

**CONCRETE BATCHING PLANTS
AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET**

Facility Identification Number - If known (seven digit number)

_____ **1050348-005**

Registration Type

Check one:

INITIAL REGISTRATION - Notification of intent to:

- Construct and operate a proposed new facility.
- Operate an existing permitted facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit). If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. (See "Surrender of Existing Air Operation Permit(s)" below.)
- Operates an existing facility not currently permitted or using an air general permit.

RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:

- Continue operating the facility after expiration of the current term of air general permit use.
- Continue operating the facility after a change of ownership.
- Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C.
- Any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only, if Applicable

All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s):

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)

A-1 Block Corporation

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a complete registration must be submitted for each.)

Bower Enterprises, Inc.

Facility Location (Physical location of the facility, not necessarily the mailing address.)

Street Address: **111 Appaloosa Hill Road**

City: **Polk City**

County: **Polk**

Zip Code: **33868**

Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility.)

N/A

RECEIVED

OCT 23 2012

**DIVISION OF AIR
RESOURCE MANAGEMENT**

Facility Contact

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: Adam Freeman, Owner

Facility Contact Telephone Numbers

Telephone: 407-422-3768

Fax: 407-423-8133

Cell phone: _____

E-mail: adam@a1block.com

Facility Contact Mailing Address

Organization/Firm: A-1 Block Corporation

Mailing Address: 1617 South Division Street

City: Orlando

County: Orange

Zip Code: 32805

Other Contact/Representative (to serve as additional Department contact)

Name and Position Title

Print Name and Title: same as above

Other Contact/Representative Telephone Numbers

Telephone: _____

Fax: _____

Cell phone: _____

E-mail: _____

Other Contact/Representative Mailing Address

Organization/Firm: _____

Mailing Address: _____

City: _____

County: _____

Zip Code: _____

Government Facility Code (check only one)

- Facility not owned or operated by a federal, state, or local government.
- Facility owned or operated by the federal government.
- Facility owned or operated by the state.
- Facility owned or operated by the county.
- Facility owned or operated by the municipality.
- Facility owned or operated by a water management district.

Type of Facility

Check one:

Stationary Facility **Relocatable Facility**

Type(s) of Reasonable Precautions Used to Prevent Unconfined Emissions

Check all precautions to be used for the management of roads, parking areas, stock piles and yards:

Pave Roads **Pave Parking Areas** **Pave Yards**
 Maintain Roads/Parking/Yards **Use Water Application** **Use Dust Suppressant**
 Remove Particulate Matter **Reduce Stock Pile Height** **Install Wind Breaks**

Check all precautions to be used for the management of drop points to trucks:

Spray Bar **Chute** **Enclosure**
 Partial enclosure

Equipment Details Provide information for each silo, weigh hopper (batcher), and other enclosed storage and conveying equipment that are limited to a visible emissions of 5 percent opacity pursuant to Rule 62-296.414(1), F.A.C.

PROCESS EQUIPMENT TYPE (silo, weigh hopper, batcher, etc.)	PROCESS EQUIPMENT IDENTIFICATION*	CONTROL DEVICE (baghouse, vent filter, etc.)	CONTROL DEVICE MANUFACTURER	CONTROL DEVICE MODEL NUMBER
Fly Ash Silo**	001	Dust House	Belgrade	Belle 225
Cement Silo**	002	Dust House	Belgrade	Belle 150

**One spilt silo with two separate dust collectors
 * If there are multiple pieces of the same types of process equipment (more than one silo, etc), provide an identifier (location, numeric designation, capacity or product) specific to each piece of equipment.

Description of Facility

Below, or as an attachment to this form, provide a description of the concrete batching plant operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe type of concrete product(s) manufactured, all air pollutant-emitting processes, and identify any air pollution control measures used. Mobile source equipment information is not needed (eg.: trucks, bulldozers, front-end loaders, etc.)

A-1 Block Corporation has purchased the Bower Enterprises, Inc. plant in Polk City. There is one existing 700 barrel silo currently onsite. The existing silo is a spilt silo that contains cement in one compartment and fly ash in the other. Each compartment is controlled by a separate Belle style dust house to control emissions from silo loading. The serial numbers are unknown. The larger compartment which contains fly ash is equipped with a Belle 225 Dust House and the smaller compartment which contains cement is equipped with a Belle 150 Dust House. A copy of the manufacturers specifications for the dust houses and a drawing of the silo is included with this application.

