

# ***Hobas Pipe USA, Inc.***

**Houston, Harris County, Texas  
TCEQ Account No.: HG-1531-T  
Regulated Entity No.: RN102540812  
Customer Reference No.: CN600127757**

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**STEERS Electronic Submittal Attachment  
Amendment to PBR No. 165077 using 30 TAC §106.262  
New Grinding Room and Restraint Joint Hand Grinders**

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**March 2025**

Prepared for:  
Hobas Pipe USA, Inc.  
1413 E Richey Road  
Houston, TX 77073

Prepared by:  
Tower Environmental, Inc.  
P.O. Box 131162  
The Woodlands, TX 77393  
281-615-6594

**HOBAS PIPE USA**  
**STEERS ELECTRONIC SUBMITTAL ATTACHMENT**  
**AMENDMENT TO PBR NO. 165077 USING 30 TAC §106.262**  
**GRINDING ROOM AND RESTRAINT JOINT HAND GRINDERS**

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**SECTION 1**  
**INTRODUCTION**

**PERMIT BY RULE REGISTRATION**  
**AMENDMENT TO PBR NO. 165077 USING 30 TAC §106.262**  
**GRINDING ROOM AND RESTRAINT JOINT HAND GRINDERS**

**INTRODUCTION**

**Overall Hobas Process Description**

Hobas Pipe USA (Hobas) operates a glass fiber reinforced, aggregate fortified, thermosetting resin tubular (FRP) manufacturing plant at 1413 E. Richey Road, in Houston. The main products produced onsite are centrifugally cast FRP that are circular in cross-section with diameter from 18 to 126 inches and lengths up to 20 feet.

Hobas operates the equipment necessary to make non-circular (NC) cross-sectional pipes. The NC pipe has various oval cross-sectional profiles that are ideal for relining old city sewers. The pipe profile has a lower, narrower section of the pipe ensuring good water flow and an upper, wider profile of the pipe allowing higher volume of flow when necessary.

Hobas is also authorized to manufacture glass reinforced plastic pipes and sleeves in the continuous filament winding pipe plant (FWP). The FWP uses an open molding resin application technique that wraps resin-saturated filament around a rotating mandrel to produce pipes with high corrosion resistance.

Additionally, Hobas manufactures various types of pipe couplings using open molding resin and fiberglass hand layup techniques.

Surface repair of pipes and couplings is performed using hand grinders. These grinders are equipped with a dust collection shroud that is connected to the Spencer vacuum system. The captured dust is routed by this vacuum system through a highly efficient cartridge filtration system prior to exhausting filtered conveyance air to the atmosphere.

## **Project Description and Purpose of the Permit-by-Rule (PBR)**

Hobas plans to install a total of eight portable hand grinders with dust collection shrouds in the Fitting Grinding room and in the Restraint Joint work area. These eight hand grinders will be tied into the Spencer vacuum system using flexible ducting drops from the central vacuum duct that is connected to the existing Donaldson-Torit DFE 2-8 cartridge filter (EPN: DC-10). Each grinder will have a dedicated flexible ducting drop.

A TCEQ Table 11 and vendor information on the cartridge filter is provided in Section 5 of this document.

## **Purpose of the Permit-by-Rule (PBR)**

These new hand grinders are emission facilities that are required by Texas air quality regulations [30 TAC §116.116(a)(4)] to obtain construction and operating permit authorizations. The purpose of this submittal is to provide TCEQ with the information needed to grant permit authorizations to install these new hand grinder emission facilities and vent them to the existing Spencer dust collector (DC-10).

The Spencer Dust collector (EPN: DC-10) is authorized to operate under Permit-by-Rule 30 TAC §106.262 (PBR No. 165077). The approach used in this air permit submittal package is to request an “amendment” of PBR No. 165077 to include these new emission facilities.

## **Emission Consequence**

The emission estimates used in the current air permit for the Spencer dust collector is based on the established approach of using an outlet grainloading of 0.002 gr/dscf multiplied by the capacity vacuum air handling rated of the Spencer. There will not be a change to that capacity vacuum air handling rate or to the dust collector associated with this project. As a result, emissions will not increase over the rate currently authorized by PBR No. 165077.

The General Facilities workbook for 30 TAC §106.262 is used to authorize the addition of these eight new grinding stations. However, the workbook is not formatted for projects resulting in no emissions increase. The Project emission changes representation in the attached General Facilities workbook is arbitrarily set at 0.001 tn/yr for purposes of getting the General Facilities workbook to function.

## **Document Organization**

This TCEQ Registration for Permits-by-Rule package is organized in five sections:

- Descriptions of the overall Hobas process, the proposed Project, purpose for this submittal and the emissions consequence of this permit action are in Section 1 of this document.
- Forms PI 7-CERT and 30 TAC §106.4 Permit-by-Rule Applicability Checklist are included in Section 2.
- The PI-7 (Certification and Registration for Permits by Rule workbook) is included in Section 3.
- Emission estimates and TCEQ Table 1(a) are included in Section 4.
- Vendor information on the Spencer dust collector and TCEQ Table 11 are included in Section 5 for reference.

**SECTION 2**

**FORM PI-7-CERT  
&  
30 TAC §106.4 RULE APPLICABILITY CHECKLIST**

**Form PI-7-CERT – Certification & Registration for Permit by Rule**

**Certification and Registration for Permits by Rule**  
**Form PI-7-CERT**  
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|                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Registrant Information</b>                                                                                                                                                |
| A. Company or Other Legal Customer Name: <b>Hobas Pipe USA, Inc.</b>                                                                                                            |
| Company Official Contact Information ( <input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other _____) |
| Name: <b>Juan Gutierrez</b>                                                                                                                                                     |
| Title: <b>Director of Environmental, Health &amp; Safety</b>                                                                                                                    |
| Mailing Address: <b>1413 E. Richey Road</b>                                                                                                                                     |
| City: <b>Houston</b>                                                                                                                                                            |
| State: <b>TX</b>                                                                                                                                                                |
| ZIP Code: <b>77073</b>                                                                                                                                                          |
| Phone: <b>832-528-4464</b>                                                                                                                                                      |
| Fax:                                                                                                                                                                            |
| Email Address: <b>jgutierrez@hobaspipe.com</b>                                                                                                                                  |
| <i>All PBR registration responses will be sent via email.</i>                                                                                                                   |
| A. Technical Contact Information ( <input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other _____)     |
| Name: <b>Dennis McCormick</b>                                                                                                                                                   |
| Title: <b>Managing Consulting Engineer</b>                                                                                                                                      |
| Company Name: <b>Tower Environmental, Inc.</b>                                                                                                                                  |
| Mailing Address: <b>P.O. Box 131162</b>                                                                                                                                         |
| City: <b>The Woodlands</b>                                                                                                                                                      |
| State: <b>TX</b>                                                                                                                                                                |
| ZIP Code: <b>77393</b>                                                                                                                                                          |
| Phone Number: <b>281-615-6594</b>                                                                                                                                               |
| Fax Number:                                                                                                                                                                     |
| Email Address: <b>dmccormick@towerenv.com</b>                                                                                                                                   |

**Certification and Registration for Permits by Rule**  
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|                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>II. Facility and Site Information</b>                                                                                                                                                                  |
| A. Name and Type of Facility                                                                                                                                                                              |
| Facility Name: <b>Eight Hand Grinder Vacuum Drops</b>                                                                                                                                                     |
| Facility Type: <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary                                                                                                           |
| For portable units, please provide the serial number of the equipment being authorized below.                                                                                                             |
| Serial No(s):                                                                                                                                                                                             |
| B. Facility Location Information                                                                                                                                                                          |
| Street Address: <b>1413 E. Richey Road</b>                                                                                                                                                                |
| If there is no street address, provide written driving directions to the site and provide the closest city or town, county, and ZIP code for the site (attach description if additional space is needed). |
|                                                                                                                                                                                                           |
|                                                                                                                                                                                                           |
| City: <b>Houston</b>                                                                                                                                                                                      |
| County: <b>Harris</b>                                                                                                                                                                                     |
| ZIP Code: <b>77073</b>                                                                                                                                                                                    |
| C. TCEQ Core Data Form                                                                                                                                                                                    |
| Is the Core Data Form (TCEQ Form Number 10400) attached? <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>                                           |
| If "NO," provide customer reference number (CN) and regulated entity number (RN) below.                                                                                                                   |
| Customer Reference Number (CN): <b>CN600127757</b>                                                                                                                                                        |
| Regulated Entity Number (RN): <b>RN102540812</b>                                                                                                                                                          |
| D. TCEQ Account Identification Number (if known): <b>HG-1531-T</b>                                                                                                                                        |
| E. Type of Action                                                                                                                                                                                         |
| <input checked="" type="checkbox"/> Initial Application <input type="checkbox"/> Change to Registration                                                                                                   |
| For Change to Registration provide the Registration Number:                                                                                                                                               |
| F. PBR number(s) claimed under 30 TAC Chapter 106                                                                                                                                                         |
| (List all the individual rule number(s) that are being claimed.)                                                                                                                                          |
| <b>106.262</b>                                                                                                                                                                                            |
| 106.                                                                                                                                                                                                      |
| 106.                                                                                                                                                                                                      |
| 106.                                                                                                                                                                                                      |

**Certification and Registration for Permits by Rule**  
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|---------------------------------------------------------------------|
| <b>II. Facility and Site Information</b> <i>(continued)</i>                                                                                                                       |                               |                                |                                                                     |
| <b>G. Historical Standard Exemption or PBR</b>                                                                                                                                    |                               |                                |                                                                     |
| Are you claiming a historical standard exemption or PBR?                                                                                                                          |                               |                                | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| If "YES," enter rule number(s) and associated effective date in the spaces provided below.                                                                                        |                               |                                |                                                                     |
| Rule Number:                                                                                                                                                                      |                               | Effective Date:                |                                                                     |
| Rule Number:                                                                                                                                                                      |                               | Effective Date:                |                                                                     |
| <b>H. Previous Standard Exemption or PBR Registration Number</b>                                                                                                                  |                               |                                |                                                                     |
| Is this authorization for a change to an existing facility previously authorized under a standard exemption or PBR?                                                               |                               |                                | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| If "YES," enter previous standard exemption number(s) and PBR registration number(s) and associated effective dates in the spaces provided below.                                 |                               |                                |                                                                     |
| Standard Exemption and PBR Registration Number: 165077                                                                                                                            |                               |                                |                                                                     |
| Effective Date: 06/04/2021                                                                                                                                                        |                               |                                |                                                                     |
| <b>I. Other Facilities at this Site Authorized by Standard Exemption, PBR, or Standard Permit</b>                                                                                 |                               |                                |                                                                     |
| Are there any other facilities at this site that are authorized by an Air Standard Exemption, PBR, or Standard Permit?                                                            |                               |                                | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| If "YES," enter standard exemption number(s), PBR registration number(s), and Standard Permit registration number(s), and associated effective date in the spaces provided below. |                               |                                |                                                                     |
| Standard Exemption, PBR Registration, and Standard Permit Registration Number(s) / Effective Date:                                                                                |                               |                                |                                                                     |
| 74232 - §106.454 / 12/8/2004                                                                                                                                                      | 80993 - §106.183 / 11/16/2007 | 86099 - §106.266 / 9/22/2008   | 86710 - §106.473 / 12/5/2008                                        |
| 91794 - §106.266 / 2/26/2010                                                                                                                                                      | 76043 - §106.511 / 6/5/2018   | 152180 - §106.511 / 6/05/2018  | 162442 - §6001 / 10/02/2020                                         |
| 163329 - §106.262 / 12/9/2020                                                                                                                                                     | 165077 - §106.262 / 6/4/2021  | 165428 - §6001 / 7/15/2021     | 167814 - §106.261 / 3/04/2022                                       |
| 167815 - §106.265 / 3/09/2022                                                                                                                                                     | 169211 - §106.262 / 6/17/2022 | 166507 - §106.412/473/ 9/29/21 | 170922 - §106.433 / 12/02/2022                                      |
| 174376 - §6001 / 11/14/2023                                                                                                                                                       | 174381 - §106.495 / 11/3/2023 |                                |                                                                     |
| <b>J. Other Air Preconstruction Permits</b>                                                                                                                                       |                               |                                |                                                                     |
| Are there any other air preconstruction permits at this site?                                                                                                                     |                               |                                | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| If "YES," enter permit number(s) in the spaces provided below.                                                                                                                    |                               |                                |                                                                     |
| 55013                                                                                                                                                                             |                               |                                |                                                                     |
|                                                                                                                                                                                   |                               |                                |                                                                     |
| <b>K. Affected Air Preconstruction Permits</b>                                                                                                                                    |                               |                                |                                                                     |
| Does the PBR being claimed directly affect any permitted facility?                                                                                                                |                               |                                | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

