Permit By Rule Supplemental Table (Page 1)
Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
10/02/2026	O-1094	RN100223585

Unit ID No.	Registration No.	PBR No.	Registration Date
3	45087	106.262	08/18/2000
85	84393	106.371	04/10/2008
02FAB	113627	106.262	11/07/2013
11	162524	106.261	09/25/2020
11	162524	106.262	09/25/2020
02FAB (EPN 53)	162525	106.418	05/19/2021
BOILER 1	181553	106.183	9/29/2025

Permit By Rule Supplemental Table (Page 2)
Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
10/02/2026	O-1094	RN100223585

Unit ID No.	PBR No.	Version No./Date
07USST	106.472	09/04/2000
07UPST	106.472	09/04/2000
07REST1	106.472	03/14/1997
07REST1UL	106.472	3/14/1997
07BOST	106.473	03/14/1997
07BOSTUL	106.473	03/14/1997
07WOST	106.473	03/14/1997
07WOSTLO	106.473	3/14/1997
07ASST	106.472	03/14/1997
07ASSTUL	106.472	03/14/1997
72DIE_A	106.472	09/04/2000
72DIE_B	106.472	09/04/2000
72DIEUL	106.472	09/4/2000
73GAS	106.473	03/14/1997
LIGSURG	106.472	9/4/2000
07FOST	106.472	09/04/2000
07WWST	106.472	09/04/2000
DYE1	106.472	09/04/2000
DYE2	106.472	09/04/2000
09REST1 (EPN 29)	106.472	9/4/2000
HWWWHOLD (EPN 347)	106.532	09/04/2000
HWWWSUP (EPN 347)	106.532	09/04/2000
V1WWSUPPLY (EPN 347)	106.532	09/04/2000
V2WWSUPPLY(EPN 347)	106.532	09/04/2000
V3WWSUPPLY (EPN 347)	106.532	09/04/2000
MTOILMIX	106.472	09/04/2000
09ADST1	106.472	03/14/1997
09ADST2	106.472	03/14/1997
09ADSTUL	106.472	3/14/1997
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000
PROPANE1UL	106.476	09/04/2000
76	106.472	09/04/2000
443	106.472	09/04/2000
63	106.371	03/14/1997
64	106.371	03/14/1997
65	106.371	03/14/1997
66	106.371	03/14/1997
67	106.371	03/14/1997
49	106.183	09/04/2000
FWCBUV1	106.511	03/14/1997
FWCBUV2	106.511	03/14/1997
FWCBUV3	106.511	03/14/1997
CWBU	106.511	09/04/2000
PCWSBU	106.511	03/14/1997
PCWSBU2	106.511	09/04/2000

Permit By Rule Supplemental Table (Page 2)
Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
10/02/2026	O-1094	RN100223585

Unit ID No.	PBR No.	Version No./Date
HWBUV2	106.511	03/14/1997
HWBUV3	106.511	03/14/1997
Sandblasters	106.452	03/14/1997
Welding	106.227	09/04/2000
Water Treatment Chemicals	106.371	09/04/2000
Safety Kleen Stations	106.454	11/01/2001
Chiller Systems	106.373	03/14/1997
Site_MSS	106.263	11/01/2001
Hand held Machines	106.265	09/04/2000

Permit By Rule Supplemental Table (Page 3)
Table C: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
10/02/2026	O-1094	RN100223585

PBR No.	Version No./Date
106.453	09/04/2000
106.122	03/14/1997
106.102	09/04/2000
106.103	03/14/1997
106.372	03/14/1997
106.266	03/14/1997

Permit By Rule Supplemental Table (Page 4)
Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
10/02/2026	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
3	106.262	08/18/2000	Record annual throughput of sodium sulfate and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
85	106.371	04/10/2008	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
02FAB	106.262	11/07/2013	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.261	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.262	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
02FAB (EPN 53)	106.418	05/19/2021	Record annual ink and solvent usage and use underlying emission calculation methods to determine actual emissions
BOILER 1	106.183	9/29/2025	Record annual hours of operation
07USST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07UPST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07REST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07REST1UL	106.472	3/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07BOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07BOSTUL	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WOSTLO	106.473	3/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07ASST	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07ASSTUL	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_A	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_B	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIEUL	106.472	09/4/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
73GAS	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
LIGSURG	106.472	9/4/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07FOST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WWST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions

Permit By Rule Supplemental Table (Page 4)
Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
10/02/2026	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
DYE1	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
DYE2	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09REST1 (EPN 29)	106.472	9/4/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
HWWWHOLD (EPN 347)	106.532	09/04/2000	Record annual hours of operation.
HWWWSUP (EPN 347)	106.532	09/04/2000	Record annual hours of operation.
V1WWSUPPLY (EPN 347)	106.532	09/04/2000	Record annual hours of operation.
V2WWSUPPLY(EPN 347)	106.532	09/04/2000	Record annual hours of operation.
V3WWSUPPLY (EPN 347)	106.532	09/04/2000	Record annual hours of operation.
MTOILMIX	106.472	09/04/2000	Record annual hours of operation.
09ADST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09ADST2	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09ADSTUL	106.472	3/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
PROPANE1UL	106.476	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
76	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
443	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
63	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
64	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
65	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
66	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
67	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
49	106.183	09/04/2000	Record annual fuel usage and use underlying emission factors to calculate emissions and demonstrate compliance with PBR limits
FWCBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV2	106.511	03/14/1997	Record annual hours of operation
FWCBUV3	106.511	03/14/1997	Record annual hours of operation
CWBU	106.511	09/04/2000	Record annual hours of operation
PCWSBU	106.511	03/14/1997	Record annual hours of operation
PCWSBU2	106.511	09/04/2000	Record annual hours of operation
HWBUV2	106.511	03/14/1997	Record annual hours of operation
HWBUV3	106.511	03/14/1997	Record annual hours of operation
Sandblasters	106.452	03/14/1997	Maintain operating hours and abrasive material usage on annual basis
Welding	106.227	09/04/2000	Record annual usage of weld rods and lead content for maintenance activities to ensure 0.6 tpy emission limit for lead is met
Water Treatment Chemicals	106.371	09/04/2000	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
Safety Kleen Stations	106.454	11/01/2001	Record annual usage of solvent
Chiller Systems	106.373	03/14/1997	Maintain documentation of refrigeration chemical

