OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502
Telephone: (360)-539-7610 – Fax: (360)-491-6308
www.orcaa.org

FORM 12

Fill out all the applicable equipment information requested below and submit the appropriate fees.

BAGHOUSE

General Information

Facility Name: BAYSIDE FRONTIER CONSTRUCTION SUPPLY	**Contact Person:** HEATH DORGAN **Phone Number:** 253-514-1726 **Email:** HEATH@DORGANBOOKS.COM
Facility Operating Schedule: 8 hrs/day, 5 days/wk, 50 wks/yr **Indicate days when operating:** ☑ M ☑ T ☑ W ☑ Thu ☑ F ☐ Sat ☐ Sun	**Baghouse Operating Schedule:** 8 hrs/day, 5 days/wk, 50 wks/yr **Indicate days when operating:** ☑ M ☑ T ☑ W ☑ Thu ☑ F ☐ Sat ☐ Sun

☑ New Unit Installation ☐ Modification	**Manufacturer:** C&W DUSTTECH	**Model #** CP5250	**Serial #**

Technical Specifications

Air Flow: Design ACFM 5250 Operating ACFM 5250 Temperature _____ °F	**Particulate Control Efficiency:** Pressure Drop (inches of water) 2"-6" Water Vapor Content (lbs/water/lbs dry air) 8"WC Fan Power (hp) 15

Describe Filter Material: SPUN-BOND POLYESTER

Describe bag cleaning mechanism and cycle: RECYCLE SYSTEM WITH ROTARY VANE FEEDER + TIMER. CYCLE IS 20 MINUTES BETWEEN AUTO MATERIAL RETURN, 128 SEC ON TO CLEAR HOPPER, 120 SEC TO CLEAR LINE.

Describe operation of baghouse, including use of safety bypasses, monitoring and maintenance schedules, and any other pertinent information relating to particulate emissions (use additional pages if necessary):

Particulate Emissions Data

Particulate Emissions:	Particulate Control Efficiency:
Inlet (gr/scf) _____	Filtering Velocity (acfm/ft² cloth) 6.67
Outlet (gr/scf) _____	Particulate Control Efficiency (%) 99.99

Describe Particulate Emissions:		
Micron Range	Inlet Loading (% of total)	Outlet Loading (% of total)
0 -5	99.99 %	99.99 %
5 – 10	99.99 %	99.99 %
Greater than 10	99.99 %	99.99 %
Other Information:		
The following information is needed to complete the application: 1. Manufacturer brochure or technical fact sheet for filter material. 2. Scaled technical drawings of the baghouse including top, side and interior views. 3. Manufacturer brochure or technic fact sheet for baghouse.		

Filing Fee: See https://www.orcaa.org/services/fee-schedules/ for an up-to-date list of fees

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FORM 1- NOTICE OF CONSTRUCTION

TO CONSTRUCT - INSTALL - ESTABLISH OR MODIFY AN AIR CONTAMINANT SOURCE

Form 1 Instructions:

1. Please complete all the fields below. **This NOC application is considered incomplete until signed.**
2. If the application contains any confidential business information, please complete a Request of Confidentiality of Records (www.orcaa.org/forms).
3. Duty to Correction Application: An applicant has the duty to supplement or correct an application. Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application must, upon becoming aware of such failure or incorrect submittal, promptly submit supplementary factors or corrected information.

Business Name: FRONTIER CONSTRUCTION SUPPLY

Mailing Address: 11012 CANYON RD. E, STE 8

Physical Address of Project or New Source: 4101 E. STATE ROUTE 3

Billing Address: 11012 CANYON RD E., STE 8

For ORCAA use only

File No:
County No:
Source No:
Application No:
Date Received:

Project or Equipment to be installed/established: BAGHOUSE / DUST COLLECTOR

Anticipated startup date: 11/25/23 Is facility currently registered with ORCAA? Yes [✓] No [ ]

This project must meet the requirements of the State Environmental Policy Act (SEPA) before ORCAA can issue final approval. Indicate the SEPA compliance option:

- [ ] SEPA was satisfied by _____ (government agency) on ___/___/___ (date) - Include a copy of the SEPA determination
- [ ] SEPA threshold determination by _____ (government agency) is pending - Include a copy of the environmental checklist
- [✓] ORCAA is the only government agency requiring a permit - Include ORCAA Environmental Checklist
- [ ] This project is exempt from SEPA per _____ (WAC citation).