**Certification and Registration for Permits by Rule**  
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>II. Facility and Site Information</b> <i>(continued)</i>                                                                                                                                                                                                                                                                                                                                 |
| If "YES," enter the permit number(s) in the spaces provided below.                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                             |
| L. Federal Operating Permit (FOP) Requirements (30 TAC Chapter 122 Applicability)                                                                                                                                                                                                                                                                                                           |
| 1. Is this facility located at a site that is required to obtain an FOP pursuant to 30 TAC Chapter 122? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> To Be Determined</span>                                                                                                                                    |
| If the site currently has an existing FOP, enter the permit number: <span style="color: red;">02766</span>                                                                                                                                                                                                                                                                                  |
| Check the requirements of 30 TAC Chapter 122 that will be triggered if this certification is accepted.<br><i>(check all that apply)</i>                                                                                                                                                                                                                                                     |
| <input type="checkbox"/> Initial Application for a FOP <input type="checkbox"/> Significant Revision for an SOP <input type="checkbox"/> Minor Revision for an SOP<br><input checked="" type="checkbox"/> Operational Flexibility/Off Permit Notification for an SOP <input type="checkbox"/> Revision for a GOP<br><input type="checkbox"/> To be Determined <input type="checkbox"/> None |
| 2. Identify the type(s) of FOP issued and/or FOP application(s) submitted/pending for the site.<br><i>(check all that apply)</i>                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> SOP <input type="checkbox"/> GOP <input type="checkbox"/> GOP application/revision (submitted or under APD review)<br><input type="checkbox"/> N/A <input type="checkbox"/> SOP application/revision (submitted or under APD review)                                                                                                                    |
| <b>III. Fee Information</b> <i>(See Section VII. for address to send fee or go to <a href="http://www.tceq.texas.gov/epay">www.tceq.texas.gov/epay</a> to pay online.)</i>                                                                                                                                                                                                                  |
| A. Fee Requirements                                                                                                                                                                                                                                                                                                                                                                         |
| Is a fee required per Title 30 TAC § 106.50? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                                                                                                                                                                                         |
| If "NO," specify the exception. There are three exceptions to paying a PBR fee. <i>(check all that apply)</i>                                                                                                                                                                                                                                                                               |
| 1. Registration is solely to establish a federally enforceable emission limit. <span style="float: right;"><input type="checkbox"/></span>                                                                                                                                                                                                                                                  |
| 2. Registration is within six months of an initial PBR review, and it is addressing deficiencies, administrative changes, or other allowed changes. <span style="float: right;"><input type="checkbox"/></span>                                                                                                                                                                             |
| 3. Registration is for a remediation project (30 TAC § 106.533). <span style="float: right;"><input type="checkbox"/></span>                                                                                                                                                                                                                                                                |
| B. Fee Amount                                                                                                                                                                                                                                                                                                                                                                               |
| 1. A \$100 fee is required if <i>any</i> of the answers in III.B.1 are "YES."                                                                                                                                                                                                                                                                                                               |
| This business has less than 100 employees. <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>                                                                                                                                                                                                                                           |
| This business has less than \$6 million dollars in annual gross receipts. <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>                                                                                                                                                                                                            |
| This registration is submitted by a governmental entity with a population of less than 10,000. <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>                                                                                                                                                                                       |
| This registration is submitted by a non-profit organization. <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>                                                                                                                                                                                                                         |

**Certification and Registration for Permits by Rule**  
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>III. Fee Information</b> (See Section VII. for address to send fee or go to <a href="http://www.tceq.texas.gov/epay">www.tceq.texas.gov/epay</a> to pay online.) (continued)                                                                                                                                                                                                                        |
| 2. A \$450 fee is required for all other registrations                                                                                                                                                                                                                                                                                                                                                 |
| A. Payment Information                                                                                                                                                                                                                                                                                                                                                                                 |
| Check/money order/transaction or voucher number:                                                                                                                                                                                                                                                                                                                                                       |
| Individual or company name on check:                                                                                                                                                                                                                                                                                                                                                                   |
| Fee Amount:                                                                                                                                                                                                                                                                                                                                                                                            |
| Was the fee paid online? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                                                                                                                                                                                                                        |
| <b>IV. Technical Information Including State and Federal Regulatory Requirements</b><br><b>Check the appropriate box to indicate what is included in your submittal.</b><br><b>NOTE:</b> Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in a deficiency of the project. |
| A. PBR requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)                                                                                                                                                                                                                                                                               |
| Did you demonstrate that the general requirements in 30 TAC § 106.4 are met? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                                                                                                                                                                    |
| Did you demonstrate that the individual requirements of the specific PBR are met? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                                                                                                                                                               |
| B. Confidential Information Included (If confidential information is submitted with this registration, all confidential pages must be properly marked "CONFIDENTIAL.") <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>                                                                                                                          |
| C. Process Flow Diagram: <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>                                                                                                                                                                                                                                                                        |
| D. Process Description: <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                                                                                                                                                                                                                         |
| E. Maximum Emissions Data and Calculations: <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                                                                                                                                                                                                     |
| <b>Note:</b> If the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under <b>30 TAC Chapter 101, Subchapter H, Division 3</b> , the owner/operator of these facilities must possess NO <sub>x</sub> allowances equivalent to the actual NO <sub>x</sub> emissions from these facilities.                                                                  |
| F. Is this certification being submitted to certify the emissions for the entire site? <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</span>                                                                                                                                                                                                          |
| If "NO," include a summary of the specific facilities and emissions being certified.                                                                                                                                                                                                                                                                                                                   |
| G. Table 1(a) (Form 10153) Emission Point Summary: <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</span>                                                                                                                                                                                                                                              |
| H. Distances from Property Line and Nearest Off-Property Structure                                                                                                                                                                                                                                                                                                                                     |
| Distance from this facility's emission release point to the nearest property line: 190 feet                                                                                                                                                                                                                                                                                                            |
| Distance from this facility's emission release point to the nearest off-property structure: 384 feet                                                                                                                                                                                                                                                                                                   |

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**IV. Technical Information Including State and Federal Regulatory Requirements**

**Check the appropriate box to indicate what is included in your submittal.**

**NOTE:** Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in a deficiency of the project.

**I. Project Status**

Has the company implemented the project or waiting on a response from TCEQ? ☒ Implemented ☐ Waiting

**J. Projected Start of Construction and Projected Start of Operation Dates:**

Projected Start of Construction (provide date): 03/17/2025

Projected Start of Operation (provide date): 03/31/2025

**V. Delinquent Fees**

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 is paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ website at: [www.tceq.texas.gov/agency/financial/fees/delin/index.html](http://www.tceq.texas.gov/agency/financial/fees/delin/index.html).

**VI. Signature For Registration and Certification**

The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which this application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7; the Texas Health and Safety Code, Chapter 382, the Texas Clean Air Act (TCAA); the air quality rules of the Texas Commission on Environmental Quality; or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.

Name (printed): Juan Gutierrez

Signature (original signature required): Juan Gutierrez

Date: March 2025

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**VII. Submitting Copies of the Certification and Registration**

**Copies must be sent as listed below.**

**Processing delays may occur if copies are not sent as noted.**

| Who                                                | Where                                                                                                                                                                                                                                                  | What                                                                                                                              |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Air Permits Initial Review Team (APIRT)            | Regular, Certified, Priority Mail<br>MC 161, P.O. Box 13087<br>Austin, Texas 78711-3087<br>Hand Delivery, Overnight Mail<br>MC 161, 12100 Park 35 Circle, Building C, Third Floor<br>Austin, Texas 78753                                               | Originals Form PI-7-CERT, Core Data Form, and all attachments. Not required if using ePermits <sup>1</sup> .                      |
| Revenue Section, TCEQ                              | Regular, Certified, Priority Mail<br>MC 214, P.O. Box 13088 Austin, Texas 78711-3088<br>Hand Delivery, Overnight Mail<br>MC 214, 12100 Park 35 Circle, Building A, Third Floor<br>Austin, Texas 78753                                                  | Original Money Order or Check, Copy of Form PI-7-CERT, and Core Data Form. Not required if fee was paid using ePay <sup>2</sup> . |
| Appropriate TCEQ Regional Office                   | To find your Regional Office address, go to the TCEQ website at <a href="http://www.tceq.texas.gov/agency/directory/region">www.tceq.texas.gov/agency/directory/region</a> , or call (512) 239-1250.                                                   | Copy of Form PI-7-CERT, Core Data Form, and all attachments. Not required if using ePermits <sup>1</sup>                          |
| Appropriate Local Air Pollution Control Program(s) | To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD website at <a href="http://www.tceq.texas.gov/permitting/air/local_programs.html">www.tceq.texas.gov/permitting/air/local_programs.html</a> , or call (512)-239-1250 | Copy of Form PI-7-CERT, Core Data Form, and all attachments.                                                                      |

<sup>1</sup> ePermits located at [www3.tceq.texas.gov/steers/](http://www3.tceq.texas.gov/steers/)

<sup>2</sup> ePay located at [www.tceq.texas.gov/epay](http://www.tceq.texas.gov/epay)

## **30 TAC §106.4 Rule Applicability Checklist**

**Texas Commission on Environmental Quality**  
**Permit by Rule Applicability Checklist**  
**Title 30 Texas Administrative Code § 106.4**

The following checklist was developed by the Texas Commission on Environmental Quality (TCEQ), **Air Permits Division**, to assist applicants in determining whether or not a facility meets all of the applicable requirements. Before claiming a specific Permit by Rule (PBR), a facility must first meet all of the requirements of **Title 30 Texas Administrative Code § 106.4** (30 TAC § 106.4), "Requirements for Permitting by Rule." Only then can the applicant proceed with addressing requirements of the specific Permit by Rule being claimed.

