

December 10, 2003



**Robbins**  
MANUFACTURING COMPANY  
TAMPA • ORLANDO • FT. MYERS

Division of Air Resource Management, Permitting Section  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, FL 33619-8318

RE: Permit Modification Application for an Air Pollution Source  
Robbins Manufacturing Company  
Tarrytown, Sumter County  
Wood Fired Boiler (Permit No. 119001-001-AO)

Dear Sir/Madam,

Please find enclosed the application to modify Robbins Manufacturing Company's (Robbins) air operation permit for the wood-fired boiler in Sumter County. Additionally, find enclosed the processing fee to cover the process of this application.

The modification of the current wood-fired boiler is prompted by the deterioration of the current boiler to the point that the steam production is not meeting the demands of the system. Also, Robbins has discovered a unique opportunity to install a new boiler in line with the existing boiler in an effort to improve the current situation and prepare for the eventuality of the demise of the existing boiler. This new modification will initially serve to boost steam production in order to meet demand and to ultimately replace the current boiler as its production continues to decline. We believe that the modification will improve our current situation without changing the overall usage of wood to fire this system.

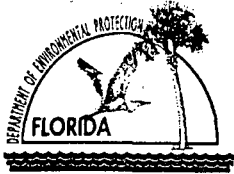
If you have any further questions or concerns, please contact me at 971-3030 or [jrobbins@robbinslumber.com](mailto:jrobbins@robbinslumber.com).

Sincerely,

Robbins Manufacturing Company

  
Jerome G. Robbins, II

Enclosures: (3)



# Department of Environmental Protection

## Division of Air Resources Management

### APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

#### I. APPLICATION INFORMATION



#### Identification of Facility

1. Facility Owner/Company Name: <u>ROBBINS MANUFACTURING CO.</u>	
2. Site Name: <u>ROBBINS MANUFACTURING CO. / SEWMILL</u>	
3. Facility Identification Number: <u>1190011</u> [ ] Unknown	
4. Facility Location: <u>SR 50 and CR 471, TARRYTOWN</u> Street Address or Other Locator: <u>13904 STATE ROUTE 471</u> City: <u>TARRYTOWN</u> County: <u>SUMTER</u> Zip Code: <u>33597</u>	
5. Relocatable Facility? <u>          </u> [ ] Yes [ <input checked="" type="checkbox"/> ] No	6. Existing Permitted Facility? <u>          </u> [ ] No <input checked="" type="checkbox"/> Yes

#### Application Contact

1. Name and Title of Application Contact: <u>Bruce Lee - Mgr.</u>	
2. Application Contact Mailing Address: Organization/Firm: <u>Robbins Mfg. Co.</u> Street Address: <u>13904 SR 471</u> City: <u>Tarrytown</u> State: <u>FL</u> Zip Code: <u>33597</u>	
3. Application Contact Telephone Numbers: <u>          </u> Telephone: <u>(352) 568-3490</u> Fax: <u>(352) 793-2025</u>	

#### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	<u>          </u>
2. Permit Number:	

**Purpose of Application**

**Air Operation Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

- Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.
- Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number: \_\_\_\_\_

- Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number: \_\_\_\_\_

Operation permit number to be revised: \_\_\_\_\_

- Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):  
\_\_\_\_\_

- Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised: \_\_\_\_\_

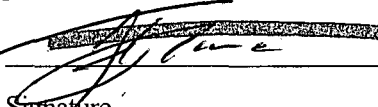
Reason for revision: \_\_\_\_\_

**Air Construction Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

- Air construction permit to construct or modify one or more emissions units.
- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
- Air construction permit for one or more existing, but unpermitted, emissions units.

**Owner/Authorized Representative**

1. Name and Title of Owner/Authorized Representative: <b>Jerome G. Robbins, II VP + Secretary</b>
2. Owner/Authorized Representative Mailing Address: Organization/Firm: <b>Robbins Mfg. Co.</b> Street Address: <b>13001 N. Nebraska Ave. • PO Box 17939</b> City: <b>Tampa</b> State: <b>FL</b> Zip Code: <b>33612 • 33682</b>
3. Owner/Authorized Representative Telephone Numbers: Telephone: <b>(813) 971-3030</b> Fax: <b>(813) 972-3980</b>
4. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative* of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>   Signature _____ Date <b>12-9-03</b>

\* Attach letter of authorization if not currently on file.

**Professional Engineer Certification**

1. Professional Engineer Name: <b>Cory A. Houchin</b> Registration Number: <b>58064</b>
2. Professional Engineer Mailing Address: Organization/Firm: <b>Environmental Sciences Group, Inc.</b> Street Address: <b>P.O. Box 7495</b> City: <b>Tampa</b> State: <b>FL</b> Zip Code: <b>33613</b>
3. Professional Engineer Telephone Numbers: Telephone: <b>(813) 930-9074</b> Fax: <b>(813) 935-1167</b>

4. Professional Engineer Statement:

*I, the undersigned, hereby certify, except as particularly noted herein\*, that:*

*(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and*

*(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.*

*If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.*

*If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [, if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.*

*Robert A. Houch*  
Signature

12/2/2003  
Date

NO. 63004  
(seal)

\* Attach any exception to certification statement.

*Roberts wood-fired boiler replacement app.*

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	260 HP. Hurst Firebox Steam Boiler	ACIE	\$1000 <sup>00</sup>

Application Processing Fee

Check one:  Attached - Amount: \$ 1000<sup>00</sup> [ ] Not Applicable

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**Construction/Modification Information**

1. Description of Proposed Project or Alterations:

Hurst Firebox Steam Boiler w/ Multicyclone  
Collector. Flow Diagram Attached.

