76258

Address not found. ZIP Code results displayed.

U.S. Representatives (2)
Districts 4 and 26

State Representatives (3)
Districts 62, 68, and 106

Senator Brent Hagenbuch
Texas Senate District 30

Ms. Pam Little
State Board of Education District 12

Senator John Cornyn
U.S. Senate

Senator Ted Cruz
U.S. Senate

Steven Piper

From: eNotice TCEQ
Sent: Friday, June 6, 2025 9:30 AM
To: brent.hagenbuch@senate.texas.gov; jared.patterson@house.texas.gov; Andy.Eads@dentoncounty.gov
Subject: TCEQ Notice - Permit Number 180387
Attachments: TCEQ Notice - 180387_393909.pdf

This email is being sent to electronically transmit an official document issued by the Office of Air of the Texas Commission on Environmental Quality.

This email is being sent to you because either (a) you filed a document with the Office of the Chief Clerk that made you part of the official mailing list for the above referenced matter, or (b) notice to you is legally required. As authorized by Texas Water Code 5.128, this electronic transmittal is replacing the previous practice of hard copy distribution. Amendments to Texas Government Code 552.137 prompted a change to the agency's privacy policy regarding confidentiality of certain email addresses. The revised privacy policy can be viewed at http://www.tceq.state.tx.us/help/policies/electronic_info_policy.html.

Questions regarding this email may be submitted either by replying directly to this email or by calling Bonnie Evridge with the Air Permits Division at (512) 239-5222.

The attached document is provided in an Adobe Acrobat .pdf format. If you cannot display the attachment, you may need to visit the Adobe web site (http://get.adobe.com/reader) to download the free Adobe Acrobat Reader software.

Steven Piper

From: Steven Piper
Sent: Friday, June 6, 2025 9:41 AM
To: Joe Nicosia
Subject: New Project Assignment - Currently in Initial Review Process

180387_ 393909 is located at Z:*Mechanical-Coatings*\Team Leader. Please assign a reviewer and move the project folder to Z:*Mechanical-Coatings*\Assigned Reviewer's Folder.

This project has been identified as an:

- Expedite Surcharge (SB1756)

Thank you!

◀ 76258

Address not found. ZIP Code results displayed.

Representative Shelley Luther
Texas House District 62

Representative David Spiller
Texas House District 68

Representative Jared Patterson
Texas House District 106

Plain Language Summary for Concrete Batch Plant Standard Permit Application for Concrete Batch Plant Standard Permit with Enhanced Controls Registration Number 180387

The following summary is provided for this pending air permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 3. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

100X Concrete, LLC (CN606393254) has submitted an application to register a permanent concrete batch plant under the Air Quality Standard Permit for Concrete Batch Plants with Enhanced Controls for registration number 180387. The concrete batch plant (RN112225438) will be located at 10400 Osburn Road, Pilot Point, Denton County.

This registration will authorize the concrete batch plant to have a maximum production rate of 300 cubic yards per hour of concrete and operate up to 2,158 hours per year. Particulate matter will be emitted from the handling of aggregate, cement, and flyash. Roads and traffic areas will be controlled by paving them to control dust. Dust from stockpiles will be minimized by watering. Enclosures and baghouses will be used to control cement and flyash dust.

Resumen en Lenguaje Sencillo del Permiso Estándar para Plantas de Hormigón Solicitud de Permiso Estándar con Controles Mejorados para Plantas de Hormigón Número de Registro 180387

El siguiente resumen se proporciona para esta solicitud de permiso de aire pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas, según lo dispuesto en el capítulo 39 del Código Administrativo de Texas. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no son representaciones federales ejecutables de la solicitud de permiso.

100X Concrete, LLC (CN606393254) ha presentado una solicitud de registro de permanente planta de hormigón en virtud del Permiso de la Norma de Calidad del Aire para Plantas de Hormigón con controles mejorados para el número de registro 180387. La planta de hormigón (RN112225438) se ubicará en 10400 Osburn Road, Pilot Point, Denton Condado.

Este registro autorizará a la planta de hormigón a tener una producción máxima de 300 yardas cúbicas por hora de hormigón y a operar hasta 2,158 horas al año. Se emitirán partículas por la manipulación de áridos, cemento y cenizas volantes. Las carreteras y las zonas de tráfico se controlarán pavimentándolas para controlar el polvo. El polvo de los acopios se reducirá al mínimo mediante para regando. Para el control del polvo de cemento y cenizas volantes se utilizarán cerramientos y filtros de mangas.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 6, 2025

THE HONORABLE BRENT HAGENBUCH
TEXAS SENATE
PO BOX 12068
AUSTIN TX 78711-2068

Re: Registration under an Air Quality Standard Permit for Concrete Batch Plants

Dear Senator Hagenbuch:

Pursuant to the requirements of Section 382.0516 of the Texas Clean Air Act, Texas Health and Safety Code, Chapter 382, this letter is to notify you of the recent receipt of an application for an air quality standard permit registration for a concrete batch plant which is located in your district. The status of all pending air quality applications may be viewed by visiting our agency Web site at www2.tceq.texas.gov/airperm/index.cfm.

100X Concrete LLC, 340 Trailside, Prosper, Texas 75078-0345, has applied to construct a Concrete Batch Plant located at 10400 Osburn Road, Pilot Point, Denton County, Texas 76258. This application is being processed in an expedited manner, as allowed by the commission's rules in 30 Texas Administrative Code, Chapter 101, Subchapter J. The following link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.951352,33.332244&level=13. The Air Quality Permit Number is 180387.

If you need further information or have any questions, please call Mr. Joe Nicosia at (512) 239-1644 or write him at the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,

Nancy Birdsong, Team Leader
Air Permits Initial Review Team
Air Permits Division

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 6, 2025

THE HONORABLE ANDY EADS
DENTON COUNTY JUDGE
110 W. HICKORY ST
DENTON TX 76201-4116

Re: Registration under an Air Quality Standard Permit for Concrete Batch Plants

Dear Judge Eads:

Pursuant to the requirements of Section 382.0516 of the Texas Clean Air Act, Texas Health and Safety Code, Chapter 382, this letter is to notify you of the recent receipt of an application for an air quality standard permit registration for a concrete batch plant which is located in your county. The status of all pending air quality applications may be viewed by visiting our agency Web site at www2.tceq.texas.gov/airperm/index.cfm.

100X Concrete LLC, 340 Trailside, Prosper, Texas 75078-0345, has applied to construct a Concrete Batch Plant located at 10400 Osburn Road, Pilot Point, Denton County, Texas 76258. This application is being processed in an expedited manner, as allowed by the commission's rules in 30 Texas Administrative Code, Chapter 101, Subchapter J. The following link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.951352,33.332244&level=13. The Air Quality Permit Number is 180387.

If you need further information or have any questions, please call Mr. Joe Nicosia at (512) 239-1644 or write him at the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,

Nancy Birdsong

Nancy Birdsong, Team Leader
Air Permits Initial Review Team
Air Permits Division

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 6, 2025

THE HONORABLE JARED PATTERSON
TEXAS HOUSE OF REPRESENTATIVES
PO BOX 2910
AUSTIN TX 78768-2910

Re: Registration under an Air Quality Standard Permit for Concrete Batch Plants

Dear Representative Patterson:

Pursuant to the requirements of Section 382.0516 of the Texas Clean Air Act, Texas Health and Safety Code, Chapter 382, this letter is to notify you of the recent receipt of an application for an air quality standard permit registration for a concrete batch plant which is located in your district. The status of all pending air quality applications may be viewed by visiting our agency Web site at www2.tceq.texas.gov/airperm/index.cfm.

100X Concrete LLC, 340 Trailside, Prosper, Texas 75078-0345, has applied to construct a Concrete Batch Plant located at 10400 Osburn Road, Pilot Point, Denton County, Texas 76258. This application is being processed in an expedited manner, as allowed by the commission's rules in 30 Texas Administrative Code, Chapter 101, Subchapter J. The following link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.951352,33.332244&level=13. The Air Quality Permit Number is 180387.

If you need further information or have any questions, please call Mr. Joe Nicosia at (512) 239-1644 or write him at the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,

Nancy Birdsong

Nancy Birdsong, Team Leader
Air Permits Initial Review Team
Air Permits Division

Texas Commission on Environmental Quality

Standard Permit New Registration

Site Information (Regulated Entity)

What is the name of the site to be authorized?	100X Concrete
Does the site have a physical address?	Yes
Physical Address	
Number and Street	10400 Osburn Road
City	Pilot Point
State	TX
ZIP	76258
County	DENTON
Latitude (N) (##.######)	
Longitude (W) (-###.######)	
Primary SIC Code	3273
Secondary SIC Code	
Primary NAICS Code	327320
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	
What is the name of the Regulated Entity (RE)?	100X Concrete
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	10400 Osburn Road
City	Pilot Point
State	TX
ZIP	76258
County	DENTON
Latitude (N) (##.######)	
Longitude (W) (-###.######)	
Facility NAICS Code	
What is the primary business of this entity?	

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	100X Concrete LLC
Texas SOS Filing Number	805019431
Federal Tax ID	931848894
State Franchise Tax ID	32089423506
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	0-20
Independently Owned and Operated?	Yes
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	100X Concrete LLC
Prefix	
First	Carter
Middle	
Last	Smith
Suffix	
Credentials	
Title	President
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	340 TRAILSIDE
Routing (such as Mail Code, Dept., or Attn:)	
City	PROSPER
State	TX
ZIP	75078
Phone (###-###-####)	9499390407
Extension	

Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	carter@100XBrands.com

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	100X Concrete LLC
Organization Name	100X Concrete LLC
Prefix	MR
First	Carter
Middle	
Last	Smith
Suffix	
Credentials	
Title	President
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	340 TRAILSIDE
Routing (such as Mail Code, Dept., or Attn:)	
City	PROSPER
State	TX
ZIP	75078
Phone (###-###-####)	9499390407
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	carter@100XBrands.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	Raba Kistner Inc

Prefix	MS
First	Amelia
Middle	
Last	Hudson
Suffix	
Credentials	
Title	Assistant Director, Compliance Planning
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	19111 DALLAS PKWY
Routing (such as Mail Code, Dept., or Attn:)	Suite 310
City	DALLAS
State	TX
ZIP	75287
Phone (###-###-####)	9723858069
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	ahudson@rkci.com

Standard Permit General Information- New Reg Sites

1) Is this facility permanent or temporary?	Permanent
2) Will the proposed facility meet all of the requirements of the standard permit?	Yes
3) Select the type of unit that is being registered:	CONCRETE BATCH PLANTS
3.1. Select the rule associated to the unit specified.	6008

Standard Permit Attachments

1) Attach PI-1S-CBP Registration Form	
[File Properties]	
File Name	6.2_CBP Workbook.xlsx
Hash	E5515ABF25A19AF77703667B4AF27C86ECC65043C744E541664950178EF296AA
MIME-Type	application/vnd.openxmlformats-officedocument.spreadsheetml.sheet

Confidential	No

2) Please attach any other necessary information needed to complete the registration.

[File Properties]

File Name	Final AHF2305300_100X Concrete_CBP Standard Permit App.pdf
Hash	70A6950D88252312F7D06CDB4E0C8DFF5AEC0EF5566327B66EF29EBD8BE1B27A
MIME-Type	application/pdf
Confidential	No

Expedite

1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	Yes
1.1. Can the applicant demonstrate that the purpose of this application will benefit the economy of this state or an area of this state?	Yes

Certification

The electronic signature below indicates that the Responsible Official has knowledge of the facts herein set forth and that the same are true, accurate, and complete to the best of my knowledge and belief. By this signature, the maximum emission rates listed on this certification reflect the maximum anticipated emissions due to the operation of this facility and all representations in this certification of emissions are conditions upon which the facilities and sources will operate. It is understood that it is unlawful to vary from these representations unless the certification is first revised. The signature certifies that to the best of the Responsible Officials knowledge and belief, the project will satisfy the conditions and limitations of the indicated exemption or permit by rule and the facility will operated in compliance with all regulations of the Texas Commission on Environmental Quality and with Federal U.S. Environmental Protection Agency regulations governing air pollution. The signature below certifies that, based on information and belief formed after reasonable inquiry, the statements and information above and contained in the attached document(s) are true, accurate, and complete. If you questions on how to fill out this form or about air quality permits. Please call (512) 239-1250. Individuals are entitled to request and review their personal information that the agency gathers on its forms.

1. I am Carter Smith, the owner of the STEERS account ER114314.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.

7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Standard Permit New Registration.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER OPERATOR Signature: Carter Smith OWNER OPERATOR

Account Number:	ER114314
Signature IP Address:	207.243.202.234
Signature Date:	2025-06-03
Signature Hash:	ACF8C89E5D310E65888FF7871FCCCE7A20A3135DA59A2237AA67D6C3A46D2098
Form Hash Code at time of Signature:	456D1C6847D590B21A106AD6F9AB9AA0AF6A98E1AA12F8067E4A76A35921E813

Fee Payment

Transaction by:	The application fee payment transaction was made by ER114314/Carter Smith
Paid by:	The application fee was paid by CARTER SMITH
Fee Amount:	$900.00
Paid Date:	The application fee was paid on 2025-06-03
Transaction/Voucher number:	The transaction number is 582EA000670864 and the voucher number is 769404

Fee Payment

Transaction by:	The surcharge fee payment transaction was made by ER114314/Carter Smith
Paid by:	The surcharge fee was paid by CARTER SMITH
Fee Amount:	$3000.00
Paid Date:	The surcharge fee was paid on 2025-06-03
Transaction/Voucher number:	The transaction number is 582EA000670864 and the voucher number is 769405

Submission

Reference Number:	The application reference number is 786956
Submitted by:	The application was submitted by ER081130/Matthew D Thomas
Submitted Timestamp:	The application was submitted on 2025-06-04 at 09:13:11 CDT
Submitted From:	The application was submitted from IP address 155.190.9.7

Confirmation Number:	The confirmation number is 656878
Steers Version:	The STEERS version is 6.91

Additional Information

Application Creator: This account was created by Matthew D Thomas

RABA KISTNER

19111 North Dallas Parkway, Suite 310
Dallas, TX 75287
www.rkci.com

P 972.385.8069
F 972.385.8165
TBPE Firm F-3257

Project No. AHF2305300
May 15, 2025

Air Permits Initial Review Team (APIRT)
Texas Commission on Environmental Quality (TCEQ)
12100 Park 35 Circle, Bldg. C
Austin, TX 78753

RE: Application for a Concrete Batch Plant with Enhanced Controls Air Quality Standard Permit
100X Concrete, LLC

To Whom it May Concern:

On behalf of 100X Concrete, LLC, Raba Kistner, Inc. (RKI), has enclosed the required documentation for TCEQ's consideration and approval of a Concrete Batch Plant Air Quality Standard Permit with Enhanced Controls. This registration will be a new registration to authorize emissions sources from a permanent concrete batch plant to be located at 10400 Osburn Road, Pilot Point, TX 76258.

Very truly yours,

RABA KISTNER INC.

Matthew Thomas
Environmental Scientist II

Amelia Hudson, REM
Assistance Director, Environmental Compliance

MT/AH

Attachments

Copies Submitted: TCEQ Region 4 Dallas/Fort Worth – via STEERS

APPLICATION FOR CONCRETE BATCH PLANT WITH ENHANCED CONTROLS STANDARD PERMIT

100X CONCRETE, LLC
10400 OSBURN ROAD
PILOT POINT, TEXAS 76258

SUBMITTED TO:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AUSTIN, TEXAS

PREPARED BY:

RABA KISTNER, INC.
19111 NORTH DALLAS PARKWAY, SUITE 310
DALLAS, TX 75287

RKI PROJECT NO. AHF2305300

MAY 2025

TABLE OF CONTENTS

1 INTRODUCTION 4
2 PROCESS DESCRIPTION 5
3 PROCESS FLOW DIAGRAM 6
4 PLOT PLANS 7
5 AREA MAP 8
6 TCEQ FORMS 9
6.1 Form 10400 – Core Data Form 10
6.2 Form 20871 – PI-1S-CBP Workbook 11
6.3 Form 20960 – Public Involvement Plan Form 12
7 PLAIN LANGUAGE SUMMARIES 13
8 PLANT EQUIPMENT SPECIFICATIONS 14

APPENDICES

Appendix A – TCEQ STEERS Submittal
Appendix B – EPN Table
Appendix C – Generator Emission Calculations

1 INTRODUCTION

100X Concrete, LLC proposes to construct and operate a ready-mix concrete batch plant at 10400 Osburn Road, Pilot Point, TX 76258 (100X Concrete, LLC).The proposed batch plant will have a maximum capacity to produce 300 cubic yards per hour and 650,000 cubic yards per year of ready-mix concrete.

This application includes all information required for the standard permit, including the PI-1S Workbook, process flow diagram, area map and plot plan, process description, and equipment specifications. The base fee of $900 and expedited fee of $3,000 have been paid through the TCEQ STEERS system.

2 PROCESS DESCRIPTION

Concrete is manufactured by combining sand, aggregates, cement and admixtures with water. The proposed concrete batch plant will be a stationary plant that receives these raw materials and produces "ready-mix" concrete.

Sand and aggregate materials are delivered to the facility via truck and stockpiled. Sand is stockpiled into a 60 ft x 60 ft x 30 ft pile (EPN: STK1), while the aggregate material is split into two stockpiles for smaller and larger aggregate, both also 60 ft x 60 ft x 30 ft (EPNs: STK2 and STK3). Other materials such as cement, fly ash, and admixtures used to change the properties of the concrete are also delivered to the plant via truck. Cement is stored primarily in the main plant silo (EPN: CS1). There are two additional auxiliary silos (EPNs: CS2, CS3) that are used if more than one type of cement is to be used in the production process. Each silo is equipped with a Donaldson-Torit Model TBV-2 bin vent dust collector on top of the silo capable of achieving 0.01 gr/dscf.

Sand and aggregate material are transferred into feed hoppers (EPNs: H1, H2, H3) by front loaders. From there, the materials are transferred by belt conveyors into three sand/aggregate weigh bins (EPNs: B1, B2, B3). When the other batch inputs are ready, the material is dropped from the weigh bins onto the main conveyor, which takes it to the truck loadout point.

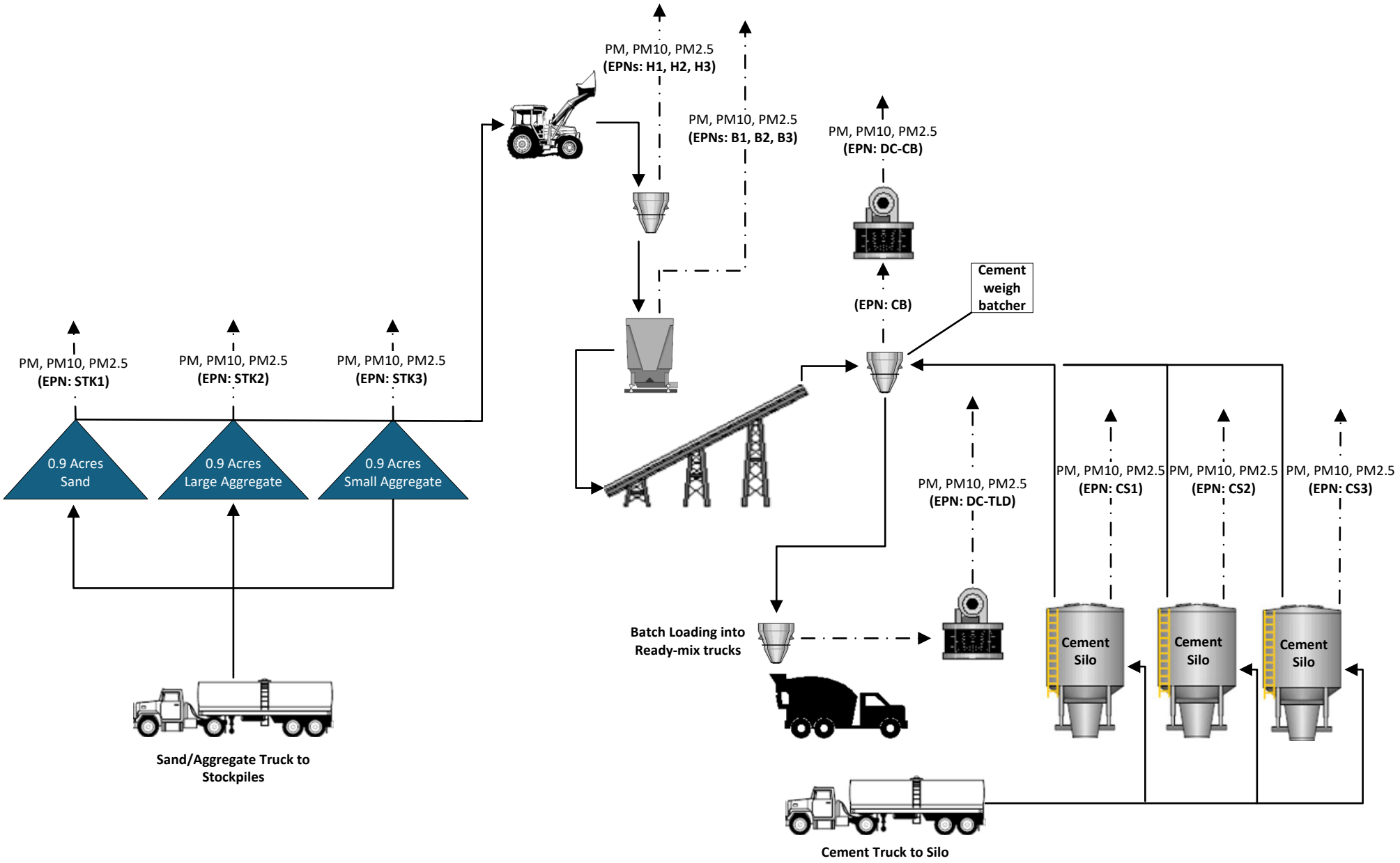
Cement is fed from the silos into the cement weigh batcher (EPN: CB). It has a 10-inch, flow-controlled inching gate as well as a transfer screw and a vibrator in order to create a constant and controllable flow of cement. The weigh batcher is controlled by a Donaldson-Torit Model CPV-1 dust collector (EPN: DC-CB) capable of achieving 0.01 gr/dscf.

A water surge bin is kept continually full by a float switch control. When the aggregate weigh bins are filled to the appropriate levels, and the cement and water adds have been weighed up at the cement weigh batcher, the discharge into the ready-mix truck can begin. The water begins discharging from the weigh bin into the truck through a 6" valve. At the same time all aggregates begin discharging onto the main plant conveyor belt. The plant computer controls the flow rate of each individual aggregate bin independently.

Typically, after lead water and a user defined percentage of aggregate has discharged, the cement will discharge into the truck at a user defined flow rate and should finish discharging before the aggregate. When the cement and aggregate discharge is completed, the remainder of the water is discharged and the batch is complete. Any emissions from the truck load out point are controlled by the central dust collector (EPN: CB-TLD), a Donaldson-Torit Model 9FS6 5,000 cfm dust collector capable of achieving 0.01 gr/dscf and 99.99% filter efficiency.

Please refer to the process flow diagram included in this application in order to follow the process description detailed above.