Helpful Definitions.

"Emissions Unit" - Any part or activity of a facility that emits or has the potential to emit any air pollutant.

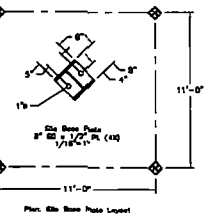
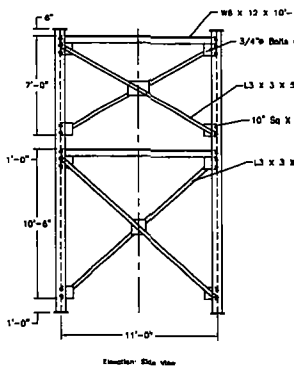
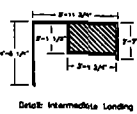
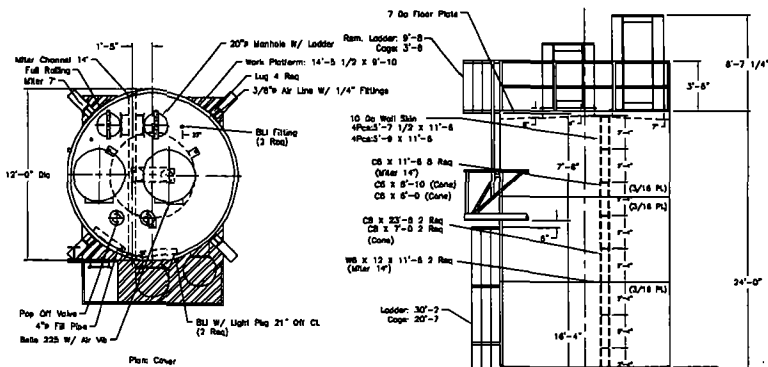
"Facility" - All of the emissions units which are located on one or more contiguous or adjacent properties, and which are under the control of the same person (or persons under common control).

"Owner" or "Operator" - Any person or entity who or which owns, leases, operates, controls or supervises an emissions unit or facility.

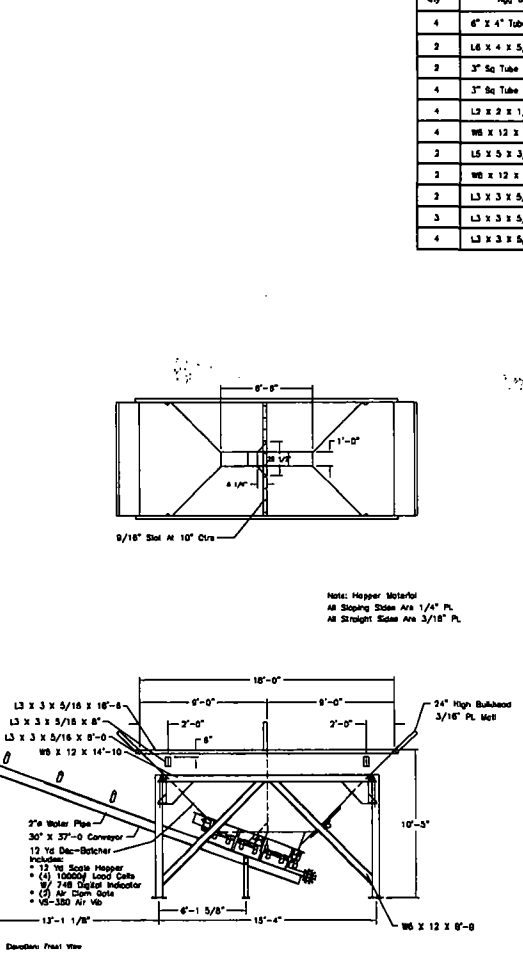
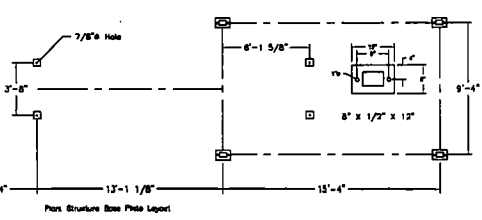
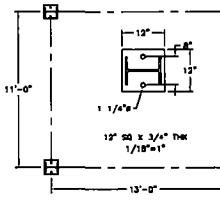
"Relocatable Facility" - A facility such as, but not limited to, an asphalt plant, portable power generator, or concrete batch plant, which is designed to be physically moved to, and operated on, different sites by being wholly or partially dismantled and re-erected in essentially the same configuration. It shall not be operable while in transit.