Permit By Rule Supplemental Table (Page 4)
Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
10/02/2026	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
Site_MSS	106.263	11/01/2001	Record details of maintenance activities for baghouse filter repacement, solvent/lubricant usage, vacuum trucks, and boiler maintenance and use the underlying emission calculations to demonstrate compliance with 24-hour emission limits. The details to be recorded include: - Type and reason for the activity - Process and equipment involved - Material usage - Date, time, and duration of the activity - Air contaminants and amounts emitted as a result of the activity
Hand held Machines	106.265	09/04/2000	Annual hours of grinding operations

Texas Commission on Environmental Quality

Title V Existing

1094

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	WAXAHACHIE PLANT
Does the site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.439166
Longitude (W) (-###.######)	96.85
Primary SIC Code	3296
Secondary SIC Code	
Primary NAICS Code	327993
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100223585
What is the name of the Regulated Entity (RE)?	OWENS CORNING INSULATING SYSTEMS WAXAHACHIE PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.44148
Longitude (W) (-###.######)	-96.848
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603159088
Type of Customer	Other
Full legal name of the applicant:	
Legal Name	Owens Corning Insulating Systems, LLC
Texas SOS Filing Number	800719027
Federal Tax ID	371525228
State Franchise Tax ID	32020858554

State Sales Tax ID	
Local Tax ID	
DUNS Number	7332570
Number of Employees	251-500
Independently Owned and Operated?	No

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MR
First	KEVIN
Middle	
Last	SMITH
Suffix	
Credentials	
Title	VICE PRESIDENT ENTERPRISE R&D
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	2790 COLUMBUS RD
Routing (such as Mail Code, Dept., or Attn:)	
City	GRANVILLE
State	OH
ZIP	43023
Phone (###-###-####)	7403215259
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	kevin.d.smith@owenscorning.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	KEVIN WARD(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MR
First	KEVIN
Middle	
Last	WARD
Suffix	
Credentials	
Title	WAXAHACHIE PLANT LEADER
Enter new address or copy one from list	
Mailing Address	

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
Zip	75165
Phone (###-###-####)	4794304006
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	kevin.ward@owenscoming.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	New Contact
Organization Name	Owens Corning Insulating Systems LLC
Prefix	MS
First	Jacquelyn
Middle	
Last	Desloges
Suffix	
Credentials	
Title	Regional Environmental Leader - Insulation
Enter new address or copy one from list:	Responsible Official Contact
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	2790 COLUMBUS RD
Routing (such as Mail Code, Dept., or Attn:)	
City	GRANVILLE
State	OH
ZIP	43023
Phone (###-###-####)	9722685903
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	jacquelyn.desloges@owenscorning.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	32 Deg 26 Min 21 Sec
3) Permit Longitude Coordinate:	96 Deg 51 Min 0 Sec
4) Is this submittal a new application or an update to an existing application?	Update
4.1. Select the permit/project number for which this update should be applied.	1094-35476

5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	No

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

Attach OP-2 (Application for Permit Revision/Renewal)

Attach OP-ACPS (Application Compliance Plan and Schedule)

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

[File Properties]

File Name	OP_PBRSUP_2026-1001 OCIS Engine OP-PBRSUP Form.pdf
Hash	1EA9A878BE24A05E9DEC5D6CCF18B46618351CEFC3D0C05B73C3D8DA2A517CD3
MIME-Type	application/pdf

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach Void Request Form

Attach any other necessary information needed to complete the permit.

An additional space to attach any other necessary information needed to complete the permit.

Certification

I certify that I am the Duly Authorized Representative for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am Kevin R Ward, the owner of the STEERS account ER110293.

2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1094.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Kevin R Ward OWNER OPERATOR

Account Number:	ER110293
Signature IP Address:	205.204.5.17
Signature Date:	2026-10-02
Signature Hash:	E446A6D419883E9220D24C0494C2382D833C62154F54BFB8C1C927385E665CF6
Form Hash Code at time of Signature:	6C5D1B791834611AB4B0E7C6CCA45382E7B6FF3D96612349F31EC2CF2C784C6C

Submission

Reference Number:	The application reference number is 970619
Submitted by:	The application was submitted by ER110293/Kevin R Ward
Submitted Timestamp:	The application was submitted on 2026-10-02 at 13:47:13 CDT
Submitted From:	The application was submitted from IP address 205.204.5.17
Confirmation Number:	The confirmation number is 805333
Steers Version:	The STEERS version is 6.96
Permit Number:	The permit number is 1094

Additional Information

Application Creator: This account was created by Kathleen H Gross

From: Savannah Quiros
Sent: Thursday, October 1, 2026 9:31 AM
To: Desloges, Jacquelyn; Kate Gross; Aabhash Khadka; Oyewo, Oyeteju
Cc: Darst, Christy
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476
Attachments: SOP - O1094 Owens Corning Insulating Systems, LLC (Renewal, 35476) - Draft.docx

Good morning all,

Attached is a courtesy copy of the draft SOP. There is only one change: a permit shield was removed/denied for GRP-FAB for 30 TAC Chapter 115, Subchapter E, Division 2 (115.420), because the units have applicable requirements for the same division in the permit (115.421).

