



JEFFERSON COUNTY DEPARTMENT OF HEALTH  
 Environmental Health Services  
 Air and Radiation Protection Division  
 P.O. Box 2648, Birmingham, AL 35202 • (205) 930-1239

MAR 18 '19 PM 1:15  
 REC'D AIR AND RAD PROT

**Permit Application for Facility Identification**

Does this application contain Confidential Business Information (CBI)?  
 Yes     No

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	7	0	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	---	---	---	---	--------------------------	--------------------------	--------------------------	--------------------------

Do not write in this space

**Facility Information**

1. Name of Facility Sherman Industries LLC, Birmingham RMC Plant  
 Street Address 3240 Fayette Avenue  
 City Birmingham State Alabama Zip 35208  
 Mailing Address Sherman Industries LLC; 400 Riverhills Business Park; Suite 405  
 City Birmingham State Alabama Zip 35242  
 Facility Phone Number No number at present

**Owner Information**

2. Name Sherman Industries LLC  
 Mailing Address 400 Riverhills Business Park, Suite 405  
 City Birmingham State Alabama Zip 35242  
 Telephone Number \_\_\_\_\_  
 Email Address Jeff.Logan (Operations Manager) - Jeff.Logan@lehighhanson.com

**Responsible Official Information**

3. Name Kurt L. Milliman Title Vice President & General Manager  
 Mailing Address Sherman Industries LLC; 400 Riverhills Business Park, Suite 405  
 City Birmingham State Alabama Zip 35242  
 Telephone Number 205 314 5100  
 Email Address \_\_\_\_\_

**Plant Contact Information**

4. Name Jeff Logan Title Operations Manager  
 Telephone Number 205 314 5100  
 Email Address Jeff.Logan@lehighhanson.com

**Billing Address**

5. Attention to Sherman Industries LLC, Birmingham RMC Plant  
 Mailing Address 400 Riverhills Business Park, Suite 405  
 City Birmingham State Alabama Zip 35242

6. Please check the type of permit application being submitted. Check all that apply.

Existing Source - Current Permit Number (if applicable): \_\_\_\_\_

Initial Application

Major Source                       Minor Source

Synthetic Minor Source               Partial Application

Permit Renewal

Modification

Major Modification                       Minor Modification

New Source (To Be Constructed)

Change of:

Facility Name

Ownership

Location

Early reductions demonstrations under Section 112(i)(5) of the Act

Other (specify) \_\_\_\_\_ None \_\_\_\_\_

If application is being made to construct or modify, please provide the name, address, and telephone number of the installer or contractor.

Re-assembly of previously used plant - Sherman Industries LLC; Birmingham RMC Plant;  
400 Riverhills Business Park, Suite 405; Birmingham, Alabama 35242

Date Construction/Modification to Begin March 1, 2019 To Be Completed June 30, 2019

7. Indicate the number of each form contained in your facility's application package. If a form does not apply to your operation indicate "N/A" in the space provided.

- N/A JCDH-APCP-104 – Indirect Heating or Fuel Burning Unit
- N/A JCDH-APCP-105 – Manufacturing or Processing Operation
- N/A JCDH-APCP-106 – Waste Disposal
- N/A JCDH-APCP-107 – Stationary Internal Combustion Engines
- N/A JCDH-APCP-108 – Loading, Storage, & Dispensing of Organic Compounds
- N/A JCDH-APCP-109 – Volatile Organic Compound (VOC) Surface Coating Emission Sources
- N/A JCDH-APCP-110 – Air Pollution Control Device
- N/A JCDH-APCP-111 – Coal Preparation Facility
- N/A JCDH-APCP-112 – Solvent Metal Cleaning
- N/A JCDH-APCP-113 – Continuous Emission Monitoring System (CEMS)
- N/A JCDH-APCP-114 – Compliance Schedule

8. Describe the general nature of the business and list the appropriate Standard Industrial Classification (SIC) Codes:

	SIC	DESCRIPTION
PRIMARY	3273	Ready-Mixed Concrete
SECONDARY	3272	Concrete Products, Except Block and Brick
TERTIARY		

9. Please provide the emission rate for each pollutant and identify the emissions sources by Standard Classification Code (SCC) Numbers. In addition, list each pollutant's potential emissions and indicate if the potential to emit is greater than the major source thresholds. For Hazardous Air Pollutants (HAPs), please include each pollutant's Chemical Abstract (CAS) Number.

