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CONCRETE BATCHING PLANT
AIR GENERAL PERMIT REGISTRATION FORM

Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. *($100 as of the effective date of this form)*

0330280-005

Registration Type

Check one:

INITIAL REGISTRATION - Notification of intent to:

- ☐ Construct and operate a proposed new facility.
- ☐ Operate an existing 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).

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., or 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 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. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.

- ☐ All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s): _____
- ☐ No air operation permits currently exist for this facility.

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.)
AKon Concrete of Florida LLC

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)
2000 Bordr Street

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)
Street Address:
City: Pensacola County: Escambia Zip Code: 32505

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

Owner/Authorized Representative

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.) Print Name and Title: Gary Given, Pres.
Owner/Authorized Representative Mailing Address Organization/Firm: Akon Concrete of Florida Street Address: 18225 Eureka Drive ALABAMA City: Foley County: Baldwin Zip Code: 36535
Owner/Authorized Representative Telephone Numbers Telephone: 251-943-1800 Fax: 251-943-1105 Cell phone (optional):

Facility Contact (If different from Owner/Authorized Representative)

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.) Print Name and Title:
Facility Contact Mailing Address Organization/Firm: Street Address: City: County: Zip Code:
Facility Contact Telephone Numbers Telephone: Fax: Cell phone (optional):

Owner/Authorized Representative Statement

This statement must be signed and dated by the person named above as owner or authorized representative

I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form 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 will promptly notify the Department of any changes to the information contained in this registration form.

Signature Gary Given 5/22/09 Date

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**	

Description of Reasonable Precautions

Below, or as an attachment to this form, provide details of all types of reasonable precautions to be used to prevent unconfined emissions at the facility.

In order to reduce fugitive emissions the following steps will be taken:
Application of water to unpaved areas when necessary to help prevent fugitive emissions

Sand and gravel will be stored in walled storage areas (wall on 3 sides and open on front).

Cement and flyash are handled by fully enclosed screw conveyors and chutes. Batcher is fully enclosed and ventes through a baghouse.

Cement and flyash are delivered into storage silos pneumatically through fully enclosed blow-pipe system.

Cement and flyash silos are vented through baghouses.

Curtailing of operations if winds are entraining unconfined particulate matter.

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 all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

See attached "Introduction"

Facility is eligible to be permitted/operated under Rule 62-210.310(5)(b) because it meets the following requirements:

1. This is a concrete batching plant as specified by Rule 62-296.414
2. It meets general eligibility criteria of paragraph 62-210.310 (2)(a) as follows:
   Facility is eligible for Air General Permit because it meets criteria given in 62-210.310 (4) or (5) and as follows:
Facility will not emit more than 10 TPY of any HAP or 25 TPY of total HAPS or 100 TPY of any regulated air pollutant.

Facility will not contain any emissions units or activities not covered in Air General Permit except:
EUs exempt from permitting by rule 62-210.300(3) or 62-4.040 or EUs authorized by other General Permits

3. Facility will comply with general conditions as given in 62-210.310(3) as follows:
a. Will comply with all applicable conditions of rule 62-296.414
b. Owner/operator of relocatable concrete batching plant will properly notify DEP 5 business days prior to relocation using "Facility Relocation Notification Form", DEP No. 62-210.900(6)
4. Facility does not at this time plan to collocate other emissions units such as crushers at this site.
5. There are no plans at this time to relocate this plant from its current site

A Perfect Mix
Pensacola, FL

Introduction

This facility is permitted to operate under general permit 0330280-003-AG. It consists of one vertical cement storage silo with baghouse (bin vent) located atop of the silo and aggregate storage bins closed in by built- up walls. Cement is delivered by truck tanker and pumped pneumatically into cement storage silo. Baghouse filters displaced air from the silo while cement is loaded from truck tanker to the silo. Aggregate is delivered by trucks. Facility operates on the principle that all components needed to make concrete (including water) are loaded into specially equipped truck which mixes concrete as needed at the site of delivery. This is especially practical for smaller jobs; it does not result in any waste of premixed concrete not needed at the site.

At this time facility wishes to construct "traditional" premixed concrete plant on the same site. Plant would consist of two vertical storage silos, 300 barrel cement silo and 270 barrel flyash silo, each equipped with a baghouse atop the silo, three-compartment elevated aggregate bin, each compartment equipped with weighing scale (batcher), belt conveyor delivering aggregate to truck-mixer loading chute, fully enclosed screw conveyors and chutes delivering cement and flyash to fully enclosed batcher located above truck-mixer loading chute. Emissions created by the cement/flyash batcher will be controlled by a batcher baghouse.