The use of this checklist is not mandatory; however, it is the responsibility of each applicant to show how a facility being claimed under a PBR meets the general requirements of 30 TAC § 106.4 and also the specific requirements of the PBR being claimed. If all PBR requirements cannot be met, a facility will not be allowed to operate under the PBR and an application for a construction permit may be required under 30 TAC § 116.110(a).

Registration of a facility under a PBR can be performed by completing **Form PI-7** (Registration for Permits by Rule) or **Form PI-7-CERT** (Certification and Registration for Permits by Rule). The appropriate checklist should accompany the registration form. Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the question number. The PBR forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division website at: [www.tceq.texas.gov/permitting/air/nav/air\\_pbr.html](http://www.tceq.texas.gov/permitting/air/nav/air_pbr.html).

| 1. 30 TAC § 106.4(a)(1) and (4): Emission Limits                                                                                                                                                                                                                                                       | Answer                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| List emissions in tpy for <b>each</b> facility (add additional pages or table if needed):                                                                                                                                                                                                              |                                                                     |
| Are the SO <sub>2</sub> , PM <sub>10</sub> , VOC, or other air contaminant emissions claimed for <b>each</b> facility in this PBR submittal less than 25 tpy?                                                                                                                                          | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| Are the NO <sub>x</sub> and CO emissions claimed for each facility in this PBR submittal less than 250 tpy?                                                                                                                                                                                            | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| <i>If the answer to both is "Yes," continue to the question below. If the answer to either question is "No," a <b>PBR cannot be claimed</b>.</i>                                                                                                                                                       |                                                                     |
| Has any facility at the property had public notice and opportunity for comment under 30 TAC Section 116 for a regular permit or permit renewal? (This does not include public notice for voluntary emission reduction permits, grandfathered existing facility permits, or federal operating permits.) | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| <i>If "Yes," skip to Section 2. If "No," continue to the questions below.</i>                                                                                                                                                                                                                          |                                                                     |
| If the site has had no public notice, please answer the following:                                                                                                                                                                                                                                     |                                                                     |
| Are the SO <sub>2</sub> , PM <sub>10</sub> , VOC, or other emissions claimed for <b>all</b> facilities in this PBR submittal less than 25 tpy?                                                                                                                                                         | <input type="checkbox"/> YES <input type="checkbox"/> NO            |
| Are the NO <sub>x</sub> and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy?                                                                                                                                                                                           | <input type="checkbox"/> YES <input type="checkbox"/> NO            |
| <i>If the answer to both questions is "Yes," continue to Section 2.</i>                                                                                                                                                                                                                                |                                                                     |
| <i>If the answer to either question is "No," a <b>PBR cannot be claimed</b>. A permit will be required under Chapter 116.</i>                                                                                                                                                                          |                                                                     |

**Texas Commission on Environmental Quality**  
**Permit by Rule Applicability Checklist**  
**Title 30 Texas Administrative Code § 106.4**

| 2. <b>30 TAC § 106.4(a)(2): Nonattainment Check</b>                                                                                                                                                                                                                                                                                                                                                  | Answer                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Are the facilities to be claimed under this PBR located in a designated ozone nonattainment county?                                                                                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| <i>If "Yes," please indicate which county by checking the appropriate box to the right.</i>                                                                                                                                                                                                                                                                                                          |                                                                     |
| (Moderate) - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties:                                                                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> HGB                             |
| (Moderate) - Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise counties:                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> DFW                                        |
| <i>If "Yes," to any of the above, continue to the next question. If "No," continue to Section 3.</i>                                                                                                                                                                                                                                                                                                 |                                                                     |
| Does this project trigger a nonattainment review?                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| Is the project's potential to emit (PTE) for emissions of VOC or NO <sub>x</sub> increasing by 100 tpy or more?                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| <i>PTE is the maximum capacity of a stationary source to emit any air pollutant under its worst-case physical and operational design unless limited by a permit, rules, or made federally enforceable by a certification.</i>                                                                                                                                                                        |                                                                     |
| Is the site an existing major nonattainment site and are the emissions of VOC or NO <sub>x</sub> increasing by 40 tpy or more?                                                                                                                                                                                                                                                                       | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| <i>If needed, attach contemporaneous netting calculations per nonattainment guidance.</i>                                                                                                                                                                                                                                                                                                            |                                                                     |
| Additional information can be found at:<br><a href="http://www.tceq.texas.gov/permitting/air/forms/newsource/tables/nsr_table8.html">www.tceq.texas.gov/permitting/air/forms/newsource/tables/nsr_table8.html</a> and<br><a href="http://www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html">www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html</a>                            |                                                                     |
| <i>If "Yes," to any of the above, the project is a major source or a major modification and a <b>PBR may not be used</b>. A Nonattainment Permit review must be completed to authorize this project. If "No," continue to Section 3.</i>                                                                                                                                                             |                                                                     |
| 3. <b>30 TAC § 106.4(a)(3): Prevention of Significant Deterioration (PSD) check</b>                                                                                                                                                                                                                                                                                                                  |                                                                     |
| Does this project trigger a review under PSD rules?                                                                                                                                                                                                                                                                                                                                                  |                                                                     |
| To determine the answer, review the information below:                                                                                                                                                                                                                                                                                                                                               |                                                                     |
| Are emissions of any regulated criteria pollutant increasing by 100 tpy of any criteria pollutant at a named source?                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source?                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| Are emissions increasing above significance levels at an existing major site?                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| PSD information can be found at:<br><a href="http://www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10173tbl.pdf">www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10173tbl.pdf</a> and<br><a href="http://www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html">www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html</a> |                                                                     |
| <i>If "Yes," to any of the above, a <b>PBR may not be used</b>. A PSD Permit review must be completed to authorize the project.</i>                                                                                                                                                                                                                                                                  |                                                                     |
| <i>If "No," continue to Section 4.</i>                                                                                                                                                                                                                                                                                                                                                               |                                                                     |

**Texas Commission on Environmental Quality**  
**Permit by Rule Applicability Checklist**  
**Title 30 Texas Administrative Code § 106.4**

| 4. <b>30 TAC § 106.4(a)(6): Federal Requirements</b>                                                                                                                                                                         | Answer                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Will all facilities under this PBR meet applicable requirements of Title 40 Code of Federal Regulations (40 CFR) Part 60, New Source Performance Standards (NSPS)?                                                           | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA |
| If "Yes," which Subparts are applicable? <i>(answer below.)</i>                                                                                                                                                              |                                                                                                 |
|                                                                                                                                                                                                                              |                                                                                                 |
| Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT) standards?                                                          | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA |
| If "Yes," which Subparts are applicable? <i>(answer below.)</i>                                                                                                                                                              |                                                                                                 |
|                                                                                                                                                                                                                              |                                                                                                 |
| Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs)?                                                                      | <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA |
| If "Yes," which Subparts are applicable? <i>(answer below.)</i>                                                                                                                                                              |                                                                                                 |
|                                                                                                                                                                                                                              |                                                                                                 |
| <i>If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applicable standards.</i>                                                                                                    |                                                                                                 |
| 5. <b>30 TAC § 106.4(a)(7): PBR prohibition check</b>                                                                                                                                                                        |                                                                                                 |
| Are there any air permits at the site containing conditions which prohibit or restrict the use of PBRs?                                                                                                                      | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                             |
| <i>If "Yes," PBRs may not be used or their use must meet the restrictions of the permit. A new permit or permit amendment may be required.</i>                                                                               |                                                                                                 |
| List permit number(s):                                                                                                                                                                                                       |                                                                                                 |
|                                                                                                                                                                                                                              |                                                                                                 |
| 6. <b>30 TAC § 106.4(a)(8): NO<sub>x</sub> Cap and Trade</b>                                                                                                                                                                 |                                                                                                 |
| Is the facility located in Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?                                                                                                          | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                             |
| <i>If "Yes," answer the question below.</i>                                                                                                                                                                                  |                                                                                                 |
| <i>If "No," continue to Section 7.</i>                                                                                                                                                                                       |                                                                                                 |
| Will the proposed facility or group of facilities obtain required allowances for NO <sub>x</sub> if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                             |

**Texas Commission on Environmental Quality**  
**Permit by Rule Applicability Checklist**  
**Title 30 Texas Administrative Code § 106.4**

|                                                                                                             |                                                                     |            |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------|
| <b>7. Highly Reactive Volatile Organic Compounds (HRVOC) check</b>                                          |                                                                     |            |
| Is the facility located in Harris County?                                                                   | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |            |
| <i>If "Yes," answer the next question. If "No," skip to the box below.</i>                                  |                                                                     |            |
| Will the project be constructed after June 1, 2006?                                                         | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |            |
| <i>If "Yes," answer the next question.</i>                                                                  |                                                                     |            |
| <i>If "No," skip to the box below.</i>                                                                      |                                                                     |            |
| Will one or more of the following HRVOC be emitted as a part of this project?                               | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |            |
| <i>If "Yes," complete the information below:</i>                                                            |                                                                     |            |
| <b>Information</b>                                                                                          | <b>lb/hr</b>                                                        | <b>tpy</b> |
| ▶ 1,3-butadiene                                                                                             |                                                                     |            |
| ▶ all isomers of butene (e.g., isobutene [2-methylpropene or isobutylene])                                  |                                                                     |            |
| ▶ alpha-butylene (ethylethylene)                                                                            |                                                                     |            |
| ▶ beta-butylene (dimethylethylene, including both cis- and trans-isomers)                                   |                                                                     |            |
| ▶ ethylene                                                                                                  |                                                                     |            |
| ▶ propylene                                                                                                 |                                                                     |            |
| Is the facility located in Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |            |
| <i>If "Yes," answer the next question. If "No," the checklist is complete.</i>                              |                                                                     |            |
| Will the project be constructed after June 1, 2006?                                                         | <input type="checkbox"/> YES <input type="checkbox"/> NO            |            |
| <i>If "Yes," answer the next question. If "No," the checklist is complete.</i>                              |                                                                     |            |
| Will one or more of the following HRVOC be emitted as a part of this project?                               | <input type="checkbox"/> YES <input type="checkbox"/> NO            |            |
| <i>If "Yes," complete the information below:</i>                                                            |                                                                     |            |
| <b>Information</b>                                                                                          | <b>lb/hr</b>                                                        | <b>tpy</b> |
| ▶ ethylene                                                                                                  |                                                                     |            |
| ▶ propylene                                                                                                 |                                                                     |            |

## **SECTION 3**

### **PERMITS BY RULE GENERAL FACILITIES WORKBOOK**

### General Information

This sheet provides general rule information for both General Facility PBRs.

**Instructions:**

Please fill out all input / yellow cells unless marked optional. Attach the federal applicability review to the application for each project.  
An optional supplemental information field has been provided at the end of this worksheet. This field should be used for demonstration of rule or policy compliance.

