

Attachment #1  
**AIR PERMIT**  
FOLDER LEVEL

AIR PA #: MB0095I 000000X

File Type: PERMITS

Volume: 001

Inclusive Dates: 10/11/2001 - 3/26/2002  
~~1/1/2001 - 12/31/2004~~

Media Code/ Form

☐ Microfiche

☒ Roll Microfilm

☒ Electronic Image

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03/26/2002 ----- NSR PERMITS IMS- PROJECT RECORD -----

PROJECT#: 85151	PERMIT#: X	STATUS: X	DISP CODE: _____
RECEIVED: 11/07/2001	PROJTYPE: XLTR		ISSUED DATE: 01/04/2002
FEE DATE:	FEE AMT: \$ 0	STDY1/SP: 266	SUP-DISP DATE: 01/04/2002

PARSTAFF1 : OFARRELL, JOHN

GROUP: HRT

TECHENGR : MAY, LATERRIA

**ADMIN REVIEW**

A - PAR RECEIVED : 11/07/2001 A - PARTRANS : 12/10/2001

ISSUED TO: OWENS-BROCKWAY GLASS CONTAINER INC

**PRIMARY CONTACT INFORMATION**

NAME: MR CHUCK MELQUIST

TITLE: ENVIRONMENTAL ADMINISTRATOR

PHONE: 419-247-5000 ext

FAX: -- ext

STREET: ONE SEAGATE

CITY/STATE, ZIP: TOLEDO, OH , 43666-

**PROJECT INFORMATION**

UNIT: INSTALLATION OF A CENTRAL VACUUM SYSTEM

SIC: 3221

REGION: 9

ACCOUNT: MB0095I

COUNTY: MCLENNAN

CAPUNITS:

UNITTYPE:

CAPACITY:

CITY: WACO

LOCATION: 5200 BEVERLY DRIVE

**PUBLIC NOTICE**

PUBLIC NOTICE REQUIRED?: N PN1 ALT LANGUAGE: NO PN2 ALT LANGUAGE: NO

**EMISSION  
RATES****PROJECT NOTES****TECHNICAL ACTIVITY HISTORY**

SUP - PROJECT ISSUED : 01/04/2002

**PROJECT ATTRIBUTES****PROJECT LINK****PROJECTS/PERMITS VOIDANCE**

Mr. Chuck Melquist  
Environmental Administrator  
Owens-Brockway Glass Container Inc.  
One Seagate  
Toledo, OH 43666

Re: Permit by Rule Registration  
Installation of a Central Vacuum System  
Waco, Texas  
Account ID No. MB-0095-I

Dear Mr. Melquist:

This is in response to your permit by rule for the installation of a central vacuum system in the batch house at the Owens-Brockway Waco glass plant located at 5200 Beverly Drive in Waco, McLennan County. We understand that Owens-Brockway Glass Container Inc. plans to install a central vacuum system in the batch at the Waco glass plant, eliminating the need for manual sweeping and shoveling. You have indicated that the vacuum system that will be installed is manufactured by Hi Vac. Based on your representation, the total emissions from the operation of this facility are 0.09 lbs/hr and 0.1 tons/year of particulate matter less than or equal to 10 microns in diameter.

After evaluation of the information which you have furnished, we have determined that your proposed installation is authorized under 30 Texas Administrative Code (TAC) Section 106.266 if constructed and operated as described in your registration request. This permit by rule was authorized by the Texas Natural Resource Conservation Commission (TNRCC) pursuant to 30 TAC Chapter 106.

A copy of the permit by rule in effect at the time of this registration is enclosed. You must construct, install, or modify facilities in accordance with the version of the permit by rule in effect when construction, installation or modification actually begins (see 30 TAC Section 106.4[a][5]). After completion of construction, installation or modification, the facility shall be operated in compliance with the all applicable conditions of the claimed permits by rule and 30 TAC Section 106.4.

Mr. Chuck Melquist  
Page 2

Re: Permit by Rule Registration

You are reminded that regardless of whether a permit is required, these facilities must be in compliance with all rules and regulations of the TNRCC and of the U.S. Environmental Protection Agency at all times.