3 PROCESS FLOW DIAGRAM



Material Flow →

Emissions — · EPN · →

FIGURE

3

PROCESS FLOW DIAGRAM

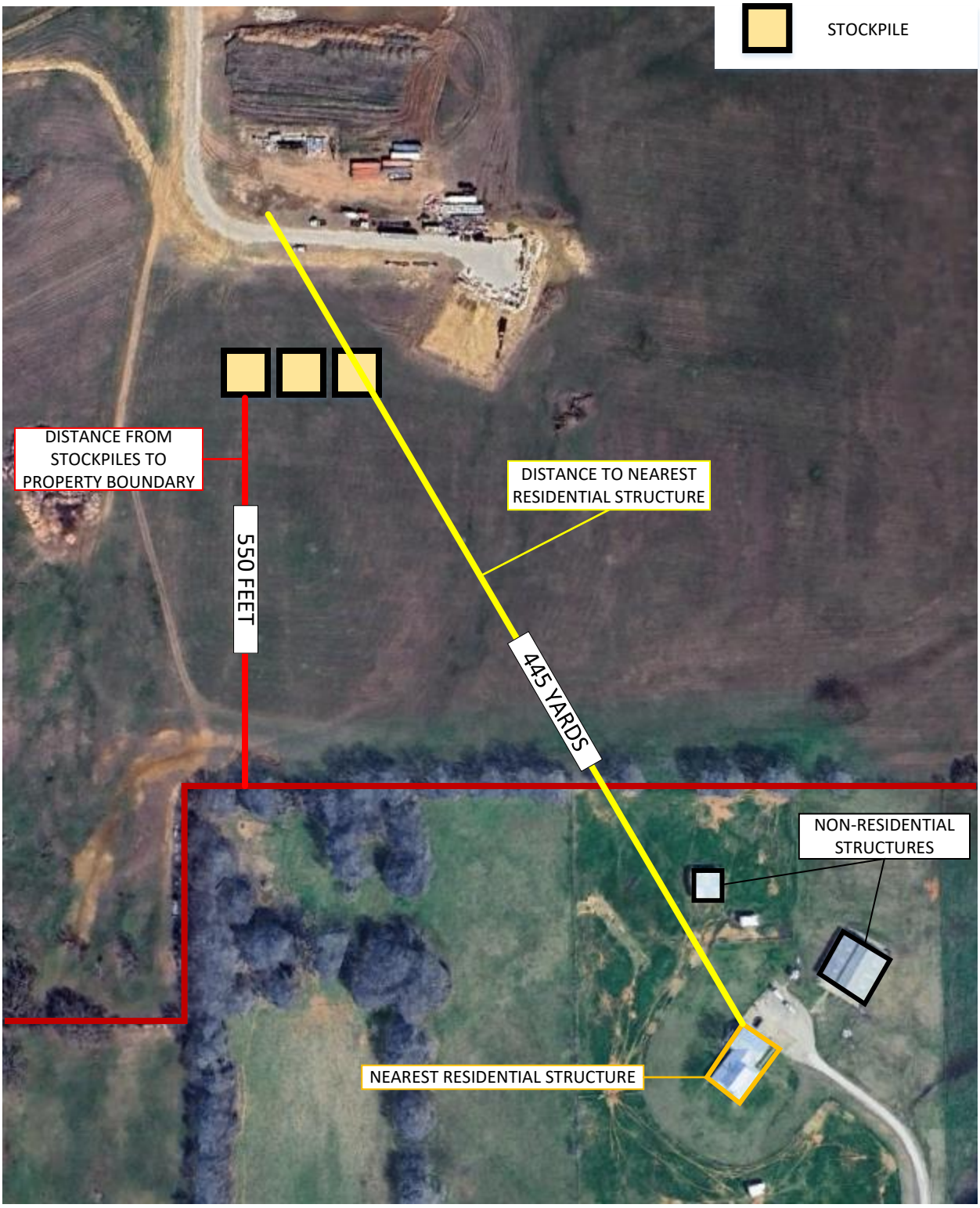
100X CONCRETE
10400 OSBURN ROAD,
PILOT POINT, TX 76258

RABA KISTNER, INC.
1011 W. LEWIS STREET
CONROE, TX 77301
281-210-0084
WWW.RKCI.COM

4 PLOT PLANS

SOURCE: GOOGLE EARTH
IMAGERY DATE: FEBRUARY 2025

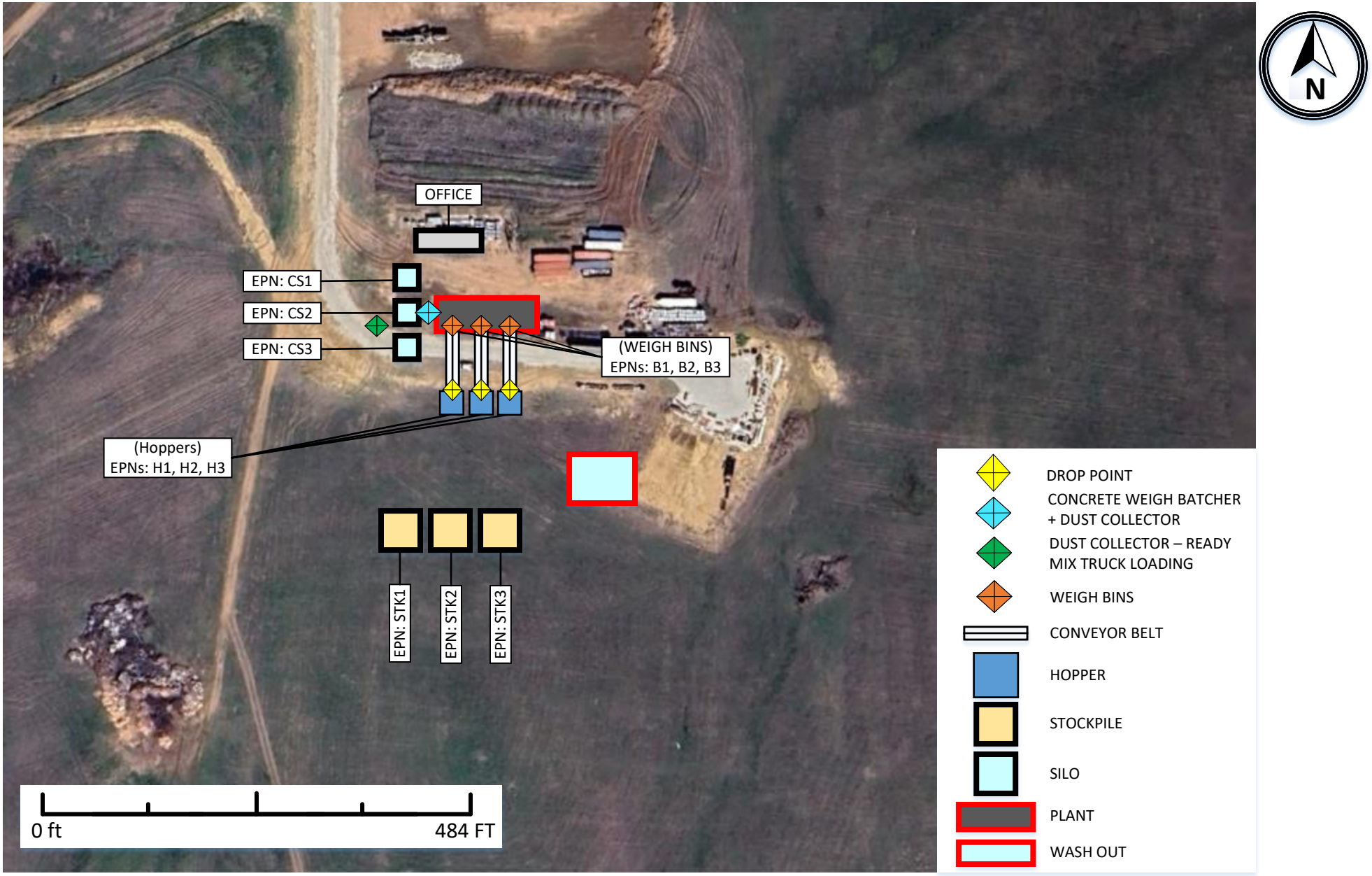
FIGURE	PLOT PLAN	
2A	100X CONCRETE, LLC 10400 OSBURN ROAD, PILOT POINT, TX 76258	**RABA KISTNER, INC.** 19111 NORTH DALLAS PWKY, SUITE 310 DALLAS, TX 75287 972-385-8069 WWW.RKCI.COM



SOURCE: GOOGLE EARTH
IMAGERY DATE: FEBRUARY 2025

0 ft — 692 ft

FIGURE	PLOT PLAN	RABA KISTNER, INC.
2B	100X CONCRETE, LLC 10400 OSBURN ROAD, PILOT POINT, TX 76258	19111 NORTH DALLAS PWKY, SUITE 310 DALLAS, TX 75287 972-385-8069 WWW.RKCI.COM



SOURCE: GOOGLE EARTH IMAGERY DATE: FEBRUARY 2025

FIGURE

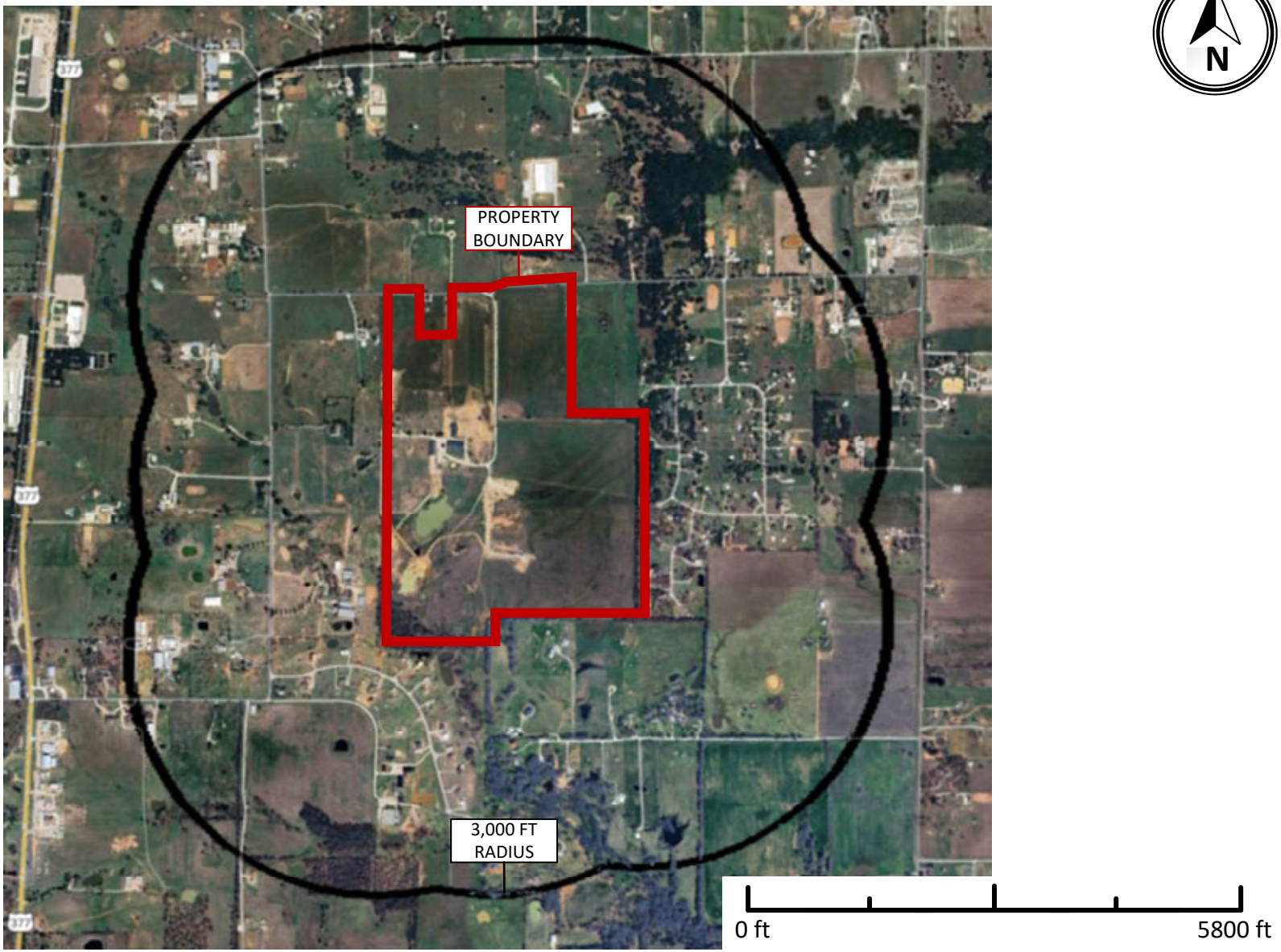
2C

PLOT PLAN

100X CONCRETE, LLC
10400 OSBURN ROAD,
PILOT POINT, TX 76258

RABA KISTNER, INC.
19111 NORTH DALLAS PWKY, SUITE 310
DALLAS, TX 75287
972-385-8069
WWW.RKCI.COM

5 AREA MAP



SOURCE: GOOGLE EARTH IMAGERY DATE: FEBRUARY 2025

FIGURE 1	AREA MAP 100X CONCRETE, LLC 10400 OSBURN ROAD, PILOT POINT, TX 76258	RABA KISTNER **RABA KISTNER, INC.** 19111 NORTH DALLAS PKWY, STE 310 DALLAS, TX 75287 972-385-8069 WWW.RKCI.COM

6 TCEQ FORMS

6.1 FORM 10400 – CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal *(Core Data Form should be submitted with the renewal form)*

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN		**RN**

SECTION II: Customer Information

4. General Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy)

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*

If new Customer, enter previous Customer below:

100X Concrete, LLC

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0805019431		931848894	

11. Type of Customer: ☒ Corporation ☐ Individual ☐ Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees

☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?

☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:	133 Dylan Drive Suite A						
	City	Prosper	**State**	TX	**ZIP**	75078	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
( ) -		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

100X Concrete, LLC

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	10400 Osburn Road							
	City	Pilot Point	**State**	TX	**ZIP**	76258	**ZIP + 4**	
24. County	Denton							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:	

26. Nearest City	State	Nearest ZIP Code

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	33.332244°N		28. Longitude (W) In Decimal:	-96.951352°W	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
3273		327320	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Production of ready-mix concrete

34. Mailing Address:	**133 Dylan Drive Suite A**							
	City	**Prosper**	**State**	**TX**	**ZIP**	**75078**	**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
( ) -		( ) -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Matthew Thomas	**41. Title:**	Environmental Scientist II

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(281 **)** 685-0766		**( )** -	mthomas@rkci.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	100X Concrete, LLC	**Job Title:**	President	
Name *(In Print):*	Carter Smith		**Phone:**	(949 **)** 939 - 0407
Signature:			**Date:**	

6.2 FORM 20871 – PI-1S-CBP WORKBOOK

Texas Commission on Environmental Quality
Form PI-1S-CBP
PI-1S-CBP

Date: March 15, 2025
Registration #: TBD
Company: 100X Brands, LLC

PI-1S Registrations for Air Standard Permit - Concrete Batch Plants

Click here to go back to the Cover sheet.

This sheet provides administrative information needed by the TCEQ.

Instructions:
1. Complete all applicable sections below.

Facilities in compliance with the new 2024 CBPSP amendment will continue to use this version (6.0) of the workbook.

Facilities applying for a renewal under the previous CBPSP rule will use the modified version (5.2) of the workbook.

I. Applicant Information

I acknowledge that I am submitting an authorized TCEQ application workbook and any necessary attachments. Except for inputting the requested data and adjusting row height and column width, I have not changed the TCEQ application workbook in any way, including but not limited to changing formulas, formatting, content, or protections.	I agree

A. Registration and Action Type **(only one permit and action may be selected with each form)**
Select the type of action requested using the dropdown. Options include Initial, Change of Representation, Initial (move to a new location), and Renewal.

Provide the assigned registration number and expiration date if they have been assigned.

All cells must be completed for change of representations.

Standard Permit and Description	Action Type Requested
6008 - Concrete Batch Plants with Enhanced Controls	Initial

Is a registered portable facility moving to a site for support of a public works project in which the proposed site is located in or contiguous to the right-of-way of the public works project? (Section 10(A)(i)-(ii) of Standard Permit 6004)	No
Is a registered portable facility moving to a site in which a portable facility was located at the site at any time during the previous two years and was the site subject to public notice? (Section 10(A)(i)-(ii) of Standard Permit 6004)	No

B. Company Information

Company or Legal Name:	100X Concrete, LLC

Registrations are issued to either the facility owner or operator, commonly referred to as the applicant or registration holder. List the legal name of the company, corporation, partnership, or person who is applying for the registration. We will verify the legal name with the Texas Secretary of State at (512) 463-5555 or at the link below:

https://www.sos.state.tx.us

Texas Secretary of State Charter/Registration Number (if given):	805019431
C. Company Official Contact Information: must not be a consultant	
Requested Information	**Response**
Prefix (Mr., Ms., Dr., etc.):	Mr.
First Name:	Carter
Last Name:	Smith
Title:	President
Mailing Address:	340 Trailside
Address Line 2:	
City:	Prosper
State:	TX
ZIP Code:	75078
Telephone Number:	949-939-0407
Fax Number:	
Email Address:	carter@100XBrands.com
Note: All correspondence and issued permit documents will be sent via e-mail within one business day of TCEQ's decision. Ensure that the e-mail address provided for the company official is the most appropriate to receive time-sensitive correspondence from the TCEQ.	
D. Technical Contact Information: This person must have the authority to make binding agreements and representations on behalf of the applicant and may be a consultant. **Additional technical contact(s) can be provided in a cover letter.**	
Requested Information	**Response**
Prefix (Mr., Ms., Dr., etc.):	Ms.
First Name:	Amelia
Last Name:	Hudson
Title:	Assistant Director, Compliance Planning
Company or Legal Name:	Raba Kistner, Inc.
Mailing Address:	19111 North Dallas Parkway
Address Line 2:	Suite 310
City:	Dallas
State:	TX
ZIP Code:	75287
Telephone Number:	972-385-8069
Fax Number:	
Email Address:	ahudson@rkci.com
E. Assigned Numbers The CN and RN below are assigned when a Core Data Form is initially submitted to the Central Registry. The RN is also assigned if the agency has conducted an investigation or if the agency has issued an enforcement action. If these numbers have not yet been assigned, leave these questions blank and include a Core Data Form with your application submittal. See Section VI.B. below for additional information.	
Requested Information	**Response**
Enter the CN. The CN is a unique number given to each business, governmental body, association, individual, or other entity that owns, operates, is responsible for, or is affiliated with a regulated entity.	
Enter the RN. The RN is a unique agency assigned number given to each person, organization, place, or thing that is of environmental interest to us and where regulated activities will occur. The RN replaces existing air account numbers. The RN for portable units is assigned to the unit itself, and that same RN should be used when applying for authorization at a different location.	

II. Delinquent Fees and Penalties	
Requested Information	**Response**
Does the applicant have unpaid delinquent fees and/or penalties owed to the TCEQ? This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ website at the link below:	No
https://www.tceq.texas.gov/agency/financial/fees/delin	

III. Registration Information	
A. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit	
Are there any other facilities at this site that are authorized by Exemption, PBR, or Standard Permit?	No

B. Other Air Preconstruction Permits	
Are there any other air preconstruction permits at this site?	No
C. Associated Federal Operating Permits	
Requested Information	**Response**
Is this facility located at a site required to obtain a **site operating permit (SOP)** or **general operating permit (GOP)?**	No

IV. Facility Location and General Information	
A. Location	
Requested Information	**Response**
County: Enter the county where the facility is physically located.	Denton
TCEQ Region	Region 4
Street Address:	10400 Osburn Road
City: If the address is not located in a city, then enter the city or town closest to the facility, even if it is not in the same county as the facility.	Pilot Point
ZIP Code: Include the ZIP Code of the physical facility site, not the ZIP Code of the applicant's mailing address.	76258
Site Location Description: If there is no street address, provide written driving directions to the site. Identify the location by distance and direction from well-known landmarks such as major highway intersections.	
B. General Information	
Requested Information	**Response**
Facility Name:	100X Concrete, LLC
Area Name: Must indicate the general type of operation, process, equipment or facility. Include numerical designations, if appropriate. Examples are Sulfuric Acid Plant and No. 5 Steam Boiler. Vague names such as Chemical Plant are not acceptable.	Concrete batch plant
Is the facility currently registered as a temporary facility in Texas?	No
Are there any schools located within 3,000 feet of the site boundary?	No
C. Type of Plant	
Type of plant	Permanent
Requested Information	**Response**
Serial number of the equipment to be authorized, if applicable:	
Serial number of the equipment to be authorized, if applicable:	
D. Industry Type	
Requested Information	**Response**
Principal Company Product/Business:	Ready-mix concrete production
Principal SIC code:	3273: Ready-Mixed Concrete
E. State Senator and Representative for this site	
This information can be found at the link below (note, the website is not compatible to Internet Explorer): https://wrm.capitol.texas.gov/	
Requested Information	**Response**
State Senator:	Brent Hagenbuch

District:	30
State Representative:	Jared Patterson
District:	106

F. County Judge and Presiding Officer

We must notify the applicable county judge and presiding officer when an application for a concrete batch plant is received. This information can be obtained at the link below:
https://www.txdirectory.com
Provide the information for the **County Judge** for the location where the facility is or will be located:

Requested Information	**Response**
The Honorable:	Andy Eads
Mailing Address:	1 Courhouse Drive
Address Line 2:	Suite 3100
City:	Denton
State:	TX
ZIP Code:	76208
Is the facility located in any municipality or an extraterritorial jurisdiction of any municipality?	No

V. Project Information

A. Description

Requested Information	**Response**
Provide a brief description of the project that is requested. (Limited to 500 characters).	100X intends to construct a permanent facility to produce "ready-mix" concrete.

B. Enforcement Projects

Requested Information	**Response**
Is this application in response to, or related to, an agency investigation, notice of violation, or enforcement action?	No

VI. Application Materials

All representations regarding construction plans and operation procedures contained in the registration application shall be conditions upon which the registration is issued. (30 TAC § 116.615)

A. Confidential Application Materials

Requested Information	**Response**
Is confidential information submitted with this application?	No

https://www.tceq.texas.gov/permitting/air/confidential.html

B. Is the Core Data Form (Form 10400) attached?	Yes

https://www.tceq.texas.gov/permitting/central_registry/guidance.html

Requested Information	**Response**
C. Is a current area map attached?	Yes
Is the area map a current map with a true north arrow, an accurate scale, the entire plant property, the location of the property relative to prominent geographical features including, but not limited to, highways, roads, streams, and significant landmarks such as buildings, residences, schools, parks, hospitals, day care centers, and churches?	Yes

Does the map show a 3,000-foot radius from the property boundary?	Yes
D. Is a plot plan attached?	Yes
Does your plot plan clearly show a north arrow, an accurate scale, all property lines, all emission points, buildings, tanks, process vessels, other process equipment, and two bench mark locations?	Yes
Does your plot plan identify all emission points on the affected property, including all emission points authorized by other air authorizations, construction permits, PBRs, special permits, and standard permits?	Yes
Did you include a table of emission points indicating the authorization type and authorization identifier, such as a permit number, registration number, or rule citation under which each emission point is currently authorized?	Yes
Does your plot plan clearly mark all distances to other property or structures to demonstrate compliance with all distance, setback, and buffer requirements?	Yes
E. Is a process flow diagram attached?	Yes
Is the process flow diagram sufficiently descriptive so the permit reviewer can determine the raw materials to be used in the process; all major processing steps and major equipment items; individual emission points associated with each process step; the location and identification of all emission abatement devices; and the location and identification of all waste streams (including wastewater streams that may have associated air emissions)?	Yes
F. Is a process description attached?	Yes
Does the process description emphasize where the emissions are generated, why the emissions must be generated, what air pollution controls are used (including process design features that minimize emissions), and where the emissions enter the atmosphere?	Yes
Does the process description also explain how the facility or facilities will be operating when the maximum possible emissions are produced?	Yes
G. Are details for each different filter system attached?	Yes
Is there a description of the principle operation for each different filter system?	Yes
Is there an assembly drawing (front and top view) of the abatement device drawn to scale clearly showing the design, size, and shape?	Yes

Texas Commission on Environmental Quality
Form PI-1S-CBP
6008Checklist

Date: March 15, 2025
Registration #: TBD
Company: 100X Brands, LLC

Concrete Batch Plant with Enhanced Controls Standard Permit Checklist - 6008

Click here to go back to the 6004 Checklist sheet.

