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CONCRETE BATCHING PLANTS
AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET

JUL 12 2013

DIVISION OF AIR
RESOURCE MANAGEMENT

Facility Identification Number - If known (seven digit number)

1030554-001-AG

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.)
City of Safety Harbor

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.)
Public Works Concrete Plant

Facility Location (Physical location of the facility, not necessarily the mailing address.)
Street Address: 1200 Railroad Avenue
City: Safety Harbor County: Pinellas Zip Code: 34695

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

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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: Robert Farris, Street/Stormwater Supervisor

Facility Contact Telephone Numbers

Telephone: 727-724-1550 Fax: 727-724-1510
Cell phone: 727-423-8798
E-mail: bfarris@cityofsafetyharbor.com

Facility Contact Mailing Address

Organization/Firm: City of Safety Harbor Public Works Department
Mailing Address: 1200 Railroad Avenue
City: Safety Harbor County: Pinellas Zip Code: 34695

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

Name and Position Title
Print Name and Title: Andrew Crews, Public Works Supervisor

Correspondence Contact/Representative Telephone Numbers

Telephone: 727-724-1550 Fax: 727-724-1510
Cell phone: 727-423-9107
E-mail: acrews@cityofsafetyharbor.com

Correspondence Contact/Representative Mailing Address

Organization/Firm: City of Safety Harbor Public Works Department
Mailing Address: 1200 Railroad Avenue
City: Safety Harbor County: Pinellas Zip Code: 34695

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.

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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

* 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.)

Attached is information on the silo bag house and O&M for the batch plant. The plant is used for sidewalk repair in the City of Safety Harbor. We receive approximately 4 loads of Type I & II Portland Cement per year (100 tons). We will be hiring Pinellas County Air Quality Division to inspect the facility annually to determine compliance with the permit conditions.

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cecon tech

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And Continuous Mixing Systems
1100 North 14th Street • Indianola, Iowa 50125
Phone: 800/247-2464 or 515/961-7407 • FAX 515/961-7409

OPERATING DATA

DATE: 1-02 02-02 start up.

DISPENSER S/N: 4.5 SCD151204EH

MODEL #: SCD4.5-50

CAPACITY: 4.5 YARDS

PRODUCTION RATE AT 5 BAG MIX: 5 MINUTES

ENGINE OPERATING RPM: 1750

METER COUNTS PER MINUTE: 150

CONVEYOR DRIVE SHAFT RPM: 25

MINIMUM MIXER ANGLE: 15 DEGRESS

TRANSMISSION GEAR: NA

OPDATA.694

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SILO SERVICE REQUIREMENTS

MODEL #

S-250

SERIAL #

30367 IHC

MOTOR ~~POWER~~

Hydraulic Pump Unit

POWER GAS / DIESEL / ELECTRIC / HYDRAULIC / GRAVITY DISPLACED

MAIN ELECTRICAL DISCONNECT
PROVIDED

YES /

NO

ELECTRICAL MOTOR STARTERS
PROVIDED

YES /

NO

VOLTAGE

AMPERAGE

AIR

FLOW

1 to 2 CFMS

PRESSURE

80 - 100

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TABLE 11
FABRIC FILTERS

Point Number(from Flow Diagram)		Manufacturer & Model No. (if available) Cemen Tech Model #BH-120		
Name of Abatement Device CTI Baghouse		Type of Particulate Controlled Cement		
GAS STREAM CHARACTERISTICS				
Flow Rate (acfm)		Gas Stream Temperature (°F)	Particulate Grain Loading (grain/scf)	
Design Maximum	Average Expected		Inlet	Outlet
see page #4 attached				
Pressure Drop (in. H ₂ O)		Water Vapor Content of Effluent Stream (lb water/lb dry air)	Fan Requirements (hp) (ft ³ /min)	
see page #4				
PARTICULATE DISTRIBUTION (By Weight)				
Micron Range		Inlet	Outlet	
0.0-0.5		%	%	
0.5-1.0		%	%	
1.0-5.0		see page #4 attached	% attached	
5-10		%	%	
10-20		%	%	
over 20		%	%	
FILTER CHARACTERISTICS				
Filtering Velocity (acfm/ft ² of Cloth)	Bag Diameter (in.)	Bag Length (ft)	Number of Bags	Number of Compartments in Baghouse
	10	44&3/4"	12	see page #2
Bag rows will be: Staggered see page #2		Walkways will be provided between banks of bags: XXX No		
Filtering Material: Polyester 5.4 oz siliconized-all filament-275 degree F. maximum				
Describe Bag Cleaning Method and Cycle: <u>shaking by air cylinder in baghouse</u>				
Capital Installed Cost \$ _____		Annual Operating Cost \$ _____		
ADDITIONAL INFORMATION				