Name of Owner of Business:

Title: RANDY JENSEN - OWNER

Email: RANDY3@FSFCS.COM Phone: 253-686-0836

Authorized Representative for Application (if different than owner): HEATH DORGAN

Title: HSE SUPERVISOR

Email: HEATH@DORGANBOOKS.COM Phone: 253-514-1726

I hereby certify that the information contained in this application is, to the best of my knowledge, complete and correct.

Signature of Owner or Authorized Representative: (sign in Blue Ink)

Date: 4/30/24

IMPORTANT: Do not send via email or other electronic means. ORCAA must receive Original, hardcopy, signed application and payment prior to processing application.

Agency Use Only

OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

FORM 1D- Contact Information

Business Name	FOR ORCAA USE
FRONTIER CONSTRUCTION SUPPLY	FILE #
Physical Site Address (Street address, city, state, zip)	CTY #
4101 E. STATE ROUTE 3 SHELTON, WA 98584	SRC #
	Date Received
Previous Business Name (if applicable)	
BAYSIDE REDI MIX	

Contact Information

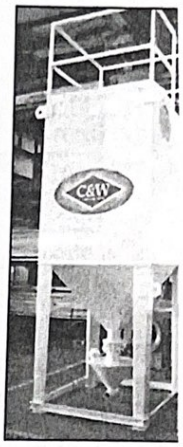
Inspection Contact			
Name	HEATH DURGAN	Title	HSE SUPERVISOR
Phone	253-514-1726	Email	HEATH@DURGANBOOKS.COM
Billing Contact			
Name	JEAN BISHOP	Title	OFFICE MANAGE
Phone	253-531-6745	Email	JEANB@FSFCS
Emission Inventory Contact			
Name	HEATH DURGAN	Title	HSE SUPERVISOR
Phone	253-514-1726	Email	HEATH@DURGANBOOKS.COM
Complaint Contact			
Name	JEAN-PIERRE CHARPENTIER	Title	
Phone	253-686-1936	Email	JEANC@FRONTIER-REDIMIX.COM
Permit Contact			
Name	JEAN-PIERRE CHARPENTIER	Title	
Phone	253-686-1936	Email	JEANC@FRONTIER-REDIMIX.COM

The **inspection contact** is the on-site person responsible for the everyday operation of the site and is available for inspections.
The **billing contact** is the person invoices are sent.
The **emission inventory contact** is the person requests for emissions information and material use information are sent.
The **complaint contact** is the person who receives and responds to complaints received on-site and who is contacted regarding complaints ORCAA receives.
The **permit contact** is the person responsible for filling out permit applications and receiving approval from ORCAA.

Maintenance Procedures Chart

Frequency	Part	Activity
Daily	moisture trap	Inspect for excessive moisture and drain.
Weekly	blower and belts	Inspect for proper tension and excessive wear.
	solenoids	Inspect for proper operation and adjustment.
	air tank drain valve	Drain.
	hopper discharge valve	Inspect for proper discharge and air tight seal.
	air pressure regulator	Confirm pressure is set to 90-100 psi.
	filter media	Check pressure drop using magnehelic gauge - normal is 3" to 6" of static pressure.
	inlet filter on automatic recycle system	Inspect for cleanliness and signs of overheating.
	coupling on automatic recycle system	Inspect for proper operation.
Monthly	fan bearings	Lubricate - assuming 10 hour/day operation.
	filter media	Check for proper sealing of filters.
	bearings on automatic recycle system	Lubricate - assuming 10 hour/day operation.
	blower fan	Inspect for excessive vibration and buildup on front and back of fan.
6 months	electric motors	Lubricate with 1-2 shots of grease.

Maintenance Procedures



DAILY MAINTENANCE PROCEDURES:

The following list of maintenance procedures must be performed to ensure collector performs at optimal level and to avoid future problems.

1. Check **moisture trap** on bottom of air regulator for excessive moisture.
2. Check **drain valve** on **air receiver tank** and ensure **no moisture** is present.

WEEKLY MAINTENANCE PROCEDURES:

1. Inspect blower on top of unit for **proper tension of belts and excessive wear**.

2. Visually inspect **solenoids** to ensure **proper pulsing**. You should hear the air pulsing through each solenoid.

3. Open top of unit and **look for dust escaping** around cartridges.

4. Open hopper door to ensure **material being collected is properly being discharged** and nothing is lodged in unit. Hopper is not a storage bin for collected material. Failure to remove dust on a consistent basis will change air flow pattern, re-entrench dust, reduce cleaning efficiency, and result in improper operation of unit. Seal on hopper door should be checked to make sure it is in good condition.