This sheet provides information needed by the TCEQ to determine if the proposed project meets all of the requirements of the Standard Permit for Concrete Batch Plants with Enhanced Controls.

Instructions:
1. Review the standard permit requirements available at the end of this workbook, accessible through with the link below:
Air Quality Standard Permit for Concrete Batch Plants with Enhanced Controls
2. Complete all applicable sections below.

Type of operation	Ready Mix

Section 1: Administrative Requirements

Condition Number	Description	Response	Notes
(1)(A)-(E)	Will you meet all of the requirements of Section 1 of the Standard Permit regarding administrative requirements?	Yes	N/A

Section 2: Public Notice

Condition Number	Description	Response	Notes
(2)(A)-(F)	Will you meet all of the requirements of Section 2 of the Standard Permit regarding public notice?	Yes	N/A

Section 3: Design and Operating Requirements

Condition Number	Description	Response	Notes
(3)(A)	How will cement/fly ash storage silos and weigh hoppers be vented?	Cartridge filter system	N/A
(3)(B)(i)	Will the fabric/cartridge filter systems and suction shroud be operated properly with no tears or leaks?	Yes	N/A
(3)(B)(ii)	What is the outlet rate of the filter systems (gr/dscf), excluding the suction shroud filter system?	0.01	N/A
(3)(B)(iii)	Will all filter systems and mixer/truck loading control devices meet visible emissions performance standards?	Yes	N/A
(3)(B)(iv)	Will cement and/or fly ash silo filter exhausts be equipped with sufficient illumination to observe visible emissions performance if the silo(s) are filled during non-daylight hours?	Yes	N/A
(3)(C)(i)	Will conveying systems to and from the silos be totally enclosed and maintained with no tears or leaks?	Yes	N/A
(3)(C)(ii)	During cement/fly ash storage silo(s) filling, except for connecting or disconnecting, will visible emissions exist for more than 30 seconds in any five-minute period from the conveying system?	No	N/A
(3)(D)	What type of device will be installed to warn when silos are reaching capacity?	Automatic shut-off device and warning device	N/A
(3)(E)	Will each road, parking lot, or other area at the plant site that is used by vehicles be paved with a cohesive hard surface that will be properly maintained, cleaned, and watered so as to minimize dust emissions?	Yes	N/A
(3)(F)	How will emissions from stockpiles be minimized at all times? More than one may be selected using the following rows.	Sprinkled with water	N/A
	Select the second control method, if applicable.		N/A
(3)(G)	Will all material spills be immediately cleaned up and contained or dampened so dust emissions are minimized?	Yes	N/A
(3)(H)	What is the rate of concrete production on site? (yd^3/hr)	300	N/A
(3)(I)	What type of device will be installed at the batch drop point (or drum feed)?	Suction shroud	N/A
	What is the average filtering velocity of the fabric or cartridge filter system for the suction shroud or other pickup device (acfm)?	5,000	N/A
(3)(J)	What is the control efficiency of the bag filter and capture system? (as a percent)	99.9	N/A
(3)(K)(i)	What is the distance from the property line to the suction shroud baghouse exhaust (feet)?	810	N/A
(3)(K)(ii)	What is the distance from the property line to the nearest stockpile? (feet)	550	N/A

	What is the distance from the property line to the nearest piece of stationary equipment? (feet)	730	N/A
	What is the distance from the property line to the nearest area where vehicles will be used for the operation of the concrete batch plant (except for incidental traffic and the entrance and exit to the site)? (feet)	600	N/A
(3)(K)(iii)	Will the plant be located in an area subject to municipal zoning regulations?	No	N/A
	If there is no municipal zoning, what is the distance from the central baghouse to the nearest building used as a single or multifamily residence, school, or place of worship at the time your application is received by the commission? (yards)	445	N/A
(3)(L)(i)	Optional: what is the minimum height of the dust suppressing fencing along each road, parking lot, and other traffic areas? (feet)		N/A
(3)(L)(ii)	Optional: What is the minimum height of the three-walled bunker containing each stock pile above the stockpile? (feet)		N/A

Table 20: Concrete Batch Plants - Concrete Batch Plant Standard Permits

Click here to go back to the 6008 Checklist sheet.

This sheet provides information needed by the TCEQ to determine if the proposed project meets all of the requirements of the Standard Permit for Concrete Batch Plants.

Instructions:
1. Complete all applicable questions below.

Type of batching that will be accomplished	Truck Mix

Section 1: Maximum operating schedule

Requested Information	**Response**
What is the maximum hours per day?	7.5
What is the maximum days per week?	6
What is the maximum weeks per year?	52
What is the maximum hours per year?	2,158

Section 2: Aggregate Information

Requested Information	**Response**
Will sand and aggregate be washed prior to delivery at your site?	Yes
What is the total ground surface area of aggregate stockpiles? (acres)	0.25
Indicate where water sprays will be used, if applicable.	Stockpiles
Additional location for water sprays, if applicable.	
Additional location for water sprays, if applicable.	
Additional location for water sprays, if applicable.	

Section 3: Filter System Information

Requested Information	**Response**
How many filter systems will this plant have?	3
Will all filter systems be operated the same way?	No

Table 11: Fabric Filters - Concrete Batch Plant Standard Permits

Click here to go back to the Table20-CBP sheet.

This sheet provides information needed by the TCEQ to determine if the proposed project meets all of the requirements of the Standard Permit for Concrete Batch Plants.

Instructions:
1. Complete all applicable questions below.

Filter System 1

Requested Information	Response
EPN	**DC-TLD**
Manufacturer	Donaldson-Torit
Model Number	9FS6
List the sources being controlled	truck load point
Type of particulate controlled	PM/PM10/PM2.5, cement dust
Design maximum flow rate (acfm)	5000
Average expected flow rate (acfm)	5000
Particulate grain loading (grain/scf) - inlet	2.02
Particulate grain loading (grain/scf) - outlet	0.0002

Filter System 2

Requested Information	Response
EPN	**CS1, CS2, CS3**
Manufacturer	Donaldson-Torit
Model Number	TBV-2
List the sources being controlled	silos
Type of particulate controlled	PM/PM10/PM2.5, cement dust
Design maximum flow rate (acfm)	2000
Average expected flow rate (acfm)	2000
Particulate grain loading (grain/scf) - inlet	
Particulate grain loading (grain/scf) - outlet	0.01

Filter System 3

Requested Information	Response
EPN	**DC-CB**
Manufacturer	Donaldson-Torit
Model Number	CPV-1
List the sources being controlled	weigh batcher
Type of particulate controlled	PM/PM10/PM2.5, cement dust
Design maximum flow rate (acfm)	350
Average expected flow rate (acfm)	350
Particulate grain loading (grain/scf) - inlet	
Particulate grain loading (grain/scf) - outlet	0.01

Public Notice Information and Small Business Classification

Click here to go back to Table29-CBP Sheet

This sheet is intended to assist in this determination of public notice requirements and is not a replacement for 30 TAC Chapter 39 (Public Notice). **If you can see the page header, there are questions applicable to your project on this sheet.**

The THSC §382.05199 require that you publish a notice of application and public hearing. Notices must be published in a newspaper of general circulation in the municipality where the proposed facility is or will be located (not applicable to alternative language notices). Additional information regarding public notice such as an overview of requirements can be found at the link below:

https://www.tceq.texas.gov/permitting/air/bilingual/how1_2_pn.html
https://statutes.capitol.texas.gov/Docs/HS/htm/HS.382.htm#382.05199

Instructions:
1. Complete all questions below.

I. Public Notice Information

A. Contact Information

Enter the contact information for the **person responsible for publishing.** This is a designated representative who is responsible for ensuring public notice is properly published in the appropriate newspaper and signs are posted at the facility site. This person will be contacted directly when the TCEQ is ready to authorize public notice for the application.

Requested Information	Response
Prefix (Mr., Ms., Dr., etc.):	Mr.
First Name:	Carter
Last Name:	Smith
Title:	President
Company Name:	100X Concrete, LLC
Mailing Address:	340 Trailside
Address Line 2:	
City:	Prosper
State:	TX
ZIP Code:	75078
Telephone Number:	949-939-0407
Fax Number:	
Email Address:	carter@100XBrands.com

Enter the contact information for the **Technical Contact.** This is the designated representative who will be listed in the public notice as a contact for additional information.

Requested Information	Response
Prefix (Mr., Ms., Dr., etc.):	Ms.
First Name:	Amelia
Last Name:	Hudson
Title:	Assistant Director, Compliance Planning
Company Name:	Raba Kistner, Inc.
Mailing Address:	19111 North Dallas Parkway
Address Line 2:	Suite 310
City:	Dallas
State:	TX
ZIP Code:	75287
Telephone Number:	972-385-8069
Fax Number:	
Email Address:	ahudson@rkci.com

B. Public place

Place a copy of the full application (including all of this workbook and all attachments) at a public place in the county where the facilities are or will be located. You must state where in the county the application will be available for public review and comment. The location must be a public place and described in the notice. A public place is a location which is owned and operated by public funds (such as libraries, county courthouses, city halls) and cannot be a commercial enterprise. You are required to pre-arrange this availability with the public place indicated below. The application must remain available from the first day of publication through the designated comment period.

If the application is submitted to the agency with information marked as Confidential, you are required to indicate which specific portions of the application are not being made available to the public. These portions of the application must be accompanied with the following statement: ***Any request for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to the TCEQ Public Information Coordinator, MC 197, P.O. Box 13087, Austin, Texas 78711-3087.***

Requested Information	Response
Name of Public Place:	Pilot Point Community Library
Physical Address:	324 S Washington St
Address Line 2:	
City:	Pilot Point
ZIP Code:	76258
County:	Denton
Has the public place granted authorization to place the application for public viewing and copying?	Yes

C. Alternate Language Publication

In some cases, public notice in an alternate language is required. If an elementary or middle school nearest to the facility is in a school district required by the Texas Education Code to have a bilingual program, a bilingual notice will be required. If there is no bilingual program required in the school nearest the facility, but children who would normally attend those schools are eligible to attend bilingual programs elsewhere in the school district, the bilingual notice will also be required. If it is determined that alternate language notice is required, you are responsible for ensuring that the publication in the alternate language is complete and accurate in that language.

Requested Information	Response
Is a bilingual program required by the Texas Education Code in the School District?	Yes
Are the children who attend either the elementary school or the middle school closest to your facility eligible to be enrolled in a bilingual program provided by the district?	Yes
If yes to either question above, list which language(s) are required by the bilingual program?	Spanish
List second required language.	
List third required language.	
List fourth required language.	

III. Small Business Classification

Complete this section to determine small business classification. If a small business requests a permit, agency rules (30 TAC § 39.603(f)(1)(A)) allow for alternative public notification requirements if all of the following criteria are met. If these requirements are met, public notice does not have to include publication of the prominent (12 square inch) newspaper notice.

Requested Information	Response
Does the company (including parent companies and subsidiary companies) have fewer than 100 employees or less than $6 million in annual gross receipts?	No
Small business classification:	**No**

Fee Verification

Click here to go back to the Public Notice sheet.

This sheet is for requesting expedited permitting and determines application fee requirements for projects which require a fee. **If you can see the page header, there are questions applicable to your project on this sheet.**

Fees are due and payable at the time an application is filed. Required fees must be received before the agency will consider an application to be complete.

As of January 1, 2021, fees must be paid through ePay during the STEERS submitall process. Instructions for online payment through the ePay system can be found at the link below:

https://www3.tceq.texas.gov/epay/

Instructions:
1. Enter information related to the expedited permitting option.
2. If visible, enter payment information.
3. If applicable, submit the application under the seal of a Texas Licensed P.E.

I. Expedited Permitting Request	
Are you requesting to expedite this project?	Yes
Does the purpose of the application associated with this request to expedite benefit the economy of this state or an area of this state. If no, this project does not qualify for expedited permitting.	Yes
Surcharge amount due	$3,000.00
Surcharge amount paid	$3,000.00
Enter the check, money order, ePay Voucher, or other transaction number. Enter "STEERS" if submitting and paying through STEERS.	STEERS

Unless submitting through STEERS, you must also submit the Form APD-APS Air Permitting Surcharge Payment to the TCEQ Cashier's office, link to the form below:

https://www.tceq.texas.gov/publications/search_forms.html

II. Application Fee	
All standard permit types and actions (unless the facility meets the requirements of being in or adjacent to the right of way of a public works project)	$900.00

III. Payment Information	
Was the fee paid online?	Yes
Enter the fee amount	$ 900.00
Enter the check, money order, ePay Voucher, or other transaction number. Enter "STEERS" if submitting and paying through STEERS.	STEERS
Enter the company name as it appears on the check	

IV. Professional Engineer Seal Requirement	
Is the estimated capital cost of the project above $2 million?	Yes
Is this project subject to an exemption contained in the Texas Engineering Practice Act (TEPA)? (30 TAC § 116.110(f))	Yes
Is the application required to be submitted under the seal of a Texas licensed P.E.? Note: an electronic PE seal is acceptable.	No

Where to Submit this Application

Click here to go back to the Fees sheet.

This worksheet is for informational purposes only. No data is required and you do not need to print this sheet.
This worksheet provides guidance on where to send copies of the application materials.

Submittal Instructions:
1. Submit application materials as indicated below. Processing delays will occur if copies are not sent as noted.
2. Retain a copy for your records.
3. Indicate to whom copies have been sent on the cover letter of any subsequent correspondence.

Subsequent Submittal Instructions:
4. All subsequent correspondence should be copied to the TCEQ regional office and local air pollution control program(s), as appropriate.
5. Indicate the assigned registration number(s), RN, CN, and permit reviewer, if known, on all subsequent correspondence.
6. A copy of all application materials must be maintained on-site. For sites that normally operate unattended, a copy must be maintained at an office within Texas that has operational control of the site.

Notes:
- **Submittal through STEERS is required as of January 1, 2021.**
- All application and application attachments for APD must be submitted electronically.

Who	Where	When	What
Air Permits Division Air Permits Initial Review Team (APIRT)	Submit the application through STEERS following the instructions on the Cover sheet.	All applications	Application (including this PI-1S-CBP application workbook and required attachments)
Financial Administrative Division, Revenue Operations Section	ePay	All applications	Permit fee and expedited processing surcharge, if expedited processing is requested
Region 4	2309 Gravel Dr., Fort Worth, TX 76118-6951	All applications with updates since original submittal	Copies of updated application materials (such as updated workbook or attachments) -- Note, original materials are automatically sent by STEERS
Local Air Pollution Control Program(s)	To find your local air pollution control programs go to the link below.	All applications with updates since original submittal in an area having jurisdiction	Copies of updated application materials (such as updated workbook or attachments) -- Note, original materials are automatically sent by STEERS

Links

Destination	Link
TCEQ Regional Offices	https://www.tceq.texas.gov/agency/directory/region
Local Air Pollution Control Programs	https://www.tceq.texas.gov/permitting/air/local_programs.html

Air Quality Standard Permit for Concrete Batch Plants with Enhanced Controls

Click here to go back to the 6004 Requirements sheet.

Effective Date August 16, 2004

All of the following applicable requirements must be met to obtain a Concrete Batch Plant with Enhanced Controls Standard Permit registration. No data is required on this sheet.

This air quality standard permit authorizes concrete batch plant facilities which meet all of the conditions listed in sections (1) through (3).

1 Administrative Requirements

A Any concrete batch plant authorized under this standard permit must be registered in accordance with 30 TAC § 116.611, Registration to Use a Standard Permit. Owners or operators must submit a completed current PI-1S-CBP, Table 20 and a Concrete Batch Plant with Enhanced Controls Standard Permit checklist and a scaled plot plan of the plant site. Facilities which meet the conditions of this standard permit do not have to meet the emissions and distance limitations listed in 30 TAC § 116.610(a)(1), Applicability.

B Registration applications must comply with 30 TAC § 116.614 “Standard Permit Fees.”

C No owner or operator of a concrete batch plant is permitted to begin construction and/or operation without obtaining written approval from the executive director. The time period in 30 TAC § 116.611(b) (45 days) does not apply to facilities registering under this permit. Start of construction of any facility registered under this standard permit must comply with 30 TAC § 116.120 and commence construction within 18 months of written approval from the TCEQ.

D Applicants are not required to submit air dispersion modeling as a part of any concrete batch plant standard permit application.

E The following production records must be maintained on site for a rolling 24-month period while the plant is in operation:
- (i) production rates for each hour of operation demonstrating compliance with (3)(H); and
- (ii) other records as required by 30 TAC 101.201 and § 101.211.

F For the purposes of this standard permit, a “site” is defined as one or more contiguous or adjacent properties which are under common control of the same person (or persons under common control).

2 Public Notice

A An application for authorization to construct and operate a concrete batch plant under this standard permit is not subject to the public notice requirements in 30 TAC Chapter 39 Subchapters H & K.

B For authorization to use this standard permit, an applicant must publish notice under this section not later than the earlier of:
- (i) the 30th day after the date the applicant receives written notice from the executive director that the application is technically complete; or
- (ii) the 75th day after the date the executive director receives the application.

C The applicant must publish notice at least once in a newspaper of general circulation in the municipality in which the plant is proposed to be located or in the municipality nearest to the proposed location of the plant. If the elementary or middle school nearest to the proposed plant provides a bilingual education program as required by Subchapter B, Chapter 29, Education Code, the applicant must also publish the notice at least once in an additional publication of general circulation in the municipality or county in which the plant is proposed to be located that is published in the language taught in the bilingual education program. This requirement is waived if such a publication does not exist or if the publisher refuses to publish the notice.

D The notice must include:
- (i) a brief description of the proposed location and nature of the proposed plant;
- (ii) a description, including a telephone number, of the manner in which the executive director may be contacted for further information;
- (iii) a description, including a telephone number, of the manner in which the applicant may be contacted for further information;
- (iv) the location and hours of operation of the commission's regional office at which a copy of the application is available for review and copying; and
- (v) a brief description of the public comment process, including the time and location of the public hearing, and the mailing address and deadline for filing written comments.

E The public comment period begins on the first date notice is published under Subsection (2)(B) and extends to the close of the public hearing.

F A public hearing must be held not less than 30 days and not more than 45 days after the first date notice is published under Subsection (2)(B). The public hearing must be held in the county in which the plant is proposed to be located.

G A public hearing held under this standard permit is not an evidentiary proceeding. Any person may submit an oral or written statement concerning the application at the public hearing.

H Not later than the 35th day after the date the public hearing is held, the executive director will approve or deny the application for authorization to use the standard permit. The executive director must base the decision on whether the application meets the requirements of this standard permit. The executive director must consider all comments received during the public comment period and at the public hearing in determining whether to approve the application. If the executive director denies the application, the executive director must state the reasons for the denial and any modifications to the application necessary for the proposed plant to qualify for the authorization.

I The executive director will issue a written response to any public comments received related to the issuance of an authorization to use the standard permit at the same time as or as soon as practicable after the executive director grants or denies the application. Issuance of the response after the granting or denial of the application does not affect the validity of the executive director's decision to grant or deny the application. The executive director will:
- (i) mail the response to each person who filed a comment; and
- (ii) make the response available to the public.

3 Design and Operating Requirements

A Each cement/fly ash storage silo and weigh hopper must be equipped with a fabric or cartridge filter or vented to a fabric or cartridge filter system.

B Fabric or cartridge filters and collection systems must meet all of the following:
- (i) each fabric filter or cartridge filter, and its associated collection system, and any suction shroud must be maintained and operated properly with no tears or leaks;
- (ii) excluding the suction shroud filter system, each filter system must be designed to meet an outlet grain-loading standard of at least 0.01 grains/dry standard cubic foot;
- (iii) each filter system and each mixer-loading and batch truck-loading emissions control device must meet a performance standard of no visible emissions exceeding 30 seconds in a five-minute period as determined using United States Environmental Protection Agency Test Method 22 as that method existed on September 1, 2003;
- (iv) if a cement or fly ash silo is filled during non-daylight hours, the silo filter system exhaust must be sufficiently illuminated to enable a determination of compliance with the performance standard described by (3)(B)(iii) of this permit;

C Conveying systems for the transfer of cement or fly ash must meet all of the following:
(i) the conveying system for the transfer of cement or fly ash to and from each storage silo must be totally enclosed, operated properly, and maintained without any tears or leaks; and
(ii) except during cement or fly ash tanker connection or disconnection, each conveying system for the transfer of cement or fly ash must meet the performance standard described in paragraph (3)(B)(iii) of this permit.

D A warning device must be installed on each bulk storage silo.
(i) The warning device must be designed to alert the operator in sufficient time for the operator to stop loading operations before the silo is filled to a level that may adversely affect the pollution abatement equipment; and
(ii) if filling a silo results in failure of the pollution abatement system or failure to meet the performance standard described by paragraph (3)(B)(iii) of this standard permit, the failure must be documented and reported to the commission following the requirements of 30 TAC § 101.201 or § 101.211, as appropriate.

E Each road, parking lot, or other area at the plant site that is used by vehicles must be paved with a cohesive hard surface that is properly maintained, cleaned, and watered so as to minimize dust emissions.

F Each stockpile must be sprinkled with water or dust-suppressant chemicals or covered so as to minimize dust emissions.

G Material used in the batch that is spilled must be immediately cleaned up and contained or dampened so as to minimize dust emissions.

H The production of concrete at the site must not exceed 300 cubic yards per hour.

I A suction shroud or other pickup device must be installed at the batch drop point or, in the case of a central mix plant, at the drum feed, and vented to a fabric or cartridge filter system with a minimum capacity of 5,000 cubic feet per minute of air.

J The bag filter and capture system must be properly designed to accommodate the increased flow from the suction shroud and achieve a control efficiency of at least 99.5 percent.

K The following distance limitations must be met:
(i) the suction shroud baghouse exhaust must be more than 100 feet from any property line;
(ii) stationary equipment, stockpiles, and vehicles used at the plant, except for incidental traffic and vehicles as they enter and exit the site, must be located or operated more than 100 feet from any property line; and
(iii) if the plant is located in an area that is not subject to municipal zoning regulation, the central baghouse must be located at least 440 yards from any building used as a single or multifamily residence, school, or place of worship at the time the standard permit registration is filed with the commission.

L In lieu of meeting the distance requirements for roads and stockpiles of (3)(K)(ii), the following must be followed:
(i) each road, parking lot, and other traffic area is bordered by dust-suppressing fencing or another barrier at least 12 feet high; and
(ii) each stockpile located within the applicable distance of a property line is contained within a three-walled bunker that extends at least two feet above the top of the stockpile.

6.3 FORM 20960 – PUBLIC INVOLVEMENT PLAN FORM

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☒ New Permit or Registration Application

☐ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☒ Requires public notice,

☐ Considered to have significant public interest, **and**

☒ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Significant public interest is not expected.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

(City)

(County)

(Census Tract)
Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

7 PLAIN LANGUAGE SUMMARIES

Plain Language Summary for Concrete Batch Plant Standard Permit Application for Concrete Batch Plant Standard Permit with Enhanced Controls Registration Number [XXXXXX]

The following summary is provided for this pending air permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 3. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

100X Concrete, LLC (CNXXXXXXXXX) has submitted an application to register a permanent concrete batch plant under the Air Quality Standard Permit for Concrete Batch Plants with Enhanced Controls for registration number XXXXXX. The concrete batch plant (RNXXXXXXXXX) will be located at 10400 Osburn Road, Pilot Point, Denton County.