"Unconfined Emissions" - Emissions which escape and become airborne from unenclosed operations or which are emitted into the atmosphere without being conducted through a stack.

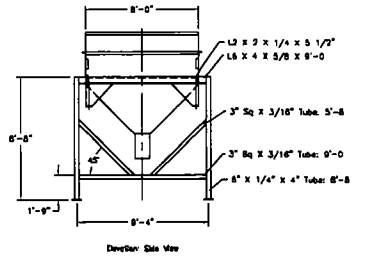
Silo Drawing



Note: Split Wall is Retained For Clarity. See Plan View For Proper Orientation.



Note: Hopper Material All Sloping Sides Are 1/4" PL All Straight Sides Are 3/16" PL.



Qty	Agg Batcher Material List	Qty	700 Split Material List
4	6" X 4" Tube X 1/4" X 8'-8	4	WB X 31 X 11'-6 MOE 7
2	L6 X 4 X 5/8 X 9'-0	4	WB X 31 X 5'-6 MOE 7
2	3" Sq Tube X 3/16" X 9'-0	8	L3 X 3 X 5/16 X 13'-4
4	3" Sq Tube X 3/16" X 5'-6 ME 45'	4	CS X 10'-8
4	L3 X 3 X 1/4 X 5 1/2"	4	W10 X 38 X 20'-0 MOE 2.87
4	WB X 12 X 8'-8 ME 45'	2	WB X 12 X 10'-3 MOE 2.87
2	L5 X 5 X 3/8 X 8'-0	2	WB X 12 X 10'-11 MOE 2.87
2	WB X 12 X 14'-10	4	WB X 12 X 10'-10 3/8
2	L3 X 3 X 5/16 X 18'-6	4	L4 X 4 X 3/8 X 11'-9
3	L3 X 3 X 5/16 X 8'-0	4	L3 X 3 X 5/16 X 14'-4
4	L3 X 3 X 5/16 X 8" (Lugs)	4	L3 X 3 X 5/16 X 12'-4
		2	64" Fib Pipe W/ Alum Adaptor: 23'-0
		2	64" Extension Pipe: 24'-8
		32	10" X 5/16" X 10" Lag Plates
		8	16" X 5/16" X 10" Lag Plates
		6	12" X 1/4" X 12" Brace Plates
		2	12" X 1/4" X 16" Brace Plates
			Split Wall Materials
		2	CS X 23'-6
		2	CS X 7'-0
		2	WB X 12 X 11'- MOE 14"
		8	CS X 11'-6 MOE 14"
		1	CS X 8'-10
		1	CS X 6'-0

- GENERAL NOTES:
- 1) Paint Bureau Tan
 - 2) Include (1) 2" Redger Water Meter
 - 3) Include (1) 3" Stack Huc Valve
 - 4) Include (1) Belgrade Push Button Control Panel

Customer Approval Drawing Please Sign and Return One Copy Signed:

BELGRADE STEEL TANK

THIS DRAWING IS THE PROPERTY OF BELGRADE STEEL TANK, INC. IT SHALL NOT BE USED OR REPRODUCED EITHER WHOLLY OR IN PART EXCEPT WITH WRITTEN AUTHORIZATION. ALL RIGHTS RESERVED.

TITLE: 12 Yd Decumulative Batcher W/ Conveyor & 700 Bbl Split W/ Stand
 DRAWING NUMBER: C-102501
 SCALE: 1/4"=1'-0"
 SHEET: 1 OF 1
 DATE ISSUED: _____
 DATE CHECKED: _____