REGULATED POLLUTANT (CAS # FOR HAPS)	PROCESS & SCC NUMBER	TONS/YEAR (POTENTIAL)	MAJOR SOURCE (YES/NO)
Total PM	Silo Loading - 3-05-011-07 & 3-05-011-17	0.0362	NO
Total PM 10	Silo Loading - 3-05011-07 & 3-05-011-17	0.02173	NO
7440-38-2 Arsenic Compounds	Plant Wide	7.27362E-05	NO
7440-41-7 Beryllium Compounds	Plant Wide	6.58334E-06	NO
7440-34-9 Cadmium Compounds	Plant Wide	1.43415E-08	NO
7440-47-3 Total Chromium	Plant Wide	9.04676E-05	NO
7499-92-1 Lead Compounds	Plant Wide	7.27362E-05	NO
7439-96-5 Manganese Compounds	Plant Wide	2.70171E-05	NO
7440-02-0 Nickel Compounds	Plant Wide	1.68E-04	NO
1314-80-3 Total Phosphorus	Plant Wide	2.5E-04	NO
7782-49-2 Total Selenium	Plant Wide	5.24408E-06	NO

10. Indicate the compliance status for each program below that you are subject to for each emission unit or source at your facility and the method used to determine compliance. Also cite the applicable regulations.

Emission Unit or Source (describe): \_\_\_\_\_

PROGRAM REQUIREMENT	COMPLIANCE STATUS	APPLICABLE REGULATIONS AND METHOD USED TO DETERMINE COMPLIANCE
PSD (TITLE I PART C)	Yes	Comply with approved local regulations.
NON-ATTAINMENT NSR (TITLE I PART D)	N/A, new source is in attainment area.	Mass Balance calculations using AP-42 emission factors.
NSPS (40 CFR 60)	N/A	
NESHAP (40 CFR 61)	Yes	Apply for permit before operations, meet local emission standards.
NESHAP (40 CFR 63)	N/A	
ACCIDENTAL RELEASE (112(f), 40 CFR 68)	N/A	
TITLE I (PART B-OZONE PROTECTION)	N/A	
TITLE IV (ACID RAIN)*	N/A	
ENHANCED MONITORING (40 CFR 51, 52, 60, 61, 63, & 64)	Yes	Included in permit application.
TITLE VI (STRATOSPHERIC OZONE)	N/A	
SIP (JCBH RULES & REGULATIONS)	Yes	Included in permit application.
OTHER (SPECIFY):	None	

\*Sources subject to Title IV must complete and submit Nationally Standardized Application Forms.

11. List all insignificant activities. Please state the basis for listing these activities such as below the insignificant activity thresholds or on the list of insignificant activities. The list of insignificant activities is contained in Attachment 5. Supporting documentation should be included.

*Note: Sources subject to NSPS and/or NESHAP cannot be considered insignificant for permitting purposes even if the source is listed in Attachment 5.*

INSIGNIFICANT ACTIVITY

BASIS

INSIGNIFICANT ACTIVITY	BASIS
Fuel Burning Equipment less than 500,000 BTU/Hr.	Limited use of space heaters periodically.

12. List and discuss any exemption from the applicable requirements your facility is claiming:

- a. None
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_
- g. \_\_\_\_\_
- h. \_\_\_\_\_

13. List the supporting documentation your facility is including as a part of this application. All supporting engineering calculations must be included.

- a. Mass balance calculations using monthly production volume and AP-42 emissions factors. Form attached.
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_
- g. \_\_\_\_\_
- h. \_\_\_\_\_

14. Attach a facility plot plan including building dimensions & fence locations. Stack data, including latitude, longitude, grade elevation (in feet above mean sea level), stack height and orientation, and flow barriers should be provided.

Layout of plant is not finalized. Buildings location and size has not been determined.  
Schematic of plant operations is attached.

*I certify under penalty of law that*, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.

*I also certify* that the source will continue to comply with applicable requirements for which it is in compliance, and that the source will, in a timely manner, meet all applicable requirements that will become effective during the permit term and submit a detailed schedule, if needed, for meeting the requirements.