2. Projected or Actual Date of Commencement of Construction: ~~JAN 12~~, 2004

3. Projected Date of Completion of Construction: ~~JAN 9~~, 2004

**Application Comment**

[Empty box for Application Comment]

**II. FACILITY INFORMATION**

**A. GENERAL FACILITY INFORMATION**

**Facility Location and Type**

1. Facility UTM Coordinates: <del>          </del> <b>397.54</b> <b>3158.71</b> Zone: <del>          </del> <b>17</b> East (km): <del>398.70E</del> North (km): <del>3158.9N</del>			
2. Facility Latitude/Longitude: <del>          </del> <b>10</b> Latitude (DD/MM/SS): <del>N28deg</del> <b>33.135</b> Longitude (DD/MM/SS): <del>W82deg</del> <b>0.3.193</b> <b>27</b>			
3. Governmental Facility Code: <del>          </del> <b>0</b>	4. Facility Status Code: <del>          </del> <b>A</b>	5. Facility Major Group SIC Code: <del>          </del> <b>24</b>	6. Facility SIC(s): <del>          </del> <b>2421</b>
7. Facility Comment (limit to 500 characters): <del>          </del>			

**Facility Contact**

1. Name and Title of Facility Contact: <del>          </del> <b>BRUCE LEE</b>	
2. Facility Contact Mailing Address: <del>          </del> Organization/Firm: <b>Robbins mfg. Co.</b> Street Address: <b>13904 SR 471</b> City: <b>Terrytown</b> State: <b>FL</b> Zip Code: <b>33957</b>	
3. Facility Contact Telephone Numbers: <del>          </del> Telephone: <b>(352) 568-3490</b> Fax: <b>(352) 793-2025</b>	





## B. FACILITY POLLUTANTS

### List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
CO	B	7.46	32.68	NA	
PB	B	5.97E-4	2.6E-3	NA	
NOX	B	2.74	11.98	NA	
PM	B	4.35	19.06	NA	
PM10	B	3.98	17.43	NA	
SO2	B	0.31	1.36	NA	
VOC	B	0.21	0.93	NA	



**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Emissions Unit Description and Status**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Hurst Firebox Steam Boiler 260 H.P., 150 psi, underfeed stoker.</p>		
<p>3. Emissions Unit Identification Number:</p> <p>ID: 001</p>		<p><input type="checkbox"/> No ID</p> <p><input type="checkbox"/> ID Unknown</p>
<p>4. Emissions Unit Status Code: C</p>	<p>5. Initial Startup Date: JAN 12, 04</p>	<p>6. Emissions Unit Major Group SIC Code: 24</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p>		

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (limit to 200 characters per device or method):  
 Hurst Multicyclone Collector w/9" Tubes.

2. Control Device or Method Code(s): 076

**Emissions Unit Details**

1. Package Unit: 260 H.P. Firebox, Underfeed Stoker  
 Manufacturer: Hurst Boiler Co. Model Number: FB-260-150

2. Generator Nameplate Rating: MW

3. Incinerator Information:  
 Dwell Temperature: °F  
 Dwell Time: seconds  
 Incinerator Afterburner Temperature: °F

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: 13.1 mmBtu/hr

2. Maximum Incineration Rate: lb/hr tons/day

3. Maximum Process or Throughput Rate: 1875 lb wood/hr

4. Maximum Production Rate:

5. Requested Maximum Operating Schedule:  
24 hours/day 7 days/week  
52 weeks/year 8760 hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):  
 Average Heat Input Rate = 12.43 mmBtu/hr  
 Average Process Throughput = 1775 lb wood/hr

**B. EMISSION POINT (STACK/VENT) INFORMATION**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram?		2. Emission Point Type Code: <u>1</u>	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: <u>V</u>	6. Stack Height: <u>30</u> feet	7. Exit Diameter: <u>1.67</u> feet	
8. Exit Temperature: <u>450</u> °F	9. Actual Volumetric Flow Rate: <u>6650</u> acfm	10. Water Vapor: <u>14</u> %	
11. Maximum Dry Standard Flow Rate: <u>2900</u> dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: <u>17</u> East (km): <u>396.70</u> North (km): <u>5158.89</u>			
14. Emission Point Comment (limit to 200 characters):			

C. SEGMENT (PROCESS/FUEL) INFORMATION

**Segment Description and Rate:** Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): <u>Underfeed Stoker, Wet Wood, 50% M.C.</u>		
2. Source Classification Code (SCC): <u>10200903</u>		3. SCC Units: <u>tons burned</u>
4. Maximum Hourly Rate: <u>2723.67</u>	5. Maximum Annual Rate: <u>11,929.7</u> <u>Ton<sup>S</sup>/yr</u>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <u>0</u>	8. Maximum % Ash: <u>0.5</u>	9. Million Btu per SCC Unit: <u>14.0</u>
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: <b>PM</b>		2. Pollutant Regulatory Code: <b>EL</b>	
3. Primary Control Device Code: <b>076</b>	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: <b>80</b>	
6. Potential Emissions: <b>4.35</b> lb/hour <b>19.06</b> tons/year		7. Synthetically Limited? <input type="checkbox"/>	
8. Emission Factor: <b>0.35 lb/MMBTU</b> Reference: <b>AP-42</b>		9. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters):  $1775 \text{ lb/hr} \cdot 7000 \text{ btu/lb} \cdot 0.35 \text{ lb PM/mmbtu}$ $\frac{10^6 \text{ btu/mmbtu}}{10^6 \text{ btu/mmbtu}}$ $= 4.349 \text{ lb PM/hr} \cdot 8760 \text{ hr/yr} / 2000 \text{ lb/ton} = 19.05 \text{ ton PM/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	



