

**CONCRETE BATCHING PLANT**  
**AIR GENERAL PERMIT REGISTRATION – August 2013**  
**Florida Department of Environmental Protection (FDEP) – Tallahassee, FL**

Facility Identification Number - If known (seven digit number)

7775780-001-AG

**ID # to be assigned by FDEP: New relocatable facility 777xxx-001-AG for Hayward Baker, Inc., August 2013.**

**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):

N/A

**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.)

**Hayward Baker, Inc.**

**(Note: Hayward Baker's Tampa, Florida office is located: 6850 Benjamin Rd., Tampa, FL 33634)**

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.)

**Hayward Baker – RCM (Recirculating Cement Mixer) Plant**

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

**Initial facility location: "One Ocean" Project**

Street Address: **SW corner of intersection of Ocean Drive and 1<sup>st</sup> Street**

City: **Miami Beach**

County: **Miami-Dade**

Zip Code: **33139**

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

**September 2013**

FACILITY REGISTRATION  
2013 AUG 28 PM 3:24  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
TALLAHASSEE, FL

**Hayward Baker, Inc. – New Relocatable Facility – August 2013 Registration**

**Facility Contact:**

<u>Name and Position Title</u> (Plant manager or person to be contacted regarding day-to-day operations at the facility.) Print Name and Title: <b>Mr. Tom Munday, Onsite Superintendent, Hayward Baker, Inc.</b> <b>at "One Ocean" Project</b>	
<u>Facility Contact Telephone Numbers</u> Telephone: Cell phone: <b>(817) 437-2821</b> E-mail:	Fax:
<u>Facility Contact Mailing Address</u> Organization/Firm: <b>Hayward Baker, Inc.</b> Mailing Address: <b>SW corner of intersection of Ocean Drive and 1<sup>st</sup> Street ("One Ocean" Project)</b> City: <b>Miami Beach</b> County: <b>Miami-Dade</b> Zip Code: <b>33139</b>	

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

<u>Name and Position Title</u> Print Name and Title: <b>Mr. Dean Elliott, Operations Manager (Tampa, FL)</b>	
<u>Other Contact/Representative Telephone Numbers</u> Telephone: <b>(813) 884-3441</b> Cell phone: <b>(813) 299-3413</b>	Fax: <b>(813) 884-3820</b>
<u>Other Contact/Representative Mailing Address</u> Organization/Firm: <b>Hayward Baker, Inc.</b> Street Address: <b>6850 Benjamin Rd.</b> City: <b>Tampa</b> County: <b>Hillsborough</b> Zip Code: <b>33634</b> E-mail: <b>DAElliott@haywardbaker.com</b>	

**Government Facility Code (check only one)**

<input checked="" type="checkbox"/> Facility not owned or operated by a federal, state, or local government.
<input type="checkbox"/> Facility owned or operated by the federal government.
<input type="checkbox"/> Facility owned or operated by the state.
<input type="checkbox"/> Facility owned or operated by the county.
<input type="checkbox"/> Facility owned or operated by the municipality.
<input type="checkbox"/> Facility owned or operated by a water management district.

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Page 4 of 4

**Hayward Baker, Inc. – New Relocatable Facility – August 2013 Registration**

**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: **N/A**

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. **NOTE: See Attachment "A": "Equipment Details" and "Location Map".**

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.)

**This initial registration is for a relocatable RCM (recirculating cement mixer) system that will initially be set up and operated at the "One Ocean" Project in Miami Beach for approximately 3 to 4 months.**

**NOTE: See Attachment "A": "Equipment Details" and "Location Map".**

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**Equipment Details and Location Map  
Hayward Baker, Inc.  
Initial Air General Permit Registration to Florida DEP-Tallahassee  
New Relocatable RCM Concrete Batch Plant  
August 2013**

A preliminary layout of the "RCM & Field Bin Set-Up" is attached, along with equipment details and a location map for the initial project for this relocatable RCM Plant.

The main components are listed below.

