



Manufacturer: Alternate Heating Systems Model: SE210  
 Job #G104711998 Run 4  
 Reviewer: \_\_\_\_\_

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### Pre/Post Checks

Moisture Meter Calibration Check:

Time: <u>6:30A</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

Smoke Capture Check

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

#### Wood Heater Conditions:

Date Wood Heater Stack Cleaned

Date Dilution Tunnel Cleaned

Induced Draft Check

Tunnel Velocity

<u>9-20-21</u>	
<u>9-20-21</u>	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>0.118</u>	<u>0.116</u>

#### Pitot Leak Check:

Side A

Side B

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

#### Temperature System:

Ambient (65° - 90°F)

<u>80.03</u> °F
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#### Proportional Checks:

CO Analyzer Drift Check

CO<sub>2</sub> Analyzer Check

O<sub>2</sub> Analyzer Check

Thermocouple check

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

#### Sampling Train ID Numbers:

Probe

Filter Front

Filter Back

Filter 5G-3 (<90°F)

	Train 1	Train 2	Train 3
Probe	<u>10</u>	<u>A</u>	<u>B</u>
Filter Front	<u>19</u>	<u>21</u>	<u>23</u>
Filter Back	<u>20</u>	<u>22</u>	<u>24</u>
Filter 5G-3 (<90°F)	<u>-</u>	<u>-</u>	<u>-</u>

## Pre-Test Scale Audit

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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%

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## 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.)	<u>10<sup>-2</sup></u>	<u>10<sup>-2</sup></u>	<u>10<sup>-2</sup></u>	<u>10<sup>-2</sup></u>	<u>10<sup>-2</sup></u>	<u>10<sup>-2</sup></u>
Final 1 minute DGM (ft <sup>3</sup> )	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Initial 1 minute DGM (ft <sup>3</sup> )	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Change (C) (ft <sup>3</sup> )	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Allowable leakage .04 x Sample rate or .02cfm	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100
Check OK	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

### Leakage Checks Flue Gas Sampler

	Pre Test	Post Test
Plugged Probe		
Vacuum (inches Hg.)	<u>10<sup>-2</sup></u>	<u>10<sup>-2</sup></u>
Rotometer Reading (mm)	<u>0</u>	<u>0</u>
Flow Rate (CFM)	<u>0</u>	<u>0</u>
Allowable (.04 x Sample Rate)	<u>.04</u>	<u>.04</u>
Check OK	<u>✓</u>	<u>✓</u>

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## CONTINUOUS ANALYZERS

Pre-Test (Adjust and Record)

	ZERO		SPAN		CAL. (Record Only)	
CO <sub>2</sub>	<u>0</u>	<u>0</u>	<u>24.92</u>	<u>24.92</u>	<u>11.99</u>	<u>11.99</u>
CO	<u>0</u>	<u>0</u>	<u>7.16</u>	<u>7.748</u>	<u>4.01</u>	<u>4.00</u>
O <sub>2</sub>	<u>0</u>	<u>0</u>	<u>20.89</u>	<u>20.89</u>	<u>10.00</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 <sub>2</sub>	<u>0.02</u>	<u>24.79</u>	<u>11.94</u>	<u>.02</u>	<u>.13</u>	<u>.5</u>	<u>✓</u>	<u>NA</u>
CO	<u>-0.07</u>	<u>7.37</u>	<u>3.76</u>	<u>-07</u>	<u>.39</u>	<u>.25</u>	<u>✓</u>	<u>NA</u>
O <sub>2</sub>	<u>-0.01</u>	<u>20.79</u>	<u>9.92</u>	<u>.01</u>	<u>.10</u>	<u>.08</u>	<u>✓</u>	<u>NA</u>

\* Greater than ± 5% of the range used.

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**TEST DATA LOG**

**RAW DRY GAS METER READINGS**

	System 1	System 2	System 3
Final (ft <sup>3</sup> )	43.55	43.54	8.51
Initial (ft <sup>3</sup> )	0	0	0

**AMBIENT CONDITIONS**

	Start	End
Barometer. (inches Hg)	28.94	28.80
Ambient (°F)	82.0	86.5
Humidity (%)	30.7	29.8