This registration will authorize the concrete batch plant to have a maximum production rate of 300 cubic yards per hour of concrete and operate up to 2,158 hours per year. Particulate matter will be emitted from the handling of aggregate, cement, and flyash. Roads and traffic areas will be controlled by paving them to control dust. Dust from stockpiles will be minimized by watering. Enclosures and baghouses will be used to control cement and flyash dust.

Resumen en Lenguaje Sencillo del Permiso Estándar para Plantas de Hormigón Solicitud de Permiso Estándar con Controles Mejorados para Plantas de Hormigón Número de Registro [XXXXXX]

El siguiente resumen se proporciona para esta solicitud de permiso de aire pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas, según lo dispuesto en el capítulo 39 del Código Administrativo de Texas. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no son representaciones federales ejecutables de la solicitud de permiso.

100X Concrete, LLC (CNXXXXXXXXX) ha presentado una solicitud de registro de permanente planta de hormigón en virtud del Permiso de la Norma de Calidad del Aire para Plantas de Hormigón con controles mejorados para el número de registro XXXXXX. La planta de hormigón (RNXXXXXXXXX) se ubicará en 10400 Osburn Road, Pilot Point, Denton Condado.

Este registro autorizará a la planta de hormigón a tener una producción máxima de 300 yardas cúbicas por hora de hormigón y a operar hasta 2,158 horas al año. Se emitirán partículas por la manipulación de áridos, cemento y cenizas volantes. Las carreteras y las zonas de tráfico se controlarán pavimentándolas para controlar el polvo. El polvo de los acopios se reducirá al mínimo mediante para regando. Para el control del polvo de cemento y cenizas volantes se utilizarán cerramientos y filtros de mangas.

8 PLANT EQUIPMENT SPECIFICATIONS

CEMCO

Model 300

Specification Sheet

Contents

Cemco Model 300 Technical Specifications 1

Aggregate Handling 1

2-bin Aggregate Storage 1

3-bin Aggregate Storage 1

4-bin Aggregate Storage 1

Aggregate Gate Control 1

Water Handling 2

Water Pump 2

Water Storage and Transfer 2

Cement Handling 2

Cement Storage and Transfer 2

Cement Weigh Batch Auger Specifications 2

Scale Capacities and Functionality 3

NTEP approved scale capacities 3

Scale Weighing Method 3

Transfer Conveyors 3

Transfer Conveyor Specifications 3

Pneumatic System 3

Standard Pneumatic Functions 4

Dust Collection 4

Donaldson TBV-2 Silo Top Dust Collector 4

Donaldson CPV-1 Cement Weigh Batcher Dust Collector 4

Donaldson 9FS6 Load Point Dust Collector 5

Plant Power 5

Plant Production 5

Cemco Model 300 Technical Specifications

The Cemco Model 300 is completely portable with leveling cylinders on all four corners of the unit and a self-erecting 58 silo. The plant is completely self-contained, powered by an on board 173 Horsepower John Deere Diesel Engine.

Aggregate Handling

The Plant can be configured with 2, 3, or 4 aggregate bins. Additional 12 cubic yard automatic feeder conveyors may be added per aggregate bin.

2-bin Aggregate Storage	
Aggregate Storage Bin	**Storage (cubic yards)**
Sand	13 [35,000 lbs]
Rock	15 [40,000 lbs]
3-bin Aggregate Storage	
Aggregate Storage Bin	**Storage (cubic yards)**
Sand	13 [35,000 lbs]
Rock 1	15 [40,000 lbs]
Rock 2	15 [40,000 lbs]
4-bin Aggregate Storage	
Aggregate Storage Bin	**Storage (cubic yards)**
Sand	13 [35,000 lbs]
Rock 1	15 [40,000 lbs]
Rock 2	15 [40,000 lbs]
Rock 3	15 [40,000 lbs]

Note: An additional 12 cubic yards can be added per aggregate bin by utilizing the automatic aggregate feeder conveyors or a one load multi-agg feeder.

Aggregate Gate Control		
Aggregate Storage Bin	**Gate Area (in^2)**	**Flow Control**
Sand	312	Hydraulic inching clam gate*
Rock 1, 2, or 3	364	Hydraulic inching clam gate

*Sand bin also has a computer controlled vibrator in order to foster flow

Water Handling

The Model 300 Cemco Plant includes a hydraulically driven water pump which pushes water into an overhead water storage bin. The plant is hard wired to keep the storage tank full without operator interference. From the storage tank, water is gravity fed via a 6 inch, pneumatically actuated butterfly valve.

Water Pump	
Brand	**Rated Maximum Flow**
2 inch hydraulically driven water pump	200 GPM (750 LPM)

Water Storage and Transfer		
Water Storage Bin	**Capacity**	**Butterfly Gate size**
Overhead Water Storage Tank	600 Gallons (2300 Liters)	6 inch
Water Weigh Batcher	400 Gallons (1500 Liters)	6 inch

Cement Handling

The Model 300 batch plant includes a self-erecting silo which feeds a cement weigh batcher via a 12-inch butterfly valve. The Cemco cement weigh batcher has a 10 inch flow controlled inching gate as well as a transfer screw and a vibrator in order to create a constant and controllable flow of cement based upon the users desired flow rate. In addition, aerators and a vibrator are included on the silo to increase weigh up speed. In the case of a clump in the cement silo, a guillotine plate and cutout have been provided so that the silo gate may be removed without cement spillage.

Cement Storage and Transfer		
Cement Silo/Weigh batcher	**Capacity**	**Butterfly Gate size**
Silo (self-erecting)	(1300 ft^3) 58 ton	12 inch
Silo EXT (self-erecting)	(1900 ft^3) 75 ton	12 inch
Silo SS (self-erecting)	(1300/864 ft^3) 58/35 ton	10”-40% & 12”-60%
Cement Weigh Batcher	(129 ft^3) 5 tons	10 inch inching gate

*The batch plant comes standard with one 4” fill pipe. Additional fill pipes may be added.

Cement Weigh Batch Auger Specifications	
dimension (length x diameter)	50” x 10”
Max Motor Torque	8300 lbs·in (938 N·m)
Auger RPM (variable speed)	0-320 based upon hydraulic flow

*The auger does not have to be running for cement to flow out of the gate; it simply helps maintain constant flow.

Scale Capacities and Functionality

The Model 300 NTEP Certificate No. is 99-029.

NTEP approved scale capacities			
Scale	**Nominal Capacity (lbs.)**	**Load Cell Capacity (lbs.)**	**Grad Size (lbs.)**
Water	3,500	5,000	1
Cement	10,000	15,000	5
Aggregate	40,000	60,000	10

Scale Weighing Method	
Scale	**Accumulative/Decumulative**
Water	Accumulative
Cement	Accumulative
Aggregate	Decumulative*

*If automatic aggregate feeder conveyors are used, then the Aggregate scales can accumulate

Transfer Conveyors

All transfer conveyors are hydraulically driven. As such, they can start under full load and their speeds are easily adjustable.

Transfer Conveyor Specifications			
Belt Location	**Torque**	**Belt Speed**	**Belt Width**
Plant Conveyor	19560 lbs·in (2210 N·m)	0-400 ft./min	30 inches*
Aggregate Feed Conveyor	10475 lbs·in (1184 N·m)	0-400 ft./min	30 inches

*36 inch plant conveyors are an option

Pneumatic System

The Batch plant has an engine mounted, belt driven 73 CFM screw compressor which supplies air for all pneumatic functions. Air runs from the compressor to an 80-gallon storage tanks mounted ~40’ down the plant frame (distance varies depending on model) in order to cool the air. SMC filtration and water separation devices are installed after the tank in order to treat air that is to be supplied to the primary pneumatic valve bank.

Standard Pneumatic Functions	
Function	**Air Consumption if used continuously**
Silo Dust Collector Pulse Jets	10 CFM @ 87 psi
Cement Weigh Batcher Dust Collector Pulse Jets	5 CFM @ 87 psi
Vibrators	10 CFM @ 87 psi
Vibra-Pad Aerators (pulsing)	10-15 CFM @ 7-15 psi
Central Dust Collector*	5-12 CFM @ 90-100 psi

*The 5,000 CFM Central Dust Collector is an option and comes silo mounted (does not need separate trailer and does not affect the portability of the plant)

Dust Collection

Cemco batch plants come standard with a silo top and cement weigh batcher dust collectors. As an option, a load point dust collector may be purchased. As a standard, Cemco uses the collectors outlined below; however, Cemco may elect to use a different unit and/or supplier as needed. For the specific plant, you must contact Cemco to ensure you have the correct permit information.

Donaldson TBV-2 Silo Top Dust Collector	
Cartridge Area	452 ft.^{2}
Cartridge Material / weave	100% Polyester spunbond
Efficiency	>99.9%
Method of Cleaning	Pulse Jet
Maximum Capacity	2,000 ACFM
Collection Type	Venting

Donaldson CPV-1 Cement Weigh Batcher Dust Collector	
Cartridge Area	63 ft.^{2}
Cartridge Material / weave	100% Polyester spunbond
Efficiency	>99.9%
Method of Cleaning	Pulse Jet
Maximum Capacity	350 ACFM
Collection Type	Venting

Cemco's optional central dust collector is a Donaldson 9FS6. The dust collector does not have any effect on portability as it pulls with the plant and is mounted directly to the silo. When the silo self erects the dust collector rises along with it. The dust collector is mounted on the bottom portion of silo in between the plant frame and the conveyor belt.

The Central Dust Collector is hardwired to collect dust whenever a load is discharging. During the next load's weigh up, dust from the previous load is deposited into the cement weigh batcher. In this manner the central dust collector's filters are cleaned every time a batch is weighed up. In addition, pulse jets should be operating while the unit is collecting in order to fully clean the filters.

Donaldson 9FS6 Load Point Dust Collector	
Cartridge Area	558 ft.^{2}
Cartridge Material / weave	100% Polyester spunbond
Efficiency	>99.9%
Method of Cleaning	Pulse Jet
Normal Air Capacity	5,000 CFM
Collection Type	Blower (Suction)

Plant Power

The Cemco Model 300 utilizes a factory mounted 173 Horsepower John Deere Tier IV Industrial Diesel engine. The engine has a 120-amp alternator which sustains the plant's 12VDC power system. All functions aside from the 120 VAC silo high level indicators and dust collector pulse jets operate via 12 VDC. In order to run the operating system and few 120 VAC functions a dedicated 20 amp 120 VAC circuit is necessary.

As an option, Cemco plants may be purchased with a 100HP electric motor in lieu of the 173HP diesel motor. Also, both power packs may be purchased for the ability to run off electricity or diesel depending on job constraints. Please consult the factory for additional information.

Plant Production

The Cemco model 300 is rated at 300 cubic yards per hour. This rating is based upon a 2:24 cycle time with 12 yard mixer trucks. The plant is fully capable of delivering a load as quickly as any truck can take it, and therefore, plant production is ultimately limited by the maximum truck feed rate and the time it takes for a loaded truck to leave and the next truck to get in place for a load. When continually batching, the plant can have the next load ready while trucks are transferring. On the high end of the production scale, Cemco has customers who routinely dry batch at 220+ cubic yards per hour sustained for many consecutive hours.

DATA SHEET

Bottom Load Pleated Filter Element for Donaldson FS

Bottom load style pleated filter element .
Fits Donaldson Series FS dust collectors (Models FSD, VSD, RSD) with bottom load venturi connection.
Longer polyurethane top boot accommodates the venturi bell mouth.
Replaces 6.0” nominal diameter bag and cage assembly.

Standard Configuration

- 3.6” (91-mm) inner core diameter
- 1.0” (25-mm) nominal pleat depth
- Standard Pleat Count – 45 Pleats
- Molded top boot and bottom puck made from bright white soft polyurethane rated to 225°F
- Polyurethane, polypropylene and polyester components are safe for food contact

Configuration Options

- Special pleat counts (Available range: 35 – 60 pleats)
- Polypropylene Core – Rated to 180°F
- Galvanized and SS Perforated Metal (Spiral Formed) – For temperatures >180°F and for high pressure / vacuum applications.
- Grounded designs (with conductive media, metal core and stainless steel grounding wire extensions).

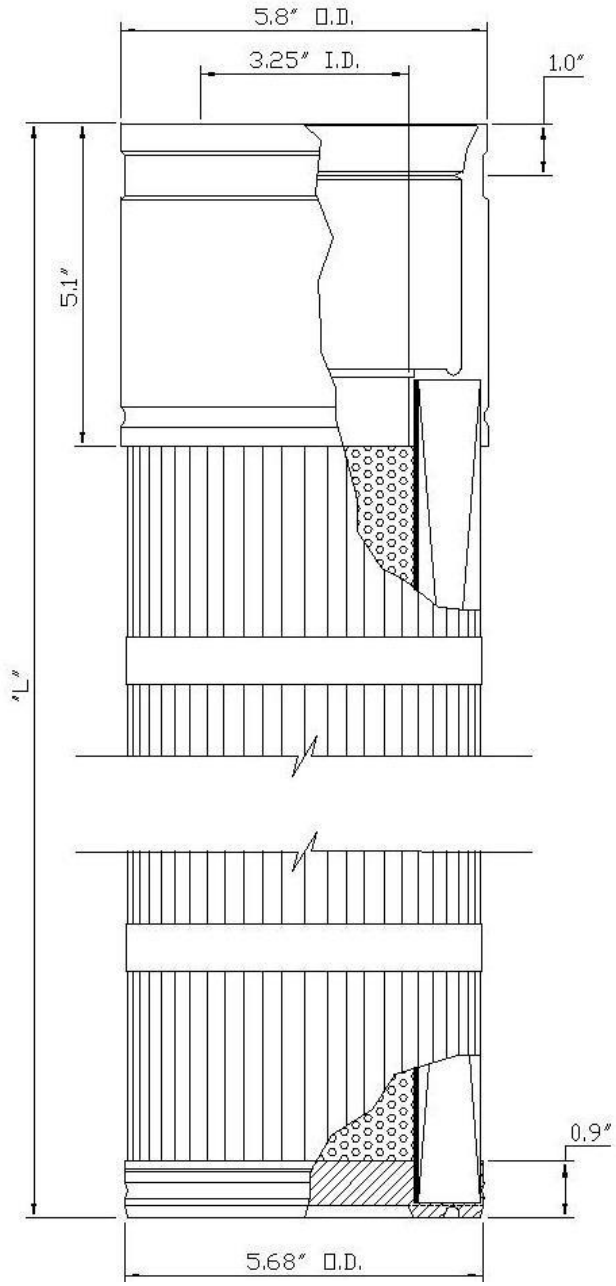
Filter Media

- Base filter media: Ultra-Web on spunbond polyester (UWSB)
- Weight: 8.0 oz/yd2 (260 g/m2)
- Permeability: 15-30 acfm Frazier permeability at 0.5” w.g. dP
- Mullenburst Stength: 350 psi

Media Options

100% spunbond polyester with Ultra-Web (UW SB)
100% spunbond polyester (SB)
100% SB with hydrophobic & oleophobic finish
100% SB with conductive grid
100% SB with ePTFE membrane
100% SB with conductive grid & ePTFE membrane

Nominal Length	Overall Length “L”	Filter Area (sf) @ 45 Pleats	No. of Straps
0.5 m	23.9”	12.3	1
1.0 m	43.6”	24.6	3
1.4 m	59.3”	34.5	4
2.0 m	83.0”	49.2	6



Tel 800-365-1331 (USA)
Tel 800-343-3639 (within Mexico)
DonaldsonTorit@DonaldsonTorit.com
DonaldsonTorit.com

Donaldson Company Inc.

P.O. Box 1299, Minneapolis, MN 55440

800.365.1331 Tel / 952.887.3054 Fax

www.donaldsontorit.com

Air Permit Work Sheet for DCI Dust Collector

Dust Collector Model No	9FS6
Type of Collector	Central
Cleaning Mechanism	Pulse Jet w/adjustable timer
Fan Included	Y
Collector Flow Rate	5,000 acfm
Filter Material	Spunbond Polyester
Filter Efficiency	99.99
Filter Media Max Pressure Drop	10 in H20
Total Area of Filter Media	558 sqft
Nominal Filter Diameter	6 in
Nominal Filter Length	78 in
Quantity of Filters	9
Number of Compartments	1
Number of Filters per Compartment	9
Filtering Velocity	8.96 acfm / ft2 of cloth
Maximum concrete production	275 yds/hr
Number of fill lines	0
Application Flow Rate	5,000 acfm
Type of Particulate Controlled	3. cement & flyash
Name of Source(s) or Equipment being Controlled	04. Truck Mix Loading (Shroud)
Total Number of hours of operation per year	0 hr/yr
Outlet Area	1.23 ft2
Outlet Velocity	67.75 ft/s

	PM Inlet	PM Outlet	PM 10 Inlet	PM 10 Outlet	PM 2.5 Inlet	PM 2.5 Outlet	
Particulate Grain Loading **	2.02125	0.000202125	0.56467	0.000056467	ND*	ND*	grains / scf
Particulate Emissions **	86.62500	0.0086625	24.20000	0.0024200	ND*	ND*	lbs / hr
Particulate Emissions **	0.00000	0.000000	0.00000	0.000000	ND*	ND*	tons / yr

**Please see attached DCI Emissions Statement

*ND= No Data

Technical Data Sheet

Filter Media:	Spunbond
Construction:	100% Polyester spunbond media with point bond finish
Color:	White
Weight (nominal):	7.7 oz/yd² (260 g/m²)
Thickness (nominal):	0.024 inch (0.66 mm)
Permeability:	18 – 26 ft³/ft²/min @ 0.5" H_2O – ASTM D 737 9.1 – 13.2 cm³/cm²/sec @ 125 Pa – ASTM D 737 86 – 125 l/dm²/min @ 200 Pa – DIN 53887
Max. Operating Temperature:	250°F (121°C)
Tensile Strength (nominal):	200 lbs/2-in. strip (91 kg/5 cm strip) – MD 125 lbs/2-in. strip (57 kg/5 cm strip) – CMD
Mullen Strength (nominal):	350 lbs/in² (24.6 kg/cm²)
Dust Release Properties:	Very Good
Filtration Efficiency:	> 99.9% for particle size range between 0.2 µ > 2.0 µ
BGIA-Filter Class:	"M" – pet Test Method: DIN EN 60335-2-69
FDA Conformity:	FDA – 21 CFR 177.1630 30.31 LFGB

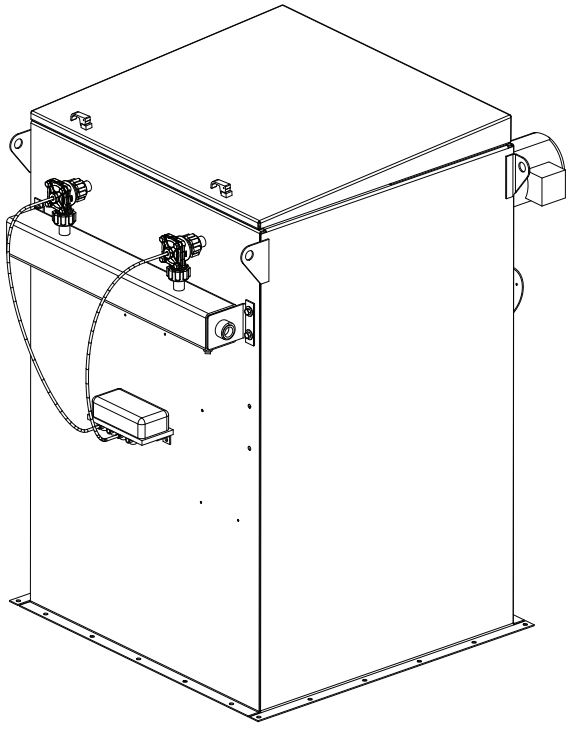
Donaldson
Torit®

Bin Vent

TBV-2, TBV-4 and TBV-6

Installation and Operation Manual

Installation, Operation, and Service Information



This manual is property of the owner. Leave with the collector when set-up and start-up are complete. Donaldson Company reserves the right to change design and specifications without prior notice.

Illustrations are for reference only as actual product may vary.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

English
Master Language

IOM 4939000 (ENG)
Revision 7

⚠ WARNING Process owners/operators have important responsibilities relating to combustible hazards. Process owners/operators must determine whether their process creates combustible dust, fume, or mist. If combustible dust, fume, or mist is generated, process owners/operators should at a minimum:

- Comply with all applicable codes and standards. Among other considerations, current NFPA standards require owners/operators whose processes involve potentially combustible materials to have a current Hazard Analysis, which can serve as the foundation for their process hazard mitigation strategies.
- Prevent all ignition sources from entering any dust collection equipment.
- Design, select, and implement fire and explosion mitigation, suppression, and isolation strategies that are appropriate for the risks associated with their application.
- Develop and implement maintenance work practices to maintain a safe operating environment, ensuring that combustible dust, fume, or mist does not accumulate within the plant.

Donaldson recommends process owners/operators consult with experts to insure each of these responsibilities are met.

As a manufacturer and supplier of Industrial Filtration Products, Donaldson can assist process owners/operators in the selection of filtration technologies. However, process owners/operators retain all responsibility for the suitability of fire and explosion hazard mitigation, suppression, and isolation strategies. Donaldson assumes no responsibility or liability for the suitability of any fire and/or explosion mitigation strategy, or any items incorporated into a collector as part of an owner/operators hazard mitigation strategy.

Improper operation of a dust control system may contribute to conditions in the work area or facility that could result in severe personal injury and product or property damage. Check that all collection equipment is properly selected and sized for the intended use.

DO NOT operate this equipment until you have read and understand the instruction warnings in the Installation and Operations Manual. For a replacement manual, contact Donaldson Torit.

This manual contains specific precautionary statements relative to worker safety. Read thoroughly and comply as directed. Discuss the use and application of this equipment with a Donaldson Torit representative. Instruct all personnel on safe use and maintenance procedures.