Plant and emissions control devices (baghouses) are manufactured by Con-E-Co Company. Batcher baghouse is model BV-14-23. Baghouse specifications, operation and cleaning method are described in attached sheets. Silo baghouse(s) are model PJC-300S (one on each storage silo). They are equipped with pneumatic pulsing jets that clean bags at predetermined intervals. Baghouse(s) specifications, operation and cleaning method are shown on attached sheets. Each silo baghouse will be equipped with magnehelic gage to help monitor conditions of filtering media.

Cement/flyash will be trucked to facility in tanker trucks and pneumatically transferred into vertical silos. Typical tanker delivering cement/flyash to the

site usually holds between 25-27 tons. During transfer compressed air pressure will be limited to 15 PSIG.

Aggregates will be brought in via trucks and stored in compartmented aggregate storage areas enclosed with built-up walls on three sides. Transfer of aggregate(s) to elevated aggregated bin will be done by front-end loader(s).

Site has a well to provide water to be added to truck-mixer.

Plant capacity is projected at 50,000 CY per 12 month rolling totals.

Normal operating houses are from 7 am to 5 pm Monday through Saturday, but facility wants unlimited operating hours (8,700 hr/yr)

CON-E-CO®
An Oshkosh Corporation Company

SPECIFICATIONS FOR MODEL 14-23 CEMENT BATCHER VENT

MODEL 14-23 SPECIFICATIONS

TOTAL CLOTH AREA	23 SQ. FT.
NUMBER OF BAGS	14
HOUSING HEIGHT	1'-10"
HOUSING WIDTH & LENGTH	0' 10" X 2'-11"
BAG CLEANING METHOD	REVERSE AIR FLOW (From batcher filling and emptying)
MAXIMUM OPERATING TEMPERATURE	170 DEGREES F
CAPACITY	160 CFM MAXIMUM
DISCHARGE SHAPE	(2) 2" X 12" SLOTS
CFM/FT^2 THROUGH BAGS	7.83 MAXIMUM
AIRSPEED OUT OF DEVICE	845 FT / MIN
DIRECTION OF AIR DISCHARGE	DOWN
DISCHARGE AREA	.33 FT ^{2} (48 IN^2)
NORMAL OPERATING TEMP & PRESSURE	AMBIENT
OUTLET MOISTURE CONTENT	IDEALLY ZERO