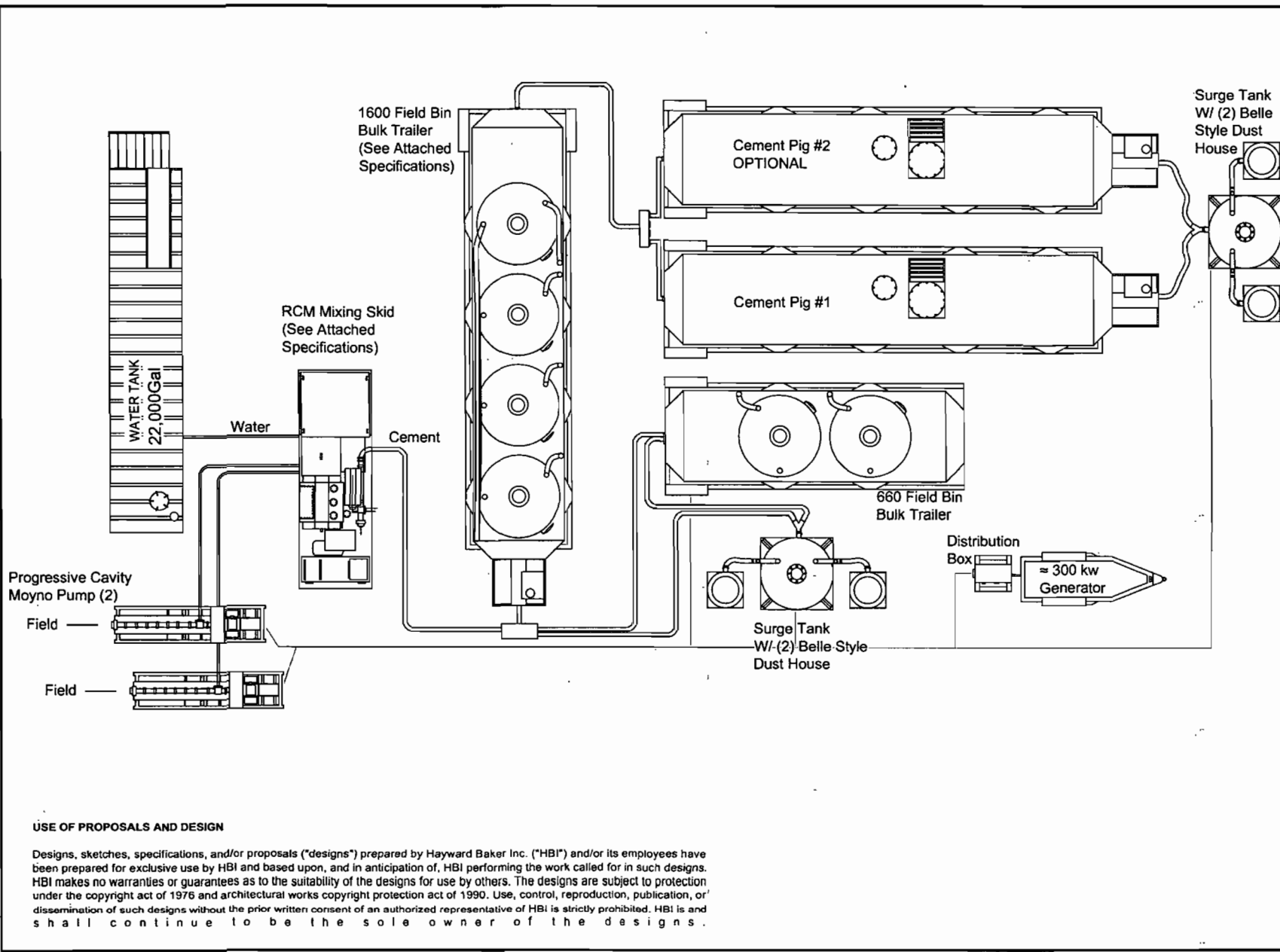
RCM Mixing Skid with diesel engine.  
1,600 cu.ft. cement Field Bin Bulk Trailer with diesel engine (see attached details).  
660 cu.ft. cement Field Bin Bulk Trailer with diesel engine (similar to 1,600 cu.ft. trailer).  
One or more 150-ton cement "pig" trailer tankers.  
Two (2) progressive cavity pumps and associated lines and application equipment.  
Power generator.

Dust control for the Field Bin Bulk Trailers and Cement "Pig" Tankers is provided by two "modules". Each dust control "module" consists of a surge tank connected to two 675 CF.M. "Belle" Style Dust Houses. Each baghouse has 225 sq.ft. of bag cloth area. (See attached details from Belgrade Steel Tank, Inc., and photos of Hayward Baker components.)

The cement-water mix will be pumped through transport hoses/lines to application locations on project sites, such as soil cement bottom seal areas, TRD walls, or augercast piles.

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**HAYWARD BAKER**  
**KELLER**  
 Southern Region  
 6850 Benjamin Rd.  
 Tampa, FL 33634  
 (813) 9894-3341  
 www.haywardbaker.com

RCM & FIELD BIN SET-UP

REVISIONS

ISSUE DATE  
 08/26/13  
 PROJECT NUMBER

SHEET NUMBER  
**HB-1**

**USE OF PROPOSALS AND DESIGN**

Designs, sketches, specifications, and/or proposals ("designs") prepared by Hayward Baker Inc. ("HBI") and/or its employees have been prepared for exclusive use by HBI and based upon, and in anticipation of, HBI performing the work called for in such designs. HBI makes no warranties or guarantees as to the suitability of the designs for use by others. The designs are subject to protection under the copyright act of 1976 and architectural works copyright protection act of 1990. Use, control, reproduction, publication, or dissemination of such designs without the prior written consent of an authorized representative of HBI is strictly prohibited. HBI is and shall continue to be the sole owner of the designs.