Data Sheet

Model Number _____ Serial Number _____

Ship Date _____ Installation Date _____

Customer Name _____

Address _____

_____

Filter Type _____

Accessories _____

Other_____

Contents

Description....1
Purpose and Intended Use....2
Operation....3
Inspection on Arrival....4
Installation Codes and Procedures....4
Installation....4
  Foundations or Support Framing....5
  Collector Location....5
Rigging Instructions....5
  Hoisting Information....5
Standard Equipment....6
  Pre-Installation....6
  Provisional Anchor Bolt Recommendations....6
  Collector Anchoring....6
  Compressed Air Installation....7
  Electrical Wiring....7
Solid-State Timer Installation....9
  Solenoid Connection....9
  Timer and Solenoid Specifications....9
Filter Installation for Bin Vent Insertable....11
Preliminary Start-Up Check....11
Maintenance Information....12
  Operational Checklist....12
  Filter Removal and Installation....12
Optional Equipment....15
  Fan Blower....15
  Magnehelic® Gauge....15
  Photohelic® Gauge....17
  Delta P Control....19
  Delta P Plus Control....20
  Weather Hood....21
  Plenum Silencer....22
Troubleshooting....23
Service Notes....25

⚠ DANGER — **DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.**

⚠ WARNING — **WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.**

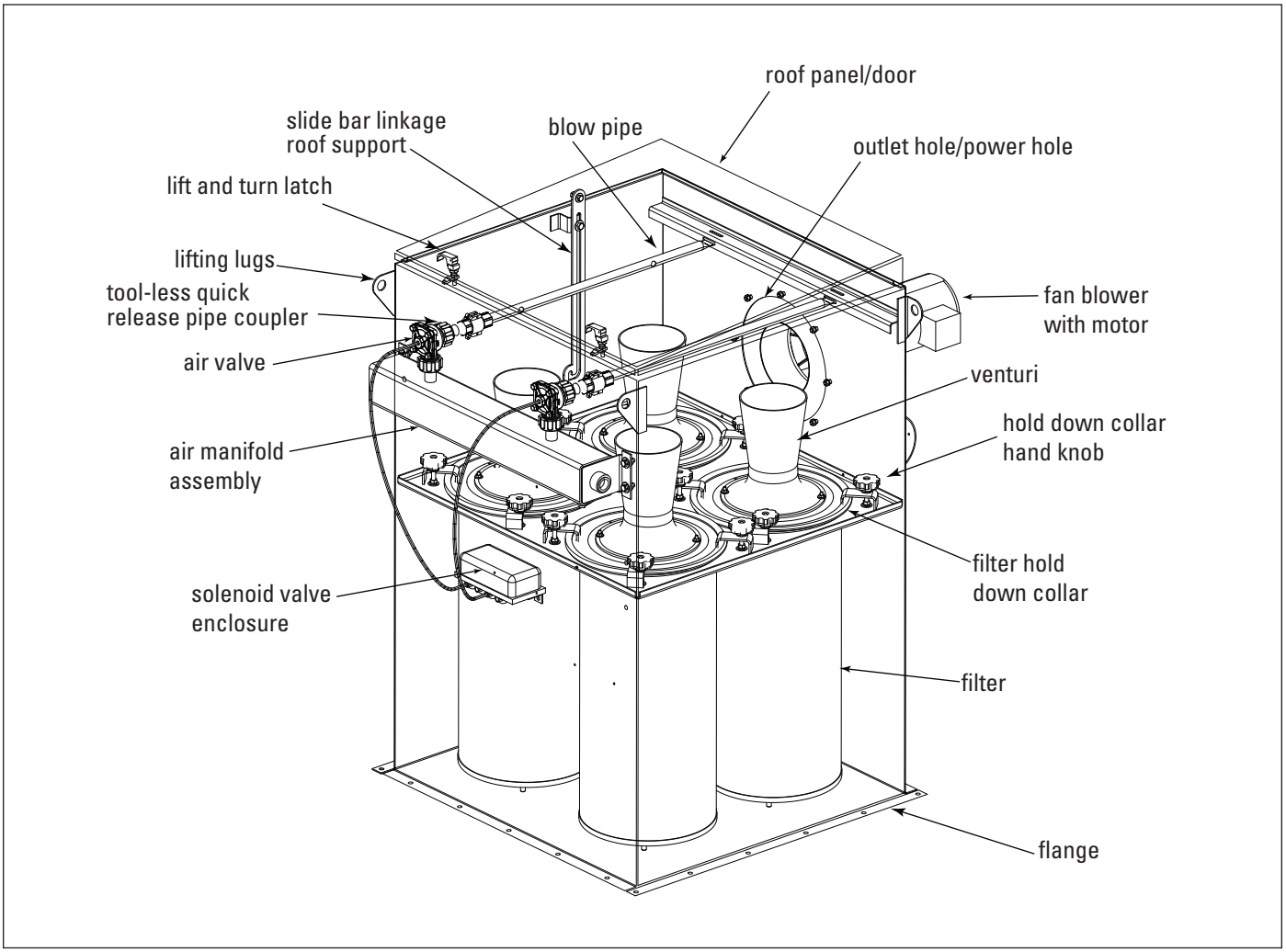
⚠ CAUTION — **CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.**

NOTICE — **NOTICE is used to address practices not related to personal injury that may result in damage to equipment.**

Description

Torit Bin Vents (TBVs) apply cartridge technology to a continuous-duty dust collection system, offering significant advantages. They are designed specifically for silo, storage bin and conveyor transfer applications. Standard models include both the Insertable-mounted cabinet and the Plenum-mounted cabinet, with each available in three filter configurations: a two (2) filter collector (TBV-2), a four (4) filter collector (TBV-4) and a six (6) filter collector (TBV-6). All standard Bin Vents include Donaldson Torit® Ultra-Web® filters with continuous air pulse-jet cleaning. This provides for a highly efficient self-cleaning filtration system ensuring long filter life and a reduced maintenance schedule. The Bin Vent was designed for simple filter service and maintenance with a "tool-less" approach. The collector incorporates top-side (clean air plenum) filter removal and replacement, making it unnecessary to enter the silo or storage container. No tools are needed for the quick release pipe couplers when replacing filters. This reduces the risk of contamination of the customer product stored in the silo/storage container.

The filters in the Bin Vent are the key to efficient, long life operation. With the high efficiency filtration from this dust collector, exhaust air can often be recirculated to the factory. To ensure high efficiency operation, always use genuine Donaldson replacement filters.



Bin Vent Internal View

Purpose and Intended Use

⚠ WARNING Misuse or modification may result in severe personal injury and/or property damage.

Do not misuse or modify.

The Torit Bin Vent is used to vent displaced air and contain valuable and/or harmful products in bins or silos. As materials are conveyed to a bin by various means (mechanical, gravity, and pneumatic), air inside the enclosed bin is displaced. The process by which excess air is removed is called bin venting. The most common industries for the Bin Vent are food/agriculture such as grain and process/manufacturing such as chemical/ pharmaceutical, cement, wood, foundries (clay, sand, additives), and waste treatment. The most common dusts are lime, cement, carbon, plastics, and wood.

⚠ WARNING Combustible materials such as buffing lint, paper, wood, metal dusts, weld fume, or flammable coolants or solvents represent potential fire and/or explosion hazards. Use special care when selecting, installing, and operating all dust, fume, or mist collection equipment when such combustible materials may be present in order to protect workers and property from serious injury or damage due to a fire and/or explosion.

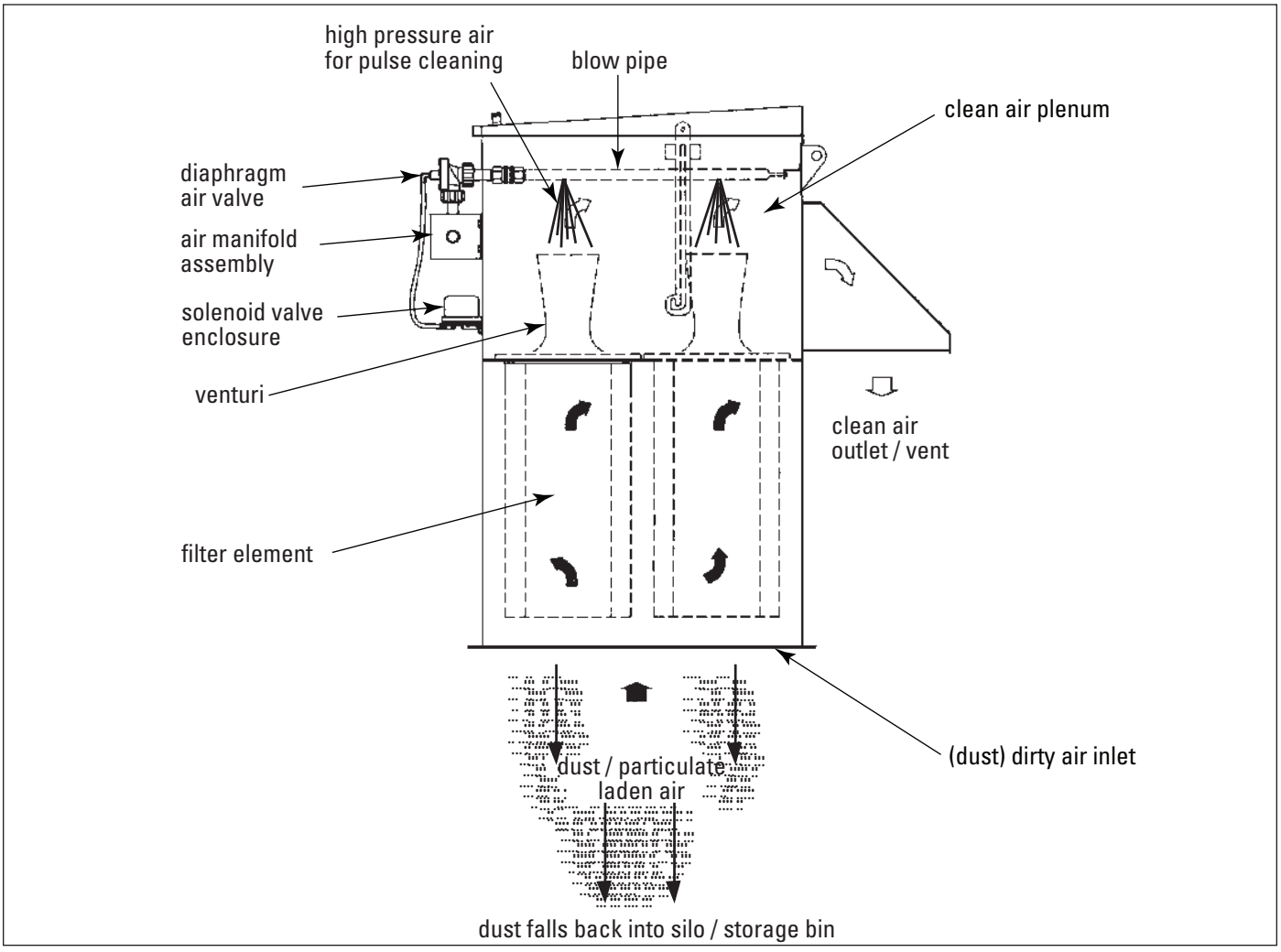
Consult and comply with all National and Local Codes related to fire and/or explosion properties of combustible materials when determining the location and operation of all dust, fume, or mist collection equipment.

Standard Donaldson Torit equipment is not equipped with fire extinguishing or explosion protection systems.

Operation

During normal operation, contaminated or dust-laden air enters the Bin Vent through the cabinet opening at the bottom of the collector, which is fastened to the silo or storage container. The dust-laden incoming air is collected on the outside surface of the filters. As the dust cake collects on the outside filter surface, gravity and air pulse-jet cleaning force the dust to drop back into the storage bin. The clean, filtered air flows up through the center of the filter elements and passes through the venturi into the clean air plenum, where it finally exits through the clean air outlet. The clean air outlet can be configured with a blower fan or a weather hood side-mounted to the rear of the collector. Another option, depending on the customer product being stored, is to recirculate the clean air back into the work area via duct work.

Filters are cleaned automatically and continuously during operation. Only a few filters are off-line for pulse-jet cleaning at any given time. A solid state timer controls the cycle of pulse-jet cleaning. Solenoid-operated diaphragm valves open in sequence, introducing jets of high pressure air into venturis located above the filter element cartridges. The resulting reverse airflow initiates the cleaning cycle, which dislodges the dust accumulated on the outside of the filter media, while the remaining filters in the collector continue the filtration process.



Collector Operation (Model TBV-4 shown)

Inspection on Arrival

1. Inspect collector upon delivery.
2. Report any damage to the delivery carrier.
3. Request a written inspection report from the Claims Inspector to substantiate any damage claim.
4. File claims with the delivery carrier.
5. Compare collector received with description of product ordered.
6. Report incomplete shipments to the delivery carrier and your Donaldson Torit representative.
7. Remove crates and shipping straps. Remove loose components and accessory packages before lifting collector from truck.
8. Check for hardware that may have loosened during shipping.
9. Use caution removing temporary covers.

Installation Codes and Procedures

⚠CAUTION Codes may regulate recirculating filtered air in your facility. Consult with the appropriate authorities having jurisdiction to ensure compliance with all national and local codes regarding recirculating filtered air.

Safe and efficient operation of the collector depends on proper installation.

Authorities with jurisdiction should be consulted before installing to verify local codes and installation procedures. In the absence of such codes, install collector according to the National Electric Code, NFPA No. 70-latest edition and NFPA 91 (NFPA 654 if combustible dust is present).

A qualified installation and service agent must complete installation and service of this equipment.

All shipping materials, including shipping covers, must be removed from the collector prior to or during collector installation.

NOTICE Failure to remove shipping materials from the collector will compromise collector performance.

Inspect collector to ensure all hardware is properly installed and tight prior to operating collector.

Installation

⚠WARNING Use proper equipment and adopt all safety precautions needed for servicing equipment.

Electrical service or maintenance work must be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out electrical power sources before performing service or maintenance work.

Do not install in classified hazardous atmospheres without an enclosure rated for the application.

Turn compressed air supply OFF, bleed and lock out lines before performing service or maintenance work.

⚠CAUTION Site selection must account for wind, seismic zone, and other load conditions when selecting the location for collectors.

Codes may regulate acceptable locations for installing dust collectors. Consult with the appropriate authorities having jurisdiction to ensure compliance with all national and local codes regarding dust collector installation.

Collectors must be anchored in a manner consistent with local code requirements. Anchors must be sufficient to support dead, live, seismic, and other anticipated loads.

Consult a qualified engineer for final selection of anchorage.

NOTICE Do not set compressed-air pressure above 100-psig as component damage can occur.

All compressed air components must be sized to meet the system requirements of 90-100-psig supply pressure.

The compressed-air supply must be oil and moisture free. Contamination in the compressed air used to clean filters will result in poor cleaning, cleaning valve failure, or poor collector performance.

Purge compressed air lines to remove debris before connecting to the collector's compressed air manifold.

The collector can be located on the top of storage silos and bins, or integrated into hoods for material handling equipment such as belt conveyors or process equipment such as blenders and crushers.

Mounting flanges and hood supports must be capable of supporting the entire weight of the collector plus the weight of the collected material and piping. Reference the Rating and Specification Information.

Foundations or Support Framing

Prepare the foundation or support framing in the selected location. Foundation or support framing must comply with local code requirements and may require engineering.

Foundation and support framing must be capable of supporting dead, live, wind, seismic and other applicable loads. Consult a qualified engineer for final selection of foundation or support framing.

Collector Location

⚠ WARNING Donaldson Torit equipment is not designed to support site installed ducts, interconnecting piping, or electrical services. All ducts, piping, or electrical services must be adequately supported to prevent severe personal injury and/or property damage.

When hazardous conditions or materials are present, consult with local authorities for the proper location of the collector.

⚠ CAUTION Dust collection equipment may reach peak sound pressure levels above 80 dB (A). Noise levels should be considered when selecting collector location.

Locate the collector to ensure easy access to electrical and compressed air connections, to simplify solids collection container handling and routine maintenance, and to ensure the straightest inlet and outlet ducts.

Rigging Instructions

Suggested Tools & Equipment

Clevis Pins and Clamps	Lifting Slings
Crane or Forklift	Pipe Sealant
Drift Pins	Pipe Wrenches
Drill and Drill Bits	Screwdrivers
End Wrenches	Socket Wrenches
Adjustable Wrench	Spreader Bars

Torque Wrench (inch/lbs, 9/16-in Socket)

Hoisting Information

⚠ WARNING Failure to lift the collector correctly can result in severe personal injury and/or property damage.

Use appropriate lifting equipment and adopt all safety precautions needed for moving and handling the equipment.

A crane or forklift is recommended for unloading, assembly, and installation of the collector.

Location must be clear of all obstructions, such as utility lines or roof overhang.

Use all lifting points provided.

Use clevis connectors, not hooks, on lifting slings.

Use spreader bars to prevent damage to collector's casing.

Check the Specification Control drawing for weight and dimensions of the collector and components to ensure adequate crane capacity.

Allow only qualified crane or forklift operators to lift the equipment.

Refer to applicable OSHA regulations and local codes when using cranes, forklifts, and other lifting equipment.

Lift collector and accessories separately and assemble after collector is in place.

Use drift pins to align holes in section flanges during assembly.

Standard Equipment

Torit Bin Vents are shipped without the blower/motor packs installed. Filters are shipped installed in the Bin Vent plenum models. In the Bin Vent insertable models, the filter cartridges are shipped loose to avoid crushing the portion of the filters that extend below the bottom of the cabinet.

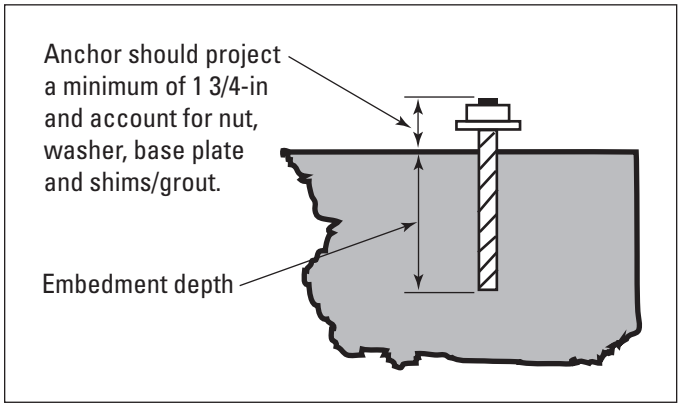
Pre-Installation

The Bin Vent is not designed as a "stand alone" collector. Rather, it is designed to be a filtration/ventilation component of a larger system, such as a silo or bin container. The open bottom of the bin vent is intended for roof mounting applications. Some preparation work is required before installing the collector. A hole must be cut into the silo or storage bin to the correct dimensions.

⚠ WARNING Ensure the silo or storage bin is reinforced to properly support the weight of the Bin Vent. Failure to do so may result in a collapse causing personal injury and/or property damage.

Provisional Anchor Bolt Recommendations

1. Consider Hilti HIT-HY 200 Anchor System or equivalent. Quantity of anchor bolts should match the number of holes provided in the base plates.
2. Anchor diameter is typically 1/8-in less than baseplate hole diameter.
3. Corrosive environment or outdoor installation may require stainless steel anchors.



Typical Foundation Anchor

Collector Anchoring

⚠ WARNING Anchors must comply with local code requirements and must be capable of supporting dead, live, wind, seismic, and other applicable loads.

Anchor sizes shown are provisional, as final anchor sizing will depend on jobsite load conditions, collector location, foundation/ framing design variables and local codes.

Consult a qualified engineer for final selection of suitable anchors.

⚠ CAUTION Tighten all hardware before removing crane to prevent personal injury and/or property damage.

Prepare the foundation or support framing in the selected location. Locate and install anchors.

Compressed Air Installation

⚠ WARNING Turn compressed air supply OFF, bleed and lock out lines before performing service or maintenance work.

A safety exhaust valve should be used to isolate the compressed air supply. The safety exhaust valve should completely exhaust pressure in the collector manifolds when closed, should be capable of being interlocked with fire or explosion mitigation equipment and should include provisions to allow closed-position locking.

NOTICE Do not set compressed-air pressure above 100-psig as component damage can occur.

All compressed air components must be sized to meet the system requirements of 90-100-psig supply pressure.

The compressed-air supply must be oil and moisture free. Contamination in the compressed air used to clean filters will result in poor cleaning, cleaning valve failure, or poor collector performance.

Purge compressed-air lines to remove debris before connecting to the collector's compressed-air manifold.

1. Remove the plastic pipe plug from the collector's air manifold and connect the compressed-air supply lines. Use thread-sealing tape or pipe sealant on all compressed-air connections.
2. Install a customer-supplied shut-off valve, bleed-type regulator with gauge, filter, and automatic condensate valve in the compressed-air supply line.
3. Set compressed-air supply to 90-psig. The pulse-cleaning controls are factory set to clean one or more filters every 10-seconds during a cleaning cycle.

Electrical Wiring

⚠ WARNING Electrical installation, service, or maintenance work must be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out electrical power sources before performing service or maintenance work.

Do not install in classified hazardous atmospheres without an enclosure rated for the application.

All electrical wiring and connections, including electrical grounding, should be made in accordance with the National Electric Code (NFPA No. 70-latest edition).

Check local ordinances for additional requirements that apply.

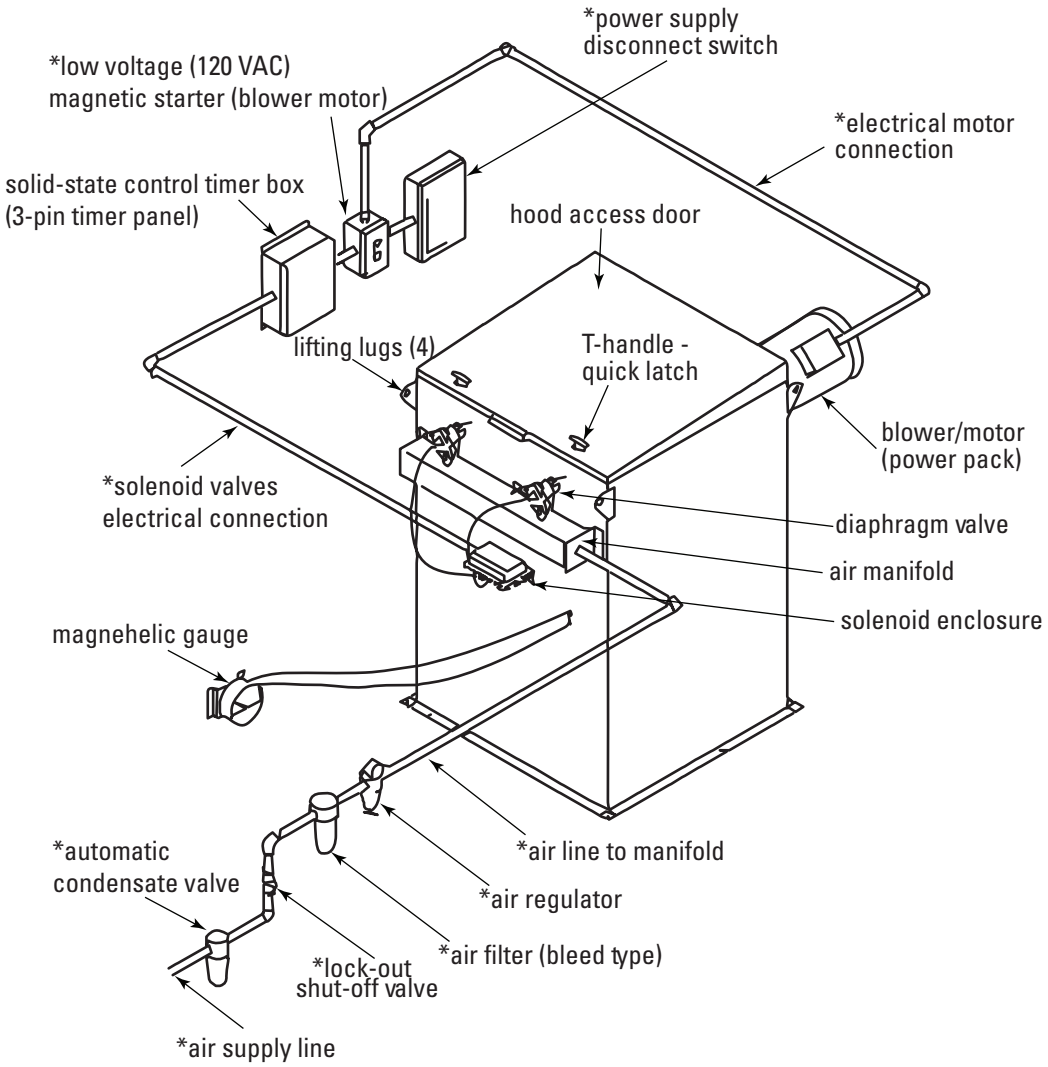
The appropriate wiring schematic and electrical rating must be used. See collector's rating plate for required voltage.

An electric disconnect switch having adequate amp capacity shall be installed in accordance with Part IX, Article 430 of the National Electrical Code (NFPA No. 70-latest edition). Check collector's rating plate for voltage and amperage ratings.