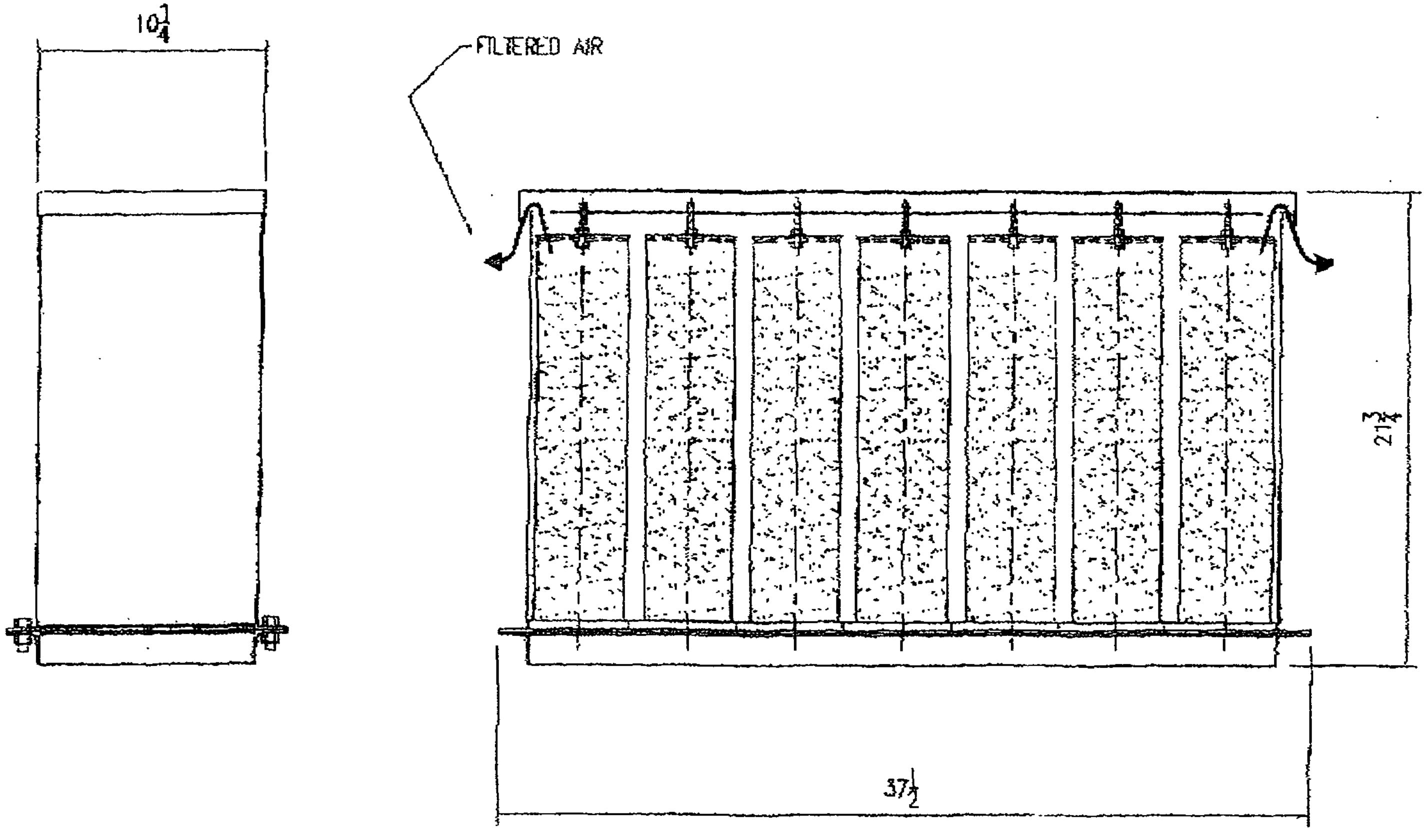
BAG SPECIFICATIONS

BAG DIAMETER	4-1/2" DIA.
BAG LENGTH	16"
CONSTRUCTION	3 X 1 TWILL
FIBER	POLYESTER
FINISH	GREIGE
WEIGHT	7.1 OZ./SQ. YD.
THICKNESS	0.019"
MULLEN BURST	275 PSI (Min)
PERMEABILITY RANGE (0.5" WATER)	30-65 CFM/SQ. FT.
BAG EFFICIENCY	99.9% (*)

BATCHER VENT	INTO BAGS
LB / HR	.00144 LB/YD^3 * ___YD^3/HR
GR / FT^3	.048 GR HR/LB FT^3 * ___LB/HR

OUT OF BAGS
FOR ALL OUT OF BAGS VALUES, MULTIPLY THE INTO BAGS VALUES BY 0.001.

* BASED ON TESTS BY THE UNIVERSITY OF TENNESSEE.



CUTAWAY SIDE VIEW

SCALE	1 1/2" = 1'
DATE	7/27/05
DRAWN	RJS
TITLE	BV-14 CEMENT BATCHER VENT OUTLINE
DRAWING	BV-14-23
	CON-E-CO concrete equipment company
	6078-12

REVISION

CON-E-CO

An Oshkosh Corporation Company

BV Series Batcher Vent **MAINTENANCE & OPERATION**

OPERATION

The CON-E-CO BV Series Batcher Vents are designed for efficient operation and cleaning. The contaminated air enters the dust collector through its bottom flanged opening at the top of the weigh batcher. In the weigh batcher, many of the heavy dust particles settle out of the air stream due to a reduction of air velocity. From the weigh batcher, the dust laden air flows up through the inside of the filter bags where the dust particles are trapped by the filter bags thus allowing the clean air to pass through the bags into the clean air chamber. From there, the air flows through the exhaust opening and into the atmosphere.

BAG CLEANING

A vacuum is created inside the weigh batcher as the batcher is emptied. This vacuum reverses the air through the bags and pulls collected material from the bags back down inside the weigh batcher.

Examine the bags each week to check for excessive build up on the inside of the bags. The best efficiency and longest bag life is obtained by cleaning the bags as often as necessary. A thin even coating of material should coat the inside of the filter bags for the most effective filtration. The dust cakes on the inside of the bags to help filter the fine particles; so if bags are cleaned too often, part of their cleaning efficiency is lost.