#### I. Project Information

| Requested Information                                                                                                                                                                                                                                                                                             | Response                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name                                                                                                                                                                                                                                                                                                      | Hobas Pipe USA, Inc.                                                                                                                                                                                                                                                                                                          |
| Site Description                                                                                                                                                                                                                                                                                                  | At the site, Hobas operates a glass fiber reinforced, aggregate fortified, thermosetting resin tubular product manufacturing plant. The tubular products range in diameter from 18 inches to 126 inches.                                                                                                                      |
| General Project Description                                                                                                                                                                                                                                                                                       | Hobas is installing eight hand grinder stations that will be used to finish the surface of fiberglass reinforced pipe and couplings. Each grinder will be equipped with a dust shroud that will be used to capture and route grinding particulate matter to an existing Donaldson-Torit DFE 2-8 cartridge filter for removal. |
| I acknowledge that I am submitting an authorized TCEQ workbook and any necessary attachments. Except for inputting the requested data and adjusting row height, I have not changed the TCEQ application workbook in any way, including but not limited to changing formulas, formatting, content, or protections. | I agree                                                                                                                                                                                                                                                                                                                       |
| Please indicate which rule, or both, are applicable to this project:                                                                                                                                                                                                                                              | §106.262                                                                                                                                                                                                                                                                                                                      |
| Does this project authorize a new facility, modify a New Source Review (NSR) Case-by-Case existing permitted facility, or both?                                                                                                                                                                                   | New Facility                                                                                                                                                                                                                                                                                                                  |
| Is this site only authorized under Permits by Rule?                                                                                                                                                                                                                                                               | No                                                                                                                                                                                                                                                                                                                            |
| Is this located at a federal NSR major source (PSD or NNSR)?                                                                                                                                                                                                                                                      | No                                                                                                                                                                                                                                                                                                                            |
| Is there an associated NSR Case-by-Case permit?                                                                                                                                                                                                                                                                   | No                                                                                                                                                                                                                                                                                                                            |

#### II. General Rule Requirements for §106.261 and/or §106.262

| Requested Information                                                                                                                                                                                                                                     | Response                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Has a §106.4 checklist or compliance demonstration been included in the documentation submitted to TCEQ?                                                                                                                                                  | Yes                                                  |
| Is this registration for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect?                                                                                                            | No                                                   |
| Is this registration for any change to any facility authorized under another section of this chapter or authorized under a standard permit?                                                                                                               | No                                                   |
| Are facilities or changes located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located? | Yes                                                  |
| Are there any changes to or additions of any existing air pollution abatement equipment?                                                                                                                                                                  | No                                                   |
| Will there be any visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source in amounts greater than 5.0% opacity in any six-minute period?                                                                  | No                                                   |
| Please include the following information for any pollution control equipment related to this registration: how the equipment operates, and the control efficiency achieved.                                                                               | Information enclosed in Section 5 of this submittal. |

#### III. Associated Emission Increases

Any upstream and/or downstream actual emission increases that result from a project for which this PBR is claimed need to be authorized appropriately. Any associated upstream and/or downstream emissions authorized as part of the PBR claim will need to be included as part of the total new or increased emissions, unless: 1) these emissions stay below current authorized emission thresholds; 2) there is not a change to any underlying air authorizations for the applicable units associated with BACT, health and environmental impacts, or other representations (i.e. construction plans, operating procedures, throughputs, maximum emission rates, etc.); and 3) this claim is certified via PI-7 CERT or APD-CERT. Notwithstanding the exclusion of any upstream and/or downstream emissions under this PBR claim, the total of all emission increases, including upstream and/or downstream actual emission increases, are required to be part of the PBR registration to determine major new source review applicability under Title 30 TAC Chapter 116. The emission increases associated with the PBR claim and all upstream and/or downstream actual emission increases may not circumvent major new source review requirements under 30 TAC Chapter 116.

| Requested Information                                                                                                 | Response |
|-----------------------------------------------------------------------------------------------------------------------|----------|
| Is this project related to physical or operational changes to facilities authorized under an NSR Case-by-Case permit? | No       |
|                                                                                                                       |          |

#### IV. Hours of Operation

Project emission increases associated with a change to a facility that only result in an annual emissions increase can be authorized as part of the PBR claim if the following information is met: 1) the hourly emissions stay at or below current authorized emission thresholds; 2) there is not a change to any underlying air authorizations for the applicable units associated with BACT or health and environmental impacts; and 3) this claim is certified via PI-7- CERT. The annual emission increases associated with the PBR claim may not circumvent major new source review requirements under 30 TAC Chapter 116.

| Requested Information                                                     | Response |
|---------------------------------------------------------------------------|----------|
| Does this project include only annual increases for permitted facilities? | No       |
|                                                                           |          |

| V. Federal Applicability                                                                                                                                                                                                                                        |                                                       |                 |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------|----------------------|
| Complete separate federal permitting application materials to determine applicability of Nonattainment (NA) and Prevention of Significant Deterioration (PSD) applicability, including netting if applicable. Include this analysis in your permit application. |                                                       |                 |                      |
| <b>Requested Information</b>                                                                                                                                                                                                                                    | <b>Response</b>                                       |                 |                      |
| Please select the county that this project is located in.                                                                                                                                                                                                       | Harris                                                |                 |                      |
| County attainment status as of November 4, 2022:                                                                                                                                                                                                                | This county has a nonattainment designation for ozone |                 |                      |
| If applicable, is this facility located within the portion of the county that is in nonattainment?                                                                                                                                                              | Yes                                                   |                 |                      |
| PSD Applicability Summary                                                                                                                                                                                                                                       |                                                       |                 |                      |
| <b>Requested Information</b>                                                                                                                                                                                                                                    | <b>Response</b>                                       |                 |                      |
| Is this a named source?                                                                                                                                                                                                                                         | No                                                    |                 |                      |
| Is netting required for the PSD Analysis for this project?                                                                                                                                                                                                      | No                                                    |                 |                      |
| Pollutant                                                                                                                                                                                                                                                       | Project Increase (TPY)                                | Threshold (TPY) | PSD Review Required? |
| CO                                                                                                                                                                                                                                                              |                                                       |                 |                      |
| NO <sub>x</sub>                                                                                                                                                                                                                                                 |                                                       |                 |                      |
| PM                                                                                                                                                                                                                                                              | 0                                                     | 250             | No                   |
| PM <sub>10</sub>                                                                                                                                                                                                                                                | 0                                                     | 250             | No                   |
| PM <sub>2.5</sub>                                                                                                                                                                                                                                               | 0                                                     | 250             | No                   |
| SO <sub>2</sub>                                                                                                                                                                                                                                                 |                                                       |                 |                      |
| Ozone (as VOC)                                                                                                                                                                                                                                                  |                                                       |                 |                      |
| Ozone (as NO <sub>x</sub> )                                                                                                                                                                                                                                     |                                                       |                 |                      |
| Pb                                                                                                                                                                                                                                                              |                                                       |                 |                      |
| H <sub>2</sub> S                                                                                                                                                                                                                                                |                                                       |                 |                      |
| TRS                                                                                                                                                                                                                                                             |                                                       |                 |                      |
| Reduced sulfur compounds (including H <sub>2</sub> S)                                                                                                                                                                                                           |                                                       |                 |                      |
| H <sub>2</sub> SO <sub>4</sub>                                                                                                                                                                                                                                  |                                                       |                 |                      |
| Fluoride (excluding HF)                                                                                                                                                                                                                                         |                                                       |                 |                      |
| CO <sub>2</sub> e                                                                                                                                                                                                                                               |                                                       |                 |                      |
| Determination:                                                                                                                                                                                                                                                  |                                                       |                 |                      |
| Nonattainment Applicability Summary                                                                                                                                                                                                                             |                                                       |                 |                      |
| Is netting required for the nonattainment analysis for this project?                                                                                                                                                                                            | No                                                    |                 |                      |
| Pollutant                                                                                                                                                                                                                                                       | Project Increase (TPY)                                | Threshold (TPY) | NA Review Required?  |
|                                                                                                                                                                                                                                                                 |                                                       |                 |                      |
|                                                                                                                                                                                                                                                                 |                                                       |                 |                      |
| Ozone (as VOC)                                                                                                                                                                                                                                                  | 0                                                     | 25              | No                   |
| Ozone (as NO <sub>x</sub> )                                                                                                                                                                                                                                     | 0                                                     | 25              | No                   |
| Determination:                                                                                                                                                                                                                                                  |                                                       |                 |                      |
| Supplemental Information (Optional)                                                                                                                                                                                                                             |                                                       |                 |                      |
|                                                                                                                                                                                                                                                                 |                                                       |                 |                      |

### 30 TAC §106.262 Checklist

This sheet provides compliance demonstration and emission thresholds for 30 TAC §106.262.

**Instructions:**

Please fill out all input / yellow cells unless marked optional. For multiple K values, please submit additional copies of this worksheet, or submit the multiple projects version. For the same chemical, the worst-case distance shall be used.

**I. §106.262(a)(2)**

New or increased emissions, including fugitives, of chemicals shall not be emitted in a quantity greater than five tons per year nor in a quantity greater than E as determined using the equation  $E = L/K$ .

Are the chemicals being registered included in Table 262 of 30 TAC §106.262(a)(2)?

|  |     |
|--|-----|
|  | N/A |
|--|-----|

Distance to nearest off-plant receptor (feet):

|     |
|-----|
| 384 |
|-----|

K value:

|  |       |
|--|-------|
|  | 109.6 |
|--|-------|

*Chemicals listed in the 1997 Edition of the ACGIH TLV and BEI Guide are available in this worksheet beginning on Row 36.*

**Please select applicable chemicals from dropdown and enter emission rates:**

Are the chemicals being registered not listed in Table 262, but have a published TLV in the 1997 Edition of the ACGIH TLV and BEI Guide?

|     |
|-----|
| Yes |
|-----|

Please select applicable chemicals from dropdown and enter emission rates:

[illegible]

NOTE: The time weighted average (TWA) Threshold Limit Value (TLV) published by the American Conference of Governmental Industrial Hygienists (ACGIH), in its TLVs and BEIs (Biological Exposure Indices) guide (**1997 Edition**) shall be used for compounds not included in the table. The Short Term Exposure Level (STEL) or Ceiling Limit (annotated with a "C") published by the ACGIH shall be used for compounds that do not have a published TWA TLV. This section cannot be used if the compound is not listed in the table or does not have a published TWA TLV, STEL, or Ceiling Limit in the ACGIH TLVs and BEIs guide.

Emission thresholds specified in this table may be displayed as rounded values. Actual emission rates for each chemical should not exceed the emission threshold as calculated using the corresponding distance and L value.

**II. §106.262(a)(3)-(a)(4)**

Notification must be provided using Form PI-7 within ten days following the installation or modification of the facilities.

☐ I agree

\*Does this registration handle any of the following chemicals?

|    |
|----|
| No |
|----|

\*Chemical List: acrolein, allyl chloride, ammonia (anhydrous), arsine, boron trifluoride, bromine, carbon disulfide, chlorine, chlorine dioxide, chlorine trifluoride, chloroacetaldehyde, chloropicrin, chloroprene, diazomethane, diborane, diglycidyl ether, dimethylhydrazine, ethyleneimine, ethyl mercaptan, fluorine, formaldehyde (anhydrous), hydrogen bromide, hydrogen chloride, hydrogen cyanide, hydrogen fluoride, hydrogen selenide, hydrogen sulfide, ketene, methylamine, methyl bromide, methyl hydrazine, methyl isocyanate, methyl mercaptan, nickel carbonyl, nitric acid, nitric oxide, nitrogen dioxide, oxygen difluoride, ozone, pentaborane, perchloromethyl mercaptan, perchloryl fluoride, phosgene, phosphine, phosphorus trichloride, selenium hexafluoride, stibine, liquified sulfur dioxide, sulfur pentafluoride, and tellurium hexafluoride.