**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

Potential Emissions

1. Pollutant Emitted: <b>CO</b>		2. Pollutant Regulatory Code: <b>NS</b>	
3. Primary Control Device Code: <b>076</b>	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: <b>80</b>	
6. Potential Emissions: <b>7.46</b> lb/hour <b>32.68</b> tons/year		7. Synthetically Limited? [ ]	
8. Emission Factor: <b>0.6 lb/MMBTU</b> Reference: <b>AR-42</b>		9. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters): <b>See PM calculation (Pol. Detail Info. Pg 1 of 7)</b>			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: <u>NOx</u>		2. Pollutant Regulatory Code: <u>NS</u>	
3. Primary Control Device Code: <u>076</u>		4. Secondary Control Device Code:	
5. Total Percent Efficiency of Control: <u>80</u>		6. Potential Emissions: <u>2.74</u> lb/hour <u>11.98</u> tons/year	
7. Synthetically Limited? [ ]		8. Emission Factor: <u>0.2216/MMBTU</u> Reference: <u>AR-42</u>	
9. Emissions Method Code: <u>3</u>		10. Calculation of Emissions (limit to 600 characters): <u>See PM calculation (Pol. Detail Info. page 1 of 7)</u>	
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		4. Equivalent Allowable Emissions: lb/hour                      tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

Potential Emissions

1. Pollutant Emitted: <u>SO<sub>2</sub></u>		2. Pollutant Regulatory Code: <u>NS</u>	
3. Primary Control Device Code: <u>076</u>	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: <u>80</u>	
6. Potential Emissions: <u>0.31</u> lb/hour <u>1.36</u> tons/year		7. Synthetically Limited? <input type="checkbox"/>	
8. Emission Factor: <u>0.025 lb/MMBTU</u> Reference: <u>AP-42</u>		9. Emissions Method Code: <u>3</u>	
10. Calculation of Emissions (limit to 600 characters): <u>See PM calculation (Pol. Detail Info. pg 1 of 7)</u>			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour      tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 1 of 1

Pollutant Detail Information Page 5 of 7

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: <b>VOC</b>		2. Pollutant Regulatory Code: <b>NS</b>	
3. Primary Control Device Code: <b>076</b>	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: <b>80</b>	
6. Potential Emissions: <b>0.21</b> lb/hour <b>0.93</b> tons/year		7. Synthetically Limited? [ ]	
8. Emission Factor: <b>0.017 lb/MMBTU</b> Reference: <b>AR-42</b>		9. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters): <b>See PM calculation (Pol. Detail Info. page 1 of 7)</b>			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour      tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

Emissions Unit Information Section 1 of 1

Pollutant Detail Information Page 6 of 7

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: <b>PM 10</b>		2. Pollutant Regulatory Code: <b>NS</b>	
3. Primary Control Device Code: <b>076</b>	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: <b>80</b>	
6. Potential Emissions: <b>3.98</b> lb/hour <b>17.43</b> tons/year		7. Synthetically Limited? [ ]	
8. Emission Factor: <b>0.32 lb/MMBTU</b> Reference: <b>AR-42</b>		9. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters): <b>See PM calculation (Pol. Detail Info. pg. 1 of 7)</b>			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: <b>Pb</b>		2. Pollutant Regulatory Code: <b>US</b>	
3. Primary Control Device Code: <b>076</b>	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control: <b>80</b>	
6. Potential Emissions: <b>5.97(10<sup>-4</sup>) lb/hour 2.6(10<sup>-3</sup>) tons/year</b>		7. Synthetically Limited? [ ]	
8. Emission Factor: <b>4.8(10<sup>-5</sup>) lb/mmBtu</b> Reference: <b>AP-42</b>		9. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters): <b>See PM calculation (Pol. Detail Info pg. 1 of 7)</b>			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	



**G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ [ ] Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [ ] Not Applicable <input checked="" type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID: _____ [ ] Not Applicable <input checked="" type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: _____ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:



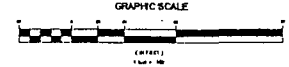
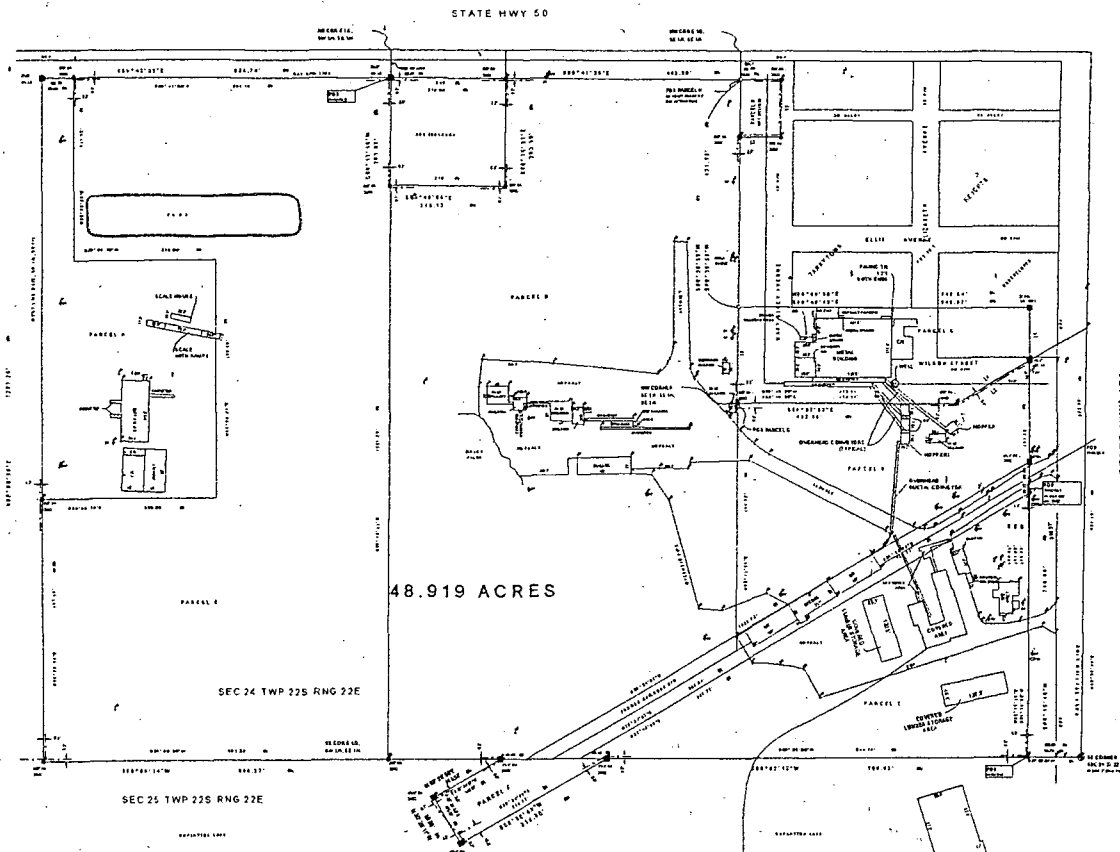