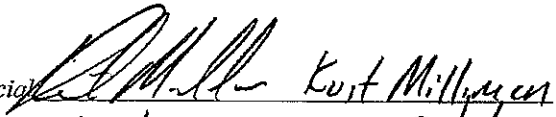
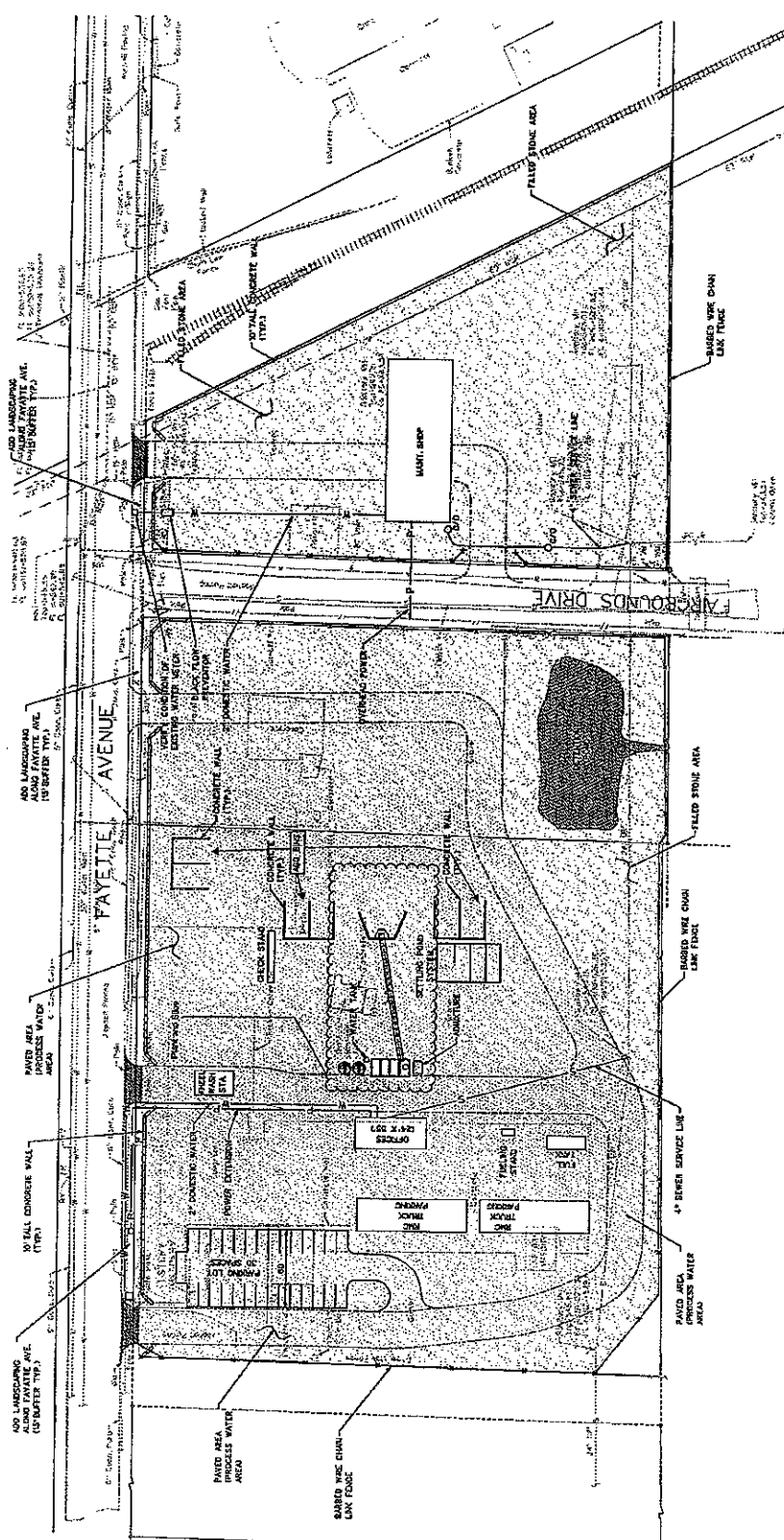
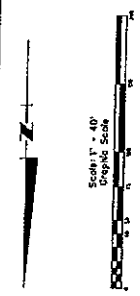
Signature of Responsible Official  Date 3/13/2019  
VP/GM Shuman Industries, LLC

