Carbon Bead Electric Furnace
Permit by Rule Registration
30 TAC §106.261/262 Facilities (Emissions Limitations)

For:

Potters Industries, LLC
5650 Highway 279 North
Brownwood, Texas 76801

Prepared by:

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1.0 EXECUTIVE SUMMARY

Potters Industries, LLC (Potters) owns and operates a facility in Brownwood, Texas, which manufactures bead products used for marking paved roads, airport runways, and other applications. The facility are emissions are authorized by New Source Review (NSR) Permit 29560 and by PBR Registration No. 93259.

Potters plans to install a new line to produce carbon-coated glass beads. The entire system will vent to a single dust collector. This equipment is authorized by §106.261/292 and requires registration with the TCEQ.

A description of this particular project is included in Section 2. Detailed emissions information is presented in Section 3 and Appendix A. Appendix B includes a copy of the §106.4 and §106.261/262 workbook. Appendix C contains an area map which marks a 100 ft radius from the new equipment and a process flow diagram.

2.0 SITE DESCRIPTION

Potters Brownwood, Texas, plant manufactures bead products for marking paved roads, runways, and other applications. The plant is authorized by NSR Permit No. 29560 and PBR Registration Number 104898. This site is proposing a new pilot plant to produce carbon beads.

Raw materials include crushed glass (cullet) and activated carbon. The raw materials are fed into an electric furnace where the glass is heated to form a homogeneous bead product. The only emissions from the process are particulate matter (PM). PM emissions are controlled with a Camfil GS-2 cartridge dust collector with a flow rate of 800 cfm.

3.0 AIR EMISSIONS EVALUATION

Emissions from the new equipment are controlled by a cartridge dust collector. Emissions are calculated based on 8,760 hours per year of operation. Specific calculations for the equipment are detailed in the following section and Appendix A.

3.1 Particulate Matter Emissions

Particulate emissions from the dust collection system are calculated assuming an outlet grain loading of 0.002 grains per dry standard cubic feet and using cubic feet per minute (CFM) flow estimate for the dust collector. Specific calculations for the dust collectors are shown in Table 1 of Appendix A.

4.0 TEXAS REGULATORY APPLICABILITY ANALYSIS

Chapter 101 – General Air Quality Rules [Applicable]
The emission sources associated with this air permit application will be operated in accordance with all provisions and the General Rules codified in 30 TAC Chapter 101, including but not limited to circumvention, nuisance, sampling, and reporting.

Chapter 106 – Permit by Rule [Applicable]
This is an application for PBR registration of a new storage tank under 30 TAC § 106.221: Extrusion Presses. The new equipment will meet all of the requirements of the PBR.

Chapter 111 – Control of Air Pollution from Visible Emissions and Particulate Matter [Applicable]
Visible emissions and particulate matter emissions from the affected equipment will comply with all applicable sections of this chapter.

Chapter 112 – Control of Air Pollution from Sulfur Compounds [Not Applicable]
There are no operations associated with this application that will produce hydrogen sulfide, sulfuric acid, or total-reduced sulfur, so this part does not apply.

Chapter 113 – Control of Air Pollution from Toxic Materials [Not Applicable]
The operations covered by this application will not be subject to any of the National Emission Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR Part 61, or Part 63. Therefore, the requirements of 30 TAC Chapter 113 do not apply.

Chapter 114 – Control of Air Pollution from Motor Vehicles [Not Applicable]
There are no motor vehicles associated with this permit application. However, all vehicles owned and used by the facility will comply with §114.1 through §114.50 as applicable.

Chapter 115 – Control of Air Pollution from Volatile Organic Compounds [Not Applicable]
There are currently no Chapter 115 standards that apply to sources located in Brown County.

Chapter 116 – Permits for New Construction or Modification [Not Applicable]
This is an analysis of new emissions from a pilot plant under the PBR program.

Chapter 117 – Control of Air Pollution from Nitrogen Compounds [Not Applicable]
This equipment does not combust any fuel or conduct other processes which could emit nitrogen compounds.

Chapter 118 – Control of Air Pollution Episodes [Applicable]
Should the Executive Director of the TCEQ determine that a generalized air pollution episode exists for Tarrant County, the facility will comply with all applicable requirements in 30 TAC Chapter 118.