**BOUNDARY & LOCATION SURVEY**  
 LAND LYING IN  
 SEC 24 & 25, TWP. 22S, RNG 22E, SUMTER COUNTY, FLORIDA

**48.919 ACRBS**

**LEGEND:**

- 101 1/4" METEORIC
- 102 1/4" ALUMINUM
- 103 1/4" BRASS
- 104 1/4" COPPER
- 105 1/4" IRON
- 106 1/4" STEEL
- 107 1/4" WOOD
- 108 1/4" CONCRETE
- 109 1/4" MASONRY
- 110 1/4" PLASTER
- 111 1/4" GYPSUM
- 112 1/4" CEMENT
- 113 1/4" SAND
- 114 1/4" GRAVEL
- 115 1/4" ROCK
- 116 1/4" CLAY
- 117 1/4" SILT
- 118 1/4" MUD
- 119 1/4" WATER
- 120 1/4" AIR
- 121 1/4" FUEL
- 122 1/4" OIL
- 123 1/4" GAS
- 124 1/4" ELECTRICITY
- 125 1/4" TELEPHONE
- 126 1/4" CABLE
- 127 1/4" FIBER OPTIC
- 128 1/4" RAILROAD
- 129 1/4" HIGHWAY
- 130 1/4" AIRPORT
- 131 1/4" CANAL
- 132 1/4" DRAINAGE
- 133 1/4" IRRIGATION
- 134 1/4" FENCE
- 135 1/4" POST
- 136 1/4" SIGN
- 137 1/4" MARKER
- 138 1/4" MONUMENT
- 139 1/4" BENCHMARK
- 140 1/4" CONTROL POINT
- 141 1/4" ADJUTANT POINT
- 142 1/4" TRIP STATION
- 143 1/4" INTERSECTION
- 144 1/4" CORNER
- 145 1/4" CENTER POINT
- 146 1/4" END POINT
- 147 1/4" START POINT
- 148 1/4" END OF LINE
- 149 1/4" START OF LINE
- 150 1/4" POINT OF BEGINNING
- 151 1/4" POINT OF ENDING
- 152 1/4" POINT OF INTERSECTION
- 153 1/4" POINT OF TANGENCY
- 154 1/4" POINT OF CURVATURE
- 155 1/4" POINT OF SIGHT
- 156 1/4" POINT OF OBSERVATION
- 157 1/4" POINT OF MEASUREMENT
- 158 1/4" POINT OF REFERENCE
- 159 1/4" POINT OF CONNECTION
- 160 1/4" POINT OF ADJUSTMENT
- 161 1/4" POINT OF ERROR
- 162 1/4" POINT OF CORRECTION
- 163 1/4" POINT OF RESECTION
- 164 1/4" POINT OF RESECTION
- 165 1/4" POINT OF RESECTION
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- 199 1/4" POINT OF RESECTION
- 200 1/4" POINT OF RESECTION



**NOTES:**

1. THIS SURVEY WAS MADE BY THE METHOD OF TRIANGULATION AND THE RESULTS ARE AS FOLLOWS:
2. THE TOTAL ERROR IN THE PERIMETER IS 0.0000 FEET.
3. THE MEAN SIDE ERROR IS 0.0000 FEET.
4. THE MEAN ANGLE ERROR IS 0.0000 SECONDS.
5. THE MEAN DISTANCE ERROR IS 0.0000 FEET.
6. THE MEAN AREA ERROR IS 0.0000 SQUARE FEET.
7. THE MEAN VOLUME ERROR IS 0.0000 CUBIC FEET.
8. THE MEAN WEIGHT ERROR IS 0.0000 POUNDS.
9. THE MEAN TEMPERATURE ERROR IS 0.0000 DEGREES FAHRENHEIT.
10. THE MEAN PRESSURE ERROR IS 0.0000 POUNDS PER SQUARE INCH.
11. THE MEAN HUMIDITY ERROR IS 0.0000 PERCENT.
12. THE MEAN WIND ERROR IS 0.0000 FEET PER SECOND.
13. THE MEAN TIDE ERROR IS 0.0000 FEET.
14. THE MEAN REFRACTION ERROR IS 0.0000 SECONDS.
15. THE MEAN CURVATURE ERROR IS 0.0000 SECONDS.
16. THE MEAN SENSITIVE ERROR IS 0.0000 SECONDS.
17. THE MEAN BATTERY ERROR IS 0.0000 SECONDS.
18. THE MEAN LIGHT ERROR IS 0.0000 SECONDS.
19. THE MEAN MIRROR ERROR IS 0.0000 SECONDS.
20. THE MEAN TELESCOPE ERROR IS 0.0000 SECONDS.
21. THE MEAN TRIANGULATION ERROR IS 0.0000 SECONDS.
22. THE MEAN TRIANGULATION ERROR IS 0.0000 SECONDS.
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47. THE MEAN TRIANGULATION ERROR IS 0.0000 SECONDS.
48. THE MEAN TRIANGULATION ERROR IS 0.0000 SECONDS.
49. THE MEAN TRIANGULATION ERROR IS 0.0000 SECONDS.
50. THE MEAN TRIANGULATION ERROR IS 0.0000 SECONDS.

