

Manufacturer: Alternate Heating Systems Model: SE210
 Job #G104711998 Run 3
 Reviewer: _____

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Pre/Post Checks

Moisture Meter Calibration Check:

Time: <u>6:00A</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>0.135</u>	<u>0.123</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>74.23</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
Probe	<u>7</u>	<u>8</u>	<u>9</u>
Filter Front	<u>13</u>	<u>15</u>	<u>17</u>
Filter Back	<u>14</u>	<u>16</u>	<u>18</u>
Filter 5G-3 (<90°F)	<u>-</u>	<u>-</u>	<u>-</u>

Filter Front

Filter Back

Filter 5G-3 (<90°F)

Pre-Test Scale Audit

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Scale Type	Audit Weight	Measured Weight
Platform	25.00 lbs., Class F	25.00 lbs.
Wood	10.00 lbs., Class F	10.00 lbs.
Analytical	100.000 mg, Class S	100.000 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^u</u>	<u>10ⁿ</u>	<u>10^u</u>	<u>10ⁿ</u>	<u>10^u</u>	<u>10ⁿ</u>
Final 1 minute DGM (ft ³)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Initial 1 minute DGM (ft ³)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Change (C) (ft ³)	<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^u</u>	<u>10ⁿ</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 ₂	0	0	24.54	24.92	12.00	11.99
CO	0	0	7.15	7.748	3.97	4.00
O ₂	0	0	20.89	20.89	9.98	10.01
	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	-0.03	24.84	11.94	-0.03	0.06	0.06	✓	NA
CO	-0.13	7.31	3.69	-0.13	0.44	0.28	✓	NA
O ₂	0.02	20.83	9.96	0.02	0.06	0.02	✓	NA

* 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 ³)	82.84	82.83	8.49
Initial (ft ³)	0	0	0

AMBIENT CONDITIONS

	Start	End
Barometer. (inches Hg)	29.10	29.97
Ambient (°F)	79.6	87.3
Humidity (%)	28.1	23.2