## **RCM Mixing Skid**

Skid – 7 ft. 6 in. x 22 ft. 10 in. I-Beam

Engine – 1106E Perkins 178 hp with PTO

Gear Box – 912 with 3,823XMAHX Power Take Off

Drive Lines – 810 Series

Hydraulic Pump – Parker PS12A293NEAB33-92 Pump

Cement Mixing Pump – 6x5x11 Mission Sandmaster Pump

Water Pump – 4x3x11 Mission Sandmaster

Densitometer – 3" Promass 80F80 DN80 Endress + Hauser

Mixing System – 10bbl Two Compartment Re-Circulating Mixing

Tub for re-circulating & boosting. Hydraulically driven agitator paddles for mixing with Halco Jet & Metering Valve.

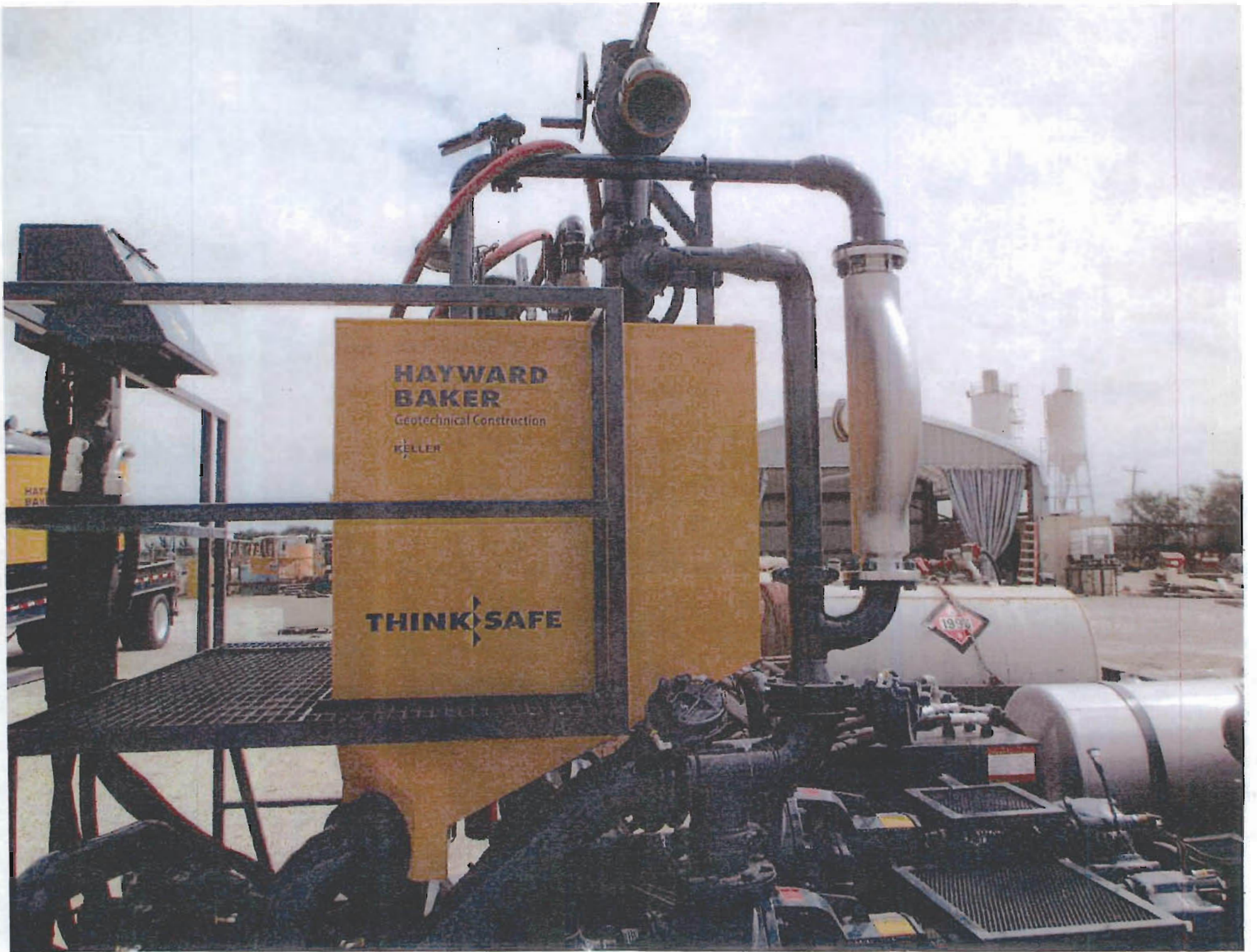
Density Range – 6.0 to 20 lbs/gallon

Mixing Rate – 0 to 15.6 BPM

Painted – Blasted & Painted Two Tone Hayward Baker Colors







**HAYWARD  
BAKER**  
Geotechnical Construction

KELLER

**THINK SAFE**

1996



## **1600 Field Bin Bulk Trailer**

Trailer – 42 ft. skid Single Axle with 24.5 Tires and Hydraulic Landing Gear

Engine – 1104E Perkins 80 hp

Tanks – 4 – 400sk ASME Coded to Max PSI 35 at 200 degrees

Man Ways – 1 per Tank: ASME Coded

Air Compressor – Gardener Denver 225 CFM

Air Pad – 2 Piece for Replacement Sold at OES

Fill Line – 5" with Air Actuator for Each Tank

Vent Line – 5" Tank to Tank with Air Actuators

Discharge – 5" with Air Actuator Tank to Tank

Air Charge Line – 3" with Cameron Butterfly Valves & ASME Safety Relief Valves

Hydraulics – Parker Two Way Valves

Jet Line – 2" with 2" Ball Valve

Console – 2 – Control Panels with 2HA2 Valves to Operate Loading, Discharge & Gauges

Scales – F-RLK-18138 (Rice) – 4 per Tank with 110ac Read Out for Each Tank

Paint – Blasted & Painted Two Tone Hayward Baker Colors

Load Cells & Read Out on each Pod add

Example of Unload Capabilities of the Bulk Units:

50 Sacks per min.

Each Sack Weighing Approx. 100 lbs.

50,000 lbs per minute.



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Belgrade Steel Tank Company Inc. Search..

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**DUST COLLECTING**

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**"Belle" Style Dust House**

Square Ft. Bag Area	Cap. Cement
150	375 C.F.M.
225	675 C.F.M.

**"Belle" Filter Sock 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# Fill Direction 275#
Thermal Stability	2% Max. #00 Degrees F
Max Operating Temp	275 Degrees F
Efficiency	99.99%