TABLE 1 Emission Calculation Table Sherman Concrete Batch Plant Fayette Avenue, Birmingham, Alabama											
Description of Emission Source	SCC Number	Emission	Point/Fugitive	HAP?	CAS #	Yearly Production (T)	Emission Factor (#/T)	Lb. per year	Tons per Year	Major Source?	Lb./Year
Delivery to ground storage, aggregate	3-05-011-21	Total PM	F	No	N/A	144,864	0.0064	927	0.4635648	No	
Delivery to ground storage, aggregate	3-05-011-21	Total PM 10	F	No	N/A	144,864	0.0031	449	0.2245392	No	
Delivery to ground storage, sand	3-05-011-22	Total PM	F	No	N/A	144,864	0.0035	217	0.1085648	No	
Delivery to ground storage, sand	3-05-011-22	Total PM 10	F	No	N/A	144,864	0.0007	101	0.0307024	No	
Transfer to Conveyor, aggregate	3-05-011-23	Total PM	F	No	N/A	144,864	0.0064	927	0.4635648	No	
Transfer to Conveyor, aggregate	3-05-011-23	Total PM 10	F	No	N/A	144,864	0.0031	449	0.2245392	No	
Transfer to Conveyor, sand	3-05-011-24	Total PM	F	No	N/A	144,864	0.0035	217	0.1085648	No	
Transfer to Conveyor, sand	3-05-011-24	Total PM 10	F	No	N/A	144,864	0.0007	101	0.0307024	No	
Transfer to Silo Storage, aggregate	3-05-011-04	Total PM	F	No	N/A	144,864	0.0064	927	0.4635648	No	
Transfer to Silo Storage, aggregate	3-05-011-04	Total PM 10	F	No	N/A	144,864	0.0031	449	0.2245392	No	
Transfer to Silo Storage, sand	3-05-011-05	Total PM	F	No	N/A	144,864	0.0035	217	0.1085648	No	
Transfer to Silo Storage, sand	3-05-011-05	Total PM 10	F	No	N/A	144,864	0.0007	101	0.0307024	No	
Pneumatic unloading to Silo, Cement	3-05-011-07	Total PM	P	No	N/A	144,864	0.0001	29	0.0144864	No	29.9728
Pneumatic unloading to Silo, Cement	3-05-011-07	Total PM 10	P	No	N/A	144,864	0.0001	29	0.0144864	No	14.4864
Pneumatic unloading to Silo, Supplement	3-05-011-17	Total PM	P	No	N/A	144,864	0.0003	43	0.0217296	No	43.4952
Pneumatic unloading to Silo, Supplement	3-05-011-17	Total PM 10	P	No	N/A	144,864	0.0002	29	0.0144864	No	14.4864
Weight Hopper Loading, sand and ag.	3-05-011-08	Total PM	F	No	N/A	144,864	0.0079	1,144	0.5722128	No	28.9728
Weight Hopper Loading, sand and ag.	3-05-011-08	Total PM 10	F	No	N/A	144,864	0.0038	550	0.2752416	No	
Loading Mix Truck	3-05-011-10	Total PM	F	No	N/A	144,864	1.008	146,028	79.011456	No	
AP-42 Listed Sources	All AP-42 listed	Arsenic Compounds	F & P	Yes	7440-38-2	144,864	1.0042E-06	1.45E-01	7.27362E-05	No	
AP-42 Listed Sources	All AP-42 listed	Beryllium Compounds	F & P	Yes	7440-41-7	144,864	9.0890E-08	0.013167	6.58334E-06	No	
AP-42 Listed Sources	All AP-42 listed	Cadmium Compounds	F & P	Yes	7440-43-9	144,864	1.9800E-10	0.000029	1.33415E-08	No	
AP-42 Listed Sources	All AP-42 listed	Total Chromium	F & P	Yes	7440-47-3	144,864	1.2600E-06	0.180935	9.04876E-05	No	
AP-42 Listed Sources	All AP-42 listed	Lead Compounds	F & P	Yes	7439-92-1	144,864	1.0042E-06	0.145472	7.27362E-05	No	
AP-42 Listed Sources	All AP-42 listed	Manganese	F & P	Yes	7439-96-5	144,864	3.7300E-07	0.054094	2.70171E-05	No	
AP-42 Listed Sources	All AP-42 listed	Nickel	F & P	Yes	7440-02-0	144,864	2.3718E-05	0.338345	1.68E-04	No	
AP-42 Listed Sources	All AP-42 listed	Total Phosphorus	F & P	Yes	1314-80-3	144,864	3.4500E-05	0.499781	2.50E-04	No	
AP-42 Listed Sources	All AP-42 listed	Selenium	F & P	Yes	7782-49-2	144,864	7.2400E-08	0.000488	5.24408E-06	No	

Total Controlled Point Source PM & PM 10 115.8912

0.0579456 T/yr



**LEGEND:**  
 [Symbol] PAVED AREA PROCESS WATER AREA  
 [Symbol] FIELD STONE AREA

**NOTES:**  
 1. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL JURISDICTION.  
 2. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL JURISDICTION.  
 3. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE LOCAL JURISDICTION.