The Public Notice package will be mailed out later today, so please be on the lookout for it!

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Friday, September 18, 2026 10:17 AM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Kate Gross <KGross@trinityconsultants.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>
Subject: Re: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Savannah,

Sorry for the late response. We have no further comments on the latest draft.

Best regards,

Jacquelyn Desloges
Regional Environmental Leader - Insulation

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Friday, September 18, 2026 10:17 AM
To: Savannah Quiros; Kate Gross; Aabhash Khadka; Oyewo, Oyeteju
Cc: Darst, Christy
Subject: Re: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Savannah,

Sorry for the late response. We have no further comments on the latest draft.

Best regards,

Jacquelyn Desloges
Regional Environmental Leader - Insulation
Pronouns: She, Her, Hers (What's this?)

Owens Corning

M: 1.972.268.5903
jacquelyn.desloges@owenscorning.com

OWENS CORNING
2790 Columbus Road
Granville, Ohio | 43023 | United States
www.owenscorning.com



Explore our Sustainability Story

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, September 16, 2026 2:54 PM
To: Kate Gross <KGross@trinityconsultants.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Kate,

Attached is the latest Working Draft Permit (WDP). Please review the WDP and submit to me any comments you have on the working draft permit by the end of the day **tomorrow, *9/17***. Since this is a follow-up review to the previously submitted and reviewed WDP, only comments concerning changes since the last WDP may be considered by TCEQ. Any comments outside the scope of the most recent changes should be submitted as a separate project.

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Wednesday, September 16, 2026 11:12 AM
To: Robert Hunter <Robert.Hunter@tceq.texas.gov>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Oyeteju.Oyewo@owenscorning.com; Jacquelyn.Desloges@owenscorning.com
Cc: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Christy.Darst@owenscorning.com
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Robert,

Please maintain the permit shields for 03FAB in the permit.

Thank you,
Kate

Kate Gross
Principal Consultant | Manager of Consulting Services – Salt Lake City

P 385.509.4478 M 214.405.1598
Email: kgross@trinityconsultants.com
4525 Wasatch Blvd, Suite 150, Salt Lake City, Utah 84124

Upcoming Events:
Sep 15-16 – Effective Management of Stack Test Programs – Salt Lake City, UT
Sep 17 – Continuous Emission Monitoring Systems (CEMS) – Best Practices and Program Management – Salt Lake City, UT
Oct 14 – Air Quality Permitting in Utah – Salt Lake City, UT
Oct 21 – Air Quality Permitting in Colorado – Denver, CO
Oct 22 – Air Dispersion Modeling for Managers in Colorado – Denver, CO

From: Robert Hunter <Robert.Hunter@tceq.texas.gov>
Sent: Wednesday, September 16, 2026 9:50 AM
To: Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>; Oyeteju.Oyewo@owenscorning.com; Jacquelyn.Desloges@owenscorning.com

Cc: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Christy.Darst@owenscorning.com
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Good morning, Aabhash,

Thank you for your comments on the WDP. I just left you a voicemail, asking for some clarification on your most recent WDP comment. We understand you would like to remove the applicable requirements for emission unit 03FAB from the Title V permit. Would you like to maintain the permit shields for 03FAB and keep the unit in the permit? If not, we will remove the emission unit from the permit entirely. Please provide clarification on your request by **COB tomorrow, 09/17/2026**. Feel free to give me a call if that works better for you.

Sincerely,

Robert P. Hunter
Team Leader – Title V
OA/Air Permits Division/OP Section
MC-163, P.O. Box 13087
Austin, TX 78711-3087
robert.hunter@tceq.texas.gov

Phone: (512) 239-1244
Fax: (512) 239-1400

How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, September 16, 2026 10:06 AM
To: Robert Hunter <Robert.Hunter@tceq.texas.gov>
Subject: FW: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Latest WDP

Best,

Savannah Quiros (x1228)
(she/they/them)
Permit Reviewer – Title V

From: Aabhash Khadka < >
Sent: Friday, September 11, 2026 4:30 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Kate Gross <KGross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Savannah,

Please find the Draft Permit with a single comment on behalf of OCIS.

Thank you!

आभाश खड्का
Aabhash Khadka, E.I.T
Consultant

P 972.661.9224 M 857.867.0316 (preferred)
Email: aabhash.khadka@trinityconsultants.com
12700 Park Central Dr, Ste. 600 Dallas, TX 75251



Connect with us: LinkedIn / YouTube / trinityconsultants.com

View our capabilities in the Environmental Consulting, Built Environment, Life Sciences, and Water & Ecology markets.

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, September 2, 2026 4:48 PM
To: Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hello all,

Attached is Draft 2 of the Owens Corning Insulating Systems LLC permit.
Regarding the comments on the draft permit:

- GRP-EFURN Unit Type description has been changed back to “Miscellaneous units”
- Unit ID 03FAB has been removed from GRP-FAB.
- Unit IDs 09DYE, 09REST2, PROPANE2UL, 13NBOIL, 13SBOIL, 4, and 5 were removed.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					[G]§ 117.410(e)(3) § 117.410(e)(4) § 117.430(b) § 117.440(j)	4.0 lb/ton of product pulled.	§ 117.440(k)(1) § 117.440(k)(2) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)		§ 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
03FAB	PRO	R5421-1	VOC	30 TAC Chapter 115, Surface Coating Operations	§ 115.421(4) § 115.421 [G]§ 115.422(7) § 115.426	Paper coating. VOC emissions from the coating of paper (or specified tapes or films) must not exceed 2.9 pounds per gallon of coating (minus water and exempt solvent) delivered to the application system (0.35 kg/liter).	§ 115.424(a) § 115.424(b) [G]§ 115.425(1) § 115.425(6) [G]§ 115.426(1)	§ 115.426 [G]§ 115.426(1)	None
03FAB	PRO	63JJJJ-1	112(B) HAPS	40 CFR Part 63, Subpart JJJJ	§ 63.3320(b)(2)	No more than 4 percent of the mass of coating materials applied for each month at existing affected sources, and no more than 1.6 percent of the mass of coating materials applied for each month at new affected sources.	§ 63.3360(c)(1) § 63.3360(c)(2) § 63.3360(c)(3) § 63.3370(b)	§ 63.3410(a)(1)(iii)	§ 63.3400(b)(1) § 63.3400(c)
03MELT	EU	R7410-2	CO	30 TAC Chapter 117, Subchapter B	§ 117.410(c)(1) § 117.410(c)(1)(B) § 117.440(j)	No person shall allow the discharge into the atmosphere from any unit carbon monoxide (CO) emissions that exceed 400 ppmv at 3.0% oxygen, dry basis.	§ 117.435(a)(1) § 117.435(a)(3) § 117.435(b) § 117.435(d) § 117.440(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5)	§ 117.445(a) § 117.445(f) § 117.445(f)(1) § 117.445(f)(8)	§ 117.435(f) § 117.445(b) [G]§ 117.445(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4)

Commented [AK1]: Please remove Chapter 115 and JJJJ for 03FAB as they do not do paper coating anymore.

- Permit shield requests for 72DIE_A and 72DIE_B – These units were submitted on form OP-UA3 and the unit attributes submitted indicate the two units are not subject to NSPS K nor 30 TAC Chapter 115. This information was documented internally and is not represented in the permit because permit shields were not requested. Permit shields can be requested via form OP-REQ2. 72DIE_A and 72DIE_B do not have Title V applicable requirements and there were no permit shields requested for these units, so they do not appear in the Title V permit. If you would like to request permit shields for these units, please submit form OP-REQ2 in the next Significant Revision or Renewal project for FOP O1094.

Please review the attached draft permit and send any comments you have, or approval, by **09/09/2026**.

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400

How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>
Sent: Friday, August 7, 2026 1:41 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Kate Gross <KGross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Savannah,

Please find comments on the draft permit and the updated OP-PBRSUP attached to this email. The OP-CRO1 will be signed and submitted via STEERS shortly today.

Please let us know if you have any additional comments.

From: Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>
Sent: Friday, August 7, 2026 1:41 PM
To: Savannah Quiros; Kate Gross; Oyewo, Oyeteju; Desloges, Jacquelyn
Cc: Darst, Christy
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476
Attachments: 2026-0807 FINAL OCIS PBRSUP.pdf; Comparison File V5_TC Comments.docx

Hi Savannah,

Please find comments on the draft permit and the updated OP-PBRSUP attached to this email. The OP-CRO1 will be signed and submitted via STEERS shortly today.

Please let us know if you have any additional comments.

आभाश खड्का
Aabhash Khadka, E.I.T
Consultant

P 972.661.9224 M 857.867.0316 (preferred)
Email: aabhash.khadka@trinityconsultants.com
12700 Park Central Dr, Ste. 600 Dallas, TX 75251



Connect with us: LinkedIn / YouTube / trinityconsultants.com

View our capabilities in the Environmental Consulting, Built Environment, Life Sciences, and Water & Ecology markets.

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, July 29, 2026 11:49 AM
To: Kate Gross <kgross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Kate,

I can grant an extension until next week on August 7th, thank you!

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer

observation for a period of at least six minutes in accordance with 40 CFR Part 60, Appendix A, Test Method 22.

F. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

9. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

10. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated ~~May 21~~September 5, 2025 in the application for project 35476), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

Commented [KHG1]: Will be updated with this submittal

A. Are incorporated by reference into this permit as applicable requirements

B. Shall be located with this operating permit

C. Are not eligible for a permit shield

11. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

12. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
01DRY	SURFACE COATING OPERATIONS	N/A	R5421-1	30 TAC Chapter 115, Surface Coating Operations	No changing attributes.
01DRY	SURFACE COATING OPERATIONS	N/A	63JJJJ-1	40 CFR Part 63, Subpart JJJJ	No changing attributes.
01MELT	PROCESS HEATERS/FURNACES	N/A	R7410-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
01MELT	~~GLASS MANUFACTURING~~MISCELLANEOUS UNITS	N/A	63NNN-1	40 CFR Part 63, Subpart NNN	No changing attributes.
01QHWWBT1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
01QHWWBT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
01QHWWRT1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
01QHWWRT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
02MELT	PROCESS HEATERS/FURNACES	N/A	R7410-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
03MELT	PROCESS HEATERS/FURNACES	N/A	R7410-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
07ASST	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
07ASST	STORAGE TANKS/VESSELS	N/A	60Kb-07ASST	40 CFR Part 60, Subpart Kb	No changing attributes.
07ASSTUL	LOADING/UNLOADING	N/A	R5211-1	30 TAC Chapter 115,	No changing attributes.

Commented [AK2]: Why is this being changed?