Chapter 122 – Federal Operating Permits [Not Applicable]
The facility is a true minor source and does not exceed the emission thresholds where a Federal Operating Permit is required.

5.0 FEDERAL REGULATORY APPLICABILITY ANALYSIS

Aside from the state regulations, equipment at this Facility is potentially subject to a number of Federal Regulations. This Section describes each of these regulations and the potential applicability for the Brownwood Pilot Plant.

Prevention of Significant SD, 40 CFR Part 52 **[Not Applicable]**
Final total emissions will be less than the threshold of 250 TPY of any single regulated pollutant, and the Pilot Plant is not one of the 26 specific industries with a threshold of 100 TPY.

Standards of Performance for New Stationary Sources (NSPS), 40 CFR Part 60
[Not Applicable]
Subpart A requires the submittal of several notifications for NSPS-affected sources. For example, a notification of the commencement of operations is required within 15 days of startup. The Pilot Plant is not subject to any NSPS, so this part does not apply.

Subpart CC - Standards of Performance for Glass Manufacturing Plants regulates particulate matter from glass manufacturing plants. The proposed equipment is all electric and does not produce glass from raw materials, so this subpart does not apply.

Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants regulates particulate matter from fixed or portable nonmetallic mineral processing plants, including crushers, grinding mills, screening operations, and conveyors. The proposed equipment does not process nonmetallic minerals as defined in §60.671. Therefore, this subpart does not apply.

National Emission Standards for Hazardous Air Pollutants (NESHAPs), 40 CFR Part 61
[Not Applicable]
This project does not emit pollutants regulated by 40 CFR Part 61: arsenic, asbestos, beryllium, coke oven emissions, radionuclides, or vinyl chloride.

NESHAP, 40 CFR Part 63 **[Not Applicable]**
Potential HAP emissions from the Pilot Plant are below the 10/25 TPY major source thresholds as shown in the emissions section. Based on emission calculations, this Pilot Plant is not a major source of HAPs and no applicable area source MACT standards have been promulgated. As a result, the regulations of 40 CFR, Part 63 do not apply.

Compliance Assurance Monitoring (CAM), 40 CFR Part 64 **[Not Applicable]**
CAM applies to any pollutant-specific emission unit at a major source that is required to obtain a Title V permit, if it meets all of the following criteria:

- It is subject to an emission limit or standard for an applicable regulated air pollutant.
- It uses a control device to achieve compliance with the applicable emission limit or standard.
- It has potential emissions, prior to the control device, of the applicable regulated air pollutant of greater than 100 TPY.

The Brownwood Pilot Plant is not a major source, so CAM does not apply.

Title V Air Operating Permit, 40 CFR Part 70 **[Not Applicable]**
Major sources of air pollution (i.e., more than 100 TPY of any single criteria pollutant or more than

10 TPY of any single, 25 TPY of any combination of HAPs) are required to obtain a Title V operating permit. Based on the PTE calculations shown in Table C-1, this Pilot Plant is not a major source of criteria pollutants or HAPs. As a result, the Title V permitting regulations do not apply.

Chemical Accident Prevention Provisions, 40 CFR Part 68 [Not Applicable]

The Brownwood Pilot Plant does not store or manage any extremely hazardous substance (EHS) in quantities greater than the threshold quantities defined in this part. Therefore, the chemical accident release provision of 40 CFR Part 68 does not apply.

Stratospheric Ozone Protection, 40 CFR Part 82 [Not Applicable]

The Pilot Plant does not produce, consume, recycle, import, or export any of the controlled substances or controlled products as defined in this part, nor will service on motor (fleet) vehicles, which involve ozone-depleting substances, be performed. Therefore, as currently operated, the Pilot Plant is not subject to these requirements.