Refer to the wiring diagram for the number of wires required for main power wiring and remote wiring.

⚠ WARNING Turn power off and lock out electrical power sources.

Turn compressed air supply OFF, bleed and lock out lines before performing service or maintenance work.



*customer supplied

Compressed Air and Component Installation

Solid-State Timer Installation

⚠ WARNING Electrical installation, service or maintenance work during installation must be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out electrical power sources before performing installation, service, or maintenance work.

Do not install in classified hazardous atmospheres without an enclosure rated for the application.

A solid-state 4-pin timer is used to control the filter cleaning system.

1. Using the wiring diagram supplied, wire the fan motor, fan-motor starter, solid-state timer, and solenoid valves. Use appropriate wire gauge for rated amp load as specified by local codes.
2. Plug the program lug into the pin that corresponds with the number of solenoid valves controlled.
3. With power supply ON, check the operation of the timer and valves. The valves should open and close sequentially at factory set 10-second intervals.
4. If a gauge or similar device is used to control the solid-state timer, the jumper on the pressure switch portion of the timer should be removed. The solenoid valves pulse only when the differential pressure reaches the high-pressure setpoint. The valves will continue to pulse until the low-pressure setpoint is reached.

NOTICE The solid-state timer voltage must match the voltage of the rating of the timer provided (typically 120 VAC, 240 VAC also available).

Do not mount the solid-state timer directly to the collector as mechanical vibration can damage the timer.

Solenoid Connection

The collector is equipped with electric solenoid valves (typically 120V) that controls the pulse-cleaning valves, which in turn clean the filters.

Solenoid enclosures are mounted near or on the collector's compressed-air manifold.

Wire the solenoids to the solid-state timer following the wiring diagram supplied with the collector. Filter life and cleaning operation will be affected if not wired correctly.

Timer and Solenoid Specifications

Power to the solid-state timer is supplied to Terminals L1 and L2, which are intended to operate in parallel with the fan starter's low-voltage coil. On fan start-up, power is supplied to the timer and the preset OFF time is initiated. At the end of the OFF time, the timer energizes the corresponding solenoid valve to provide the ON time cleaning pulse for one diaphragm valve and then steps to the next until all filters have been cleaned.

To pulse when the fan is OFF, install a toggle switch as shown on the Solid-State Timer Wiring Diagram. When the toggle switch is ON, the timer receives power and energizes the solenoid valves' pulse-cleaning operation even though the fan is turned OFF.

Input
105-135V/50-60Hz/1Ph

Output Solenoids
The load is carried and turned ON and OFF by the 200 watt maximum-load-per-output solid-state switch.

Pulse ON Time
Factory set at 100-milliseconds, or 1/10-second.

NOTICE

Do not adjust pulse ON time unless the proper test equipment is available. Too much or too little ON time can cause shortened filter life.

Pulse OFF Time
Factory set at 10-seconds, adjustable from 1 to 1.5-sec minimum to maximum 60 to 66-seconds.

Operating Temperature Range
-20° F to 130° F

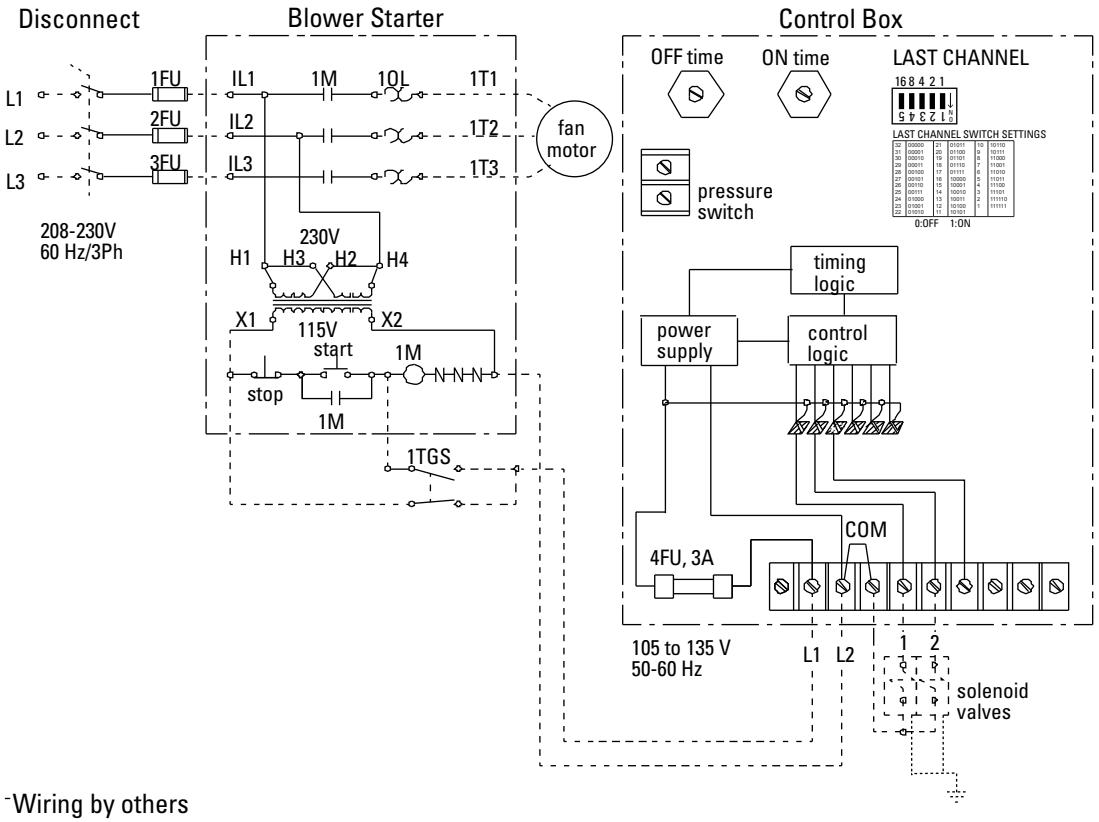
Transient Voltage Protection
50 kW transient volts for 20-millisecond duration once every 20 seconds, 1% duty cycle.

Solenoid Valves
115-Volt at 19.7 watts each

Compressed-Air
Set compressed-air supply at 90-psig. The timer is factory set to clean one filter or set of filters every 10-seconds.

NOTICE

Do not increase supply pressure above 100-psig as component damage can occur.



Wiring by others
Wiring by factory

Disconnect, fuses, low voltage blower starter, and 1TGS switch are customer-supplied.

Use wiring diagram provided with collector

Solid-State Timer Typical Wiring Diagram

Filter Installation for Bin Vent Insertable

The filter cartridges in the Bin Vent insertable model extend past the bottom of the cabinet when installed. The filter cartridges would be crushed and damaged under the weight of the collector if they were shipped installed; therefore, they are shipped loose and installed at the customer site once the collector has been installed into a permanent location.

Unpack the filters from each box, which contains a filter, a filter crank rod, a rubber-backed washer and a steel grounding tab.

NOTICE See the Filter Installation section for plenum models.

The Bin Vent insertable-model must already be installed in a permanent location before the installation of the filters into the collector.

Preliminary Start-Up Check

Instruct all personnel on safe use and maintenance procedures.

⚠ WARNING Electrical work during installation, service or maintenance must be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out electrical power sources before performing service or maintenance work.

Turn compressed air supply OFF, bleed and lock out lines before performing service or maintenance work.

Check that the collector is clear and free of all debris before starting.

Do not install in classified hazardous atmospheres without an enclosure rated for the application.

Optional fans over 600 lbs must be independently supported.

1. Check all electrical connections for tightness and contact.
2. Check for proper rotation as noted on the fan and/or hopper discharge device housing.

   To reverse rotation, single-phase power supply: Follow manufacturer's instructions on the motor's nameplate.

   To reverse rotation, three-phase power supply: Switch any two leads on the motor junction box.

⚠ WARNING Do not interchange a power lead with the ground wire. Severe personal injury and/or property damage may result.

3. All access panels should be sealed and secure.
4. Check that fan exhaust damper is set to the fully-closed position.
5. Check and remove all loose items in or near the inlet and outlet of the collector.
6. Check that all remote controls and solenoid enclosures (if applicable) are properly wired and all service switches are in the OFF position.
7. Check that all optional accessories are installed properly and secured.
8. Turn power ON at source.
9. Turn the compressed-air supply ON. Adjust pressure regulator for 90-100 psig.
10. Turn fan motor ON.

⚠ WARNING Do not look into fan outlet to determine rotation. View the fan rotation through the back of the motor.

Check that the exhaust plenum is free of tools or debris before checking blower/fan rotation.

Stand clear of exhaust to avoid personal injury.

11. Adjust airflow with the exhaust damper.

NOTICE Excess airflow can shorten filter life, cause electrical system failure and fan motor failure.

12. Turn powered hopper discharge devices ON.

Maintenance Information

Instruct all personnel on safe use and maintenance procedures.

⚠ WARNING Use proper equipment and adopt all safety precautions needed for servicing equipment.

Use appropriate access equipment. The standard collector is not equipped with access platforms unless noted on specification drawings.

Electrical service or maintenance work must be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out electrical power sources before performing service or maintenance work.

Do not install in classified hazardous atmospheres without an enclosure rated for the application.

Turn compressed air supply OFF, bleed and lock out lines before performing service or maintenance work.

NOTICE Do not set compressed-air pressure above 100-psig as component damage can occur.

All compressed air components must be sized to meet the system requirements of 90-100 psig supply pressure.

The compressed-air supply must be oil and moisture free. Contamination in the compressed air used to clean filters will result in poor cleaning, cleaning valve failure, or poor collector performance.

Purge compressed air lines to remove debris before connecting to the collector's compressed air manifold.

Operational Checklist

1. Monitor the physical condition of the collector and repair or replace any damaged components.

   Routine inspections will minimize downtime and maintain optimum system performance. This is particularly important on continuous-duty applications.

2. Periodically check the compressed air components and replace compressed air filters.

   Drain moisture following the manufacturer's instructions. With the compressed air supply ON, check the cleaning valves, solenoid valves, and tubing for leaks. Replace as necessary.

3. Monitor pressure drop across filters.

   Abnormal changes in pressure drop may indicate a change in operating conditions and possibly a fault to be corrected. For example, prolonged lack of compressed air will cause an excess build-up of dust on the filters resulting in increased pressure drop. Cleaning off-line with no flow usually restores the filters to normal pressure drop.

4. Monitor exhaust.

Filter Removal and Installation

⚠ WARNING Use proper safety and protective equipment when removing contaminants and filters.

Dirty filters may be heavier than they appear.

Use care when removing filters to avoid personal injury and/or property damage.

Turn power off and lock out electrical power sources before performing service or maintenance work.

Turn compressed air supply OFF, bleed and lock out lines before performing service or maintenance work.

⚠ CAUTION Do not operate with missing or damaged filters.

Filter Removal

1. After compressed air supply and electrical power have been turned off, open the roof access door of the Bin Vent collector to its fully open position. Make sure that the small notch on the roof support slide bar drops down and locks into position, securing the roof access panel.

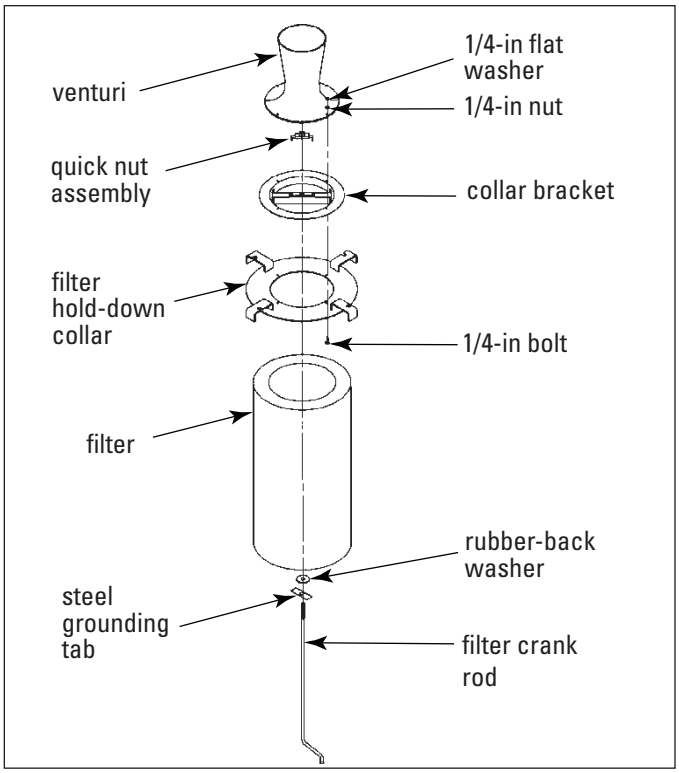
⚠CAUTION Failure to open the door properly could result in personal injury and/or property damage. Ensure the door is in the correct open position.

2. Reach inside the clean air plenum of the collector and disconnect the blowpipes by pulling back the levers of the quick-disconnect pipe couplers. Stow the blowpipes in the upright position by inserting them into the slots provided at the rear of the collector.
3. Reach down inside the clean air plenum of the collector and halfway unscrew all the black hold-down knobs. Reach down inside the venturi and grasp the collar bracket; twist it to the right (clockwise) until the filter hold-down collar clears all four screw studs. Pull up and out to remove the filter assembly from the collector.
4. Carefully turn the filter assembly upside down (venturi-side down). Turn the filter crank counterclockwise until completely unscrewed from the quick-nut assembly located in the center of the collar bracket. Once loosened, pull the filter crank out through the filter end cap until clear of the filter assembly.
5. Turn the filter assembly venturi-side up again and grasp the filter hold-down collar. Pull the filter hold-down collar up to break the gasket seal between the filter and collar. The filter is now free and can be replaced with a new filter.

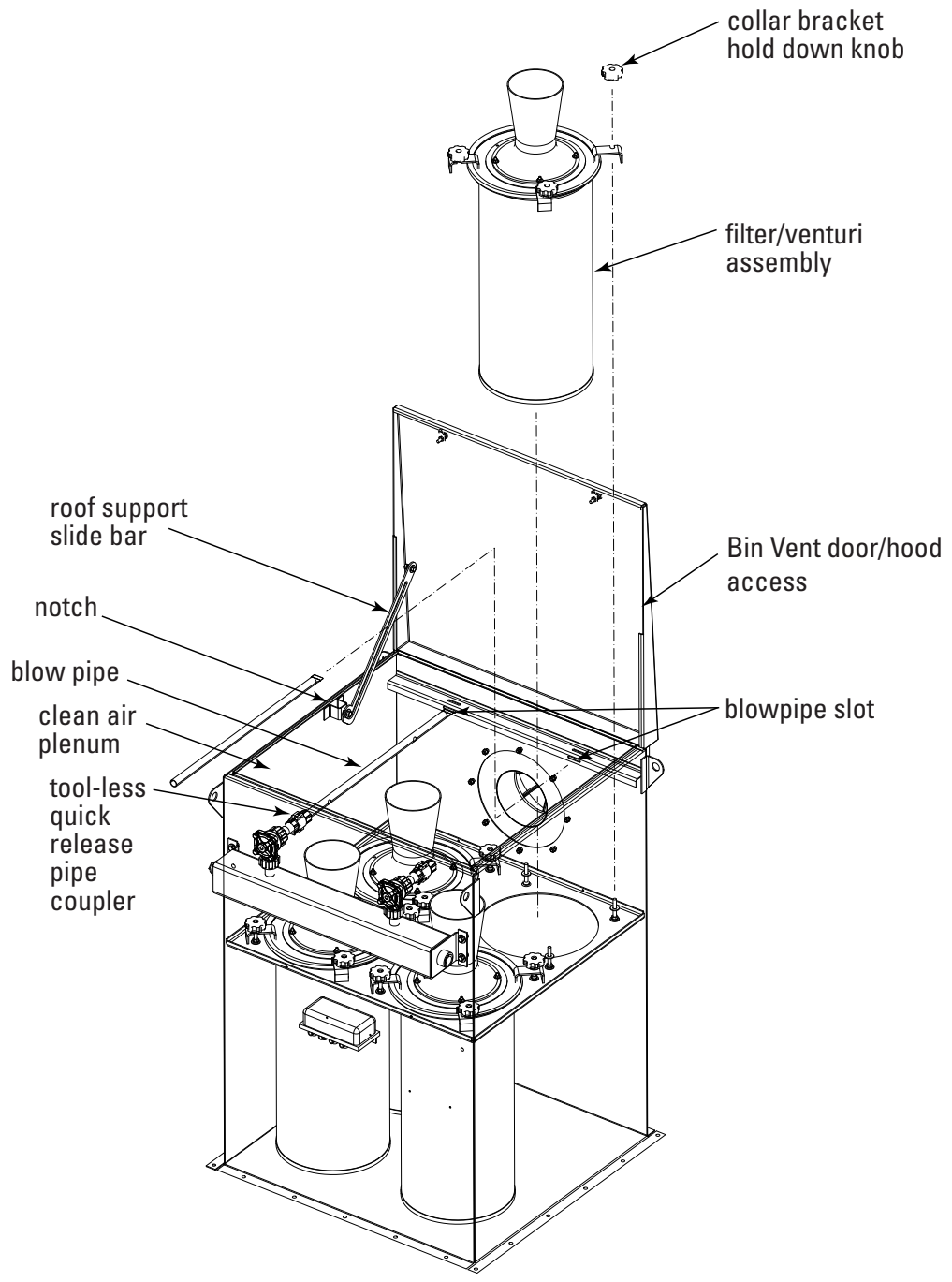
Filter Installation

NOTICE See the Filter Installation for Bin Vent for first time filter installation for insertable models.

1. Place the new filter end-cap down (gasket-side up). Slide the filter hold-down collar inside the open of the filter until it stops.
2. Slide the steel grounding tab through the filter crank rod, followed by the rubber-backed washer, rubber side up and away from the crank handle.
3. Slide the filter crank rod through the hole in the filter end cap and up through the filter cartridge. Align the filter crank rod end with the quick-nut assembly located in the center of the hold-down collar bracket and screw together until the filter forms an air-tight seal against the filter hold-down collar.
4. Insert the complete filter/venturi assembly back into the clean air plenum until the hold-down collar is flush with bottom of the clean air plenum (tubesheet). Rotate the assembly to the left (counterclockwise) until all four (4) screw studs are engaged.
5. Tighten all black hold-down knobs until secure. Reconnect the blowpipes using the quick release pipe couplers.
6. Grasp the roof access door with one hand and pull up on the bottom of the roof support slide bar with the other to disengage the locked position. Lower the roof access door until closed and secure by twisting the latches on the top of the roof.



Filter / Venturi Assembly



Filter Removal and Installation

Optional Equipment

Fan Blower

⚠ WARNING Failure to lift the fan correctly can result in severe personal injury and/or property damage.

Use appropriate lifting equipment and adopt all safety precautions needed for moving and handling the fan.

A crane or forklift is recommended for unloading, assembly, and installation of the fan.

Location must be clear of all obstructions, such as utility lines or roof overhang.

The collector has an off-center, high center of gravity when the fan blower is assembled to the collector. Careful handling is required to avoid overturning the collector during movement.

⚠ CAUTION To avoid personal injury and/or damage to equipment, ensure fan blowers are properly attached to equipment.

NOTICE The use of a damper or variable fan drive (VFD) is required to control airflow through the collector. Lack of a control damper or VFD will shorten filter life.

The Torit Radial Blade (TRB) fan blower can be mounted to the side of the collector.

The fan blower can be installed at any time during installation of the Bin Vent. If the Bin Vent needs to be moved or lifted after the fan blower has been installed, special precautions and careful handling need to be observed to prevent overturning.

For complete information, see the most current version of the TRB Fan Installation, Operation and Maintenance manual.

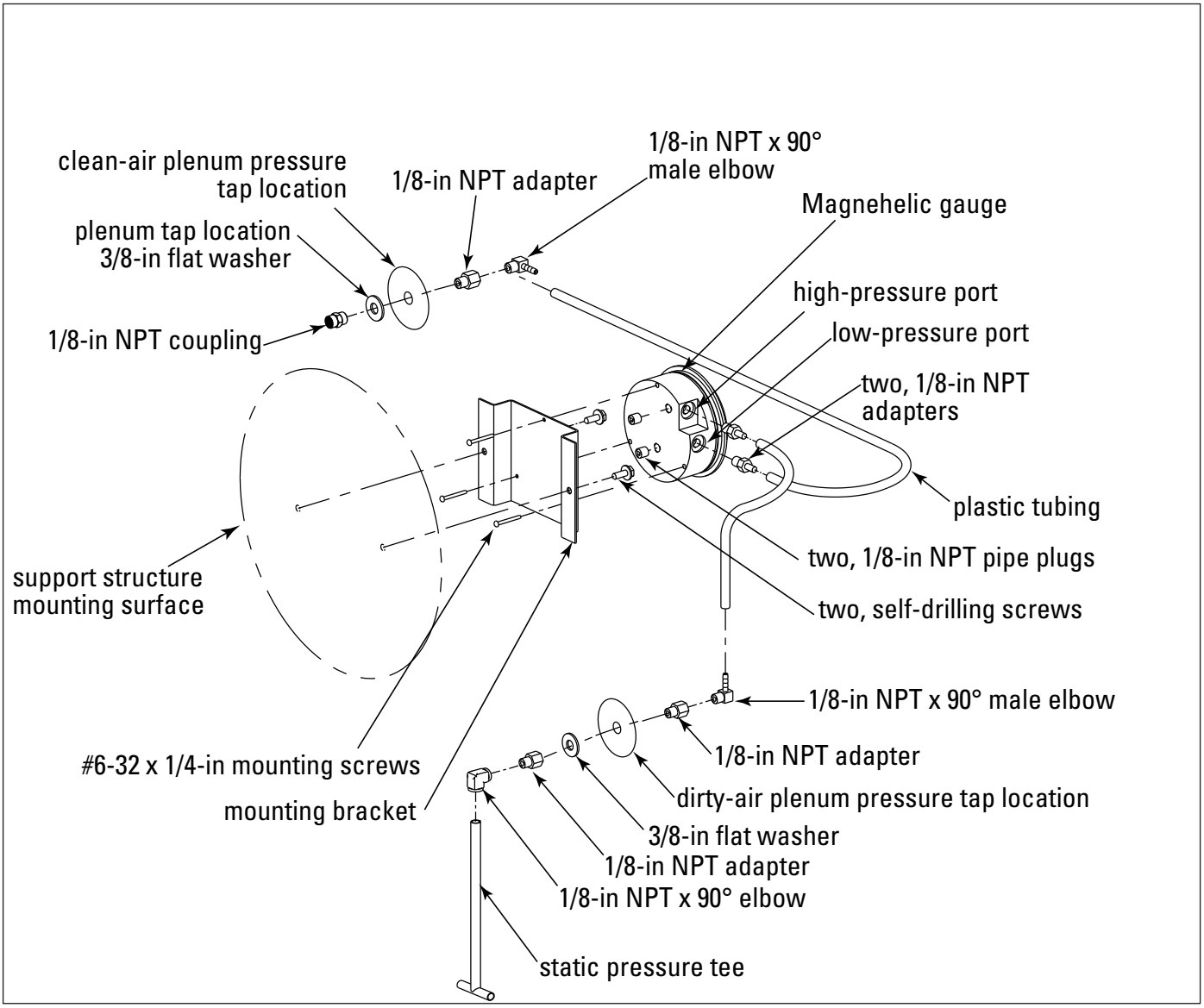
Side Mount TRB Fan Blower

For complete information, see the most current version of the TRB Fan Installation, Operation and Maintenance manual.