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
				Storage of VOCs	
07WOSTLO	LOADING/UNLOADING OPERATIONS	N/A	R5211-2	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
07WWST	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09ADST1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09ADST2	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09ADSTUL	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
09DYE	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09MDST1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09MDST2	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09MDUL1	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
09MDUL2	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
09QBCT1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Commented [AK3]: Please remove this as this has been replaced with DYE1 and DYE2. The documentation for this was sent to the TCEQ via email on August 14, 2025.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
09QBCT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBCT2	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09QBCT2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBCT3	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09QBCT3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBCT4	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09QBCT4	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBCT5	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09QBCT5	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBMT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBMT2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
~~09REST2~~	~~STORAGE TANKS/VESSELS~~	~~N/A~~	~~R5112~~	~~30 TAC Chapter 115, Storage of VOCs~~	~~No changing attributes.~~
09REST3	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
10	EMISSION POINTS/STATIONARY	N/A	R1151-1	30 TAC Chapter 111,	No changing attributes.

Commented [AK4]: This tank should be removed as it is no longer used.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
				Operations	
GRP-ASPH	SURFACE COATING OPERATIONS	01ASPH	63JJJJ-1	40 CFR Part 63, Subpart JJJJ	No changing attributes.
GRP-BKUP	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	CWBU, FWCBUV1, HWBUV1, PCWSBU	R111-GRPBKUP	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-BOIL	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	13NBOIL, 13SBOIL	R7410-3	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRP-BOIL	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	13NBOIL, 13SBOIL	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRP-EFURN	~~GLASS MANUFACTURING~~MISCELLANEOUS UNITS	02MELT, 03MELT	63NNN-1	40 CFR Part 63, Subpart NNN	No changing attributes.
GRP-FAB	SURFACE COATING OPERATIONS	01FAB, 02FAB, ~~03FAB~~	R5421-1	30 TAC Chapter 115, Surface Coating Operations	No changing attributes.
GRP-FAB	SURFACE COATING OPERATIONS	01FAB, 02FAB, ~~03FAB~~	63JJJJ-1	40 CFR Part 63, Subpart JJJJ	No changing attributes.
GRP-MIX	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	22, 40	R1151-2	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
GRP-MIX	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	22, 40	111-MIX	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-MIX	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	22, 40	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-PRNT	PRINTING UNITS	01FAB,	R5437-1	30 TAC Chapter 115,	No changing attributes.

Commented [AK5]: Why is this being changed?

Commented [AK6]: 03FAB has been removed; please remove from the grouping.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
PCWSBU2	SRIC ENGINES	N/A	R7403-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
PCWSBU2	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
PCWSBU2	SRIC ENGINES	N/A	63ZZZZ-5	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
PRO-V1LINE	MISCELLANEOUS UNITS	N/A	63NNN-1	40 CFR Part 63, Subpart NNN	No changing attributes.
PROPANE1UL	LOADING/UNLOADING OPERATIONS	N/A	R5211-3	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
~~PROPANE2UL~~	~~LOADING/UNLOADING OPERATIONS~~	~~N/A~~	~~R5211-3~~	~~30 TAC Chapter 115, Loading and Unloading of VOC~~	~~No changing attributes.~~
SILCIRC	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
SILMIX	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
SILSURG	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
V1BNDRCIRC	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
V1WWSUPPLY	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
V2BNDRCIRC	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
V2WWSUPPL	EMISSION POINTS/STATIONARY	N/A	R5127-2	30 TAC Chapter 115, Vent	No changing attributes.

Commented [AK7]: This has been removed

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						exempt from the requirements of this division.			
09ADST 2	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
09ADST UL	EU	R5211-1	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
~~09DYE~~	~~EP~~	~~R5127-2~~	~~VOC~~	~~30 TAC Chapter 115, Vent Gas Controls~~ ~~§ 115.127(a)(2)(A)~~ ~~[G]§ 115.122(a)(4)~~ ~~§ 115.127(a)(2)~~	~~A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.~~	~~[G]§ 115.125~~ ~~§ 115.126(2)~~	~~§ 115.126~~ ~~§ 115.126(2)~~ ~~§ 115.126(4)~~	~~None~~	
09MDST 1	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						of this title.			
09QBMT2	EP	R5127-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
~~09REST2~~	~~EU~~	~~R5112~~	~~VOC~~	~~30 TAC Chapter 115, Storage of VOCs~~	~~§ 115.111(a)(1)~~	~~Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.~~	~~[G]§ 115.117~~	~~§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)~~	~~None~~
09REST3	EU	R5112	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None
10	EP	R1151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates	** See CAM Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							** See Periodic Monitoring Summary		
GRP-BOIL	EU	63DDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.3 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a) [G]§ 63.7540(a)(10) § 63.7540(a)(13)	A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater must conduct a tune-up of the boiler or process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions.	§ 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h) § 63.7521(i) § 63.7530(g) § 63.7540(a) [G]§ 63.7540(a)(10) [G]§ 63.7540(c)	§ 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g) § 63.7555(h) § 63.7560(a) § 63.7560(b) § 63.7560(c)	[G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c) [G]§ 63.7545(e) [G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c) [G]§ 63.7550(h)
GRP-~~BOIL~~EFURN	~~EU~~PRO	~~63DDDDD~~63NNN-1	112(B) HAPS	40 CFR Part 63, Subpart ~~DDDDD~~NNN	§ 63.~~7500~~1382(a)~~(1)~~-Table 2.3~~.3~~ § 63.~~7500(a~~1382(b)(1) § 63.~~7500(a)(3~~1382(c) ~~§~~[G]§ 63.~~7500~~(f1382(c)(3)	~~A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater must conduct a tune-up of the boiler or~~	~~§~~[G]§ 63.~~7515(d~~1383(a) § 63.~~7530(g~~1383(d) § 63.~~7540(a~~1383(e)(1) ~~§~~[G]§ 63.~~7540~~1383(	[G]§ 63.~~7555(a~~1386(d)(1) § 63.~~7555(g~~1386(d)(2) § 63.~~7555(h~~1386(d)(2)(iii) § 63.1386(d)(2)(ix)	§ 63.~~7530(e~~1386(c) [G]§ 63.~~7545(e~~1386(c) ~~[G]~~§§ 63.~~7545(f~~1386(e) § 63.~~7550(a~~1386(f) ~~[G]~~§§ 63.~~7550(b~~1386(g) [G]§ 63.~~7550(c~~1389(e)