Appendix A – Emissions Calculations

Potters Indsutries, LLC - Brownwood Carbon Bead Pilot Plant

Table A-1 Carbon Bead Emissions

Emission Point	Control Type	Control Device	Outlet Loading	Flowrate	Annual Ops	PM Emissions	
			gr/scf	cfm	hrs/yr	lb/hr	tpy
CB-1	Cartridge	GS-2	0.002	800	8760	0.01	0.04
					Total	**0.01**	**0.04**

Notes:

1. Grain loading based on manufacturer's guaranteed efficiency, but other filters with equivalent performance could be used.
2. PM emissions are calculated using the following equation:

$$PM = Q_a \times C_s \times \frac{1}{7000} \times 60$$

Where:
PM = Particulate Emissions (lb/hr)
Qa = Volumetric Flow (acfm)
Cs = PM concentration (gr/scf)

Table A-2 Potters Industries, LLC - Brownwood Active PBR Registrations

Registration Number	Effective Date	Rule Number	SO_2	$PM_{10/2.5}$	VOC	NO_x	CO
93529	11/26/2006	106.261		0.97			
This PBR	In Process	106.261/262		0.04			
Totals:			**0**	**1.01**	**0**	**0**	**0**

Appendix B – TCEQ Forms

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.

1. 30 TAC § 106.4(a)(1) and (4): Emission Limits	**Answer**
List emissions in tpy for **each** facility (add additional pages or table if needed):	See attached.
Are the SO_2, PM_{10}, VOC, or other air contaminant emissions claimed for **each** facility in this PBR submittal less than 25 tpy?	☒ YES ☐ NO
Are the NO_x and CO emissions claimed for each facility in this PBR submittal less than 250 tpy?	☒ YES ☐ NO
*If the answer to both is "Yes," continue to the question below. If the answer to either question is "No," a **PBR cannot be claimed**.*	
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.)	☒ YES ☐ NO
If "Yes," skip to Section 2. If "No," continue to the questions below.	
If the site has had no public notice, please answer the following:	
Are the SO_2, PM_{10}, VOC, or other emissions claimed for **all** facilities in this PBR submittal less than 25 tpy?	☐ YES ☐ NO
Are the NO_x and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy?	☐ YES ☐ NO
If the answer to both questions is "Yes," continue to Section 2.	
*If the answer to either question is "No," **a PBR cannot be claimed**. A permit will be required under Chapter 116.*	

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

2. 30 TAC § 106.4(a)(2): Nonattainment Check	Answer
Are the facilities to be claimed under this PBR located in a designated ozone nonattainment county?	☐ YES ☒ NO
If "Yes," please indicate which county by checking the appropriate box to the right.	
(Moderate) - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties:	☐ HGB
(Moderate) - Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise counties:	☐ DFW
If "Yes," to any of the above, continue to the next question. If "No," continue to Section 3.	
Does this project trigger a nonattainment review?	☐ YES ☐ NO
Is the project's potential to emit (PTE) for emissions of VOC or NO_x increasing by 100 tpy or more?	☐ YES ☐ NO
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.	
Is the site an existing major nonattainment site and are the emissions of VOC or NO_x increasing by 40 tpy or more?	☐ YES ☐ NO
If needed, attach contemporaneous netting calculations per nonattainment guidance.	
Additional information can be found at: www.tceq.texas.gov/permitting/air/forms/newsourcereview/tables/nsr_table8.html and www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html	
*If "Yes," to any of the above, the project is a major source or a major modification and **a PBR may not be used**. A Nonattainment Permit review must be completed to authorize this project. If "No," continue to Section 3.*	
3. 30 TAC § 106.4(a)(3): Prevention of Significant Deterioration (PSD) check	
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?	☐ YES ☒ NO
Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source?	☐ YES ☒ NO
Are emissions increasing above significance levels at an existing major site?	☐ YES ☒ NO
PSD information can be found at: www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10173tbl.pdf and www.tceq.texas.gov/permitting/air/nav/air_docs_newsource.html	
*If "Yes," to any of the above, **a PBR may not be used**. A PSD Permit review must be completed to authorize the project.*	
If "No," continue to Section 4.	