Schematic, Plant Flow Diagram  
 Sherman Industrial  
 New Plant  
 Fayette Avenue (Iron City) Plant  
 Birmingham, Jefferson County,  
 Alabama

Figure 2

**SPECTRUM**

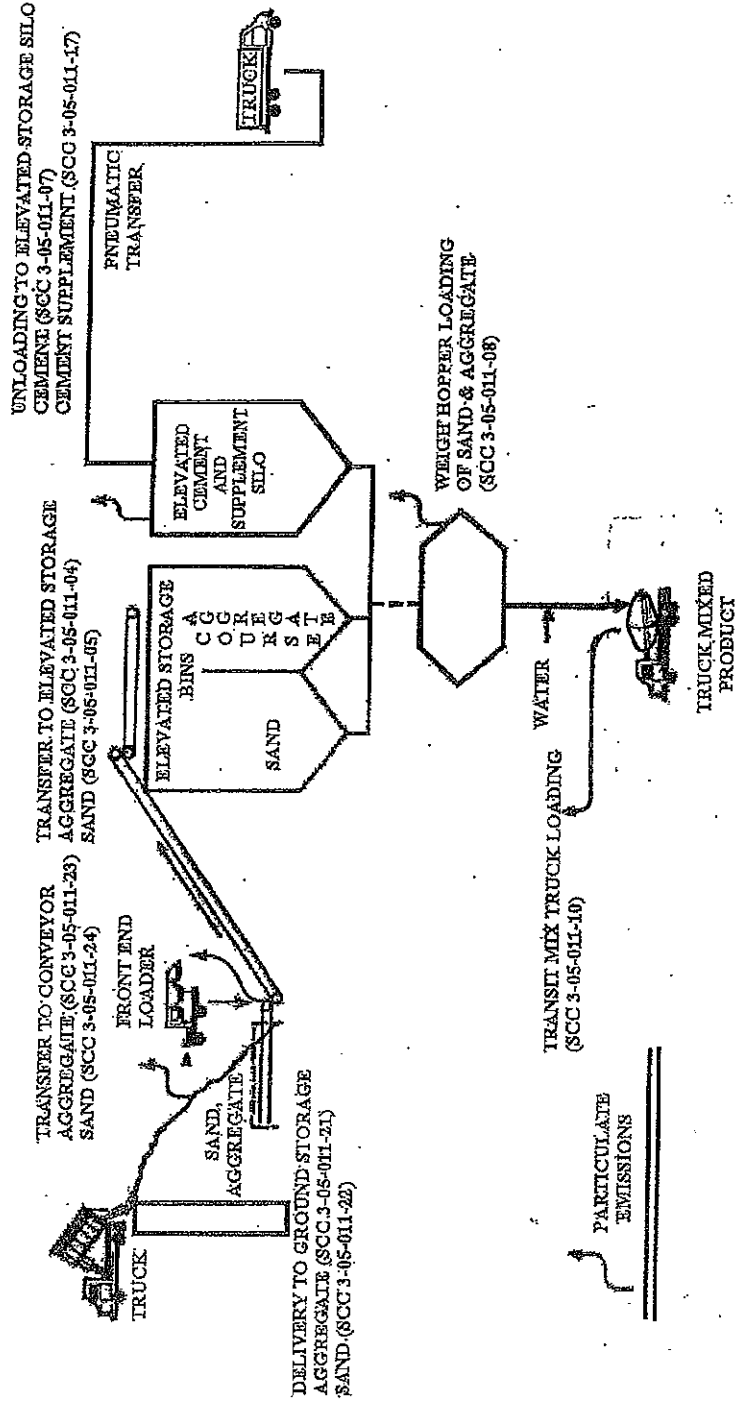


Solutions to Your Environmental Challenges  
 85 Spectrum Cove  
 Auburn, AL 36801  
 205 684-5800  
 F 205 684-2142