Formatted: Swedish (Sweden)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§[G]§ 63.7505(a1382(c)(5)) § 63.75401389(a) § 63.7540(a)(11389(b) § 63.7540(a)(131389(c) § 63.1389(d)	process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions.For each glass-melting furnace constructed on or before November 25, 2011, PM emissions must be limited to 0.33 lb PM per ton of glass pulled.	e)(2) § 63.1383(f) § 63.1383(m) § 63.1384(a)(1) § 63.1384(a)(1) § 63.1384(a)(1) § 63.1384(a)(2) § 63.1384(a)(3) § 63.1384(a)(6) § 63.1384(b) § 63.1384(e) [G]§ 63.7540(e)1385		
GRP-EFURNFAB	EUPRO	63NNNR5421-1	112(B) HAPSVOC	40 CFR Part 63, Subpart NNN30 TAC Chapter 115, Surface Coating Operations	§ 63.1382(a) Table 2.3 § 63.1382(b)(1) § 63.1382(c) § 115.421(4) § 115.421 [G]§ 63.1382(c)(3115.422(7) [G]§ 63.1382(c)(5) § 63.1389(a) § 63.1389(b) § 63.1389(c) § 63.1389(d)§ 115.426	For each glass-melting furnace constructed on or before November 25, 2011, PM emissions must be limited to 0.33 lb PM per ton of glass pulled.Paper coating. VOC emissions from the coating of paper (or specified tapes or films) must not exceed 2.9 pounds per gallon of coating (minus water and exempt solvent) delivered to the	§ 115.424(a) § 115.424(b) [G]§ 63.1383(a) § 63.1383(d) § 63.1383(e)(115.425(1) § 115.425(6) [G]§ 63.1383(e)(2) § 63.1383(f) § 63.1383(m) § 63.1384(a) § 63.1384(a)(115.426(1) § 63.1384(a)(2)	§ 115.426 [G]§ 63.1386(d)(115.426(1) § 63.1386(d)(2) § 63.1386(d)(2)(iii) § 63.1386(d)(2)(ix)	§ 63.1386(c) [G]§ 63.1386(c) § 63.1386(e) § 63.1386(f) § 63.1386(g) [G]§ 63.1389(e)None

Commented [KHG8]: These align with the paper coating operations in Chapter 115 per the flowchart. They should only apply to 01FAB and 02FAB. 03FAB no longer exists.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						application system (0.35 kg/liter).	§ 63.1384(a)(3) § 63.1384(a)(6) § 63.1384(b) § 63.1384(e) [G]§ 63.1385		
GRP-FAB	EUPRO	63JJJJ-1	112(B) HAPS	40 CFR Part 63, Subpart JJJJ	§ 63.3320(b)(2)	No more than 4 percent of the mass of coating materials applied for each month at existing affected sources, and no more than 1.6 percent of the mass of coating materials applied for each month at new affected sources.	§ 63.3360(c)(1) § 63.3360(c)(2) § 63.3360(c)(3) § 63.3370(b)	§ 63.3410(a)(1)(iii)	§ 63.3400(b)(1) § 63.3400(c)
GRP-MIX	EP	R1151-2	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
GRP-MIX	EP	111-MIX	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged	[G]§ 111.111(a)(1)(F) ** See Periodic	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
							[G]§ 63.1384(a)(13) § 63.1384(a)(2) § 63.1384(a)(3) § 63.1384(a)(8) § 63.1384(a)(9) § 63.1384(c) § 63.1384(e) [G]§ 63.1385		
PROPANE1UL	EU	R5211-3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(3) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Liquefied petroleum gas. All loading and unloading of liquefied petroleum gas is exempt from the requirements of this division, except for the specified requirements.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None
~~PROPANE2UL~~	~~EU~~	~~R5211-3~~	~~VOC~~	~~30 TAC Chapter 115, Loading and Unloading of VOC~~	~~§ 115.217(a)(3) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)~~	~~Liquefied petroleum gas. All loading and unloading of liquefied petroleum gas is exempt from the requirements of this division, except for the specified requirements.~~	~~§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i)~~	~~§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)~~	~~None~~
SILCIRC	EP	R5127-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			containing resins are used.
03FORM	N/A	30 TAC Chapter 117, Subchapter B	Forming oven or forming process used in a mineral wool-type fiberglass manufacturing.
03INCIN	N/A	30 TAC Chapter 117, Subchapter B	Capacity less than 40 MMBtu/hr.
03MELT	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion source not used to control emissions from a non-combustion source subject to the vent gas rule.
07BOST	N/A	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973.
07REST1	N/A	40 CFR Part 60, Subpart K	Does not store petroleum liquids. Construction commenced prior to June 11, 1973.
07WOST	N/A	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973.
09ADST1	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than ~~19,800 gallons~~75 cubic meters.
09ADST2	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than ~~19,800 gallons~~75 cubic meters.
09MDST1	N/A	40 CFR Part 60, Subpart Kb	True vapor pressure less than 0.5 psia.
09MDST2	N/A	40 CFR Part 60, Subpart Kb	True vapor pressure less than 0.5 psia.
09QBMT1	N/A	30 TAC Chapter 115, Storage of VOCs	Storage container capacity is less than 1,000 gallons.
09QBMT2	N/A	30 TAC Chapter 115, Storage of VOCs	Storage container capacity is less than 1,000 gallons.
~~09REST2~~	~~N/A~~	~~40 CFR Part 60, Subpart Ka~~	~~Does not store petroleum liquids.~~