Your cooperation in this matter is appreciated. If you have any questions concerning this permit by rule, please call Ms. Laterria May at (713) 767-3598 or write her at Texas Natural Resource Conservation Commission, Office of Permitting, Remediation, and Registration, Air Permits Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,

Duncan F. Stewart, P.E., Manager  
Permit By Rule/General Operating Permits Section  
Air Permits Division  
Texas Natural Resource Conservation Commission

DS/LYM/

Enclosure

cc: Mr. Arturo J. Blanco, Air Section Manager, Houston

Record No. 85151

Robert J. Huston, *Chairman*  
R. B. "Ralph" Marquez, *Commissioner*  
Kathleen Hartnett White, *Commissioner*  
Jeffrey A. Saitas, *Executive Director*



## TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

*Protecting Texas by Reducing and Preventing Pollution*

January 4, 2002

RECORD 85151

Mr. Chuck Melquist  
Environmental Administrator  
Owens-Brockway Glass Container, Inc.  
One Seagate  
Toledo, Ohio 43666

Re: Permit by Rule Registration  
Glass Plant  
Waco, McLennan County  
Account Number: MB-0095-I

Dear Mr. Melquist:

This is in response to your permit by rule registration for the installation of a central vacuum system in the batch house at the Owens-Brockway Waco glass plant located at 5200 Beverly Drive in Waco, McLennan County. We understand that Owens-Brockway Glass Container, Inc., plans to install a central vacuum system in the batch at the Waco glass plant eliminating the need for manual sweeping and shoveling. You have indicated that the vacuum system that will be installed is manufactured by Hi Vac. Based on your representation, the total emissions from the operation of this facility are 0.09 pound per hour and 0.1 tpy of particulate matter less than or equal to 10 microns in diameter.

After evaluation of the information which you have furnished, we have determined that your proposed installation is authorized under Title 30 Texas Administrative Code Section 106.266 (30 TAC § 106.266) if constructed and operated as described in your registration request. This permit by rule was authorized by the Texas Natural Resource Conservation Commission (TNRCC) pursuant to 30 TAC Chapter 106.

A copy of the permit by rule in effect at the time of this registration is enclosed. You must construct, install, or modify facilities in accordance with the version of the permit by rule in effect when construction, installation, or modification actually begins (see 30 TAC § 106.4[a][5]). After completion of construction, installation, or modification, the facility shall be operated in compliance with all the applicable conditions of the claimed permits by rule and 30 TAC § 106.4.

Mr. Chuck Melquist

Page 2

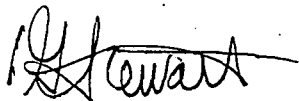
January 4, 2002

Re: Permit by Rule Registration

You are reminded that regardless of whether a permit is required, these facilities must be in compliance with all rules and regulations of the TNRCC and of the U.S. Environmental Protection Agency at all times.

Your cooperation in this matter is appreciated. If you have any questions concerning this permit by rule, please call Ms. Latteria May at (713) 767-3598 or write her at Texas Natural Resource Conservation Commission, Office of Permitting, Remediation, and Registration, Air Permits Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,



Duncan F. Stewart, P.E., Manager  
Permit by Rule/General Operating Permits Section  
Air Permits Division  
Texas Natural Resource Conservation Commission

DS/LM/ae

Enclosure

cc: Mr. Salal Tahiri, Air Program Manager, Region 9 - Waco

Record No. 85151

**AIR PERMIT BY RULE REVIEW**

Reg. No. 85151 Record No. X Account. No. MB-0095-I Date Rec'd [PAR]: 11/07/2001

Company: Owens-Brockway Glass Container, Inc.

County: McClennan

Date Rec'd [ENG]: 12/17/2001

Contact Name: Mr. Chuck Melquist

Phone/Fax Nos. (419)247-5000

**General Rules Check:**

- \* Project Emissions Acceptable? **Y**
- \* PSD/Non-attainment Netting Required? **N**
- \* Sitewide PBR Emissions Acceptable? **Y**
- \* Limits on use of PBRs at this site? **N**
- \* NSPS/NESHAPS/MACT Standards Apply? **N**
- \* Compliance with all other applicable rules and regulations? **Y**

**Overall Site / Unit Description:** This registration request is for the installation of a central vacuum system in the batch house at the Owens-Brockway Waco glass plant located at 5200 Beverly Drive in Waco, McClennan County.