SINE TABLE	
1	0.1736
2	0.3420
3	0.5096
4	0.6736
5	0.8315
6	0.9801
7	1.1196
8	1.2501
9	1.3714
10	1.4835
11	1.5868
12	1.6812
13	1.7673
14	1.8452
15	1.9150
16	1.9777
17	2.0333
18	2.0818
19	2.1232
20	2.1575
21	2.1847
22	2.2048
23	2.2178
24	2.2237
25	2.2225
26	2.2142
27	2.1989
28	2.1766
29	2.1474
30	2.1123
31	2.0715
32	2.0261
33	1.9772
34	1.9258
35	1.8730
36	1.8188
37	1.7643
38	1.7106
39	1.6587
40	1.6087
41	1.5616
42	1.5174
43	1.4761
44	1.4377
45	1.4022
46	1.3696
47	1.3398
48	1.3128
49	1.2885
50	1.2668
51	1.2476
52	1.2308
53	1.2164
54	1.2043
55	1.1944
56	1.1866
57	1.1808
58	1.1769
59	1.1748
60	1.1744
61	1.1756
62	1.1783
63	1.1824
64	1.1878
65	1.1944
66	1.2021
67	1.2108
68	1.2204
69	1.2308
70	1.2419
71	1.2536
72	1.2658
73	1.2784
74	1.2914
75	1.3047
76	1.3183
77	1.3322
78	1.3463
79	1.3606
80	1.3751
81	1.3897
82	1.4044
83	1.4192
84	1.4340
85	1.4488
86	1.4636
87	1.4783
88	1.4929
89	1.5074
90	1.5218
91	1.5361
92	1.5503
93	1.5644
94	1.5784
95	1.5923
96	1.6060
97	1.6196
98	1.6330
99	1.6462
100	1.6592

FLORIDA STATE  
 COMM. REG. # 100000000  
 EFFECTIVE DATE: 06/01/2010

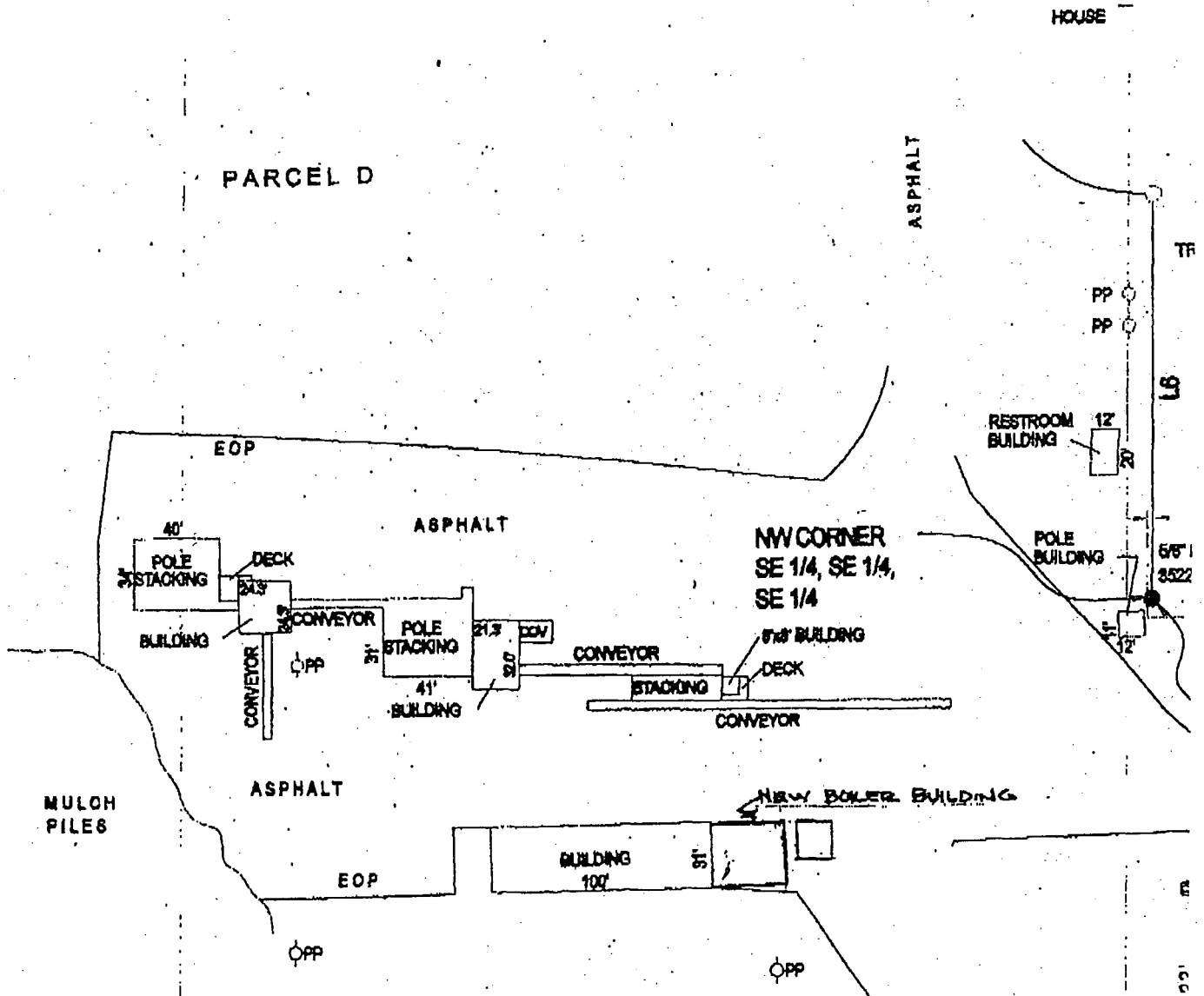
ROBBINS MANUFACTURING	BOUNDARY SURVEY	PLANNED/PROPOSED USE OF THE SURFACE OF THE ADJACENT PROPERTY: A.I.C. INDUSTRIAL USE ZONING DISTRICT: 1-200000000 DISTRICT CODE: 1-200000000	SURVEYING COMPANIES: SURVEY NO. 100000000 DATE: 10/01/2010
PLANNED/PROPOSED USE OF THE SURFACE OF THE ADJACENT PROPERTY: A.I.C. INDUSTRIAL USE ZONING DISTRICT: 1-200000000 DISTRICT CODE: 1-200000000		SURVEYING COMPANIES: SURVEY NO. 100000000 DATE: 10/01/2010	SURVEYING COMPANIES: SURVEY NO. 100000000 DATE: 10/01/2010