\*\*\*These chemicals shall be handled at least 300 feet from the nearest property line and 600 feet from any off-plant receptor, and the cumulative amount of any of these chemicals resulting from one or more authorizations under this section (but not including permit authorizations) shall not exceed 500 pounds on the plant property and all listed chemicals shall be handled only in unheated containers operated in compliance with the United States Department of Transportation regulations (49 Code of Federal Regulations, Parts 171-178).

This sheet provides the emissions summary from chemicals authorized under §106.261 and/or §106.262.

**Instructions:**

If the company is representing a different method to demonstrate compliance, please include a note next to the applicable chemical and attach additional sheets to the application.

[illegible][illegible]

## Emission Point Summary Table

The emission point summary table provided here is optional.

**Instructions:**

Please fill out the Emission Point Summary Table for the project emissions, including all emissions and rules being registered. Additional rows can be added if needed.

 "Other" Criteria Pollutant (Optional) |[illegible]

[Click here to go to List of 106.261 Chemical sheet](#)

## **SECTION 4**

### **AIR EMISSION ESTIMATES & TCEQ TABLE 1(A)**

## **Air Emission Estimates**

**Spencer Vacuum Unit Dust Collector**  
**FIN: SPEN-DROPS, EPN: DC-10**

**CURRENTLY AUTHORIZED EMISSION LEVELS**

Basis:

Air Handling Rate

2,250 cf/min

Outlet Grain Loading Expectation (BACT)

0.002 gr/cf

**Hourly PM/PM10/PM2.5 Emissions**

$$\left| \frac{2,250 \text{ cf}}{\text{min}} \right| \left| \frac{0.002 \text{ gr}}{\text{cf}} \right| \left| \frac{\text{lb}}{7000 \text{ gr}} \right| \left| \frac{60 \text{ min}}{\text{hr}} \right| = \left| \frac{0.039 \text{ lb}}{\text{hr}} \right|$$

**Annual PM/PM10/PM2.5 Emissions**

$$\left| \frac{0.039 \text{ lb}}{\text{hr}} \right| \left| \frac{8760 \text{ hr}}{\text{yr}} \right| \left| \frac{\text{tn}}{2,000 \text{ lb}} \right| = \left| \frac{0.169 \text{ tn}}{\text{yr}} \right|$$

## **TCEQ Table 1(a) – Emission Point Summary**

**Table 1(a) Emission Point Summary  
Air Contaminant Data (Page 1)**

|                         |                |
|-------------------------|----------------|
| Date:                   | March 1, 2025  |
| Permit No.:             |                |
| Regulated Entity No.:   | RN102540812    |
| Area Name:              | Hobas Pipe USA |
| Customer Reference No.: | CN600127757    |

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on the Table

[illegible]

EPN = Emission Point

FIN = Facility Identification Number

## **SECTION 5**

### **TCEQ TABLE 11 & DUST COLLECTOR INFORMATION**

## **TCEQ Table 11**

**Texas Commission on Environmental Quality**

**Table 11  
Fabric Filters**

Tables, checklists, and guidance documents pertaining to air quality permits are available from the Texas Commission on Environmental Quality (TCEQ) Air Permits Division (APD) website at [www.tceq.texas.gov/permitting/air](http://www.tceq.texas.gov/permitting/air).

| A. Emission Point Number (EPN) and Emission Point Name |                                                              |                                                                |                                       |                                    |
|--------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------|------------------------------------|
| EPN: <b>DC-10</b>                                      |                                                              | Emission Point Name: <b>Spencer Vacuum Unit Dust Collector</b> |                                       |                                    |
| B. Manufacturer and Model Numbers (No.)                |                                                              |                                                                |                                       |                                    |
| Manufacturer: <b>Donaldson Torit</b>                   |                                                              | Model No.: <b>DFE 2-8</b>                                      |                                       |                                    |
| C Name of Source(s) or Equipment Being Controlled      |                                                              |                                                                |                                       |                                    |
| Name                                                   | EPN                                                          | FIN                                                            |                                       |                                    |
| <b>Spencer Vacuum Unit</b>                             | <b>DC-10</b>                                                 | <b>SPEN-DROPS</b>                                              |                                       |                                    |
|                                                        |                                                              |                                                                |                                       |                                    |
| D. Type of Particulate Controlled                      |                                                              |                                                                |                                       |                                    |
| <b>Grinding Dust</b>                                   |                                                              |                                                                |                                       |                                    |
| E. Gas Stream Characteristics                          |                                                              |                                                                |                                       |                                    |
| Design Maximum                                         | Average Expected Flow Rate (acfm)                            | Gas Stream Temperature (°F)                                    | Particulate Grain Loading (grain/scf) |                                    |
|                                                        |                                                              |                                                                | Inlet:                                | Outlet:                            |
| Pressure Drop (inches of H <sub>2</sub> O)             | Water Vapor Content of Effluent Stream (lb water/lb dry air) |                                                                | Fan Requirements                      |                                    |
| <b>2 to 5 " wc</b>                                     |                                                              |                                                                | hp: <b>100</b>                        | ft <sup>3</sup> /min.: <b>2250</b> |
| F. Particulate Distribution (By Weight)                |                                                              |                                                                |                                       |                                    |
| Micron Range                                           | Inlet %                                                      |                                                                | Outlet %                              |                                    |
| 0.0-0.5                                                |                                                              |                                                                |                                       |                                    |
| 0.5-1.0                                                |                                                              |                                                                |                                       |                                    |
| 1.0-5.0                                                |                                                              |                                                                |                                       |                                    |
| 5-10                                                   |                                                              |                                                                |                                       |                                    |
| 10-20                                                  |                                                              |                                                                |                                       |                                    |
| over 20                                                |                                                              |                                                                |                                       |                                    |
| G. Filter Characteristics                              |                                                              |                                                                |                                       |                                    |
| Filtering Velocity (acfm/ft <sup>2</sup> of Cloth)     | Bag Diameter (inches)                                        | Bag Length (feet)                                              | Total Number of Bags                  |                                    |
| <b>1.1</b>                                             |                                                              |                                                                |                                       |                                    |

**Texas Commission on Environmental Quality**

**Table 11  
Fabric Filters**

|                                                                              |                                                                      |
|------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <b>H. Bag Rows</b>                                                           |                                                                      |
| Indicate the arrangement of the baghouse bag filter rows.                    | <input type="checkbox"/> Staggered <input type="checkbox"/> Straight |
| <b>I. Walkways</b>                                                           |                                                                      |
| Will walkways be provided between banks of bags?                             | <input type="checkbox"/> YES <input type="checkbox"/> NO             |
| <b>J. Filtering Material</b>                                                 |                                                                      |
| Identify the filtering media: <b>Triagonal Ultra-Web® cartridge filters.</b> |                                                                      |
|                                                                              |                                                                      |
|                                                                              |                                                                      |
| Any additional coating or treatment of the baghouse material: <b>N/A</b>     |                                                                      |
|                                                                              |                                                                      |
|                                                                              |                                                                      |
| <b>K. Cleaning of the Filter(s)</b>                                          |                                                                      |
| Describe Bag Cleaning Method and Cycle:                                      |                                                                      |
| <b>Pulse air cleaning system</b>                                             |                                                                      |
|                                                                              |                                                                      |
|                                                                              |                                                                      |
| <b>L. Cost</b>                                                               |                                                                      |
| Capital Installed Cost: <b>\$135,000</b>                                     |                                                                      |
| Annual Operating Cost:                                                       |                                                                      |

Note: Attach the details regarding the principle of operation and an assembly drawing (front and top view) of the abatement device drawn to scale clearly showing the design, size and shape.

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

## **Dust Collector Information**

Donaldson®  
Torit®

## DOWNFLO® EVOLUTION DUST COLLECTORS

UP TO **40%**  
FEWER FILTERS  
& SMALLER FOOTPRINT



NOW AVAILABLE WITH



**iCue™**

CONNECTED FILTRATION SERVICES

# EVOLUTIONARY DESIGN

## THE ORIGINATORS OF THE CARTRIDGE COLLECTOR

The breakthrough performance of the Downflo® Evolution (DFE) family of cartridge dust collectors is the result of Donaldson Torit's relentless drive to improve its products and exceed customer expectations. Donaldson Torit put decades of industry experience to work to produce a new, best-in-class dust collector capable of reducing equipment size and number of required filters by up to 40% compared to a typical cartridge collector. A smaller collector helps lower the initial purchase price, reduces filter replacement costs, and opens up valuable manufacturing floor space.

This state of the art collector, coupled with Donaldson's industry-leading Ultra-Web® fine fiber filtration technology, is truly an intelligent design.

### REVOLUTIONARY AIRFLOW MANAGEMENT

Directs incoming air to an intelligent dropout zone for reduced filter loading

### BREAKTHROUGH FILTER CLEANING

MaxPulse™ Cleaning System delivers 27% more cleaning energy to filtration media

### INDUSTRY-LEADING FILTRATION DESIGN

Positions more filtration media in beneficial locations and ensures easy, leak-free installation with Ultra-Web MERV15 media as standard

### RESULTS

A smaller cartridge collector with fewer filters and the lowest cost of ownership

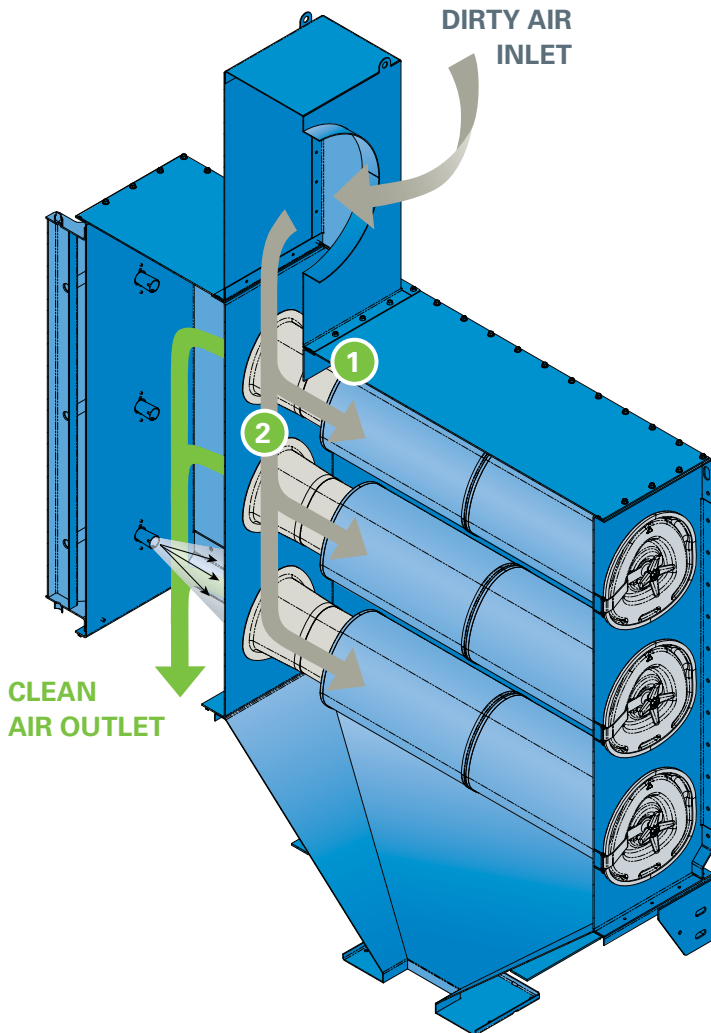
### iCUE™ CONNECTED FILTRATION SERVICE

Now available with the option of Donaldson's iCue connected filtration service, an IoT enabled service designed to prompt timely maintenance, helping improve production uptime and reduce operating costs.