On separate sheets attach the following:

- A. Details regarding principle of operation
- B. An assembly drawing (Front and Top View) of the abatement device dimensioned and to scale clearly showing the design, size and shape.

If the device has bypasses, safety valves, etc., include in drawing and specify when such bypasses are to be used and under what conditions.

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BAGHOUSE INFORMATION

STANDARD FILTER SOCK WITH MECHANICAL SHAKER

MODEL BH-120

1. NORMAL APPLICATION.....ALL TYPES PORTLAND CEMENTS.
2. FILTER AREA.....120 SQ. FT.
3. NUMBER OF BAGS.....12- 10" BY 4'.
4. FILTER MEDIA.....POLYESTER.
5. CONSTRUCTION.....3 X 1 TWILL.
WARP- 250 DENIER HIGH TWIST.
FILL- 250 DENIER HIGH TWIST.
FINISH- SCOUR AND HEAT SET.
6. AIR TO CLOTH RATIO.....4.17 (BASED ON STANDARD 500 CFM
BLOWERS USED IN CEMENT TRANSFER).
7. PERMEABILITY.....15-30 CU. FT. AIR PER MIN./SQ.FT.FILTER
8. EFFICIENCY.....99.94
9. MULLEN BURST.....440 PSI
10. CLEANING.....MECHANICAL SHAKER BY MANUALLY
OPERATED AIR CYLINDER.
11. POWER REQUIREMENTS.....1 CFM AT 90 PSI.

CEMEN TECH, INC.

ENGR\BH_120.693



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BAGHOUSE OPERATION

A. UNITS WITH CEMEN TECH BAGHOUSES:

(NOTE: Compressed Air must be connected to Silo Air System!)

1. Driver should activate baghouse shaker valve (min 10 times) before starting filling.
2. Driver should shut down and run shaker (min 10 times) mid-point in unloading of truck.
3. Driver should run shaker after truck is unloaded. (min 10 times)
4. Bags should be changed a minimum of once a year.

B. UNITS WITH "WAM" REVERSE PULSE BAGHOUSE:

(NOTE: Compressed Air & Electricity must be connected to Baghouse!)

1. Driver must turn "On" the baghouse before filling!
2. Air pressure must be on before filling!
3. Maximum air pressure to the baghouse is 75 P.S.I.
4. Driver must turn "Off" the baghouse when finished.

NOTE:

**ONE OF THE MOST FREQUENT CAUSES OF
BAGHOUSE FAILURE IS OVER FILLING
THE SILO! !**

**DO NOT OVERFILL!!
CEMEN TECH RECOMMENDS A HIGH LEVEL
BIN INDICATOR THAT TURNS ON AN AUDIO
ALARM AND A VISUAL ALARM. CONTACT
FACTORY FOR PRICE AND AVAILABILITY.**

By following the above directions; you should stop any release of dust from the pop-off valve. If you have any questions please call Cemen Tech Service Department.



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SCD-50H

“BAGHOUSE INFORMATION”

The Cement Silo included with your Concrete Dispenser is equipped with a baghouse for dust control. It is equipped with an air vibrator to shake the bags between fillings. This is activated by an air switch near the control panel. The vibrator should be activated for 5 to 10 seconds to shake any cement loose from the bags and let it fall back into the silo. It serves no function to activate the vibrator while cement is being pumped in. We recommend that new bags be installed annually or more frequent as required.

Standard baghouses include 12 filter bags giving 100 sq. ft. of filter area. These filter bags are designed for Flyash and Cement with the following specifications.