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
09REST3	N/A	40 CFR Part 60, Subpart K	Capacity is less than ~~75m3~~75 cubic meters.
49	N/A	30 TAC Chapter 117, Subchapter B	Process heater with maximum rated capacity less than 5.0 MMBtu/hr.
73GAS	N/A	30 TAC Chapter 115, Storage of VOCs	Storage container less than 1,000 gallons.
73GAS	N/A	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973.
GRP-BOIL	13NBOIL, 13SBOIL	40 CFR Part 60, Subpart D	Heat input rate is less than 250 MMBtu/hr. Construction commenced prior to December 22, 1976.
GRP-EFURN	02MELT, 03MELT	40 CFR Part 60, Subpart CC	Unit is an electric melter.
GRP-EFURN	02MELT, 03MELT	40 CFR Part 60, Subpart N	Does not use commercial arsenic as a raw material.
GRP-FAB	01FAB, 02FAB, 03FAB	30 TAC Chapter 115, Subchapter E, Division 5	Fabrication area printing operations do not contain surface coating process as specified in 115.450(a).
GRP-FAB	01FAB, 02FAB, 03FAB	30 TAC Chapter 115, Surface Coating Operations	Fabrication area printing operations do not contain surface coating process as specified in 115.420(a).
PRO-V1LINE	N/A	40 CFR Part 60, Subpart PPP	Construction commenced prior to February 7, 1984.
PRO-V2LINE	N/A	40 CFR Part 60, Subpart PPP	Construction commenced prior to February 7, 1984.
PRO-V2LINE	N/A	40 CFR Part 63, Subpart NNN	The rotary spin wool fiberglass manufacturing line does not produce a bonded wool fiberglass building insulation product as defined in

Commented [AK9]: Please add 72DIE_A and 72DIE_B here for Chapter 115 and Subpart K because of the storage container being less than 1,000 gallons and 75 cubic meters respectively.
This information and corresponding documentation has been sent to the TCEQ on 06/10/2024

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 6093	Issuance Date: 10/10/2024
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 7	Version No./Date: 11/05/1986
Number: 106.102	Version No./Date: 09/04/2000
Number: 106.103	Version No./Date: 03/14/1997
Number: 106.122	Version No./Date: 03/14/1997
~~Number: 106.183~~	~~Version No./Date: 06/18/1997~~
Number: 106.183	Version No./Date: 09/04/2000
~~Number: 106.227~~	~~Version No./Date: 03/14/1997~~
Number: 106.227	Version No./Date: 09/04/2000
~~Number: 106.261~~	~~Version No./Date: 09/04/2000~~
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
~~Number: 106.263~~	~~Version No./Date: 03/14/1997~~
Number: 106.263	Version No./Date: 11/01/2001
~~Number: 106.264~~	~~Version No./Date: 03/14/1997~~
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.266	Version No./Date: 03/14/1997
Number: 106.371	Version No./Date: 03/14/1997
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.372	Version No./Date: 03/14/1997
Number: 106.373	Version No./Date: 03/14/1997
Number: 106.412	Version No./Date: 03/14/1997
~~Number: 106.418~~	~~Version No./Date: 03/14/1997~~
Number: 106.418	Version No./Date: 09/04/2000
~~Number: 106.433~~	~~Version No./Date: 03/14/1997~~
Number: 106.452	Version No./Date: 03/14/1997
Number: 106.453	Version No./Date: 09/04/2000
~~Number: 106.454~~	~~Version No./Date: 03/14/1997~~
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 03/14/1997

Commented [AK10]: Please remove this as the boilers associated with this are removed.

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
01ASPH	V-1 ASPHALT APPLICATOR	6093
01CURE	V-1 CURING OVEN	6093
01DRY	V-1 FACING ADHESIVE APPLICATOR AND DRYING OVEN	6093
01FAB	V-1 FLEXOGRAPHIC PRINTING OPERATIONS	6093, ~~106.418/09/04/2000~~
01FAB	V1 FABRICATION AREA	6093
01FORM	V-1 FORMING SECTION	6093
01INCIN	V-1 CURING OVEN INCINERATOR	6093
01MELT	V-1 GLASS MELTING FURNACE	6093
01QHWWBT1	BINDER MAKE-UP TANK	6093
01QHWWRT1	WASH WATER RECIRCULATION TANK	6093
02CURE	V-2 CURING OVEN	6093
02FAB	V-2 FLEXOGRAPHIC and Other PRINTING OPERATIONS	6093, 106.262/11/01/2003 [113627], 106.418/09/04/2000 [162525]
02FAB	V2 FABRICATION AREA	6093
02FORM	V-2 FORMING SECTION	6093
02INCIN	V-2 CURING OVEN INCINERATOR	6093
02MELT	V-2 GLASS MELTING FURNACE	6093
03CURE	V-3 CURING OVEN	6093
~~03FAB~~	~~V-3 FLEXOGRAPHIC PRINTING OPERATIONS~~	~~106.418/09/04/2000~~
03FAB	V3 FABRICATION AREA	6093
03FORM	V-3 FORMING SECTION	6093

Formatted: Font: 8 pt

Formatted: Font: 7 pt

Commented [AK11]: The V-1 Flexographic Printing operations are authorized via the case-by-case permit (EPN 11). Please remove the 106.418 reference.