Magnehelic® Gauge

The Magnehelic is a differential pressure gauge used to measure the pressure difference between the clean-air and dirty-air plenums and provides a visual display of filter change requirements. The high-pressure tap is located in the dirty-air plenum and the low-pressure tap is located in the clean-air plenum.

1. Choose a convenient, accessible location on or near the collector for mounting that provides the best visual advantage.
2. Plug the pressure ports on the back of the gauge using two, 1/8-in NPT pipe plugs supplied. Install two, 1/8-in NPT male adapters supplied with the gauge into the high- and low-pressure ports on the side of the gauges.
3. Attach the mounting bracket using three, #6-32 x 1/4-in screws supplied.
4. Mount the gauge and bracket assembly to the supporting structure using two, self-drilling screws.
5. Thirty-five feet of plastic tubing is supplied and must be cut in two sections. Connect one section of tubing from the gauge's high-pressure port to the pressure fitting located in the dirty-air plenum. Connect remaining tubing from the gauge's low-pressure port to the fitting in the clean-air plenum. Additional tubing can be ordered from your representative.
6. Zero and maintain the gauge as directed in the manufacturer's Operating and Maintenance Instructions provided.



Magnehelic Gauge Installation

Photohelic® Gauge

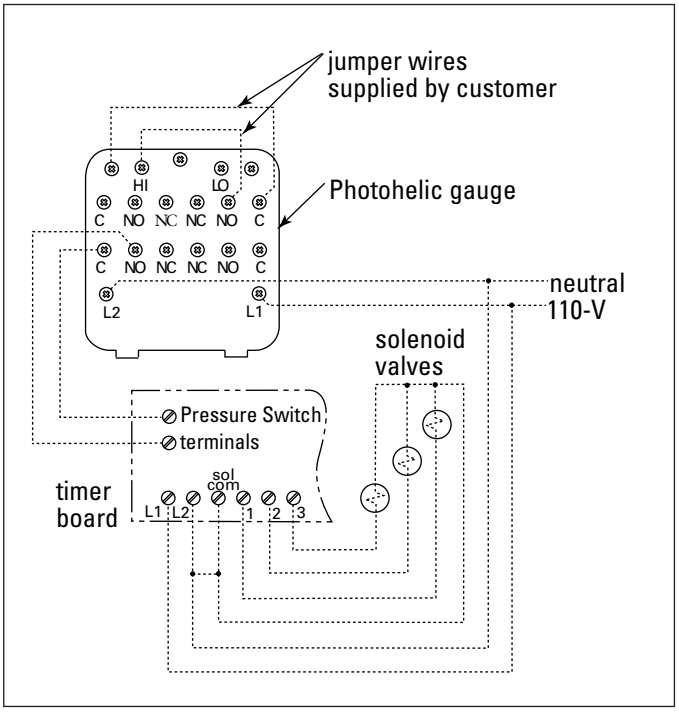
⚠ WARNING Electrical installation, service, or maintenance work must be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out electrical power sources before performing service or maintenance work.

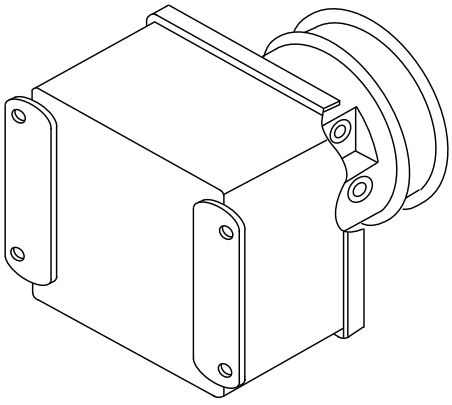
Do not install in classified hazardous atmospheres without an enclosure rated for the application.

The Photohelic combines the functions of a differential pressure gauge and a pressure-based switch. The gauge function measures the pressure difference between the clean-air and dirty-air plenums and provides a visual display of filter condition. The high-pressure tap is located in the dirty-air plenum and a low-pressure tap is located in the clean-air plenum. The pressure-based switch function provides high-pressure ON and low-pressure OFF control of the filter cleaning system.

1. Choose a convenient, accessible location on or near the collector for mounting that provides the best visual advantage.
2. Mount the gauge to the remote panel or door using the mounting ring, retaining ring, and four #6-32 x 1 1/4-in screws. Do not tighten screws. Connect two, 1/8-in NPT x 1/4-in OD male adapters to the gauge's high- and low-pressure ports. Tighten screws.
3. On the back of the gauge, remove four #6-32 x 5/16-in screws and plastic enclosure. Set aside. Add two jumper wires supplied by customer. Remove the jumper from the pressure switch located on the timer board, if equipped. Using the 3/4-in conduit opening, wire the gauge as shown. Reassemble and fasten enclosure securely.
4. Thirty-five feet of plastic tubing is supplied and must be cut in two sections. Connect one section of tubing from the gauge's high-pressure port to the pressure fitting located in the dirty-air plenum. Connect remaining tubing from the gauge's low-pressure port to the fitting in the clean-air plenum. Additional tubing can be ordered from your representative.
5. Zero and maintain the gauge as directed in the manufacturer's Operating and Maintenance Instructions provided.
6. To install the Photohelic Gauge mounted in a NEMA 4, Weatherproof Enclosure, follow Steps 4 and 5.

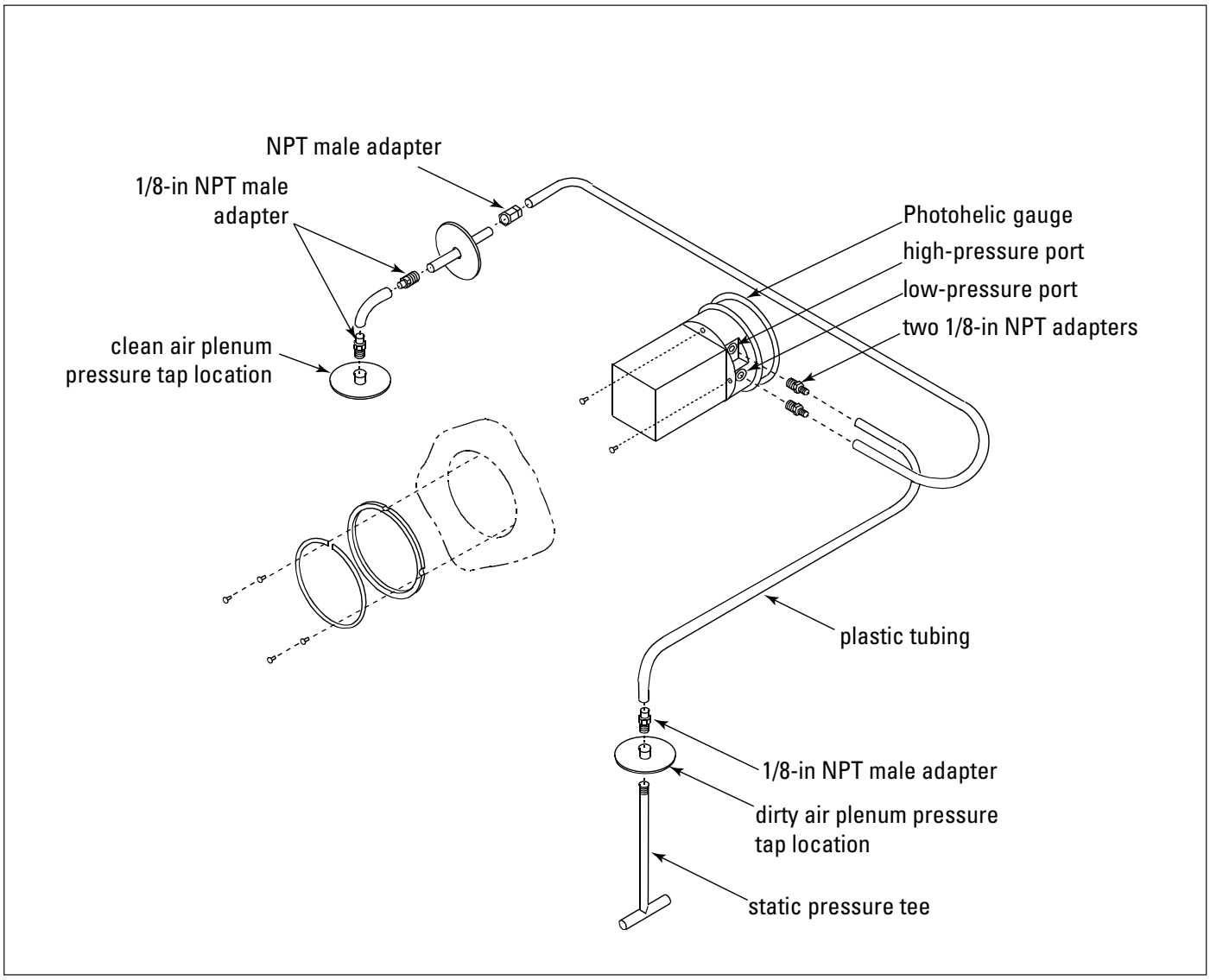


Photohelic Gauge Wiring Diagram



Note:
For use with solid-state timer only. All parts, except the mounting bracket shown in the Photohelic Gauge Standard Installation drawing are included with the NEMA 4, Weatherproof Enclosure.

Photohelic Gauge in Optional NEMA 4 Weatherproof Enclosure



Photohelic Gauge Installation

Delta P Control

For complete information, see the most current version of the Delta P Installation, Operation, and Maintenance manual.

Description

The Delta P Controller monitors the differential pressure between the clean-air and dirty-air plenums, providing a visual display of the filter condition. When combined with a pulse timer, it manages the pressure drop by turning the cleaning mechanism On and Off at the chosen limits. There are three (3) set points: High Pressure On, Low Pressure Off, and Alarm. The first two, High Pressure On and Low Pressure Off, control the filter cleaning system. The third, Alarm, provides a relay output to activate an external alarm supplied by others.

Operation

Normal

The Delta P Controller monitors the pressure in the clean-air and dirty-air air plenums while the collector is running. The blower draws air through the filters, creating a pressure drop. The Delta P Controller measures the pressure drop and provides a visual display in inches water gauge or metric (SI) collectors of daPa.

Filter Cleaning

When the pressure drop across the filters reaches the High Pressure On setpoint, the controller closes an output relay allowing a timer to trigger the cleaning valves sequentially. When the controller senses that the pressure drop has decreased to the Low Pressure Off setpoint, the relay opens and the cleaning cycle stops. This sequence continues as long as the collector is in use, maintaining the pressure drop within a narrow range.

Alarm

The Alarm setpoint is set to a higher setting than the High Pressure On setpoint used to start the filter cleaning cycle. It indicates situations when the cleaning system cannot reduce the pressure drop due to cleaning system failure, lack of compressed air, or the end of the filter's useful life. There is a time delay prior to setting the Alarm to prevent nuisance trips. The Delta P Controller also provides an input connection for a remote alarm reset.

Delta P Control Display

Delta P Plus Control

For complete information, see the most current version of the Delta P Plus Installation, Operation, and Maintenance manual.

Description

The Delta P Plus Controller monitors the differential pressure between the clean-air and dirty-air plenums, providing a visual display of the filter condition. When combined with a pulse timer, it manages the pressure drop by turning the cleaning mechanism On and Off at the chosen limits. There are three (3) set points: High Pressure On, Low Pressure Off, and Alarm. The first two, High Pressure On and Low Pressure Off, control the filter cleaning system. The third, Alarm, provides a relay output to activate an external alarm supplied by others.

The user can program the Delta P Plus Controller to pulse while the collector is running, to maintain a relatively constant pressure drop across the filters, pulse only after the collector is shut down (after-shift cleaning), or a combination of both, cleaning while running as well as end of the shift.

Operation

Normal

The Delta P Plus Controller monitors the pressure on both sides of the tubesheet while the collector is running. As air flows through the filters, the resistance of the media and collected dust creates a pressure difference or "drop" between the dirty and clean air plenums. The Delta P Plus Controller measures the pressure drop and provides a visual display in inches water gauge or metric (SI) collectors of daPa.

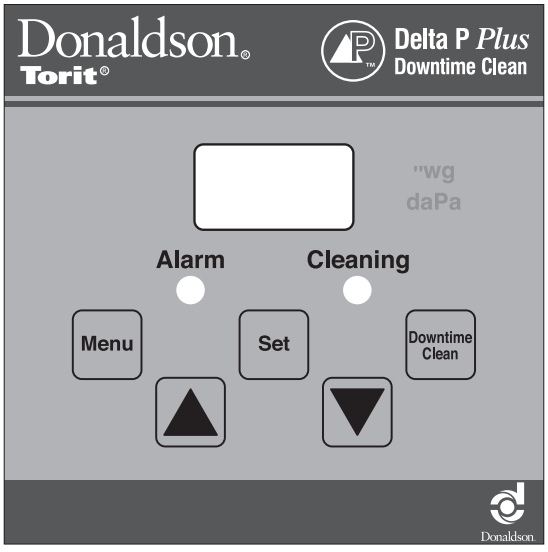
Filter Cleaning

The Delta P Plus Controller offers three filter cleaning options.

1. Differential Pressure Cleaning (DFF) - When the pressure drop across the filters reaches the Controller's High Pressure On setpoint, the Controller closes an output relay allowing a sequential timer to trigger the cleaning valves. When the Controller senses that the pressure drop has decreased to the Low Pressure Off setpoint, the relay opens and the cleaning cycle stops. This sequence continues as long as the collector is in use, maintaining the pressure drop within a narrow range.
2. Downtime Cleaning (DTC) - The Delta P Plus Controller monitors the collection system. When the pressure drop exceeds the Low Pressure Off set point and then approaches zero again, the Delta P Plus Controller runs a delay timer to allow the blower to come to a stop and then engages the cleaning mechanism for a preselected time.
3. Combined Differential and Downtime Cleaning (ALL) - The Delta P Plus Controller combines the two functions described above; maintaining the pressure drop in a narrow band and downtime cleaning the filters when the collector is shut down. The downtime cleaning function can be toggled On or Off from the keyboard.

Alarm

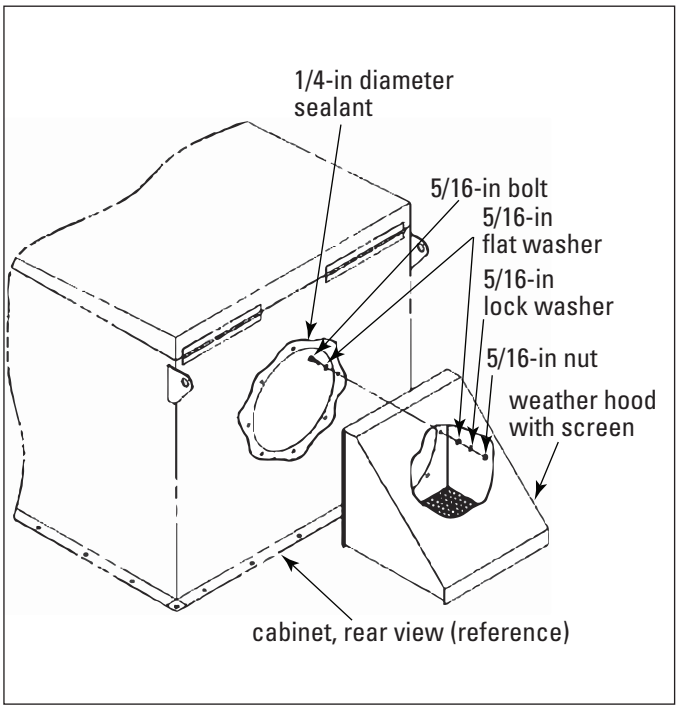
The Alarm setpoint is set to a higher setting than the High Pressure On used to start the filter cleaning cycle. It indicates situations when the cleaning system cannot reduce the pressure drop due to cleaning system failure, lack of compressed air, or the end of the filter's useful life. There is a time delay prior to setting the Alarm to prevent nuisance trips. The Delta P Plus Controller also provides an input connection for a remote Alarm reset.



Delta P Plus Control Display

Weather Hood

The weather hoods keeps rain, snow and birds from entering the collector, all of which can cause the Bin Vent to function improperly. It is strongly recommended for collectors that are not powered or ducted. To install the weather hood, place 1/4-in diameter sealer between the cabinet side and the weatherhood. Position the weather hood over the outlet hole and attach to the cabinet using the eight (8) 5/16-in bolts provided. The bolts must be inserted from inside the clean air plenum, since the weather hood has a bird screen covering the weather hood outlet.

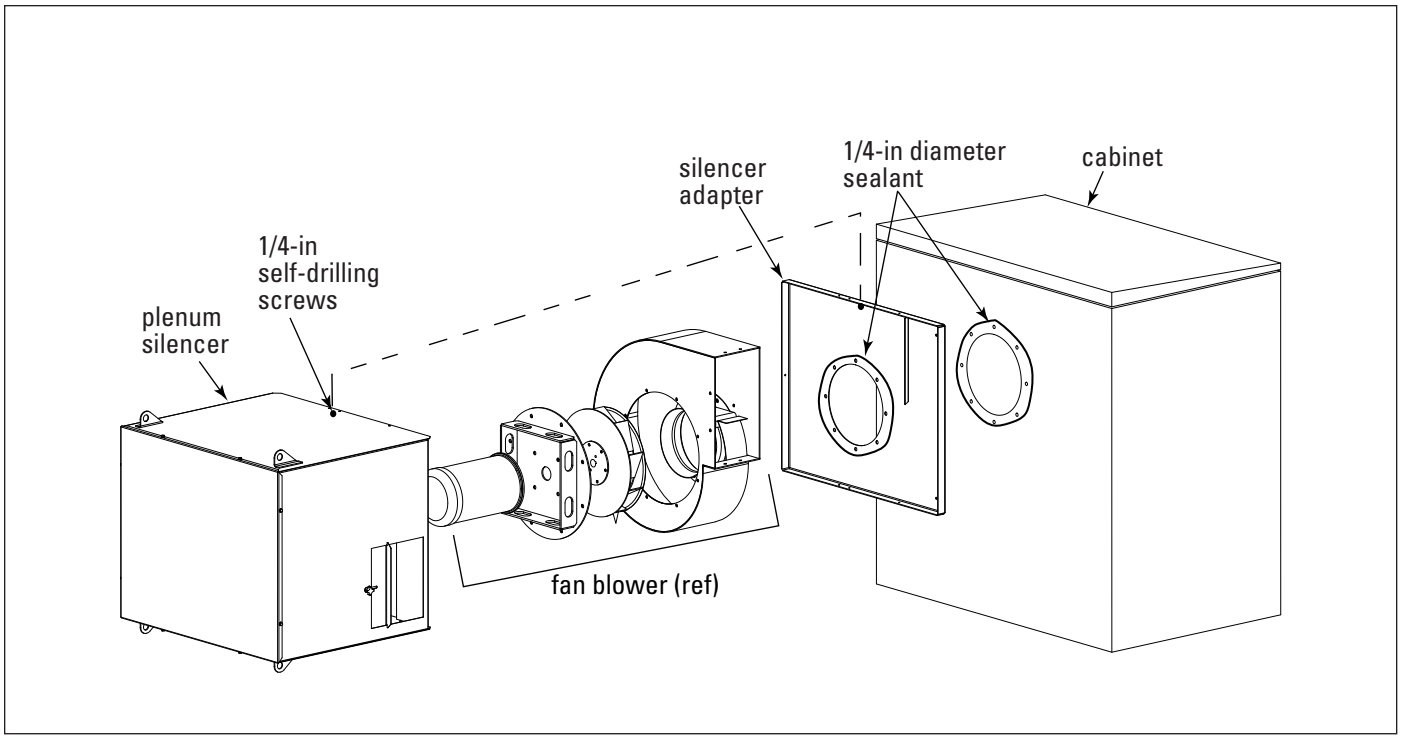


Weather Hood Installation

Plenum Silencer

Plenum silencers are available for the blower/motor assemblies. The plenum silencers are designed to be mounted on the side of the Bin Vent in line with the selected blower/motor assembly. The plenum silencers are equipped with an exhaust damper for flow control, making it unnecessary to select a separate damper assembly for the selected blower/motor assembly. It is important to note that for the Bin Vent plenum models, only TWO (2) plenum silencer mounting configurations will work without interfering with roof opening procedures. For the Bin Vent insertable models, only ONE (1) possible plenum silencer mounting configuration will work.

Although the plenum silencer primarily reduces noise levels, it is also equipped with a built-in exhaust damper. The plenum silencer mounting configuration varies between the Bin Vent plenum and insertable models. For the Bin Vent plenum model, there are two possible mounting configurations. For the Bin Vent insertable model, there is only ONE possible mounting configuration. The blower/motor plenum silencers are shipped loose and must be assembled and installed concurrently with the blower/motor assembly. Mount the plenum silencer to the side of the cabinet by drilling holes into the cabinet using the existing holes in the silencer adapter mounting plate as a guide. Fasten down using the 1/4-in thread cutting screws provided. Refer to the below illustration and the installation drawing shipped with the plenum silencer instructions.



Plenum Silencer Installation

Troubleshooting

Problem	Probable Cause	Remedy
Fan blower and motor do not start	Improper motor wire size	Rewire using the correct wire gauge as specified by national and local codes.
	Not wired correctly	Check and correct motor wiring for supply voltage. See motor manufacturer's wiring diagram. Follow wiring diagram and the National Electric Code.
	Collector not wired for available voltage	Correct wiring for proper supply voltage.
	Input circuit down	Check power supply to motor circuit on all leads.
	Electrical supply circuit down	Check power supply circuit for proper voltage. Check for fuse or circuit breaker fault. Replace as necessary.
	Damaged motor	Replace damaged motor.
Fan blower and motor start, but do not stay running	Incorrect motor starter installed	Check for proper motor starter and replace if necessary.
	Access doors are open or not closed tight	Close and tighten access doors. See Filter Installation.
	Electrical circuit overload	Check that the power supply circuit has sufficient power to run all equipment.
Clean-air outlet discharging dust	Filters not installed correctly	See Filter Installation.
	Filter damage, dents in the end caps, gasket damage, or holes in media	Replace filters as necessary. Use only genuine Donaldson replacement parts. See Filter Installation.
	Access cover(s) loose	Tighten access doors securely. See Filter Installation.
Insufficient airflow	Fan rotation backwards	Proper fan rotation is clockwise from the top of the collector. The fan can be viewed through the back of the motor. See Preliminary Start-Up Check.
	Access doors open or not closed tight	Check that all access doors are in place and secured.
	Fan exhaust area restricted	Check fan exhaust area for obstructions. Remove material or debris. Adjust damper flow control.
	Filters need replacement	Remove and replace using genuine Donaldson replacement filters. See Filter Removal and Installation.

Problem	Probable Cause	Remedy
Insufficient airflow continued	Lack of compressed air	See Rating and Specification Information for compressed air supply requirements.
	Pulse cleaning not energized	Use a voltmeter to check the solenoid valves in the control panel. Check pneumatic lines for kinks or obstructions.
	Pulse valves leaking compressed air	Lock out all electrical power to the collector and bleed the compressed air supply. Check for debris, valve wear, pneumatic tubing fault, or diaphragm failure by removing the diaphragm cover on the pulse valves. Check for solenoid leaks or damage. If pulse valves or solenoid valves and tubing are damaged, replace.
	Solid-State timer failure	Using a voltmeter, check supply voltage to the timer board. Check and replace the fuse on the timer board if necessary. If the fuse is good and input power is present but output voltage to the solenoid is not, replace the timer board. See Solid-State Timer Installation.
	Solid-State timer out of adjustment	See Solid-State Timer and Solid-State Timer Wiring Diagram.
No display on the Delta P Controller	No power to the controller	Use a voltmeter to check for supply voltage.
	Fuse blown	Check the fuse in the control panel. See wiring diagram inside the control panel. Replace if necessary.
Display on Delta P Controller does not read zero when at rest	Out of calibration	Recalibrate as described in Delta P Maintenance Manual.
	With collector discharging outside, differential pressure is present from indoor to outdoor	Recalibrate with the pressure tubing attached as described in the Delta P Maintenance Manual.
Delta P Controller ON, but cleaning system does not start	Pressure tubing disconnected, ruptured, or plugged	Check tubing for kinks, breaks, contamination, or loose connections.
	Not wired to the timing board correctly	Connect the pressure switch on the timer board to Terminals 7 and 8 on TB3.
	Faulty relay	Using a multimeter, test relay for proper closure. Replace if necessary.