Drawn By:	AH	Client #:	3130-004
Checked By:	BW	Date:	3/12/2019
Project Mgr.:	BW	Project #:	004-03

NO.	DATE	REVISION NOTE	BY
File Location			

Source: Image courtesy of ADEM



Source: Image courtesy of ADEM

MAR 27 19 AM 11:04  
REC'D AIR AND RSD PROT

JEFFERSON COUNTY DEPARTMENT OF HEALTH  
BUREAU OF ENVIRONMENTAL HEALTH  
AIR POLLUTION CONTROL PROGRAM

PERMIT APPLICATION FOR  
AIR POLLUTION CONTROL DEVICE

Do not write in this space

1. Name of Facility SHERMAN INDUSTRIES LLC, BIRMINGHAM RMC PLANT

2. Equipment Information. Please complete a separate application for each control device at your facility.

- Settling Chamber
- Afterburner
- Cyclone
- Absorber
- Incinerator
- Stage I Vapor Balance (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_
- ESP
- Baghouse
- Multiclone
- Adsorber
- Wet Scrubber

3. Equipment Information

Name of Manufacturer C+W  
Model Number BP-1300

4. State the emission source or process this equipment controls.

CEMENT AND SUPPLEMENT SILO LOADING

Existing JCBH Air Permit No. \_\_\_\_\_

5. Equipment, Pollutant, and Emissions Data

Pollutants Removed or Destroyed. Please include the Chemical Abstract System (CAS) number for Hazardous Air Pollutants in the following spaces: PM

Mass Emission Rate (Lb/hr)

Applicable Regulation(s) NEESHAP

Design Specification. \_\_\_\_\_

Manufacturer's Guarantee 99.9% EFFICIENT

Allowed by Regulation \_\_\_\_\_

Uncontrolled (lb/hr) \_\_\_\_\_

Exit Concentration (Grains/SCF)

Design Specification \_\_\_\_\_  
Manufacture's Guarantee \_\_\_\_\_

Removal Efficiency (%)

Design Specification 99.9 \_\_\_\_\_  
Manufacturer's Guarantee \_\_\_\_\_

6. Gas Conditions

	INLET	INTERMEDIATE LOCATIONS	OUTLET
Volume SCFM @ 68°F, 29.92" HG	_____	_____	_____
ACFM	_____	_____	_____
Temperature (°F)	_____	_____	_____
Velocity (Ft/sec)	_____	_____	_____
Percent Moisture	_____	_____	_____
Pressure Drop (Inches Water)	_____	_____	_____

7. Stack Dimensions

Height Above Grade (feet) 25'

Diameter or equivalent diameter at Exit (feet) 1.91

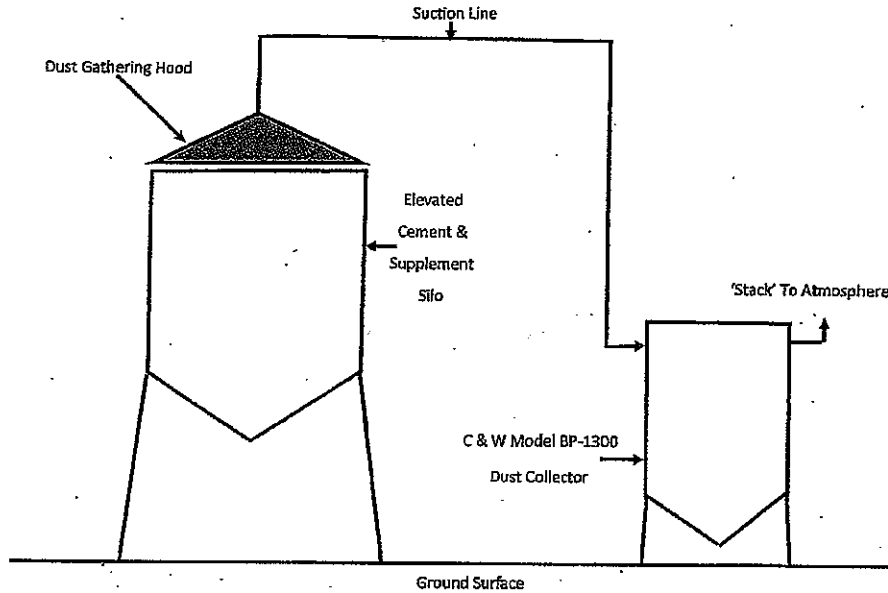
UTM Coordinates North 3706518.46 East 512299.35

8. Draw a flow diagram which includes gas exit from process, each control device, location of by-pass, fan or blower, each emission point, exits for collected pollutants, and location of sampling ports.