<u>FIBER</u>	<u>POLYESTER</u>	<u>APPLICABLE TEST METHOD</u>
Construction	3 X 1 Twill	ASTM D276
Yarn Type - Warp	250 Denier High Twist	
Yarn Type - Fill	250 Denier HIGH Twist	
Count	78 X 67 In.	ASTM D1910
Weight	5.35 Oz./Sq.Yd	ASTM D1910
Breaking Strength		
Warp	350 Lb./In.	ASTM D1682
Fill	300 Lb./In.	ASTM D1682
Thickness-Min.	.006 In.	ASTM D461
Mullen Burst-Min.	440 PSI	ASTM D461
Nominal Clean Permeability Range		Ft. ³ /Ft. ² Min.
1/2" W.C.	15-30	ASTM D737
20 MM W.C.	25-50	Calculated
Maximum Continuous		

Operating Temperature 275 Degrees

FINISHING: Scour & heat set for continuous operation at 275 degrees, 2% max. Residual shrink or stretch. 1-1/2% Min. Silicone pickup determined on base weight.

UNIT SERIAL NO. _____ DATE _____ OPERATOR _____

CLEAN UP - At End of Day

Washdown back of Unit _____
 Remove any buildup in Mixing System _____
 Clean Belt Wiper, Front & Back _____

AIR SYSTEM

Vibrator Lubricator filled
 (Use Light Oil) _____
 Water Trap Drained _____

LUBRICATION

Idler Pillow Block Bearings (2),
 (If Equipped) _____
 Mix Auger - Swivel Ring (Oil) _____
 - Bottom Bearing & Seal
 (Flushed) _____
 - Top Bearings
 (If Equipped) _____

CEMENT BIN & FEEDER SYSTEM

Top of Cement Bin - Cleaned _____
 Cement Bin Lid - Clamps Tight _____

TRUCK (IF EQUIPPED)

Engine Oil Level _____
 Fuel Tank Filled _____
 Windshield Clean _____

WATER SYSTEM

In Freezing Weather:
 System Drained: _____
 Lines Blown Out: _____

Mirrors Clean _____
 Tires Checked _____
 Brake System Air Tank (Drained) _____

MAIN SAND & STONE CONVEYOR

Chain Oilers operating properly
 (30 drops/minute) _____
 Oil Reservoir Full _____
 In Freezing Weather:
 Empty Sand Bin _____
 Empty Stone Bin _____

AUXILIARY ENGINE (If Equipped)

Oil Level _____
 Fuel Tank Filled _____

ADMIX SYSTEMS

Check for Leaking _____
 Drain & Flush Tanks _____

ITEMS NEEDING IMMEDIATE ATTENTION: _____

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NOTE: WHEN ON CONTINUOUS OPERATION, ALL CHECKS (DAILY, WEEKLY, MONTHLY) MUST BE MADE MORE FREQUENTLY..

WEEKLY MAINTENANCE CHECK SHEET ALL MODELS

UNIT SERIAL NO. _____ DATE _____ OPERATOR _____

AFTER COMPLETING DAILY CHECK SHEET, CHECK THE FOLLOWING:

LUBRICATION

Main Conveyor Bearing _____
Cement Bin Auger Bearings _____
 (Lightly)
Universal Joints on Main Drive Shaft _____
Cement Bin Clutch: Grease _____
 O.K. _____
Cement Feeder Jack Shaft _____
Universal Joints, PTO _____
Door Hinges, Oil _____
Vibrator Valve Plungers at Cement
Meter - Feeder Jack Shaft _____

HYDRAULIC SYSTEM

Oil Leaks in System _____ None _____
Hyd. Control Valve Leaks _____ None _____
Hydraulic Fluid Level _____
MIX AUGER ASSEMBLY
Swivel Lock Working & Secure _____
Inclinometer _____
Rubber Skirt, O.K. _____
Hydraulic Motor runs true _____
Oil Leaks: ___ Hyd. Motor ___ None _____
 ___ Hyd. Lines ___ None _____

WATER SYSTEM

Water Tank Emptied & Flushed _____
 (as required by water used)
Water Strainer Removed & Cleaned _____
Water Pressure Set, 40 P.S.I. _____