Service Notes

Date	Service Performed	Notes

Date	Service Performed	Notes

Service Notes

Date	Service Performed	Notes

The Donaldson Torit Warranty

Donaldson warrants to the original purchaser that the major structural components of the goods will be free from defects in materials and workmanship for ten (10) years from the date of shipment, if properly installed, maintained and operated under normal conditions. Donaldson warrants all other Donaldson built components and accessories including Donaldson Airlocks, TBI Fans, TRB Fans, Fume Collector products and Donaldson built Afterfilters for twelve (12) months from date of shipment. Donaldson warrants Donaldson built filter elements to be free from defects in materials and workmanship for eighteen (18) months from date of shipment. Donaldson does not warrant against damages due to corrosion, abrasion, normal wear and tear, product modification, or product misapplication. Donaldson also makes no warranty whatsoever as to any goods manufactured or supplied by others including electric motors, fans and control components. After Donaldson has been given adequate opportunity to remedy any defects in material or workmanship, Donaldson retains the sole option to accept return of the goods, with freight paid by the purchaser, and to refund the purchase price for the goods after confirming the goods are returned undamaged and in usable condition. Such a refund will be in the full extent of Donaldson's liability. Donaldson shall not be liable for any other costs, expenses or damages whether direct, indirect, special, incidental, consequential or otherwise. The terms of this warranty may be modified only by a special warranty document signed by a Director, General Manager or Vice President of Donaldson. To ensure proper operational performance of the equipment, use only genuine Donaldson replacement parts. THERE EXIST NO OTHER REPRESENTATIONS, WARRANTIES OR GUARANTEES EXCEPT AS STATED IN THIS PARAGRAPH AND ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED ARE HEREBY EXPRESSLY EXCLUDED AND DISCLAIMED.

Donaldson
FILTRATION SOLUTIONS

Parts and Service

For genuine Donaldson replacement filters and parts, call the Parts Express Line. For faster service, have unit's model and serial number, quantity, part number, and description available.

Donaldson Company, Inc.
Torit
PO Box 1299
Minneapolis, MN 55440-1299
U.S.A.

800-365-1331 USA
800-343-3639 within Mexico
+52 (449) 300 24 42 Latin America

donaldsontorit@donaldson.com
donaldsontorit.com

Donaldson Company, Inc. is the leading designer and manufacturer of dust, mist, and fume collection equipment used to control industrial-air pollutants. Our equipment is designed to help reduce occupational hazards, lengthen machine life, reduce in-plant maintenance requirements, and improve product quality.

Printed in USA

IOM 4939000 (ENG), Revision 7
August 2015

Donaldson
Torit®

POWERCORE® CP FILTER PACK

ENGINEERED FOR DUST COLLECTION

- Ultra-Web® fine fiber media ensures longer filter life at a significantly lower pressure drop
- Superior particle release due to surface filtration
- Fluted media construction prevents bridging in fibrous or agglomerative applications
- Smaller and lightweight filter pack design with built-in handles
- Easy filter changeout for quicker maintenance — no tools required
- MERV* 13 filtration efficiency rating (standard)
- MERV* 15 filtration efficiency rating (optional)

PowerCore
A Donaldson Filtration Technology

PowerCore® CP Filter Pack
(Also available in Standard, Spunbond and Anti-Static)

PROVEN TECHNOLOGY THAT PERFORMS

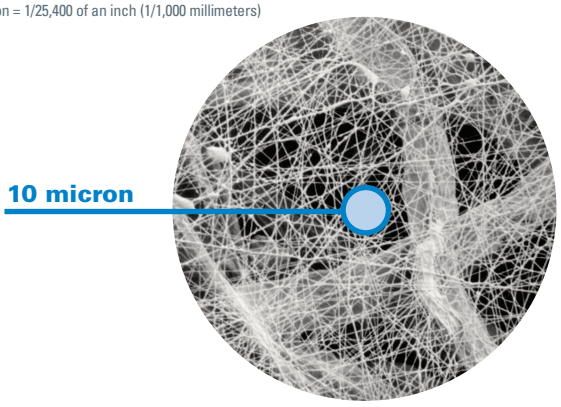
Proven and proprietary Ultra-Web® filter media delivers longer filter life, cleaner air and greater cost savings than other traditional filter media. It is made with an electrospinning process that produces a very fine, continuous, resilient fiber of 0.2-0.3 microns in diameter.

PowerCore filter packs with Ultra-Web media keep dust on the surface of the fluted channels where it is easily cleaned off unlike conventional filter bag material that depth loads, like 16 oz. (453.6 g) polyester.

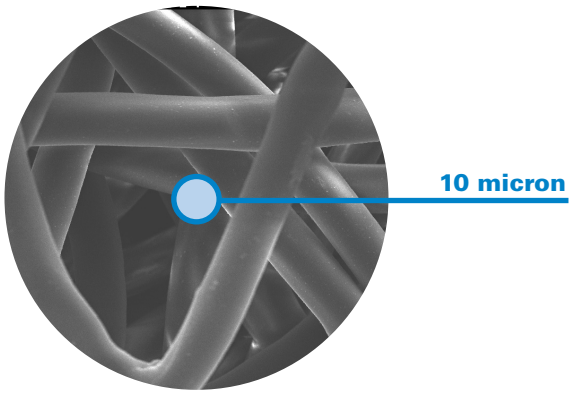
- Surface loading promotes filter cleaning and longer life
- Better pulse cleaning lowers operational pressure drop and energy use

SEM† IMAGES

1 micron = 1/25,400 of an inch (1/1,000 millimeters)



Ultra-Web Fine Fiber Technology (600x)



16 oz. Polyester (600x)

† Scanning Electron Microscope.
* Refer to Technical Information on page 2.

APPLICATIONS

- Premium performance on fine, dry, fibrous and/or abrasive dust
- Longer life in aggressive/challenging applications
- Optional Spunbond or Anti-Static (AS) media available
- Spunbond version has excellent moisture and chemical resistance

MEDIA COMPATIBILITY DATA		
Temperature Resistance	150°F 65°C	
Moisture Absorption**	Maximum 14% @ 70°F (21°C) and 65% RH	
Chemical Tolerance***	Acids: Poor Bases: Fair	Oxidants: Poor Solvents: Fair
Abrasion Resistance	Excellent per TAPPI 476 (Taber Method)	
Moisture Absorption** for Spunbond	0.2–0.5% @ 70°F (21°C) and 65% RH	
Chemical Tolerance*** for Spunbond	Acids: Good Bases: Good	Oxidants: Good Solvents: Good

SPECIFICATIONS

MEDIA COMPOSITION	
Fine Fiber Technology	Durable proprietary synthetic filter media fiber and polymer Mean fiber diameter of 0.2 µm
Substrates	• Proprietary blend of cellulose fibers • Spunbond Polyester • Anti-static (AS) version per ESD STM 11.11-2001 Resistance less than 108 OHM

MEDIA EFFICIENCY	
U.S. Efficiency Rating	MERV* 13 (standard)
U.S. Efficiency Rating	MERV* 15 (optional)

FILTER PACK CONSTRUCTION	
Standard Construction	Obround design Fluted media configuration Urethane gasket Built-in handle

CURRENT AVAILABLE CONFIGURATIONS

Collector Models	Dimensions		PowerCore		
	in	mm	Standard	Spunbond	Anti-Static
CPC	22.3 x 7.5 x 7.0	566.42 x 190.50 x 177.80	•	•	•
CPV	22.3 x 7.5 x 7.0	566.42 x 190.50 x 177.80	•	•	•

* The Minimum Efficiency Reporting Value (MERV) of this filter cartridge has been determined through independent laboratory testing using ASHRAE 52.2 (2007) test standards. The MERV rating was determined at a face velocity of 118 feet per minute (36.0 meters per minute) and loading up to four inches (101.6 millimeters) water gauge. Actual efficiency of any filter cartridge will vary according to the specific application parameters. Dust concentration, airflow, particle characteristics, and pulse cleaning methods all affect filtration efficiency.

** Environmental conditions involving combinations of high temperature, corrosive material, and moisture can reduce media strength. Reduction in media strength may compromise cartridge integrity and performance.

*** A combination of chemicals may alter fiber resistance to the specified performance level. Chemical attack may compromise cartridge integrity and performance.

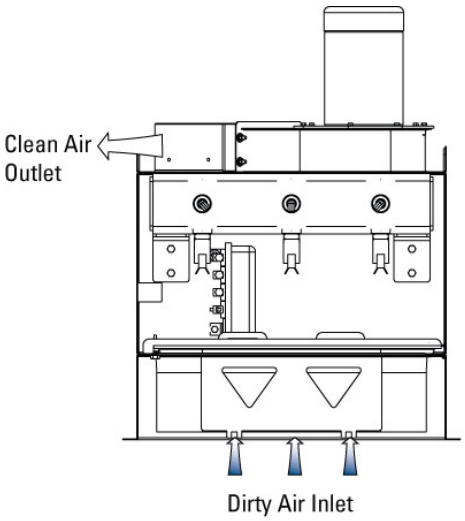
Donaldson

Significantly improve the performance of your collector with genuine Donaldson Torit replacement filters and parts. **Call Donaldson Torit today 800-365-1331.**

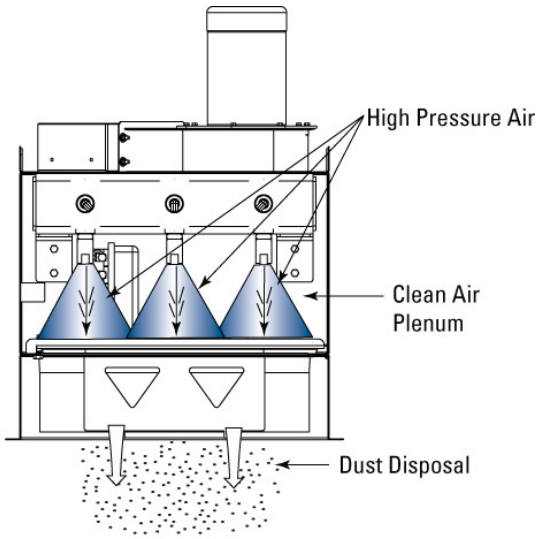
Donaldson Company, Inc.
Torit
P.O. Box 1299
Minneapolis, MN 55440-1299 U.S.A.

donaldsontorit.com
Tel 800-365-1331 (USA)
Tel 800-343-3639 (within Mexico)
donaldsontorit@donaldson.com

EXACTLY WHAT YOU NEED.™



Normal Operation (1 filter pack unit)



Filter Cleaning Operation (1 filter pack unit)

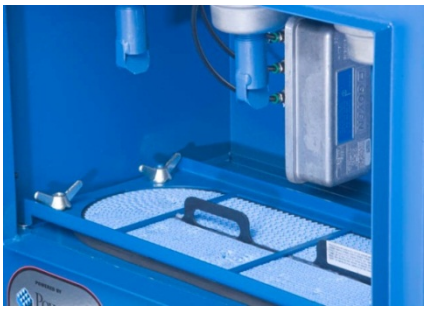
Access filter packs from clean side through access doors on top of the collector. Filter packs are changed without tools.

Torit PowerCore CPV-1 - Technical Product Summary

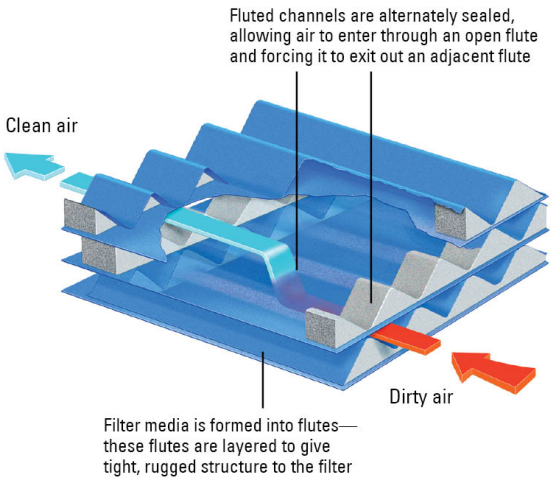
- **PAINT SYSTEM: – STANDARD FINISH:** Exterior surfaces finished with a durable, multi-coat textured liquid or powder finish that meets an ASTM B117 salt spray test of 2,000 hours on standardized test panels. The exterior color will be Torit Blue. The interior shall be primed with a durable liquid or powder primer.
- **FILTER MEDIA:** (1) CP filter packs with 63 sq ft of Ultra-Web® media for 350 cfm airflow. Operating Temperature: 150°F maximum.
- **SOLENOID ENCLOSURE:** NEMA 4
- **WEATHER COVER:** Closes air outlet of unpowered collector for outdoor installation. Protects from rain, snow, birds, and rodents.
-

Unique Features of the Torit PowerCore CPV-1 Bin Vent

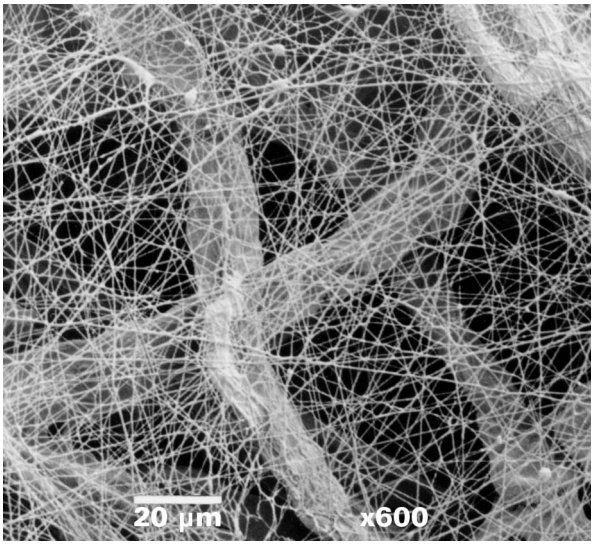
THE CPV-1 POWERCORE FILTER PACK: Is installed and removed from the clean side of the collector. Only one person is needed to perform a filter pack change. No tools are required, and there is no confined space entry. All service components are accessed from the same side.



POWERCORE FILTER PACKS: Small, lightweight, and easily handled by one person. Donaldson's PowerCore technology allows more filter material to be packaged in a smaller space: one 7 inch by 22 inch PowerCore filter pack contains as much filtering material as six 8-foot long traditional filter bags. And, the filter media inside PowerCore filter packs is our well-proven Ultra-Web advanced nanofiber technology. There is an integrated gasket that ensures a good seal with every filter change. Ultra-Web media traps more dust on the surface of the fluted channels as compared to conventional filter bag materials like depth-loading 16 oz. polyester. Surface loading greatly promotes filter cleaning. Better pulse cleaning lowers operational pressure drop and energy use.



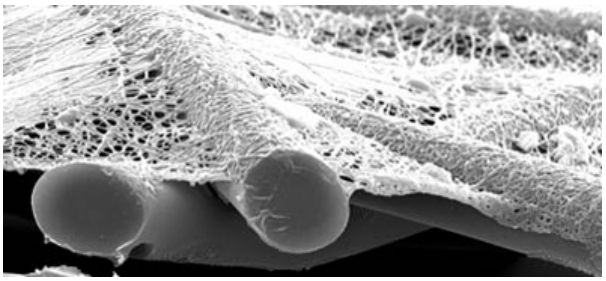
TORIT POWERCORE: Donaldson is leading the way with PowerCore, a very innovative filter technology. PowerCore filter packs combine patented Ultra-Web nanofiber technology with new media "packaging" expertise. As a result, more effective filtration area is packaged into smaller spaces. One CP Series filter pack replaces up to six traditional 8-foot long bag filters.



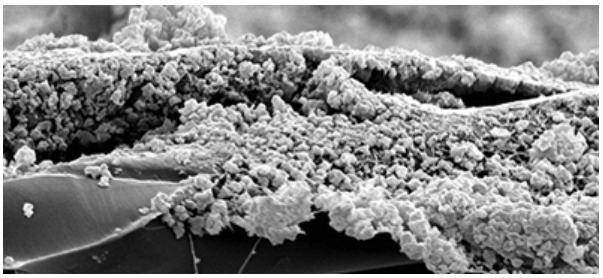
ULTRA-WEB® MEDIA: Donaldson leverages almost 100 years of air filtration experience in the development of filtration media, providing tremendous value to our customers. Ultra-Web media incorporates a durable layer of premium nanofiber, which is designed to intercept the smallest dust particles at the surface of the media. This surface loading capability improves the effectiveness of pulse cleaning which minimizes system pressure differential, thereby conserving compressed air usage and brake horsepower requirements of the system fan.

ULTRA-WEB IS MOST EFFECTIVE: Independent laboratory testing determined that Ultra-Web media has a Minimum Efficiency Reporting Value (MERV) of 15 based on the ASHRAE 52.2-1999 test standard. Ultra-Web media rated MERV 15 is the most optimized, balanced and cost-effective media in the market place, providing higher efficiency without compromising pressure drop and filter life. For more information on Ultra-Web and MERV ratings, please visit http://www2.donaldson.com/torit/corp/pages/products/ultra-webmediatechnology.aspx

SYSTEM ENERGY EFFICIENCY AND SAVINGS: Surface loading is a key characteristic of Donaldson's Ultra-Web media. It provides enhanced dust cake release, allowing particulate to easily pulse free of the filter surface. The result is reduced pressure drop across the filter throughout the entire life of the filter. This unique feature allows the system fan to deliver the required airflow while operating at much lower energy consumption levels.



Clean Ultra-Web Media



Surface Loaded Ultra-Web Media
(substrate still clean)

LOWER EMISSIONS: Independent lab testing showed 78% fewer emissions with PowerCore filter media, compared to 16 oz. polyester felt. These tests were done in accordance with ASTM D6830-02 per EPA PM 2.5. Annual emissions calculated assuming

14,400 cfm airflow rate, 265 working days per year, and 2 shifts per day. Field measurements may vary due to differences in dust contaminant and sensitivity of measurement equipment.

COMPACT PULSE CLEANING SYSTEM: Torit PowerCore CPV-1 includes a compact pulse cleaning system designed to match the pulse energy to the obround shape of the PowerCore filter pack. The resulting pulse flow effectively covers the entire media pack. It easily pulses the dust out of the fluted channels, keeping the pressure drop low and prolonging filter life. Requires 90 PSI clean dry compressed air connection to the air manifold.

Torit PowerCore CPV-1 Bin Vent Service Requirements

- **COMPRESSED AIR CONSUMPTION:** 10 scfm at 90 to 100 psig, clean, dry compressed air based on a 10 second pulse interval.

- **ELECTRIC REQUIREMENTS: :** 110V,Single phase primary electrical supply to control panel (wiring between panel and individual components by others).

- **RECOMMENDED MINIMUM MAINTENANCE CLEARANCES:** 36″ in front of filter access, 18″ at rear of unit.

APPENDIX A

TCEQ STEERS SUBMITTAL

APPENDIX B

EPN TABLE

EPN	Description	Authorization
STK1	Sand stockpile	THSC – §382.05198
STK2	Small aggregate stockpile	THSC – §382.05198
STK3	Large aggregate stockpile	THSC – §382.05198
H1	Hopper 1 – sand	THSC – §382.05198
H2	Hopper 2 – small aggregate	THSC – §382.05198
H3	Hopper 3 – large aggregate	THSC – §382.05198
B1	Weigh bin - sand	THSC – §382.05198
B2	Weigh bin – small aggregate	THSC – §382.05198
B3	Weigh bin – large aggregate	THSC – §382.05198
CB	Cement weigh batcher	THSC – §382.05198
CS1	Concrete silo 1	THSC – §382.05198
CS2	Concrete silo 2	THSC – §382.05198
CS3	Concrete silo 3	THSC – §382.05198
DC-CB	Dust collector – cement weigh batcher	THSC – §382.05198
DC-TLD	Dust collector – Ready-mix truck load point	THSC – §382.05198
DC-CS	Dust collector – cement silos	THSC – §382.05198
TEMPGEN	Temporary Generator	PBR §106.512
GEN-1	On-board Generator	PBR §106.512

THSC = TEXAS HEALTH AND SAFETY CODE

APPENDIX C

GENERATOR EMISSION CALCULATIONS

100X Concrete, LLC
Generator Emissions Calculations
May 2025

Temporary Generator

FIN: TEMPGEN

Max Power Output Rated by Manufacturer:	75	bhp
Max Operating Hours:	1,080	hr/yr

Air Contaminant	AP-42 Emission Factor	Emission Rates	
	(lb/hp-hr)	(lb/hr)	(tons/yr)
VOC (assumed = TOC)	0.0025	0.19	0.10
HAP (conservatively assumed = VOC)	0.0025	0.19	0.10
Total PM	2.20E-03	0.17	0.09
PM_{10}	2.20E-03	0.17	0.09
$PM_{2.5}$	2.20E-03	0.17	0.09
CO	6.68E-03	0.50	0.27
NO_X	0.031	2.33	1.26
SO_2	2.05E-03	0.15	0.08

On-board Generator

FIN: GEN-1

Max Power Output Rated by Manufacturer:	173	bhp
Max Operating Hours:	2,158	hr/yr

Air Contaminant	AP-42 Emission Factor	Emission Rates	
	(lb/hp-hr)	(lb/hr)	(tons/yr)
VOC (assumed = TOC)	0.0025	0.43	0.23
HAP (conservatively assumed = VOC)	0.0025	0.43	0.23
Total PM	2.20E-03	0.38	0.21
PM_{10}	2.20E-03	0.38	0.21
$PM_{2.5}$	2.20E-03	0.38	0.21
CO	6.68E-03	1.16	0.62
NO_X	0.031	5.36	2.90
SO_2	2.05E-03	0.35	0.19

Notes:
1. Emission factors for internal combustion of diesel were the obtained from AP-42 Tables 3.3-1. VOC emissions are assumed to be equal to Total Organic Compounds (TOC), which is determined as the sum of exhaust, evaporative, crankcase, and refueling losses. Emission factors for Total PM and PM2.5 are assumed to be equal to PM10 as all particulate is assumed to be ≤ 1 µm in size.
2. Total HAP emissions are conservatively assumed to be equal to those of VOC as AP-42, Table 3.3-2 (related to Speciated Organic Compound Emission Factors for Uncontrolled Diesel Engines) includes EPA-listed HAP species.
3. 100X has said that until construction of the facility has been completed, at which point a dedicated power system will be in place, a temporary generator (FIN: TEMPGEN) will be used. The temporary generator is a 2016 Multiquip DCA-70SSIU4F 56kW model from John Deere. Annual runtime for the generator is conservatively assumed to be half of the facility's planned annual operating hours, or 1,080 hours per year.
4. An on-board generator (FIN: GEN-1) will be used to run the facility equipment at all times. The permanent generators operating hours are the same as the facility's, 41.5 hours per week, 52 weeks per year for a total of 2,158 hrs/yr.

Prepared by:
Raba Kistner, Inc.
1011 West Lewis Street,
Conroe TX 77301