# ENGINEERED AIRFLOW MANAGEMENT

The DFE's game-changing dust collection performance is achieved through a combination of design features that result in significant customer benefits.



## INTELLIGENT DROPOUT ZONE

- 1 Metal venturis**
- 2 Dropout zone ensures**
  - Pre-separation of heavy dust particles
  - Lower pressure loss than baffle design used by competitors
  - Minimal filter element abrasion

## DOWNFLO EVOLUTION

---

## INTELLIGENT DESIGN

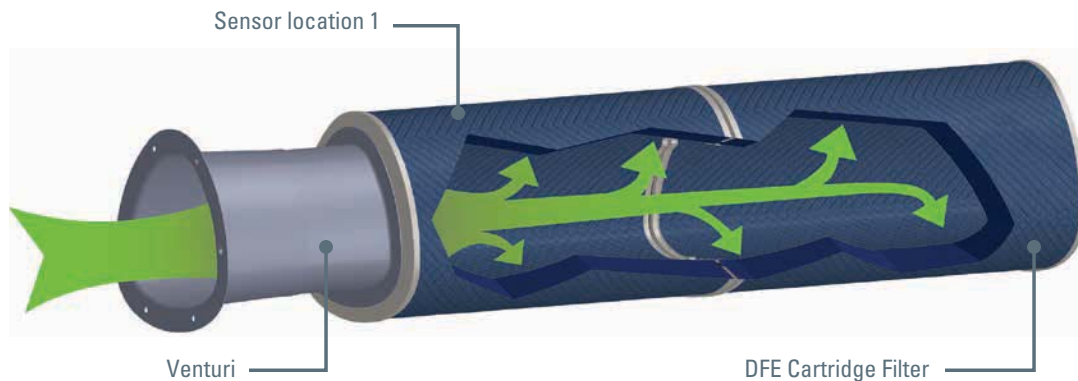
# MAXPULSE™ CLEANING SYSTEM

## SUPERIOR CLEANING PERFORMANCE

The DFE provides breakthrough cleaning performance resulting in improved filtration capacity without sacrificing filter life or taxing compressed air consumption. Typical pulse-jet cleaned dust collectors deliver only a fraction of the compressed air energy to clean the filtration media. The DFE's proprietary, MaxPulse Cleaning System minimizes energy losses by focusing on the cleaning air's exact path and delivers uniform cleaning energy to all effective filtration media.

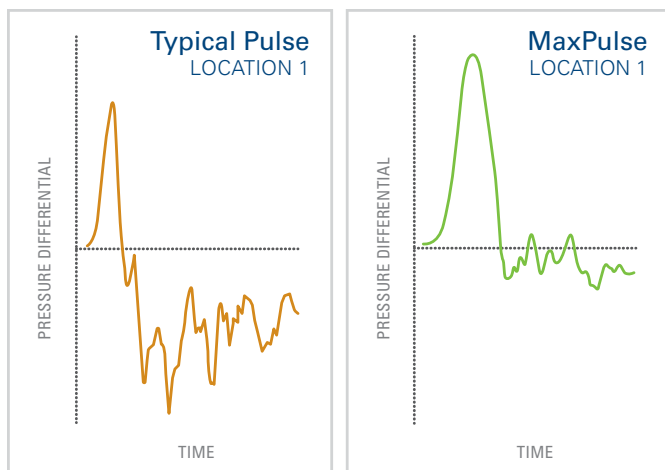
The cleaning action starts with the release of compressed air from the diaphragm valve through a unique, double-diverging pulse nozzle. The nozzle precisely controls the initial pulse expansion to minimize energy losses associated with uncontrolled compressed air expansion. Donaldson Torit's proprietary, pulse-shaping design distributes the cleaning energy evenly to match the unique shape of the filter.

After exiting the pulse nozzle, the cleaning air flows through smooth, easy transitions into the filter interior ensuring the compressed air expands naturally without abrupt, energy-wasting restrictions, sharp edges, or volume changes. More effective filtration media results in increased airflow capacities through Donaldson Torit dust collection equipment.



## PROVEN IN PULSE TEST BENCH ANALYSIS

Significantly higher pulse pressures are recorded and sustained at critical locations along the filtration media profile. More uniform cleaning results in more effective filtration media over the life of the filter.

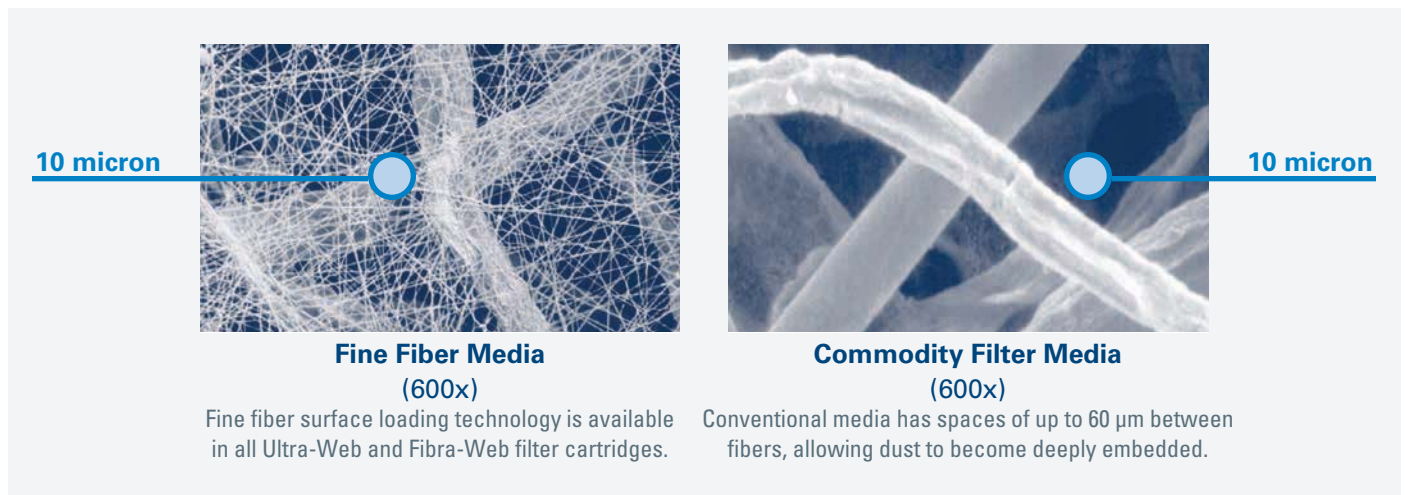


**27%**  
**HIGHER**  
IMPULSE CLEANING  
ENERGY DELIVERED

# CARTRIDGE FILTER TECHNOLOGY

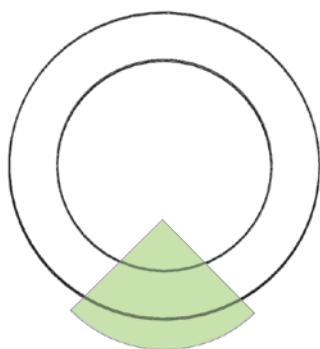
## HIGH PERFORMANCE FILTERS

The DFE filter design is another indication of Donaldson Torit's commitment to technical research and development. The distinguishing factor in our filters is Ultra-Web filtration technology. Ultra-Web fine fiber media uses a layer of fibers 0.2 to 0.3 microns in diameter to capture contaminants on the surface of the media less than one micron in size. The resulting dust cake is easily cleaned off during the automated collector cleaning cycles providing cleaner air longer, with a minimum MERV\* 15 efficiency rating based on ASHRAE 52.2 - 2007 test standards.

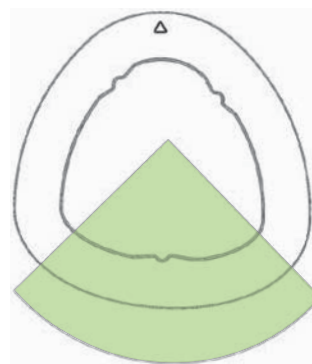


## TRIANGONAL FILTER SHAPE

The ultimate goal of any pulse-cleaned dust collector is to remove the contaminant from the airstream and get the contaminant into a containment vessel under the equipment's hopper. The DFE's unique shape positions more filter media at the bottom of the cartridge element so pulse-cleaning energy directs the ejected dust toward its ultimate destination – the containment vessel!



**25%**  
**ROUND FILTER**



**27%**  
**DFETRIANGONAL FILTER**

The DFE triangular filter features more filter media at the bottom of the cartridge element than any other cartridge on the market.

# QUICK FILTER CHANGEOUT

The interior of the metal filter element endcaps features a specific profile that engages with the collection equipment's support yoke. The asymmetrical yoke design ensures proper filter installation, seal, and cleaning alignment.



**1** Loosen cover with 4-lobe knob. Knob has center lug enabling power tool operation.

**2** Open hinged filter access cover.

**3** Filter supported by asymmetrical suspension yoke ensure proper installation for worry-free operation.

**\*** No special tools are required, and you never have to enter a confined space or dirty air plenum to do the job.

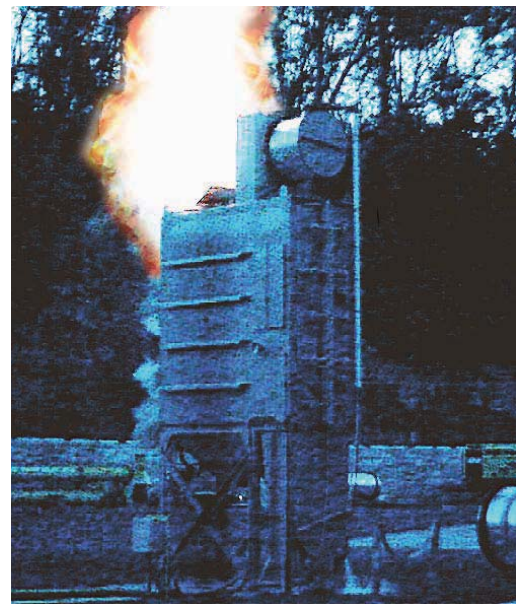
# COMBUSTIBLE DUST MANAGEMENT

## DEFLAGRATION ISOLATION

Donaldson Torit's DFE assists operators' combustible dust management. A DFE collector was tested to determine if the collector could isolate a deflagration and stop flames or sparks from passing into the clean air plenum. When applied in conjunction with effective explosion protection strategies including inlet isolation and explosion venting, the performance results support conformance to Chapter 5 Performance-Based Design Option requirements of both NFPA 654 - to prevent the "extension of the flame front outside the compartment or equipment of origin except where intentionally vented to a safe location" [5.2.5 (2)] and NFPA 69 - to "limit the risk of flame spread from vessel to vessel via interconnecting ducts." [5.5.3.4]

## TEST RESULTS<sup>1</sup>

- In all tests, the filters successfully isolated the deflagration and allowed no flame or sparks to pass into the clean air plenum.
- The filter media and support frames were found to be free from any plastic deformation due to deflagration loads at dirty air plenum pressures up to and including 8.3 psig.