**Project Sources / Facilities, PBRs Claimed, Applicable Standards, Emissions and Control**

**Summary:** Owens-Brockway Glass Container Inc. plans to install a central vacuum system in the batch *house* at the Waco glass plant, eliminating the need for manual sweeping and shoveling. The system will be used to remove for disposal raw materials such as sand, salt cake, limestone and soda ash that accumulate during operation of receiving, storage, blending, mixing and mixed batch handling. The emission point will be located approximately 800 to 900 feet from the nearest off-site receptor. The registrant is claiming 30 TAC 106.266 to authorize the emissions from the new vacuum system. Vacuum cleaning systems used exclusively for industrial housekeeping purposes are authorized under 30 TAC 106.266. In addition, the requirements of TAC 106.4 are met by this facility. According to the registrant, the vacuum system that will be installed is manufactured by Hi Vac. The registrant indicated that 30,000 pounds of material per hour will be processed at this facility. Thus, the PM10 emissions were estimated based on 0.01% PM10 of the 30,000 lbs of material per hour processed. Thus, the total emissions from this facility are 0.09 lbs/hr and 0.1 tpy of PM10.

**Site Review required?** **N**

**Public Notice Required?** **N**

**PSD/Non-attainment netting required?** **N** - There are no NOx nor VOCs emitted from this facility.

**Emissions Savings / Reductions due to rule compliance:** **None**

**Are all general and specific applicable rule conditions satisfied?** **Y**

Reviewer: Laterria May

Team Leader/Backup: Emmanuel Ukandu

Date: December 20, 2001

Date: December 20, 2001

## AIR PERMIT BY RULE REVIEW

Reg. No. 85151 Record No. X Account. No. MB-0095-I Date Rec'd [PAR]: 11/07/2001

Company: Owens-Brockway Glass Container, Inc.

County: McClennan

Date Rec'd [ENG]: 12/17/2001

Contact Name: Mr. Chuck Melquist

Phone/Fax Nos. (419)247-5000

### General Rules Check:

- \* Project Emissions Acceptable? **Y**
- \* PSD/Non-attainment Netting Required? **N**
- \* Sitewide PBR Emissions Acceptable? **Y**
- \* Limits on use of PBRs at this site? **N**
- \* NSPS/NESHAPS/MACT Standards Apply? **N**
- \* Compliance with all other applicable rules and regulations? **Y**

**Overall Site / Unit Description:** This registration request is for the installation of a central vacuum system in the batch house at the Owens-Brockway Waco glass plant located at 5200 Beverly Drive in Waco, McClennan County.

### Project Sources / Facilities, PBRs Claimed, Applicable Standards, Emissions and Control

**Summary:** Owens-Brockway Glass Container Inc. plans to install a central vacuum system in the batch at the Waco glass plant, eliminating the need for manual sweeping and shoveling. The system will be used to remove for disposal raw materials such as sand, salt cake, limestone and soda ash that accumulate during operation of receiving, storage, blending, mixing and mixed batch handling. The emission point will be located approximately 800 to 900 feet from the nearest off-site receptor. The registrant is claiming 30 TAC 106.266 to authorize the emissions from the new vacuum system. Vacuum cleaning systems used exclusively for industrial housekeeping purposes are authorized under 30 TAC 106.266. In addition, the requirements of TAC 106.4 are met by this facility. According to the registrant, the vacuum system that will be installed is manufactured by Hi Vac. The registrant indicated that 30,000 pounds of material per hour will be processed at this facility. Thus, the PM10 emissions were estimated based on 0.01% PM10 of the 30,000 lbs of material per hour processed. Thus, the total emissions from this facility are 0.09 lbs/hr and 0.1 tpy of PM10.

