TEST DATA LOG

RAW DRY GAS METER READINGS

	System 1	System 2	System 3
Final (ft ³)	26.62	26.61	8.48
Initial (ft ³)	0	0	0

AMBIENT CONDITIONS

	Start	End
Barometer. (inches Hg)	29.11	29.16
Ambient (°F)	82.3	83.6
Humidity (%)	43.1	41.4