9. Enclosed are:

- Blueprints
- Particle Size Distribution Report
- Manufacturer's Literature
- Size-Efficiency Curves
- Emissions Test Of Existing Installation
- Fan Curves
- Other PLANT FLOW SCHEMATIC, DUST COLLECTOR BROCHURE

10. Please provide a sketch of the device and how it is connected to the emission source.



Schematic, Not to Scale

11. List below the important operating parameters for the device. (for example: air/cloth ratio and fabric type, weight, and weave for baghouse; throat velocity and water use rate for a Venturi Scrubber; etc.)

1256 SQ/FT FILTRATION AREA, 80 BAGS

---

AIR TO CLOTH RATIO 6.37 (ACFM / FT<sup>2</sup>)

---

BLOWER CFM - 8,000

---

MIN. DESIGN EFFICIENCY - 99.9%

---

12. By-Pass (If Any) Is To Be Used When: \_\_\_\_\_

---



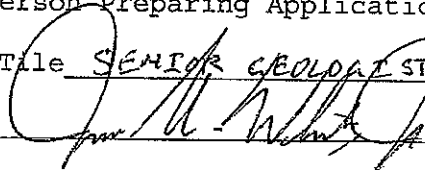
---

13. Disposal Of Collected Air Pollutants:

	Solid Waste	Liquid Waste
Volume	5 TPY - ESTIMATED	1
Composition	CEMENT/ADMIX DUST	
Is Waste Hazardous	NO	
Method Of Disposal	RECYCLE / LDF	
Final Destination	11	

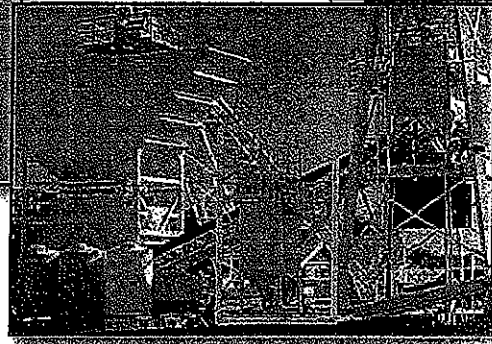
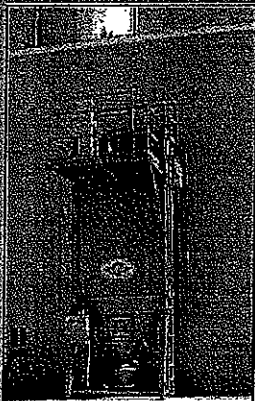
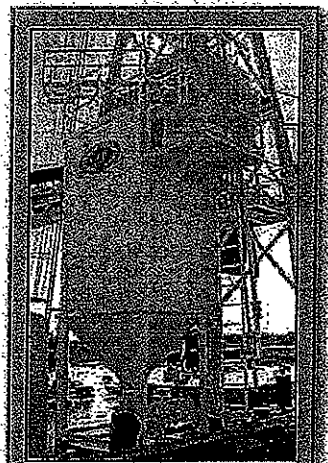
If Collected Air Pollutants Are Recycled, Describe:

14. Supporting documentation should be submitted if any of the following apply to this unit.
- A. Monitoring devices are used to measure this source's operation
  - B. Special operation or physical restrictions are being requested as a part of this application.
  - C. Performance tests or emission monitors are being used to demonstrate compliance. If a CEM is used, form APCP-113 must be completed.
  - D. Recordkeeping or reporting requirements applicable to this emission source.
  - E. Liquid waste from paints and solvents are collected for proper disposal. Include a description of the liquid waste including the density and VOC content. The quantity of liquid waste in gallons per year should be provided.