DATE: 10/25/01
 DRAWN BY: LPR
 REVISION: _____
 APPROVED BY: _____

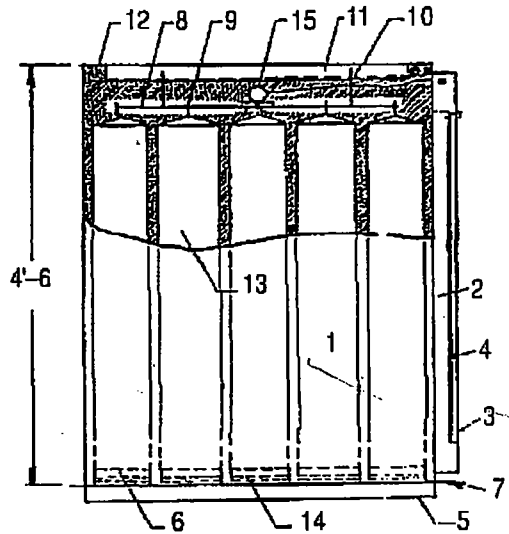
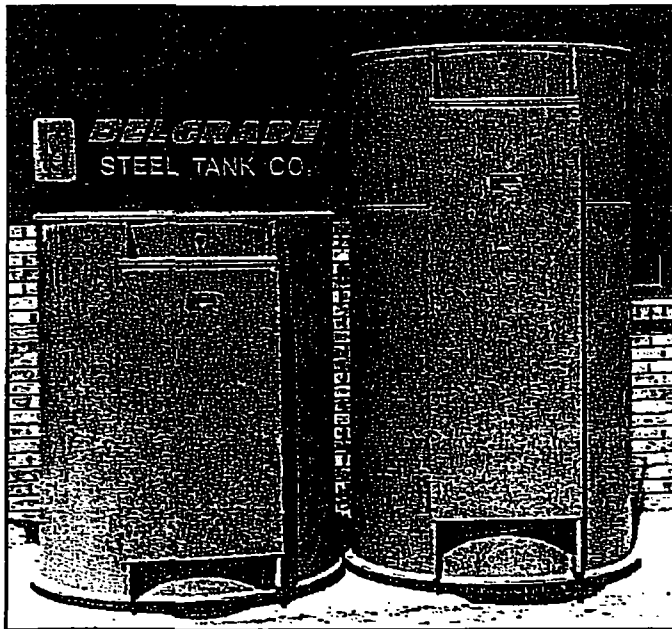
FOR: Brown Equipment Company
 JOB: Bower Vault & Precast

Dust Collector Specifications



405 Lowery Ave. • Box 220
 Belgrade, Minnesota 56312
 Phone: (320) 254-8246 • FAX: (320) 254-3458

"Belle" Style Dust House



SQUARE FT.
BAG AREA

CAP. CEMENT

150
225

375 C.F.M.
675 C.F.M.

Parts List

	150 Sq. Ft.	225 Sq. Ft.
1. Housing	4'6" x 10' x 14 Ga.	6'6" x 10' x 14 Ga.
2. Door Frame	4'4" x 4 1/2" x 12 Ga.	6'4" x 4 1/2" x 12 Ga.
3. Door Frame Screw (2)	21" x 4 3/4" x 12 Ga.	same
4. Door	42" x 24" x 14 Ga.	60" x 24" x 14 Ga.
5. Mating Flange	2" x 2" x 3/16 Angle 44" Diameter	same
6. Sock Holders	8" Diameter - 18 Pcs.	same
7. Base	48" Dia. x 10 Ga.	same
8. Shaker Plate	36" Dia. x 12 Ga.	same
9. Open Eye Bolt	1/4" x 3" - 18 Pcs.	same
10. Suspension Bolts (4)	3/8" x 5" Hex	same
11. Suspension Bar Ass'm	Angle Iron Support	same
12. Cover	47" Dia. x 14 Ga.	same
13. Polyester Socks	(18) 4' x 8" Dia.	(18) 6' x 8" Dia.
14. Band Clamps	18 Required	same
15. Vibrator	VS 190	same

Opt: Single Phase Electric Vibrator

"Belle" Filter Stock Specifications

Style	PE 37
Fiber	100% Polyester
Weight	9 oz./Sq. Yd.
Construction	Spun/Spun
Count	100W x 60F
Air Permeability	20-30 C.F.M.
Mullen Burst	500 PSI
Tensile Strength	Warp Direction 300# Fil Direction 275#
Thermal Stability	2% Max. 300 Degrees F
Max Operating Temp	275 Degrees F
Efficiency	99.99%

Arr Consumption - 8 CFM @ 80 psi

The dust house is equipped with either an air powered or electric powered vibrator used for the cleaning of the bags. If air powered, connect air supply line to the port located on center above the door, and supply the vibrator with 80 psi oiled or non-oiled air. If electric powered, reconnect power cord which exits the top side of dust house to the control box supplied. Operate vibration for approx. 5-10 minutes after each load of material has been blown in.