**Site Review required?** **N**

**Public Notice Required?** **N**

**PSD/Non-attainment netting required?** **N - There are no NOx nor VOCs emitted from this facility.**

**Emissions Savings / Reductions due to rule compliance:** **None**

**Are all general and specific applicable rule conditions satisfied?** **Y**

Reviewer: Laterria May

Team Leader/Backup: Emmanuel Ukandu

Date: December 20, 2001

Date: December 20, 2001



*PAR 106.266  
ASSIGN NORMALLY*

**OWENS-BROCKWAY**

GLASS CONTAINERS  
a unit of Owens-Illinois



*John* VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

October 11, 2001

TNRCC - Office of Air Quality  
PAR - Mail Code 161  
P.O. Box 13087  
Austin, Texas 78711-3087

RECEIVED  
NOV 07 2001  
Air & Waste Applications Team

RE: Owens-Brockway Glass Container Inc. - Plant #15  
5200 Beverly Drive, Waco, Texas 76711  
Account Number MB-00951  
General Operating Permit Number O-01028  
**PBR Claim for Planned Central Vacuum System Installation**

Dear Sirs:

Later this year, Owens-Brockway Glass Container Inc. plans to install a central vacuum system in the batch house at the Waco glass plant, eliminating the need for manual sweeping and shoveling. The system is for housekeeping purposes...to remove for disposal raw materials such as sand, salt cake, limestone and soda ash that accumulate during operation of receiving & storage, blending & mixing, and mixed batch handling equipment. The emission point will be located approximately 800 to 900 feet from the nearest off-site receptor. Emission calculations are attached.

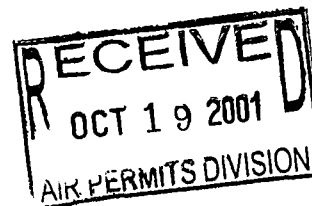
TAC 106.266 indicates that vacuum cleaning systems used exclusively for industrial housekeeping purposes are permitted by rule (PBR). In addition, the requirements of TAC 106.4 are met by the facility. Thus, as discussed September 13, 2001 with Mr. John Gott of the PBR Section, we understand that construction of the central vacuum system may commence. We also understand that TNRCC, after review, will provide a confirming letter for our files. Please send this letter to my attention.

*ASSIGN  
AXT  
PBR  
GROUP  
IN  
SAN Antonio*

Very truly yours,

*Chuck Melquist*

Chuck Melquist  
Environmental Administrator



c: TNRCC - Region 9  
6801 Sanger Avenue, Suite 2500  
Waco, Texas 76710-7826

Tom Bost - Waco  
Ed Brunger - Waco

attachment

RECEIVED  
OCT 17 2001  
Air & Waste Applications Team



**Plant #15 – Waco  
Central Vacuum System Emission Calculations**

RECEIVED

NOV 07 2001

Air & Waste Applications Team

**MATERIAL CHARACTERIZATION**

Sand is assumed to represent all of the raw materials processed through the central vacuum system. It is the major glass batch component, and appropriate particle size data is available. Sizing of the sand is typically:

0.1% less than 100 microns (99.9% greater than 100 microns)  
0.001% to 0.01% less than 10 microns

**EQUIPMENT DESCRIPTION**

Experience of the manufacturer (Hi Vac) is that an operator of average skill level should be able to process as much as 30,000 pounds of material per hour through the 75 horsepower unit planned for Waco. The unit is comprised of three collection stages in series - a centrifugal separator, a linear separator, and a cloth dust collector.

The manufacturer indicates that the first two stages together are capable of collecting all material greater than 100 microns and 99.9% of the material between 10 microns and 100 microns. The final stage is capable of collecting 97% of PM10.

**EMISSION CALCULATIONS**

- Material greater than 100 microns =  $30,000 \times 99.9\% = 29,970$  lbs.  
Collected by the first two stages
- Material less than 10 microns =  $30,000 \times 0.001\% \text{ to } 0.01\% = 0.3 \text{ to } 3$  pounds  
Enters the third stage, where 97% is collected
- Material between 10 microns and 100 microns (by difference) = 27 to 29.7 pounds  
99.9% is collected by the first two stages, leaving 0.03 pounds to be fed to the third stage, where it is collected.