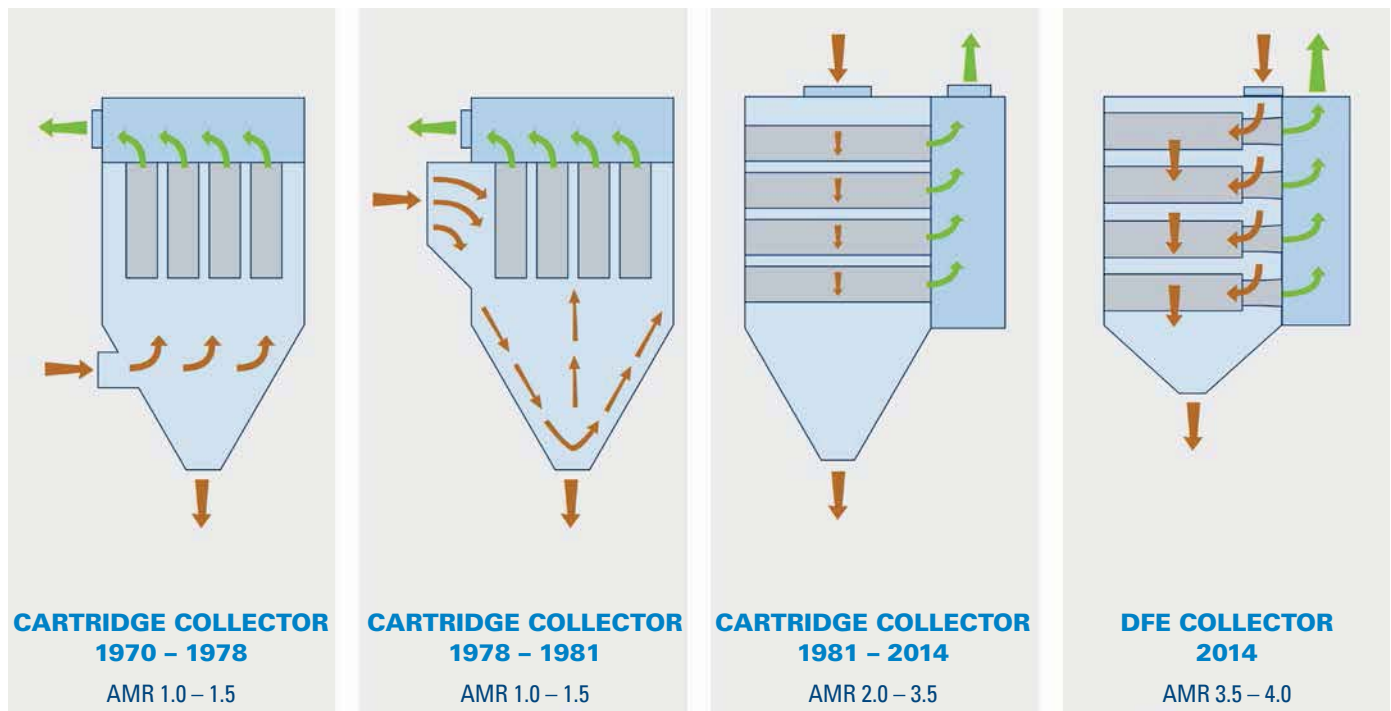


<sup>1</sup> Tests conducted on a Downflo Evolution (DFE) cartridge collector with standard FR Cartridge filter elements, top-mounted explosion vents, and without secondary filtration. Tests performed with airflow through the collector at typical air volumes. Tests repeated with no airflow through the unit. Tests used clean filters and were repeated with 'dirty' filters loaded with enough dust (cornstarch) to generate a 4-inch differential pressure across the filters and tubesheet. (Cornstarch dried to less than 2% moisture by weight was used as the dust / fuel for all tests.) Optical detectors sensitive in the IR band were mounted in multiple locations within the clean air plenum to determine flame transmission through the filter media.

# THE CONTINUING EVOLUTION OF CARTRIDGE COLLECTION

Donaldson Torit has been at the forefront of cartridge collection for over 40 years, and has developed game-changing solutions others can only attempt to imitate. Now, the game is changing again! With the DFE's airflow design, MaxPulse cleaning system, triangonal filter shape, and industry-leading Ultra-Web filtration media, customers benefit from a smaller collector containing fewer filters.

## AIR-TO-MEDIA (AMR) RATIO EVOLUTION – WELD FUME

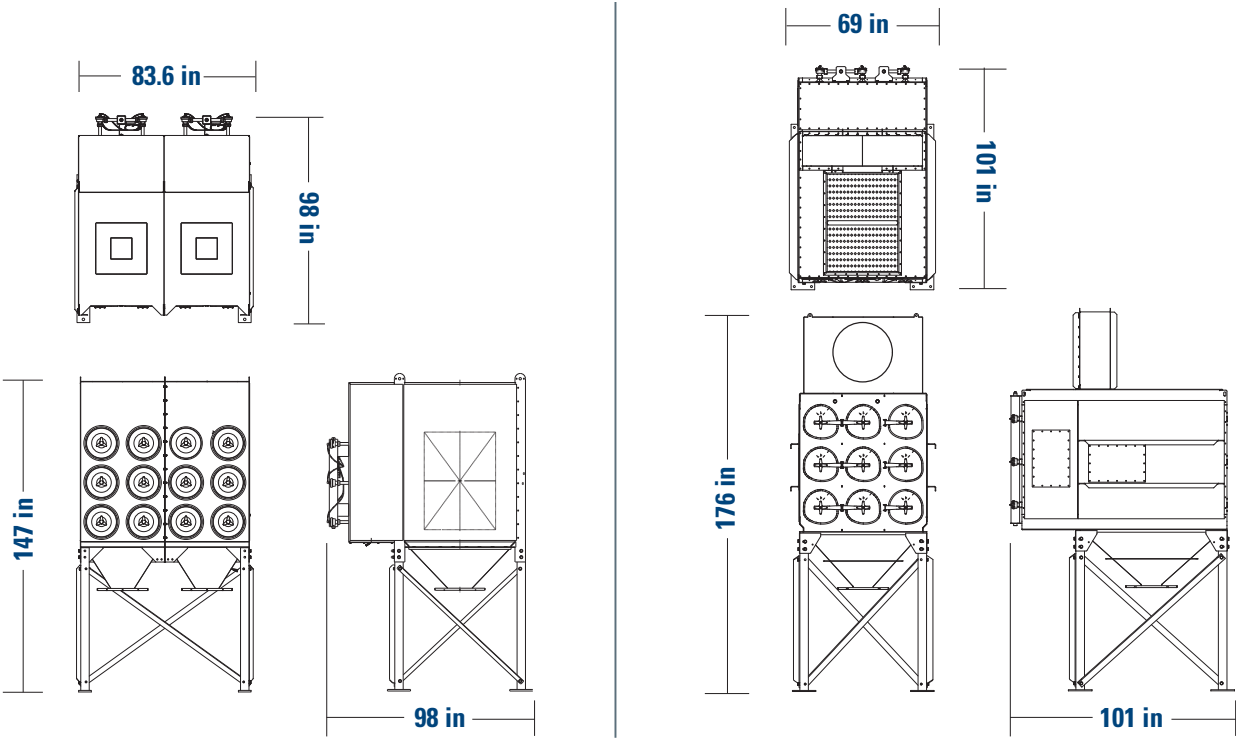


The graphic above shows an example of the Air-to-Media ratios for a typical weld fume application. The DFE features higher AMRs, smaller footprint, fewer filters, superior performance, and lowest cost of ownership!

**UP TO 40%**  
FEWER FILTERS  
& SMALLER FOOTPRINT

# EQUIPMENT COMPARISON

The DFE dust collector has increased filtration capacity compared to traditional cartridge collectors. This advantage reduces required collector footprint, with fewer filters, and lowers the total cost of ownership.



**TRADITIONAL  
CARTRIDGE 3-24**

|                      |
|----------------------|
| Automatic Shot Blast |
| 10,500 cfm           |
| 56.9 ft²             |
| 147 in               |
| 24                   |
| 2                    |
| 13 scfm              |

|                |
|----------------|
| Application    |
| Airflow        |
| Footprint      |
| Height         |
| Filter Count   |
| Hopper Outlets |
| Compressed Air |

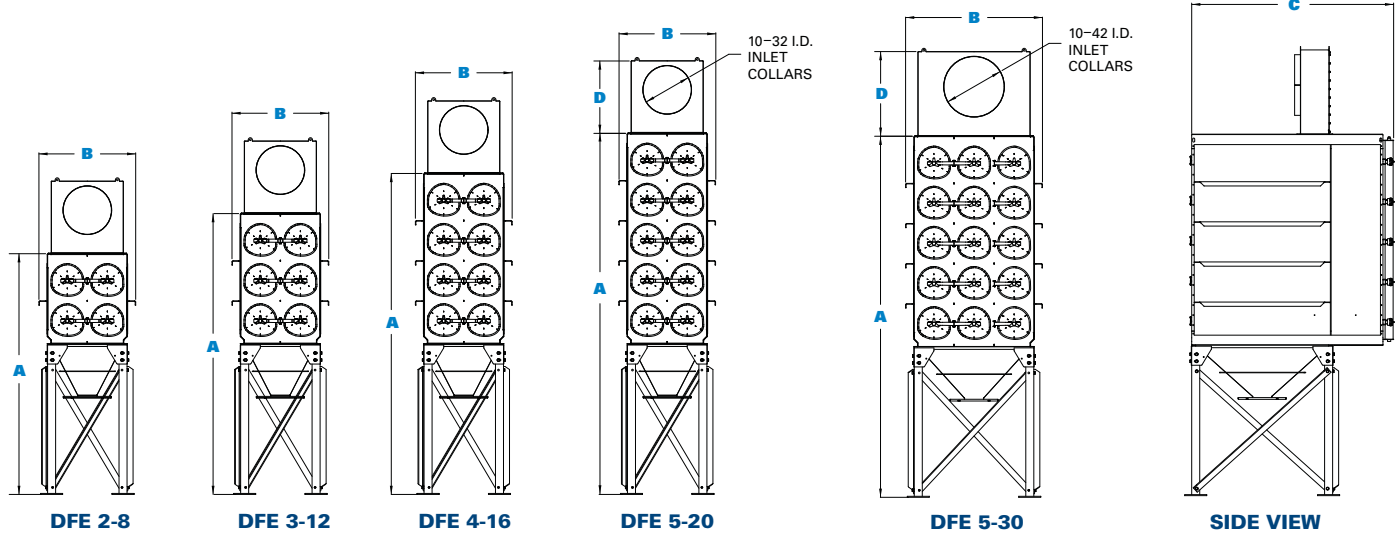
**DOWNFLO  
EVOLUTION 3-18**

|                      |
|----------------------|
| Automatic Shot Blast |
| 10,500 cfm           |
| 50.3 ft²             |
| 176 in               |
| 18                   |
| 1                    |
| 10 scfm              |