Name Or Person Preparing Application JAMES R. (BOB) WHITE, JR.  
 Position Title SENIOR GEOLOGIST Company SPECTRUM ENVIRONMENTAL  
 Signature  Date 3-25-2019

# Pulse Jet

Bag Pulse Jet - Series Dust Collectors



**This Unit available  
as a Package!**

Package Includes:  
BP-790 unit  
Stationary Back-in Shroud  
Ducting &  
10 Horse Power Motor

Central  
Collectors

Silo  
Collectors

Silo Saver  
Systems

Transfer  
Packages

Silencing  
Master II



JEC

Jamieson Equipment Company  
[www.jamiesonequipment.com](http://www.jamiesonequipment.com)  
toll free 800.875.0286



# BP-Series Central Dust Collectors

## General Information

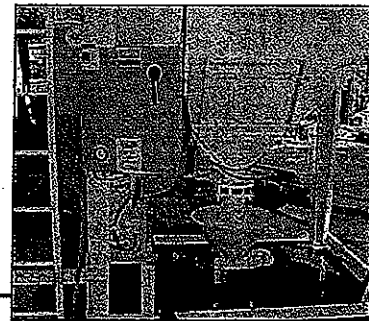
C&W's BP Series offers the ultimate dust control. Advanced Bag Pulse Jet technology combined with our superior filter bags and C&W dependability create a superior dust control system. The BP Series highlights tool-less media exchange, high cleaning capacity, and top loading of filter media. Engineered by dust control specialists, the BP Series provides supreme performance and user-friendliness.

## Options

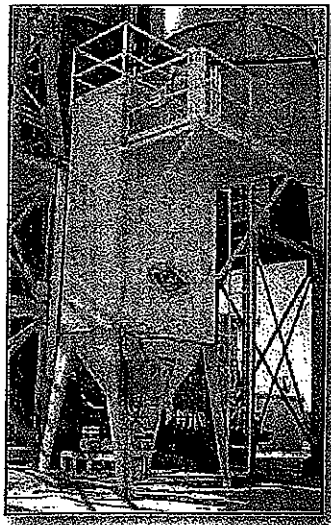
- Manual or Automatic Recycle Systems
  - Custom Shrouds and Snorkels
  - Silo Anti-Overfill System
  - Screw Conveyor with "V" Hopper
  - On Demand Smart Systems
  - Available in Mobile Units
- Additional Services:
  - Turn-Key Installations
  - Customized Layouts
  - Start-up and Maintenance Training
  - Professional Consultation

## Specs

Benefits	Features:
Easy to Maintain	Tool-less Exchange of Filter Media
	Top Entry for Clean Side Filter Exchange
Efficiency	99.9% Filtration Efficiency
	High Level Entry for Contaminated Air
	Snap-in Bags/Cages with Venturi
Performance	Magnehelic Gauge
	Laser Aligned Cleaning System
	Hopper Vibrator
Reliable, Easy to Operate	Electrical Control Panel
	Solid State Adjustable Timers w/LED Display
Long-Lasting, Durable Safety, OSHA-Compliant	10 Gauge, Corrugated Steel Construction
	Ladders, Platforms, and Handrails



Automatic Recycle System



SPECIFICATIONS	BP-790	BP-850	BP-1100	BP-1300	BP-1500	BP-1800	BP-2000	BP-2450
Filtration Area (sq. ft.)	785	860	1099	1256	1507	1809	2072	2450
# of Bags	50	56	70	80	96	96	132	150
Bag Length	120"	120"	120"	120"	120"	144"	120"	144"
Overall Height	23'	23'0"	24' 7"	25'4"	26'2"	28'2"	23'5"	24'
Overall Width	10'5"	10'10"	10'10"	11'3"	11'7"	11'4"	19'5"	22'
Overall Length	8'6"	10'	12'2"	12'2"	14'	15'4"	10'3"	11'
Approx. Weight (lbs.)	5,000	5,800	6,500	7,500	8,000	8,600	9,300	9,800
Blower HP	10	10	15	15	20	20	25	30
Air to Cloth Ratio (ACFM/ft.2)	6.3	5.69	5.91	6.37	6.3	6.06	6.03	6.12
Blower CFM	5000	5000	6500	6000	9000	11000	12500	15000
# of Compartments	1	1	1	1	1	1	1	1
Cleaning Mechanism	Pulse Jet w/ Timer	Pulse Jet w/ Timer	Pulse Jet w/ Timer	Pulse Jet w/ Timer	Pulse Jet w/ Timer	Pulse Jet w/ Timer	Pulse Jet w/ Timer	Pulse Jet w/ Timer
Min. Design Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

\*At Standard Test Conditions



Jamieson Equipment Company  
www.jamiesonequipment.com  
toll free 800.875.0280