ADMIX SYSTEMS

Flowmeters - Free & Working _____
Strainers (If Equipped) _____

LIGHTS & MISCELLANEOUS
(If Equipped)

Check Operation & Condition of Lenses:

* Clearance Lights _____
* Stop Lights _____
* Turn Signals _____
* Backup Lights _____

CEMENT BIN & FEEDER SYSTEMS

Cement Metering Auger, turned w/hand crank,
one complete turn, free & clear _____

CLEAN-UP:

Check and Remove any buildup:

* At Front Aggregate Bin _____ * At Water Discharge Point _____
* At Rear Sand & Stone Guides _____ * At Rack & Pinion (agg gates) _____
* At Swivel Ring _____ * At Rear Belt Wiper (Adjust and/or
replace Belt Wiper, as necessary) _____
* On Truck Frame & Axles _____

NOTE: WHEN ON CONTINUOUS OPERATION ALL CHECKS (DAILY, WEEKLY, MONTHLY)
MUST BE MADE MORE FREQUENTLY.

UNIT SERIAL NO. _____ DATE _____ OPERATOR _____

AFTER COMPLETING WEEKLY CHECK SHEET, CHECK THE FOLLOWING:

LUBRICATION

~~Oil Level in PTO Gear Box
(Truck Transmission)~~ _____

WATER SYSTEM

Pressure, P.S.I. (40 Lbs.) _____

Adjust Discharge to prevent
Water Spillage _____

Swivel Frame Checked for Leaks _____

Water System Checked for Leaks _____

MAIN SAND & STONE CONVEYOR BELT

Belt Tension Correct _____

Condition of of Belt Lacer _____

All Bolts Tight & In Place _____

~~Condition of Crossbars & Chain~~ _____

Condition of Belt _____

SAND BIN (Must be empty to check)

~~Condition of Front Seal~~ _____

Proper Guide Adjustment
(No Sand Leakage) _____

Condition of Gate & Opening _____

Rear Belt Wiper Adjustment _____

STONE BIN (Must be empty to check)

Condition of Front Seal _____

Proper Guide Adjustment
(No Sand Leakage) _____

Condition of Gate & Opening _____

CEMENT BIN & FEEDER SYSTEMS

Cement Meter Register Drive, free turning _____

Cement Bin Cover Seals, tight on all sides _____

Cement Bin Cover Latches, work properly _____

HYDRAULIC SYSTEM

Correct Oil Level in Supply Tank _____

Hydraulic Pressure, ²⁰⁰⁰ 2200-2250 P.S.I. _____

Condition of Hyd. Hose & Conn. _____

Twists in Hoses on Mix Auger when Trough
in Vertical Position _____ None _____

Hoses clear Frame thru full swing _____

MIX AUGER ASSEMBLY

Mix Auger Covers Fit _____

Condition of Rubber Bottom of D-Trough
(Tears, cuts or worn spots patched) _____

#1, ~~#2 & #3~~ Chutes, fitted and in
good condition _____

Check Mixer Blades & Paddles,
for Wear. _____

~~Winch Cable (If Equipped)~~
_____ Satisfactory Condition _____

AIR SYSTEM

Air Supply, Pressure, 80-100 P.S.I. _____

Sand Bin Vibrators,
Functioning Properly _____

~~Stone Bin Vibrators (If Equipped)~~
_____ Functioning Properly _____

Cement Bin Vibrators,
Functioning Properly _____

Air Hose Connected, No Leaks _____

MONTHLY MAINTENANCE CHECK SHEET CONTINUED

UNIT SERIAL NO. _____ DATE _____ OPERATOR _____

ADMIX SYSTEMS

Drain Cocks Working _____

Drain & Flush Systems _____

MISCELLANEOUS

~~All Reflectors Installed and
In Good Condition~~ _____

Check All Guards,
Condition & Clearance _____

~~TRUCK ITEMS~~

~~Exhaust Brackets Tight _____~~

~~Exhaust Clamps Tight _____~~

~~Throttle, Full Movement _____~~

~~Hold-Down Bolts Tight _____~~

COMMENTS: _____

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