MAINTENANCE

The filter bags can be removed and inspected for tears and thin places. Laundering, mending or repair of the seamless bags is not recommended. The bags are made of seamless woven polyester fabric and if laundered shrinking may take place. Replacement bags are available from CON-E-CO.

SPARE PARTS

Parts should be ordered from Manufacturer to insure compatibility. If parts are needed, obtain serial number from the name plate and call the factory. A complete detailed record of the vent is on file at CON-E-CO.

SAFETY INFORMATION

This CON-E-CO dust collector, like other industrial equipment, must be operated and maintained in accordance with our instructions and sound engineering practices. The user of this equipment must always be aware of the physical and chemical properties of the dust particles being collected. Materials or processes presenting such hazards must be identified by the user.

CON-E-CO®
An Oshkosh Corporation Company

SPECIFICATIONS FOR MODEL PJC-300S CARTRIDGE DUST CONTROL

silo(s) baghouse

MODEL CON-E-CO-PJC-300S

NUMBER OF CARTRIDGES	8
NOMINAL CARTRIDGE DIAMETER	8"
NOMINAL CARTRIDGE LENGTH	40"
TOTAL FILTRATION AREA	304 SQ. FT.
MIN. DESIGN EFFICIENCY OF DUST COLLECTOR	99.9%
AIR TO CLOTH RATIO	5.0 TO 1.0 (CEMENT)
CAPACITY FOR CEMENT	1,500 C.F.M.(RECOMMENDED MAXIMUM)
CAPACITY FOR FYLASH	1000 C.F.M. (RECOMMENDED MAXIMUM)
DISCHARGE AREA	.87 SQ. FT.
DISCHARGE VELOCITY @1500 C.F.M.	38 FT. / SEC.
DIRECTION OF AIR DISCHARGE	DOWNWARD
DISCHARGE SHAPE	(2) 11/16 X 48" SLOTS (2) 5/8 x 30" SLOTS
NORMAL OPERATING DISCHARGE TEMP & PRESSURE	AMBIENT
OUTLET MOISTURE CONTENT	IDEALLY ZERO
CLEANING MECHANISM	PULSE JET
FREQUENCY OF CLEANING	VARIABLE

CARTRIDGE SPECIFICATIONS

CARTRIDGE DIAMETER	7 7/8" O.D.
CARTRIDGE LENGTH	39 1/4"
CONSTRUCTION	PLEATED
FIBER	SPUN BONDED POLYESTER
WEIGHT	6 OZ / SQ. YD.
PERMEABILITY (.5" WATER)	24 CFM/SQ FT

DISCHARGE INTO BAGS

CEMENT SILO	INTO BAGS
LB / HR	.177 LB/YD^3 * ___ YD^3/HR
GR / FT^3	.078 GR HR/LB FT^3 * ___ LB/HR

FLYASH SILO	INTO BAGS
LB / HR	.115 LB/YD^3 * ___ YD^3/HR
GR / FT^3	.117 GR HR/LB FT^3 * ___ LB/HR

OUT OF BAGS
FOR ALL OUT OF BAGS VALUES, MULTIPLY THE INTO BAGS VALUES BY .001

OUTLET
2 A 4 x 18"

QUALITY ■ PERFORMANCE ■ SERVICE
287 N. 13TH STREET ■ P.O. BOX 430 ■ BLAIR, NE 68008
(402) 426-4181 ■ OFFICE FAX (402) 426-4180 ■ ENGINEERING FAX (402) 426-4190

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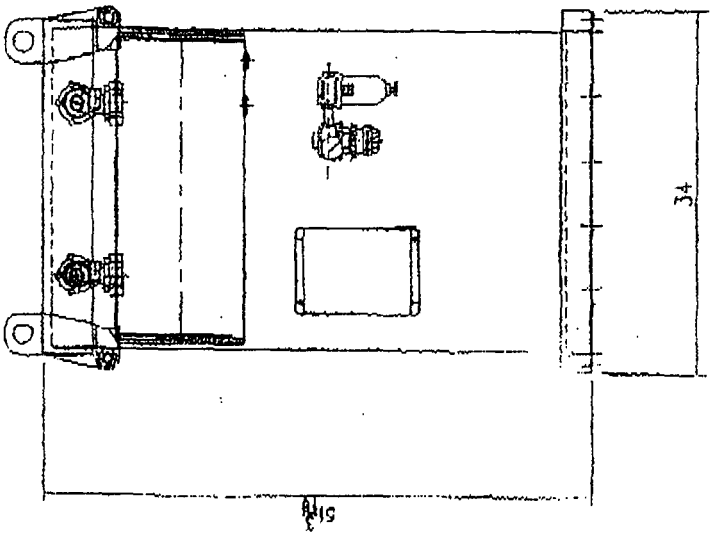