**Hourly emission rate at maximum design capacity =  $3 \times (1-0.97) = 0.09$  PPH PM10**

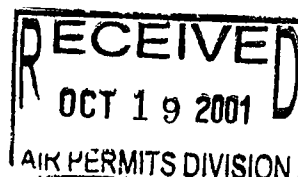
TNRCC instructions indicate that, in cases where a process operates at less than design maximum capacity, as will be the case with the central vacuum system, annual emission calculations should be reflective of the average hourly emission rate. With this in mind, estimated annual PM10 emissions are shown below.

During normal batch house operation, it is presumed that the central vacuum system would be used no more than  $\frac{1}{4}$  of the time. Therefore, it is reasonable to presume that **annual emissions of PM10 will be no more than 0.1 ton**  
 $(0.09 \times 8,760 \times \frac{1}{4} / 2,000 = 0.1 \text{ TPY})$ .

RECEIVED

OCT 17 2001

Air & Waste Applications Team



## NSR Permit Registration Application Processing Checklist

### Phase 1:

- ☒ Application/Permitting Request date stamped on Team received date.
- ☐ Verified appropriate and current application PI form or letter.
- ☐ Application Entered into IMS on Received Date, no later than Noon and PSDB the same day (see NSR guidance information for mandatory entry fields for IMS and PSDB)
  - ☐ researched site specific account number to complete entry
  - ☐ researched applications to ensure not duplicate entry (call tech staff or applicant if necessary to confirm)
  - ☐ logged new permit number in paradox permit number log (as needed) (requests for changes to issued or denied PBR's, use the same registration number)
  - ☐ PSDB entry not applicable for SB1126(SB26), Alterations (CRVN or PRVN), X Letters (XLTR), ESOC, etc.
- ☐ Prepared and faxed Account Request Form (if applicable).
  - ☐ placed copy of fax confirmation and ARF in application file
  - ☐ updated IMS tracking element code to indicate date ARF sent
  - ☐ made sure the Account Number request indicates the appropriate contact for returning the number
  - ☐ updated the Account Number in IMS and PSDB
  - ☐ ARF not applicable
- ☒ Prepared file folder (Applies to all application types to ensure the complete package with Mikey stays together in transit.)
- ☒ Used appropriate labels for specified for PBR, Permitting and Confidential folders
- ☒ Printed File label contains the:
  - Name
  - County
  - Account Number
  - Registration/Permit No.
- ☐ Prepared Confidential file folder
  - ☐ stamped folder with confidential stamp and cross-reference confidential materials in open file
  - ☐ prepared file label to indicate confidential documents
  - ☒ confidential file not applicable
- ☐ Point Source data base (PSDB) Permit Summary has been placed in file
  - ☒ PSDB not applicable
- ☒ Mikey has been placed in file.
- ☐ Problems for Phase 2 to address as noted above. Notes: No PSDB
- ☐ Multiple Project Records (Mikies) Included. (Make sure each project record is updated throughout the process.)

Phase 2:

- ☐ Prepared and faxed Site Review request for Comment (see processing chart)
  - ☐ placed copy of fax confirmation and SR/RFC in application file
  - ☐ made sure the SR/RFC request indicated the appropriate contact for returning the review
  - ☐ sent SR/RFC to appropriate local program if applicable
  - ☐ Entered IMS SR/RFC and local program tracking elements and date sent in IMS
  - ☐ SR/RFC not applicable
- ☐ Applicant indicated copies of application were sent to appropriate regional office and other entities as required on application.
  - ☐ If no, called applicant to request copies be sent as required and document phone call on attached phone memo.
- ☐ Verified original signature on application. Applies only to PI-1 forms (Faxed BPRs are acceptable.)
- ☐ Verified fee Payment and updated amount and date in IMS (see processing chart for applicability)
  - ☐ placed fee receipt in application folder
  - ☐ fee not applicable
- ☐ Verified Applicants' Legal Name as applicable (using guidance document & check name on log in our team directory file named Secretary of State)
  - ☐ Spelling of applicants' legal name is correct on application
    - ☐ For Individuals, complete name of individual has been provide.
    - ☐ For Companies, complete legal name as registered with SOS have been provided.
      - ☐ Charter number as provided by SOS \_\_\_\_\_
      - ☐ Status confirmed as Active with SOS
      - ☐ If charter number not provided and name does not match with SOS filing:
        - ☐ Called applicant to confirm correct information
        - ☐ Documented information provided by SOS on phone memo in file.
    - ☐ Governmental Agency (City, County, Federal etc.) (no verification required but use consistent entry of full name in IMS and PSDB)
  - ☐ Documented confirmation from applicant of correct legal name or other information on phone memo in file.