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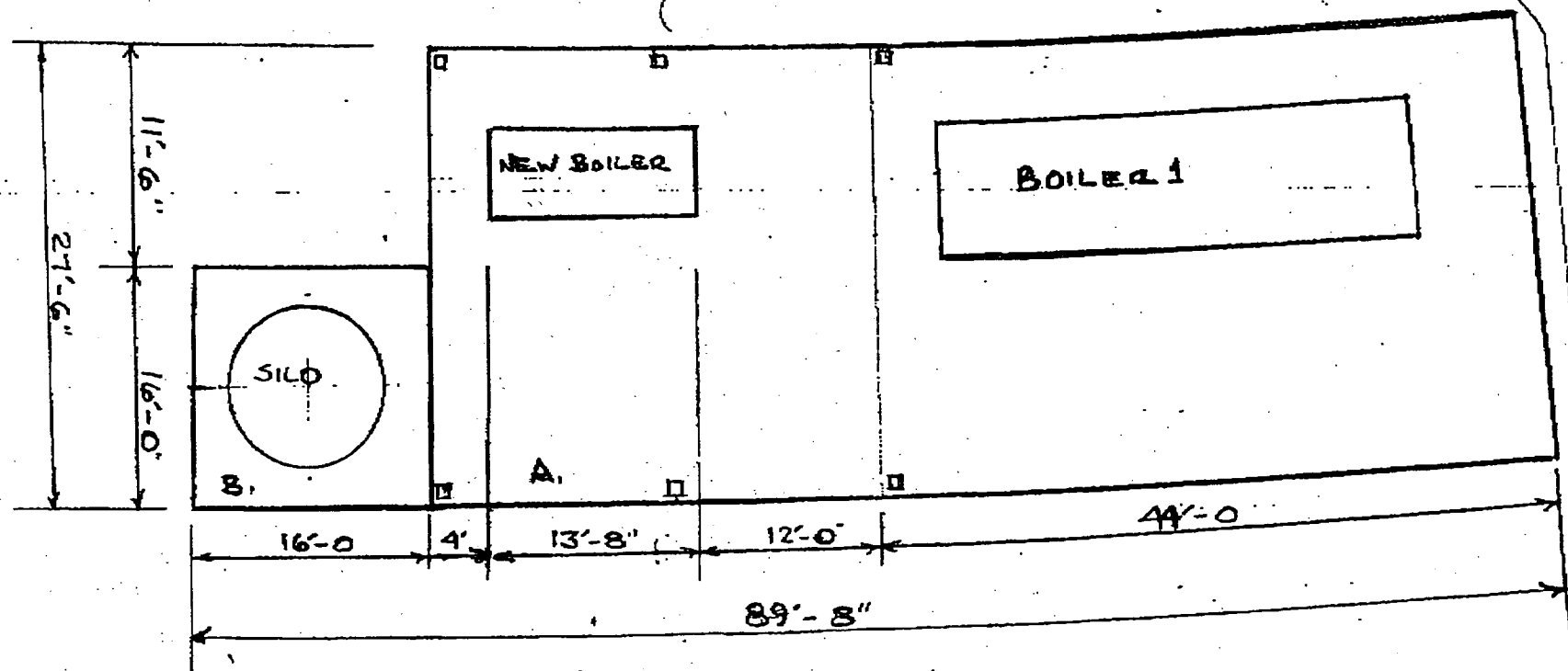
AOI



ROBBINS MFG. CO.  
TARRYTOWN, FL



JAN 03



NEW CONCRETE SLABS  
A. BOILER 30'x30'  
B. SILO 16'x16'