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

4. 30 TAC § 106.4(a)(6): Federal Requirements	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)?	☐ YES ☐ NO ☒ NA
If "Yes," which Subparts are applicable? *(answer below.)*	
Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT) standards?	☐ YES ☐ NO ☒ NA
If "Yes," which Subparts are applicable? *(answer below.)*	
Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs)?	☐ YES ☐ NO ☒ NA
If "Yes," which Subparts are applicable? *(answer below.)*	
If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applicable standards.	
5. 30 TAC § 106.4(a)(7): PBR prohibition check	
Are there any air permits at the site containing conditions which prohibit or restrict the use of PBRs?	☐ YES ☒ NO
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.	
List permit number(s):	
6. 30 TAC § 106.4(a)(8): NO_x Cap and Trade	
Is the facility located in Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?	☐ YES ☒ NO
If "Yes," answer the question below.	
If "No," continue to Section 7.	
Will the proposed facility or group of facilities obtain required allowances for NO_x if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)?	☐ YES ☐ NO

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

7. Highly Reactive Volatile Organic Compounds (HRVOC) check		
Is the facility located in Harris County?		☐ YES ☒ NO
If "Yes," answer the next question. If "No," skip to the box below.		
Will the project be constructed after June 1, 2006?		☐ YES ☐ NO
If "Yes," answer the next question.		
If "No," skip to the box below.		
Will one or more of the following HRVOC be emitted as a part of this project?		☐ YES ☐ NO
If "Yes," complete the information below:		
Information	**lb/hr**	**tpy**
► 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?		☐ YES ☐ NO
If "Yes," answer the next question. If "No," the checklist is complete.		
Will the project be constructed after June 1, 2006?		☐ YES ☐ NO
If "Yes," answer the next question. If "No," the checklist is complete.		
Will one or more of the following HRVOC be emitted as a part of this project?		☐ YES ☐ NO
If "Yes," complete the information below:		
Information	**lb//hr**	**tpy**
► ethylene		
► propylene		

Save Form Reset Form

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	Potters Industries, LLC
Site Description	Brownwood, TX Glass Bead Plant
General Project Description	Installation of an electric furnace and associated equipment to produce galss beads from crushed glass and activated carbon.
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:	Both
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)?	Yes
Is there an associated NSR Case-by-Case permit?	Yes
Please enter the associated NSR permit(s):	29560

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.	PM emissions are controlled with a Camfil GS-2 cartridge dust collector with a flow rate of 800 cfm. Filter efficiency is 99.99%

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.

Requested Information	Response
Please select the county that this project is located in.	Brown

County attainment status as of November 4, 2022:	unclassifiable/attainment
If applicable, is this facility located within the portion of the county that is in nonattainment?	No

PSD Applicability Summary

Requested Information	**Response**
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_X			
PM			
PM_{10}			
$PM_{2.5}$	0.04		
SO_2			
Ozone (as VOC)			
Ozone (as NO_X)			
Pb			
H_2S			
TRS			
Reduced sulfur compounds (including H_2S)			
H_2SO_4			
Fluoride (excluding HF)			
CO_2e			
Determination:			

Determination:			

Supplemental Information (Optional)

Click here to go to the §106.261 Checklist sheet.

30 TAC §106.261 Checklist

This sheet provides compliance demonstration and emission thresholds for 30 TAC §106.261.

Instructions:
Please fill out all input / yellow cells unless marked optional. Also, please note that emissions must be fully speciated and cannot have general categories listed (e.g.

I. General Information

Are emission increases being authorized under §106.261 five tons per year or greater?	
Is this project an annual notification?	

II. §106.261(a)(2)

Are there new or increased emissions listed under §106.261(a)(2), including fugitives, less than or equal to 6.0 pounds per hour (lb/hr) and ten tons per year?	

Please select chemical and enter emission rates:

Chemical	Criteria Pollutant Designation	CAS No. (optional input)	Emission Threshold (lb/hr)	Emission Threshold (tpy)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Meets Threshold?
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			
			6.00	10.00			

III. §106.261(a)(3)

Are there new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m^3) as listed and referenced in Table 262 of 30 TAC § 106.262 relating to Facilities (Emission and Distance Limitations)?

Are there new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical not listed or referenced in Table 262?

Please enter the chemical name, L value (for chemicals listed in table 262), and emission rates:
If there is no L value available for the chemical, then leave the L value blank.