5. If unit is equipped with an **automatic recycle system**, visual inspection should be made to ensure **inlet filter is clean** and blower motor is not overheating. Coupling between motor and blower should be inspected to ensure proper operation.

6. **Air pressure** must be checked so it maintains **90-100 psi.**

7. Pressure drop across cartridges must be checked utilizing a magnehelic or photohelic gauge. Reading will indicate condition of cartridges. **Normal operating pressure** across cartridges **is 3" to 8" of static pressure.** A higher reading indicates excessive buildup on cartridges, but could also mean filter media is nearing end of service life.

8. If shroud has mechanical lifting device, such as lifting frame, tops should be checked for cleanliness and **air leaking from the cylinders**. All **cables, clamps, and pulleys** must be carefully **inspected**.

9. **Lubrication procedures** must be followed for particular blower you have. See "Component" tab for more instructions.

Helpful tip: Precaution should be taken when opening hopper door to ensure hopper is free of excessive amounts of material. Too much material will cause presence of pressure, which will cause material to cascade out of hopper and possibly cause injury.

Maintenance Procedures Cont.

WEEKLY MAINTENANCE PROCEDURES CONT:

10. Inspection must made of dust pick-up points on shroud to remove cement buildup, which occurs due to moisture mixing with cement dust. Also inspect flex duct for holes and tears and replace as necessary.

11. Check to ensure water from water injection hose is not leaking or spraying onto underside of shroud. Water will be pulled through ducting and into collector, shortening life of filter media.

WARNING: Ensure compressed air is turned OFF and relieve pressure in pulse tank before working on any air-operated parts such as; solenoid valves, air regulators, air line or air filters. Servicing while pressurized can cause severe injury. LOCK OUT source and RELIEVE PRESSURE.

MONTHLY MAINTENANCE PROCEDURES:

Dust collector fans need monthly maintenance to avoid dust build-up and excessive vibration. At least once a month, shut dust collector down and perform lock-out/tag-out procedure. Complete the following maintenance procedures:

1. Fan bearings must be lubricated, assuming a 10 hour/per day operating system. Do not over-grease bearings.

2. Check belts for proper tension and wear and replace or adjust if necessary. Check belt alignment to ensure belts are running true.

3. Remove fan guard on discharge of fan and inspect fan blades front and back. Build up of material normally occurs on backside of blades (fans are backward inclined) to the point buildup is thrown from fan causing fan wheel to go off balance. This will cause fan to vibrate and if left unattended will prematurely destroy bearings and bearing supports.

4. Re-install guard on fan prior to operating.

5. Inspect filer media to ensure they are properly sealed.

YEARLY MAINTENANCE PROCEDURES:

1. If optional recycle blower was purchased, there is an oil reservoir that must be serviced annually, every 500 hours with a synthetic lubrication.

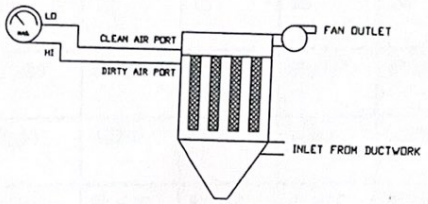
2. It is recommended that ducting be inspected once a year for excessive buildup. Ducting should have been installed in sections to accommodate this yearly inspection. Do not use a hammer to remove excessive build-up from ducting because you could break seams, puncture duct, or cause spiral crimps to release - all of which will create leaks.

Maintenance Procedures Cont.

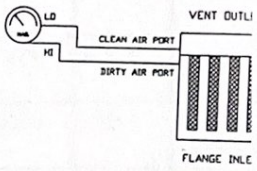
The Magnehelic Gauge located on a dust collector shows differential pressure between clean air side and dirty air side collector (resistance through the filter media). This gauge is read in inches of water column - W.C. C&W collectors are depending on the style, filter media and application.

RA series are rated for 6" W.C. Normal operational range for the RA series ranges 2" to 5" W.C. When the gauge reads higher, the cleaning cycle should be reset to clean more often, reducing the gauge reading back to normal range. If this does not reduce the reading, the filter media may require changing.

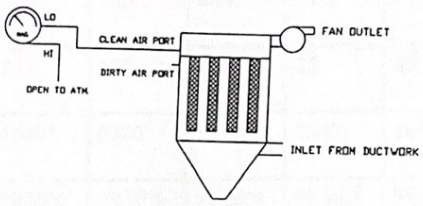
BP series (Pulse Jet Bag) are rated at 8" W.C. Normal operational range for BP series ranges 2" to 6" W.C. When the gauge reads higher, cleaning cycle should be reset to clean more often, reducing gauge reading back to the normal range. If this does not reduce the reading, the filter media may require changing.
CP series (Pulse Jet Cartridge) are rated similarly to BP series.