FABRIC FILTERS

Point Number (from flow diagram)		Manufacturer & Model No. (if available) Belgrade Steel Tank Co. - Belle 150		
Name of Abatement Device Belle 150 Dust House		Type of Particulate Controlled Cement Dust		
GAS STREAM CHARACTERISTICS				
Flow Rate (acfm)		Gas Stream Temperature (°F)		Particulate Grain Loading (grain/scf)
Design Maximum 375	Average Expected 375	Ambient		Inlet N/A
				Outlet 0.01
Pressure Drop (in H ₂ O) 5"		Water Vapor Content of Effluent Stream (lb water/lb dry air) Ambient		Fan Requirements (hp) (cubic ft/min) N/A N/A
PARTICULATE DISTRIBUTION (by weight)				
Micron Range		Inlet		Outlet
0.0 - 0.5		0%		99.98%
0.5 - 1.0		3%		0.02%
1.0 - 5.0		17%		0.00%
5.0 - 10.0		18%		0.00%
10.0 - 20.0		21%		0.00%
over 20.0		41%		0.00%
FILTER CHARACTERISTICS				
Filtering Velocity (acfm/sq ft of cloth) 2.5	Bag Diameter (inches) 8"	Bag Length (inches) 48"	Number of Bags 18	Number of Compartments in Baghouse 1
Bag rows will be: Staggered			Walkways will be provided between banks of bags: No	
Filtering Material: PE 37 100% Polyester 9oz.				
Describe Bag Cleaning Method and Cycle:			Air Vibrator Shaker	
Capital Installed Cost:		\$1,900	Annual Operating Cost: \$50	