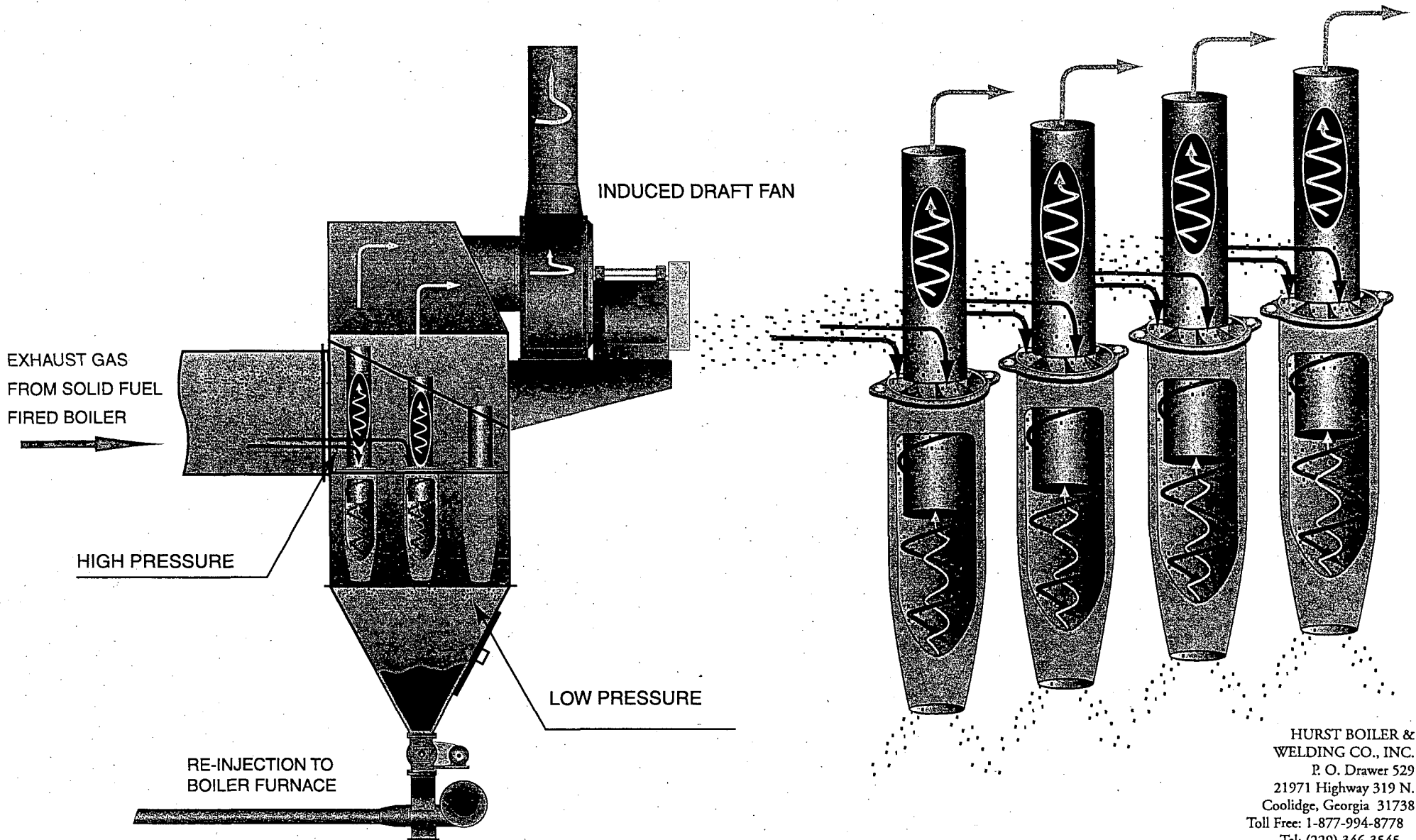
ROBBINS SAWMILL  
BOILER PROJECT  
9/02

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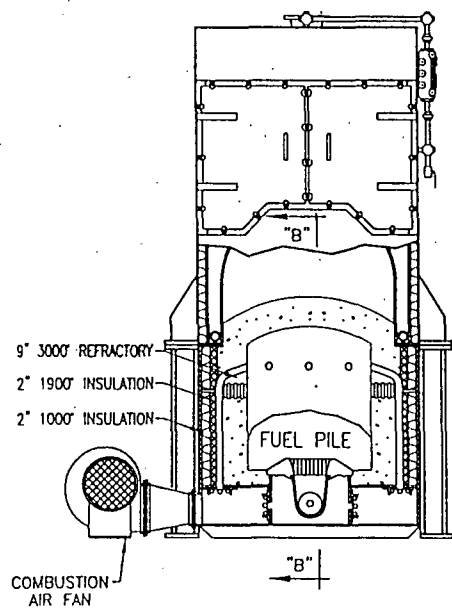
The Solid Fuel People