Deficiencies with applications:

- ☐ Noted phone call(s) on attached memo documenting requested information and response (put date by each call).
- ☐ Entered date of phone call in IMS using the admin deficient tracking element, then the A-telcom for additional calls.
- ☐ Entered tracking element and date when applicant responds to request for information
- ☐ Public Notice not Applicable (see processing chart for applicability)

For Amendment Applications where Public Notice is not applicable:

- ☐ Prepared State Rep and Senate Letter (HB2518 requirement)

☐ Confirmed IMS updates and tracking elements with dates as indicated (as applicable):

- ☐ Enter tracking element in IMS for Site Review using A-Site Review and date sent
- ☐ Enter tracking element in IMS for Request for Comment using A-RFC and date sent
- ☐ Enter Local Program Site Review/RFC using appropriate local program tracking element in IMS and date sent
- ☐ Enter Account Number (ARF) tracking element in IMS
- ☐ Entered Account number assigned by Region & Portable assigned by Team
- ☐ Admin Def. date/phone calls for information or clarification - tracking element A-Admin Def Ltr Sent
- ☐ Additional phone calls date using A-TELCOM
- ☐ Enter date of response received from applicant using tracking element A-Admin Def Ltr Reply
- ☐ Verified Applicant and Contact information for accuracy
- ☐ Verified entry of applicant's legal name, to be correct spelling, in IMS & PSDB
- ☐ PAR transfer date

The following tracking elements in IMS are only required when Public notice is required:

- ☐ Enter A-Comp History RFC for Compliance History request and enter date sent
- ☐ Enter A-ADMIN Comp w/Notice and admin complete date
- ☐ Enter A-Admincomp tracking element and Admin Complete date
- ☐ Entered A-PN Draft when draft public notice was faxed
- ☐ Entered A-PN Draft Approved when you receive approval of the draft from applicant

Continuation of Phase 2 - The following items only apply to projects requiring public notice:

- ☐ For Permits with terms, confirmed that the permit has not expired.
  - ☐ Permits expired must be process for a new permit
  - ☐ Referral to Enforcement for submitting a renewal after permit expiration date has been initiated.
- ☐ Verified appropriate notice information has been provided (if applicable). (Ensure the applicant provides any corrections or updates to the application in writing (fax or hard copy). Do not fill in any part of the application yourself)
  - ☐ public place for viewing and copying application in county where located is provided
  - ☐ person representing applicant identified as contact in public notice
  - ☐ person responsible for publishing notice identified
- ☐ Prepared public notice package as checked off below:
  - ☐ right side of folder in following order included:
    - ☐ Legislative notification letters and envelopes
    - ☐ Public Notice Cover Letter to Applicant
    - ☐ Public Notice and Sign Postings (Examples)
    - ☐ Instructions & Affidavits
    - ☐ Address Labels
    - ☐ Contacts Sheet (Blue paper)
    - ☐ Spanish Shell provided (if applicable)
  - ☐ left side of folder in following order included:
    - ☐ Application Routing information (Blue paper)
    - ☐ fax confirmation sheet
    - ☐ written note on fax confirmation indicating person you spoke with confirming fax as received, date and time of call
    - ☐ copy of fax to review draft notice
    - ☐ copy of Bilingual Notice Determination sheet fax with draft notice language (for CCO to know to expect bilingual notice)
- ☐ Prepared fax with draft public notice and sent to applicant for confirmation.
  - ☐ called applicant to ensure receipt of fax and need to follow up (stress sense of urgency-give 24 hour due date)
  - ☐ placed copy of confirmation fax in the permit application folder
  - ☐ faxed spanish notice shell to applicant if confirmation fax indicates required. If other language, indicate applicant's responsibility to have translated.

Document **on of Requests for Additional** **ormation**  
Telephone Memo to the File

Call To:

Call From:

File No:

Applicant Name:

Phone number :