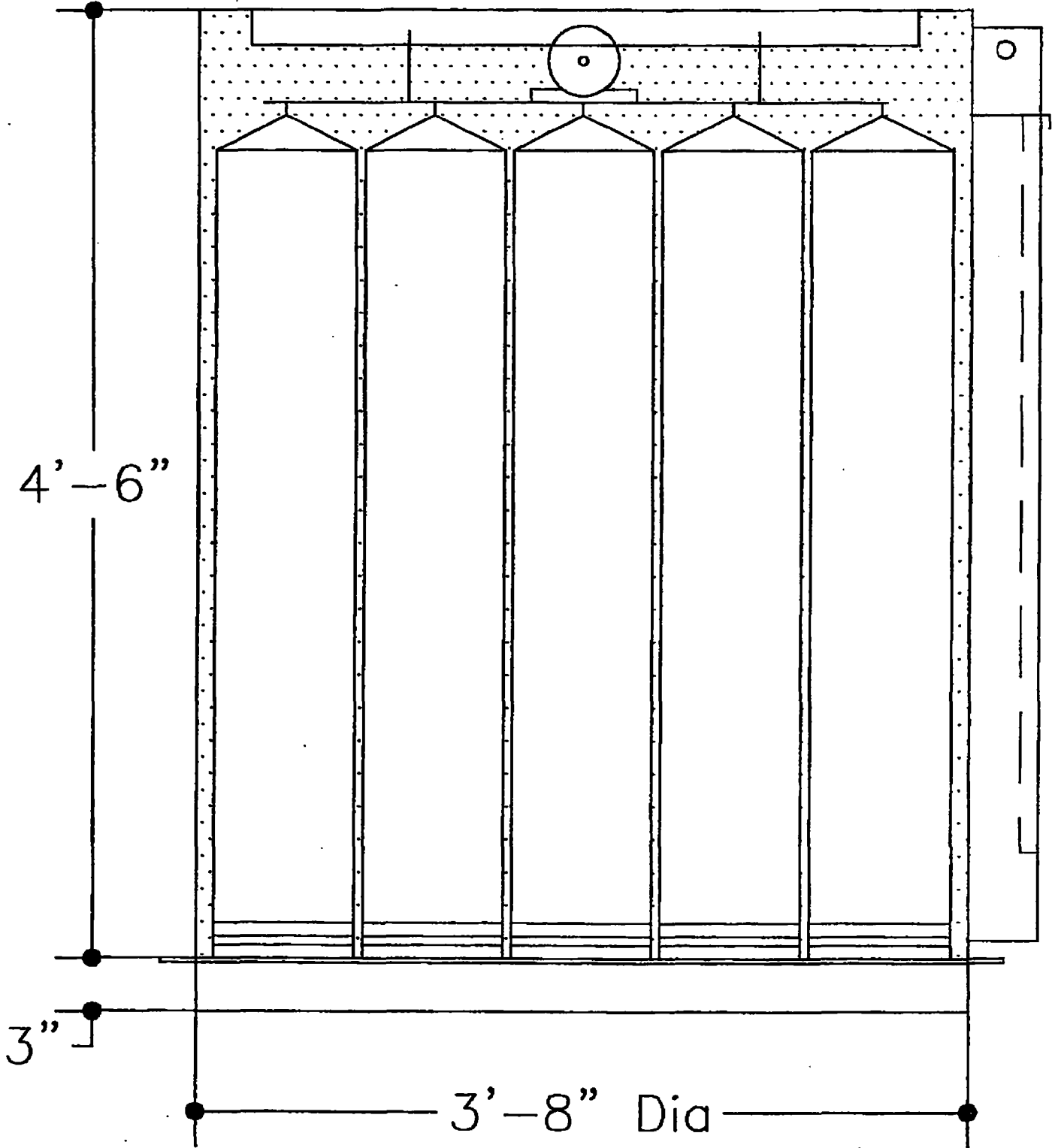
FABRIC FILTERS

Point Number (from flow diagram)		Manufacturer & Model No. (if available) Belgrade Steel Tank Co. - Belle 225		
Name of Abatement Device Belle 225 Dust House		Type of Particulate Controlled Cement Dust		
GAS STREAM CHARACTERISTICS				
Flow Rate (acfm)		Gas Stream Temperature (°F)	Particulate Grain Loading (grain/scf)	
Design Maximum 675	Average Expected 675	Ambient	Inlet N/A	Outlet 0.01
Pressure Drop (in H ₂ O) 5"		Water Vapor Content of Effluent Stream (lb water/lb dry air) Ambient	Fan Requirements (hp) N/A	(cubic ft/min) N/A
PARTICULATE DISTRIBUTION (by weight)				
Micron Range		Inlet	Outlet	
0.0 - 0.5		0%	99.98%	
0.5 - 1.0		3%	0.02%	
1.0 - 5.0		17%	0.00%	
5.0 - 10.0		18%	0.00%	
10.0 - 20.0		21%	0.00%	
over 20.0		41%	0.00%	
FILTER CHARACTERISTICS				
Filtering Velocity (acfm/sq ft of cloth) 3	Bag Diameter (inches) 8"	Bag Length (inches) 72"	Number of Bags 18	Number of Compartments in Baghouse 1
Bag rows will be: Staggered			Walkways will be provided between banks of bags: No	
Filtering Material: PE 37 100% Polyester 9oz.				
Describe Bag Cleaning Method and Cycle:			Air Vibrator Shaker	
Capital Installed Cost:		\$2,200	Annual Operating Cost: \$50	

Belgrade Steel Tank

Standard 150 SQ FT
Dust House uses 48" bags

225 SQ FT = 6'-6" OAH
uses 72" long bags





October 17, 2012

FDEP
Receipts
Post Office Box 3070
Tallahassee, Florida 32315-3070

**RE: A-1 Block Corporation
Polk City Plant - Bower Enterprises, Inc.
Air General Permit Registration - Change in Ownership**

Dear FDEP:

Enclosed is one (1) copy of the above referenced application along with a check in the amount of \$100.00 for the application fee.

If you have any questions, please call me at (407) 298-2282 or e-mail me at sara@grovescientific.com.

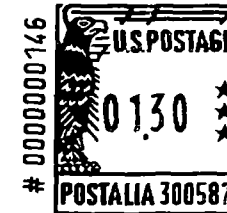
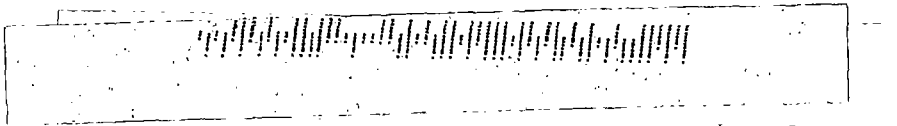
Respectfully,
GROVE SCIENTIFIC & ENGINEERING COMPANY

A handwritten signature in black ink that reads "Sara Greivell".

Sara Greivell
Project Manager

Cc: Adam Freeman - A-1 Block Corporation

A-1 Block Polk City general permit notification Sub Letter to FDEP 12 / 300504 / 101712



GROVE

SCIENTIFIC & ENGINEERING

6140 EDGEWATER DRIVE ■ SUITE F ■ ORLANDO, FLORIDA 32810-4810

FDEP
Receipts
PO Box 3070
Tallahassee, FL 32315