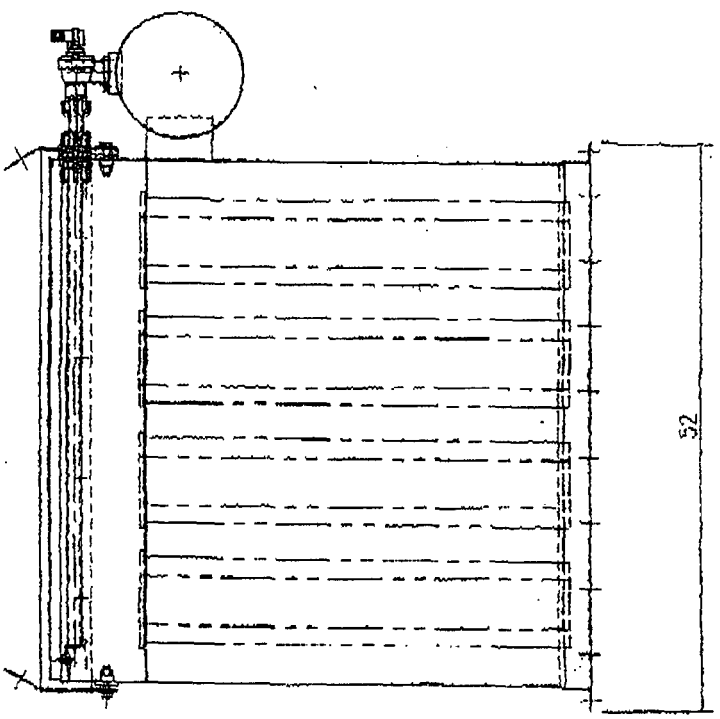

CONECO
PJC-300S SILO VENT OUTLINE
PJC-300S
0138-00C
1/31/02
3/4"=1'-0"

CON-E-CO®

An Oshkosh Corporation Company

PJC Series Dust Collector MAINTENANCE & OPERATION
PJC-3009

OPERATION

The CON-E-CO Pulse Jet Series Dust Collectors are designed for continuous operation and cleaning.

CARTRIDGE CHAMBER

Contaminated air enters from the bottom of the cartridge chamber and flows from the outside toward the inside of the cartridges, leaving dust particles on the outside of the cartridges. Clean air exits through the top.

CARTRIDGE CLEANING

Cleaning of the cartridges is done on one row at a time. Pulse jet valves are mounted on a manifold inside the bag house and control air to the blowpipes located above the rows of pulse jet cartridges. Holes in the blowpipes centered over each bag opening direct air downward through a venturi into the bags.

Cleaning of the cartridges is accomplished by a jet of air directed downward into the cartridges. The jet of air is short duration, high velocity and directs enough air volume to reverse the flow of air for a very short time to dislodge the dust from the outside of the bag.

AIR PRESSURE

Air pressure at the manifold (located inside the baghouse) should be maintained at 90 to 100 psi. Less than 90 psi will reduce cleaning efficiency; Greater than 100 psi will cause excessive bag wear

CONTROL

The pulse jet valves are controlled by an adjustable solid state timer board. (See timer instruction for technical and programming instructions) This timer board controls several functions as described below:

ON TIME	Pulse duration: Time that a pulse jet valve is open ON TIME less than 100 milliseconds will result in ineffective bag cleaning ON TIME greater than 200 milliseconds will result in excessive air usage
OFF TIME	Time between pulses: Reducing the "OFF TIME" will keep the bags cleaner and increase bag wear. Increasing the "OFF TIME" will allow more dust cake and increase bag life

INITIAL SETTINGS

The dust collector timer control should initially be set as shown below. These settings should give the best balance of cleaning efficiency, air efficiency, and bag life for most common applications.

ON TIME	150 milliseconds
OFF TIME	30 seconds