# Fly Ash Collection System

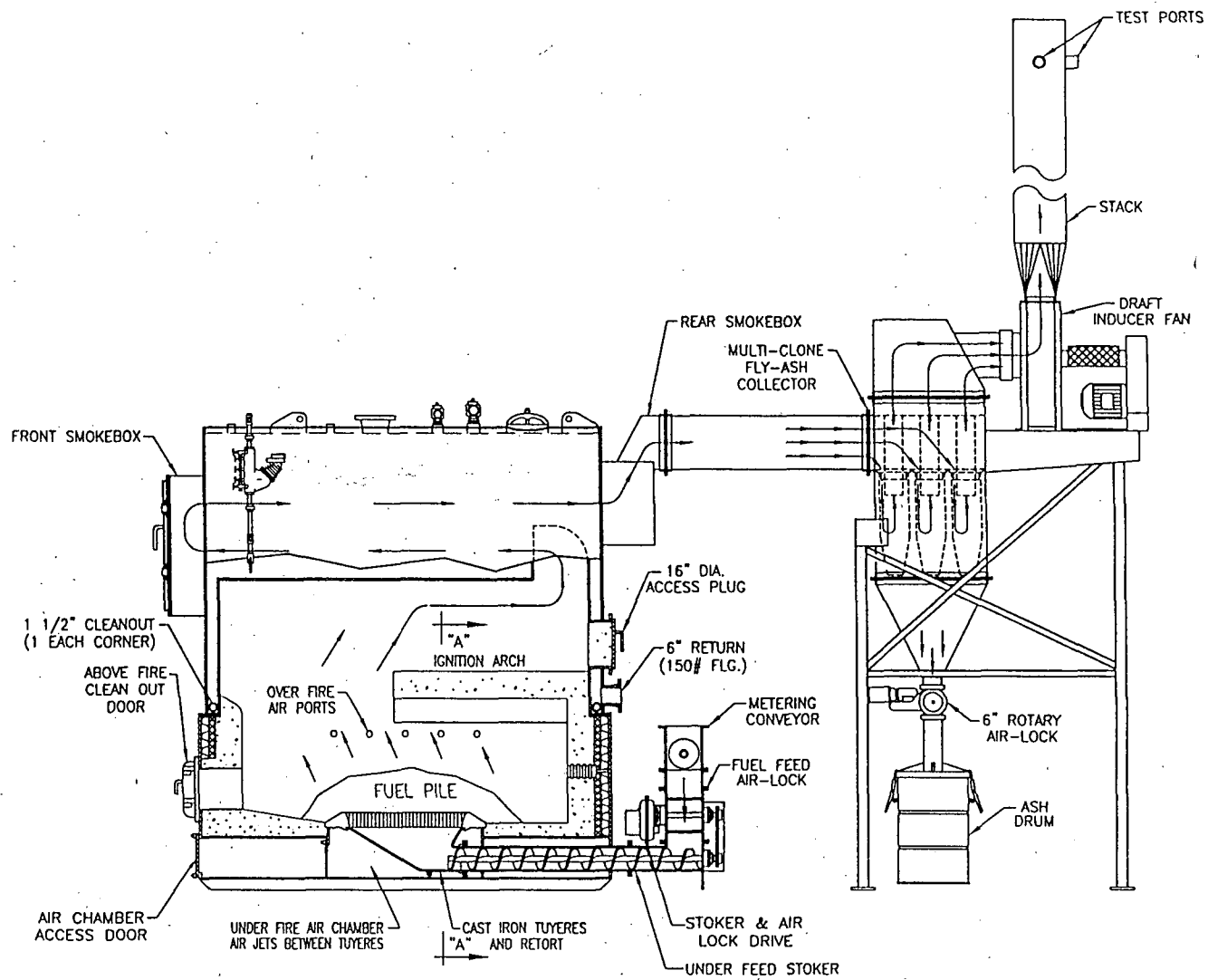


HURST BOILER & WELDING CO., INC.  
 P. O. Drawer 529  
 21971 Highway 319 N.  
 Coolidge, Georgia 31738  
 Toll Free: 1-877-994-8778  
 Tel: (229) 346-3545  
 Fax: (229) 346-3874  
 Email: info@hurstboiler.com

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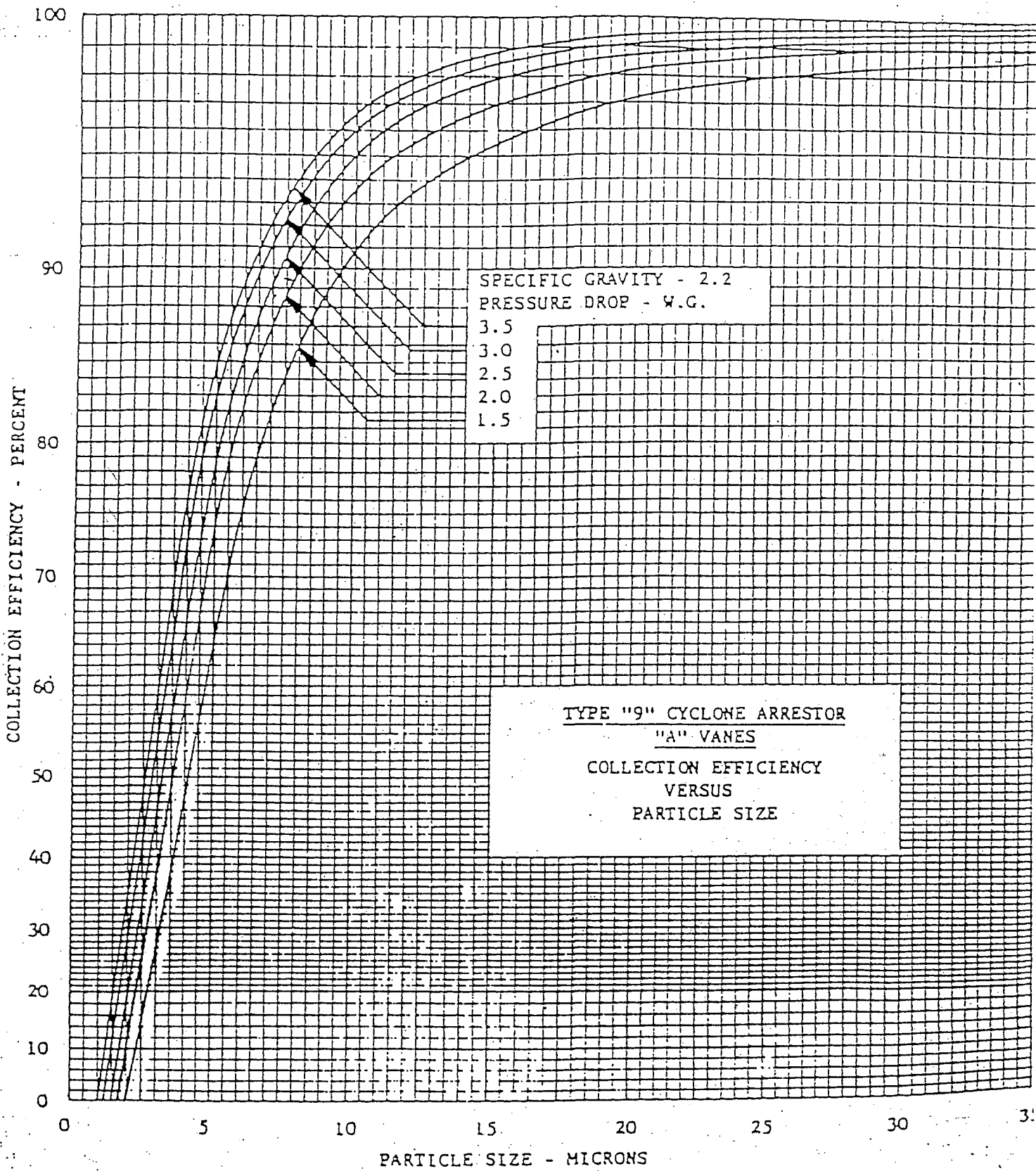
**FRONT VIEW**  
(& PARTIAL SECTION "A"- "A")



**SIDE VIEW**  
(& PARTIAL SECTION "B"- "B")

**BOILER & FURNANCE DETAILS**

OWN. BY: DM      DRAWING NO.: FBFLOW      REV. NO.:



Particle Size/Efficiency Curve



## Particle Distribution Table

Particle Size Distribution  
at Inlet to Collector

Fraction Efficiency  
of Collector

Particulate Size Range(Microns)

Weight % for Size Range

Weight % for Size Range

0-2
2-4
4-6
6-8
8-10
10-12
12-16
16-20
20-30
30-40
40-50
50-60
60-70
70-80
80-90
90-100
>100



2
2
3
3
5
6
7
8
9
10
10
10
5
5
5
5
5



0
55
85
92
95.5
97.4
98.7
99.3
99.4
99.8
99.8
99.8
99.8
99.8
99.8
99.8