Chemical	Criteria Pollutant Designation	L Value (mg/m^3)	CAS No. (optional input)	Emission Threshold (lb/hr)	Emission Threshold (tpy)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)
Particulates Not Otherwise Classified - Inhalable	PM	10		1.00	4.38	0.01	0.04

Click here to go to the §106.262 Checklist sheet.

Chemical	Criteria Pollutant Designation	L Value (mg/m^3)	CAS No. (optional input)	Emission Threshold (lb/hr)	Emission Threshold (tpy)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)

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)?	
Distance to nearest off-plant receptor (feet):	
K value:	

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:

Chemical	Criteria Pollutant Designation	CAS No. (optional input)	L Value (mg/m^3)	E, maximum Hourly Emission Threshold (lb/hr)	Annual Emission Threshold (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Threshold?
			0	0	0			
			0	0	0			
			0	0	0			
			0	0	0			
			0	0	0			
			0	0	0			
			0	0	0			
			0	0	0			
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			0	0	0			
			0	0	0			
			0	0	0			
			0	0	0			
			0	0	0			
			0	0	0			

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.

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?	

Please select applicable chemicals from dropdown and enter emission rates:

Chemical	Criteria Pollutant Designation	CAS No.	L Value (mg/m^3)	E, maximum Hourly Emission Threshold (lb/hr)	Annual Emission Threshold (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Threshold?
Particulates Not Otherwise	PM		10	0.03	0.13	0.01	0.04	Yes

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)

Chemical	Criteria Pollutant Designation	CAS No.	L Value (mg/m^3)	E, maximum Hourly Emission Threshold (lb/hr)	Annual Emission Threshold (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Threshold?
Notification must be provided using Form PI-7 within ten days following the installation or modification of the facilities.								
*Does this registration handle any of the following chemicals?								
**Distance to property line (feet):								
**Distance to any off-plant receptor (feet):								
Cumulative amount of the above listed chemicals authorized under this section (pounds):								
Containers of these chemicals may not be vented or opened directly to the atmosphere at any time:								
*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).								

Click here to go to the Rule Summary sheet.

Appendix C – Site Map and Process Flow Diagram

Potters Industries, LLC
5650 Highway 279
Brownwood, TX 76801

BEAR CREEK
CONSULTANTS
1320 E. 9th Street, Suite 2
Edmond, OK 73034

FIGURE 1
Site Location Map
April 18, 2024

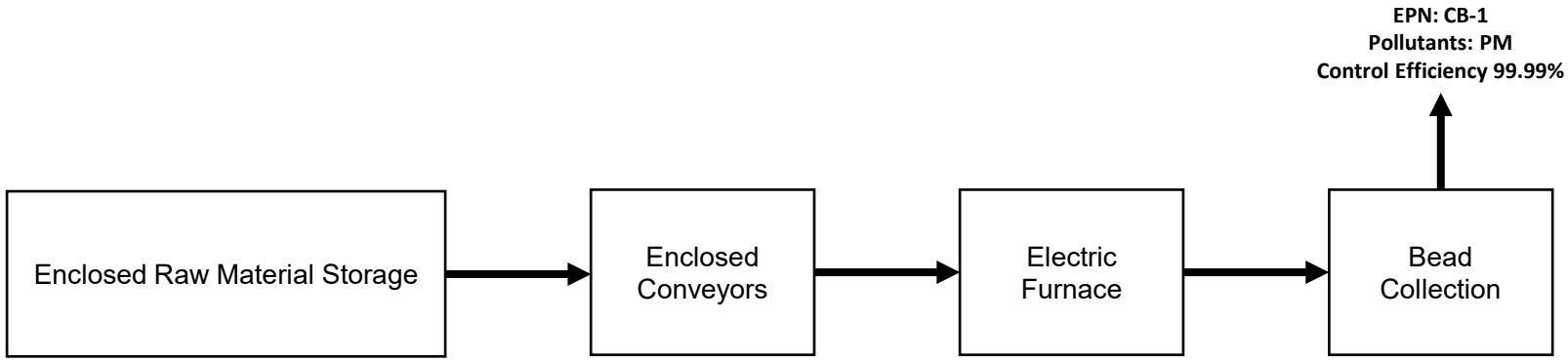

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FIGURE 2
Process Flow Diagram
April 18, 2024