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.

**330 Pulse Jet Dust House**

**16 Sqft Filter Vent**









**CONTACT DETAILS**

Belgrade Steel Tank Inc.  
 P.O. Box 220  
 405 Lowery Avenue  
 Belgrade, MN 56312



## Photos of “Belle” Style Dust House examples





Hayward Baker, Inc.

Location Map: Relocatable RCM Concrete Batching Plant

Initial Relocatable Air General Permit Registration, August 2013 to Florida DEP, Tallahassee

Project Location: SW corner of the intersection of Ocean Dr. and 1st St., Miami Beach, FL



3755

# Southern Environmental Sciences, Inc.

1204 North Wheeler Street □ Plant City, Florida 33563 □(813) 752-5014, Fax (813) 752-2475

August 2013

<p><b>If by Overnight Delivery (FedEx, etc.):</b>          Department of Environmental Protection          Receipts          3800 Commonwealth Blvd.          Mail Station 77          Tallahassee, FL 32399          Phone: (850) 717-9095</p>	<p><b>If by U.S. Postal Service, Certified Mail/return receipt requested:</b>          Department of Environmental Protection          Receipts          PO Box 3070          Tallahassee, FL 32315-3070</p>
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FDEP Contact: Ms. Barbara Friday (Interim) Email: [Barbara.Friday@dep.state.fl.us](mailto:Barbara.Friday@dep.state.fl.us)  
Phone: (850) 717-9095

Re: Air General Permit Registration for New Concrete Batching Plant - Relocatable  
Permit ID No.: to be determined by FDEP  
Hayward Baker, Inc.

Ladies & Gentlemen:

On behalf of Hayward Baker, Inc., Southern Environmental Sciences, Inc. is pleased to submit the enclosed Registration information for the above referenced relocatable facility.

Also enclosed is a \$100.00 fee check payable to Florida Dept. of Environmental Protection.

If you have any questions concerning the permit application please contact me at office phone: (813) 752-5014 or email: [lrobinson@sesfla.com](mailto:lrobinson@sesfla.com).

Sincerely,

SOUTHERN ENVIRONMENTAL  
SCIENCES, INC.

*Lynn Robinson*

Lynn Robinson, P.E.  
Permitting Manager

Encl: Concrete Batching Plant Air General Permit Registration and \$100.00 fee check

Cc: Mr. Dean Elliott, Operations Manager, Hayward Baker, Inc.  
6850 Benjamin Rd., Tampa, FL 33634; Cell: (813) 299-3413

SES Project 13P267

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