## OPERATING CONDITIONS FOR DFE COLLECTORS

|                                                                             |                                                                   |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Seismic Spectral Acceleration                                               | $S_s = 1.5\text{ g}$ $S_1 = 0.6\text{ g}$ per IBC 2009 FIG 1613.5 |
| Basic Wind Speed and Exposure (mph/kph)                                     | 90/145 Exposure C per IBC 2009                                    |
| Housing Rating (inches of H <sub>2</sub> O/millimeters of H <sub>2</sub> O) | -25 – +10 / -635 – +254                                           |
| Compressed Air Required (psi/bar)                                           | 90-100/6.2-6.9                                                    |
| Operating Temperature                                                       | 150°F/66°C                                                        |
| Housing Construction                                                        | 3/16" (4.8mm) - 10-gauge steel                                    |
| Control Voltage                                                             | 120 VAC -or- 24 VDC                                               |

# DIMENSIONS & SPECIFICATIONS



| DFE Model <sup>1</sup> | No. of Filters | Ultra-Web Filter Area |         | No. of Valves | Approx. Shipping Weight <sup>2</sup> |       | Dimensions |       |     |       |     |       |
|------------------------|----------------|-----------------------|---------|---------------|--------------------------------------|-------|------------|-------|-----|-------|-----|-------|
|                        |                |                       |         |               |                                      |       | A          |       | B   |       | C   |       |
|                        |                | ft²                   | m²      |               | lb                                   | kg    | in         | mm    | in  | mm    | in  | mm    |
| DFE 2-4                | 4              | 1,016                 | 94.4    | 4             | 1,890                                | 857   | 110        | 2,794 | 48  | 1,219 | 75  | 1,905 |
| DFE 3-6                | 6              | 1,524                 | 141.6   | 6             | 2,300                                | 1,043 | 130        | 3,302 | 48  | 1,219 | 75  | 1,905 |
| DFE 2-8                | 8              | 2,032                 | 188.8   | 4             | 2,300                                | 1,043 | 120        | 3,048 | 48  | 1,219 | 101 | 2,565 |
| DFE 2-12               | 12             | 3,048                 | 283.2   | 6             | 2,900                                | 1,316 | 120        | 3,048 | 68  | 1,727 | 101 | 2,565 |
| DFE 3-12               | 12             | 3,048                 | 283.2   | 6             | 2,800                                | 1,270 | 140        | 3,556 | 48  | 1,219 | 101 | 2,565 |
| DFE 4-16               | 16             | 4,064                 | 377.6   | 8             | 3,300                                | 1,497 | 160        | 4,064 | 48  | 1,219 | 101 | 2,565 |
| DFE 3-18               | 18             | 4,572                 | 424.8   | 9             | 3,500                                | 1,588 | 140        | 3,556 | 68  | 1,727 | 101 | 2,565 |
| DFE 5-20               | 20             | 5,080                 | 471.9   | 10            | 3,850                                | 1,746 | 180        | 4,572 | 48  | 1,219 | 101 | 2,565 |
| DFE 3-24               | 24             | 6,096                 | 566.3   | 12            | 4,500                                | 2,041 | 140        | 3,556 | 88  | 2,235 | 101 | 2,565 |
| DFE 4-24               | 24             | 6,096                 | 566.3   | 12            | 4,090                                | 1,855 | 160        | 4,064 | 68  | 1,727 | 101 | 2,565 |
| DFE 5-30               | 30             | 7,620                 | 707.9   | 15            | 4,800                                | 2,177 | 180        | 4,572 | 68  | 1,727 | 101 | 2,565 |
| DFE 4-32               | 32             | 8,128                 | 755.1   | 16            | 5,200                                | 2,359 | 160        | 4,064 | 88  | 2,235 | 101 | 2,565 |
| DFE 3-36               | 36             | 9,144                 | 849.5   | 18            | 5,700                                | 2,585 | 140        | 3,556 | 128 | 3,251 | 101 | 2,565 |
| DFE 5-40               | 40             | 10,160                | 943.9   | 20            | 6,200                                | 2,812 | 180        | 4,572 | 88  | 2,235 | 101 | 2,565 |
| DFE 3-48               | 48             | 12,192                | 1,132.7 | 24            | 8,200                                | 3,719 | 140        | 3,556 | 168 | 4,267 | 101 | 2,565 |
| DFE 4-48               | 48             | 12,192                | 1,132.7 | 24            | 6,700                                | 3,039 | 160        | 4,064 | 128 | 3,251 | 101 | 2,565 |
| DFE 3-60               | 60             | 15,240                | 1,415.8 | 30            | 9,900                                | 4,490 | 140        | 3,556 | 208 | 5,283 | 101 | 2,565 |
| DFE 5-60               | 60             | 15,240                | 1,415.8 | 30            | 7,700                                | 3,493 | 180        | 4,572 | 128 | 3,251 | 101 | 2,565 |
| DFE 4-64               | 64             | 16,256                | 1,510.2 | 32            | 9,500                                | 4,309 | 160        | 4,064 | 168 | 4,267 | 101 | 2,565 |
| DFE 3-72               | 72             | 18,288                | 1,699.0 | 36            | 11,600                               | 5,262 | 140        | 3,556 | 248 | 6,299 | 101 | 2,565 |
| DFE 4-80               | 80             | 20,320                | 1,887.8 | 40            | 11,500                               | 5,216 | 160        | 4,064 | 208 | 5,283 | 101 | 2,565 |
| DFE 5-80               | 80             | 20,320                | 1,887.8 | 40            | 11,000                               | 4,990 | 180        | 4,572 | 168 | 4,267 | 101 | 2,565 |

| Inlet Size         | D    |       |
|--------------------|------|-------|
|                    | in   | mm    |
| 10 – 16            | 24.0 | 610   |
| 17 – 24            | 36.0 | 915   |
| 26, 28, 30, 32     | 42.0 | 1,067 |
| 34, 36, 38, 40, 42 | 48.0 | 1,219 |

<sup>1</sup> Without accessories or optional equipment.

# DFE SERIES APPLICATIONS



**METAL GRINDING**  
**PLASMA CUTTING**  
**DRY BULK**  
**PHARMACEUTICAL**

**THERMAL SPRAY**  
**WELDING**  
**METAL MANUFACTURING**  
**GLASS**  
**FOOD PROCESSING**

# STANDARD FEATURES & AVAILABLE OPTIONS

## DFE 2-4 TO 5-80

| Collector Design †                                                                                                                                                   | Std | Opt | Paint System                                                            | Std | Opt |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-------------------------------------------------------------------------|-----|-----|
| Mild Steel Construction                                                                                                                                              | X   |     | Prime Coated Interior                                                   | X   |     |
| MaxPulse™ Filter Cleaning System                                                                                                                                     | X   |     | Textured Multi-Coat Paint Finish with 2,000-Hour Salt Spray Performance | X   |     |
| Quick-Removal Access Covers                                                                                                                                          | X   |     | Custom Color                                                            |     | X   |
| Inlets                                                                                                                                                               | X   |     | Premium Duty Finish                                                     |     | X   |
| Ledge-Free Hopper                                                                                                                                                    | X   |     | Epoxy Coating                                                           |     | X   |
| Sprinkler Taps                                                                                                                                                       | X   |     | <b>Hopper Discharge</b>                                                 |     |     |
| Stainless Steel Construction                                                                                                                                         |     | X   | Drum Cover and Hose                                                     |     | X   |
| High Temperature Construction                                                                                                                                        |     | X   | Slide Gates                                                             |     | X   |
| Explosion Protected Models                                                                                                                                           |     | X   | Rotary Valves and Transitions                                           |     | X   |
| Direct Drive Fans                                                                                                                                                    |     | X   | Screw Conveyors                                                         |     | X   |
| Chamber and Exhaust Silencers                                                                                                                                        |     | X   | <b>Electrical Controls, Gauges &amp; Enclosures</b>                     |     |     |
| High-Flow Inlet                                                                                                                                                      |     | X   | Control Box w/Timer in NEMA 4 Enclosure                                 | X   |     |
| Air Management Modules                                                                                                                                               |     | X   | Magnehelic®** Gauge Controls                                            | X   |     |
| Extended Dirty Air Plenum                                                                                                                                            |     | X   | Delta P Control, Delta P Plus Control                                   |     | X   |
| Steep-Sided Hopper                                                                                                                                                   |     | X   | Dustronix™ Control Assembly                                             |     | X   |
| 2-Mod Hopper                                                                                                                                                         |     | X   | Custom Panels                                                           |     | X   |
| Sprinkler Heads                                                                                                                                                      |     | X   | Photohelic®** Gauge Standard and Weatherproof                           |     | X   |
| Service Platform (OSHA compliant)                                                                                                                                    |     | X   | Basic Cold Climate Kit                                                  |     | X   |
| Damper Pack                                                                                                                                                          |     | X   | Heavy-Duty Cold Climate Kit                                             |     | X   |
| Drum Sentry™ Drum-Full Indicator                                                                                                                                     |     | X   | Solenoid Enclosure (NEMA 7 & 9)                                         |     | X   |
| Lined Clean Air Plenum                                                                                                                                               |     | X   | iCue™ Connected Filtration Service                                      |     | X   |
| Bag-Out Kit (Filter & Discharge)                                                                                                                                     |     | X   | <b>Warranty</b>                                                         |     |     |
| Bag-In/Bag-Out Kit (Filter & Discharge)                                                                                                                              |     | X   | 10-Year Warranty                                                        | X   |     |
| <b>Cartridge Filters</b>                                                                                                                                             |     |     |                                                                         |     |     |
| Ultra-Web® (MERV* 15)                                                                                                                                                | X   |     |                                                                         |     |     |
| Ultra-Web® FR (MERV* 15); Ultra-Web® SB (MERV* 15); Ultra-Web® AS (MERV* 15); Fibra-Web® (MERV 14); Thermo-Web™ (MERV 14); Torit-Tex™ (MERV 16); High Temp (MERV 13) |     | X   |                                                                         |     |     |
| HEPA/ASHRAE Afterfilters                                                                                                                                             |     | X   |                                                                         |     |     |

† Donaldson Torit equipment is designed to IBC guidelines for specific wind speed exposure and seismic spectral acceleration at grade level. Contact your Donaldson Torit representative for detailed information available on the equipment's Spec Control drawings. Equipment may be customized to meet unique, customer-specified site requirements.

## Industry-Leading Technology

- Advanced filtration technology for optimal performance
- Reduced energy consumption and cost of ownership
- Advanced design and testing capabilities

## The Most Filters and Parts

- For every brand and style of collector
- Wide range of filtration media for any application
- 90,000 filters and parts in stock and ready to ship

## Unparalleled Support

- Live technical specialists
- Comprehensive pre- and post-sale support
- 40 manufacturing plants and 14 distribution centers worldwide

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