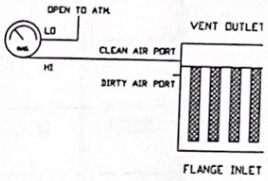
ΔP Across Filters
(Standard Operation)



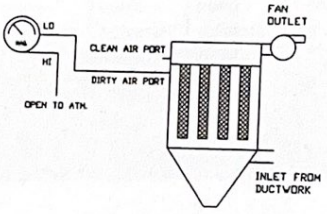
ΔP Across Filters - Silo
(Standard Operation)



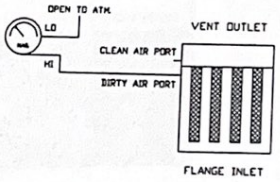
ΔP Across Fan



ΔP Across Vent - Silo



ΔP Across Ductwork



ΔP Across Filters & Vent - Silo
(Standard Operation)

1. Not all collectors operating under normal conditions read the same. You can evaluate collector after filter media is seated and running for several weeks. Once a normal reading is established, determination on cleaning cycles can be evaluated.

2. If gauge reads zero while running, this may indicate a torn bag or cartridge, bag or cartridge incorrectly installed, crushe cartridge, blockage or loose tube connecting the gauge, or an inappropriately plumbed air tube - false readings will occur when tubes are crossed between dirty and clean air ports. If tubes are plumbed correctly, a closer inspection of the filter media is required.

3. In some instances the application requires the static pressure to be designated higher than normal settings, mentioned above. Please consult C&W at 800-880-DUST for further information under these circumstances.

Helpful Tip: The filtration media will usually last for 12 months. New media should be installed each Spring during start-up maintenance. Replacements can be ordered from C&W at parts@cwmfg.com.

Specifications

Specifications	CP1440	CP2150	CP2880	CP3240	CP3600	CP4320	CP5250	CP7500	CP10000	CP12500	CP14000
Total filtration area	210	315	420	472.5	525	630	787	1654	2068	2585	3102
Number of cartridges	4	6	8	9	10	12	15	16	20	25	30
Cartridge diameter and length	8"x39"	8"x39"	8"x39"	8"x39"	8"x39"	8"x39"	8"x39"	8"x78"	8"x78"	8"x78"	8"x78"
Normal air capacity (CFM)	1440	2150	2880	3240	3600	4320	5250	7500	10000	12500	14000
Static pressure drop	8" W.C.	8" W.C.	8" W.C.	8" W.C.	8" W.C.	8" W.C.	8" W.C.	8" W.C.	8" W.C.	8" W.C.	8" W.C.
Air to cloth ratio (ft/min)	6.86	6.86	6.86	6.86	6.86	6.86	6.67	4.53	4.83	4.83	4.51
Blower hp	3*	5*	7.5*	7.5*	7.5*	10*	15	15	20	25	30
Blower CFM	1440 *	2150*	2880*	3240*	3600*	4320*	5250	7500	10000	12500	14000
Min design efficiency	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%
Media type	spun-bond polyester	spun-bond polyester	spun-bond polyester	spun-bond polyester	spun-bond polyester	spun-bond polyester	spun-bond polyester	spun-bond polyester	spun-bond polyester	spun-bond polyester	spun-bond polyester
At standard test conditions											
*Optional											

SPECIFICATIONS

Contact C&W if your regulatory agency requests more information.

HELPFUL TIP

**xW Pulse Timer
n be used for any
lse style dust
llector on the
rket.**

Description

The Integrato Sequencer (IS & ISP) features integrated controls intended for use with reverse pulse jet filter cleaning systems. The IS & ISP have been designed to operate across a wide range of environmental conditions. It is suitable for use with all types of filters, including bags, cartridges, sintered metal or ceramic filters.

The IS (ET077) sequencer operates in continuous mode, whereas the ISP (ET085) has a built-in differential pressure sensor, allowing this sequencer to be demand driven.

IS & ISP may be ordered as the sequencer only, in an enclosure (polycarbonate), or integrated into the motor control cabinet.

Features

- Low temperature operation −40°C (−40°F) Minimum
- Automatic valve detection.
- Voltage-free coil error output and a visual indication on the display showing which pilot valve output has an error, enabling quick fault finding and debugging.
- Controls multiple pilot valves. Each AC output can have 10 pilot valves connected in parallel, enabling up to 400 pilot valves to be supported.
- Conforms to the requirements of UL, CE, FCC and RCM.

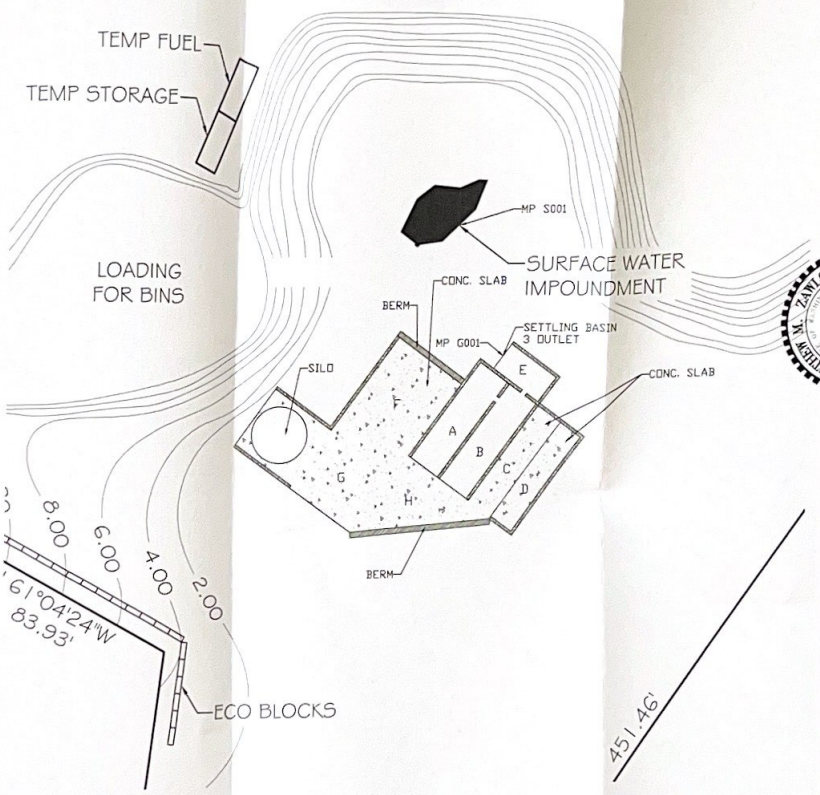
HELPFUL TIP

**page 10 for
ubleshooting
display codes.**

Technical Characteristics and Performance

- Input Voltage: AC: 100/240 V @ 50/60 Hz
- Output Voltage AC: 100/240 V @ 50/60 Hz (same as input) (Note: Must Match Valve Coil Voltage)
- Maximum Input Power AC IN=AC OUT: 225 W AC IN
- Discrete Solenoid Outputs: 12, 20 or 40 outputs available
- Operating Temperature −40°C to 60°C (−40°F to 140°F)
- ON Time: 30 ms to 1000 ms
- OFF Time: 1 s to 1000 s
- Inputs are Voltage Free: Fan Stop (Normally Open), Low Header Alarm (Normally Open)
- Output is Voltage Free: Coil Error Output
- ISP Version Pressure Sensor Range: 0 to 18.08 InWC
- ISP Version has Analog Output: 4-20 mA dP signal

Exhibit "D" SITE Plan 12/29/2023



Elevation datum (Assumed)

VOLUME SUMMARY			
SECTION	DESC.	AREA (SQ. FT.)	VOLUME (CU. FT.)
A	SETTLING BASIN 1	492	1404
B	SETTLING BASIN 2	492	1363
C	DEHYDRATION PAD	410	495
D	ECOLOGY BLOCK FORMING PAD	369	185
E	SETTLING BASIN 3	210	481
F	TRUCK WASHOUT AREA	809	303
G	TRUCK LOADING AREA	994	373
H	TRUCK ENTRY/EXIT PAD	643	201
TOTAL		4419	4806

3/4" ON TOTAL AREA = 1289 CU. FT. REQUIRED

STORAGE VOL. W/O BASINS = 1557 CU. FT.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Bay Side Ready Mix
4101 State Route 3
Shelton, WA

MATTHEW M. ZABLOCKI 40915 REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON

N.L. Olson & Associates, Inc.
Engineering, Planning and Surveying
(360) 876-2350 or (360) 876-2284
2453 Bethel Avenue, P.O. Box 637, Port Orchard, WA 98366

Date:	12/29/23
Checked:	MMZ
Drawn:	MEZ
Proj. No:	12915
Scale:	1"=30'-0"
Page:	1 of 1