Commented [AK12]: The V-2 Flexographic Printing operations are authorized via the case-by-case permit (EPN 52)

Commented [KHG13R12]: I think we need to keep 02FAB with 106.418 due to PBR registration 162525.

Commented [AK14]: This is no longer in operation. Please remove this.

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
03INCIN	V-3 CURING OVEN INCINERATOR	6093
03MELT	V-3 GLASS MELTING FURNACE	6093
07ASST	ASPHALT STORAGE TANK	106.472/03/14/1997
07ASSTUL	UNLOADING OF ASPHALT	106.473/03/14/1997
07BOST	MT OIL STORAGE TANK	106.473/03/14/1997
07BOSTUL	UNLOADING OF MT OIL	106.473/03/14/1997
07FOST	SURGE WASH WATER TANK	106.472/09/04/2000
07REST1	TANK FARM RESIN STORAGE TANK	106.472/03/14/1997
07REST1UL	UNLOADING OF RESIN	106.473/03/14/1997
07UPST	UREA MIX TANK	106.472/09/04/2000
07USST	UREA SOLUTION TANK	106.472/09/04/2000
07WOST	USED OIL STORAGE TANK	106.473/03/14/1997
07WOSTLO	LOADING OF USED OIL	106.473/03/14/1997
07WWST	SURGE WASH WATER TANK	106.472/09/04/2000
09ADST1	ADHESIVE STORAGE TANK 1	106.472/03/14/1997
09ADST2	ADHESIVE STORAGE TANK 2	106.472/03/14/1997
09ADSTUL	UNLOADING OF ADHESIVE	106.472/03/14/1997
~~09DYE~~	~~DYE TANK (LOWER LEVEL)~~	~~106.472/09/04/2000~~
09MDST1	RESIN TANK 1	6093
09MDST2	RESIN TANK 2	6093
09MDUL1	UNLOADING FOR RESIN TANK 1	6093

Formatted: Font: 8 pt

Formatted: Font: 7 pt

Commented [AK15]: This should be 106.472. Same as above.

Commented [AK16]: This should be 106.472. Same as above.

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
09MDUL2	UNLOADING FOR RESIN TANK 2	6093
09QBCT1	BINDER CIRCULATION TANK NO. 1	6093
09QBCT2	BINDER CIRCULATION TANK NO. 2	6093
09QBCT3	BINDER CIRCULATION TANK NO. 3	6093
09QBCT4	BINDER CIRCULATION TANK NO. 4	6093
09QBCT5	BINDER CIRCULATION TANK NO. 5	6093
09QBMT1	BINDER MIX TANK NO. 1	6093
09QBMT2	BINDER MIX TANK NO. 2	6093
~~09REST2~~	~~OUTDOOR RESIN STORAGE TANK~~	~~106.472/03/14/1997~~
09REST3	OUTSIDE RESIN USE TANK	6093 ~~106.472/03/14/1997, 106.472/09/04/2000~~
10	V-1 MIXING CHAMBER STACK	6093
11	V-1 FACING OVEN/ASPHALT APPLICATOR VENT	~~6093~~6093, 106.261/11/01/2003 [162524], 106.262/11/01/2003 [162524]
13	V-1 COOLING SECTION STACK	6093
~~13NBOIL~~	~~NORTH BOILER (20 MM BTU/HR)~~	~~7/11/05/1986~~
~~13SBOIL~~	~~SOUTH BOILER (20MM BTU/HR)~~	~~7/11/05/1986~~
17	BINDER ROOM VENT	6093
22	V-2 MIXING CHAMBER STACK	6093
23	V-2 COOLING SECTION STACK	6093
~~4~~	~~NORTH BOILER VENT~~	~~7/11/05/1986~~
40	V-3 MIXING CHAMBER STACK	6093

Formatted: Font: 8 pt

Formatted: Font: 7 pt

Commented [AK17]: This is authorized in case-by-case permit under EPN 18.

Commented [AK18]: This is removed along with EPN 4

Commented [AK19]: This is removed along with EPN 5

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
41	V-3 COOLING SECTION STACK	6093
49	ASPHALT TANK HEATER	106.183/09/04/2000
~~5~~	~~SOUTH BOILER VENT~~	~~7/11/05/1986~~
55	V-2 STRIPPING SECTION STACK	6093
56	V-3 STRIPPINGSECTION STACK	6093
72DIEUL	UNLOADING OF DIESEL	106.473/03/14/1997
73GAS	GASOLINE TANK	106.473/03/14/1997
BOILER-1	BOILER	106.183/09/04/2000
CWBU	BACKUP CULLET WATER PUMP	106.511/03/14/1997
CWBU	BACKUP CULLET WATER PUMP VENT	106.511/03/14/1997
DYE1	DYE TANK	106.472/09/04/2000
DYE2	DYE TANK	106.472/09/04/2000
FWCBUV1	V1 BACKUP FURNACE COOLING ENGINE	106.511/03/14/1997
FWCBUV1	V1 BACKUP FURNACE COOLING ENGINE VENT	106.511/03/14/1997
FWCBUV2	V2 BACKUP FURNACE COOLING ENGINE	106.511/03/14/1997
FWCBUV3	V3 BACKUP FURNACE COOLING ENGINE	106.511/03/14/1997
HWBUV1	HOTWELL BACKUP PUMP #1	106.511/03/14/1997
HWBUV1	HOTWELL BACKUP PUMP #1 VENT	106.511/03/14/1997
HWBUV2	V2 HOTWELL BACKUP PUMP	106.511/03/14/1997
HWBUV3	V3 HOTWELL BACKUP PUMP	106.511/03/14/1997
HWWWBSUP	BINDER SUPPLY TANK RECLAIM	6093, 106.472/09/04/2000

Formatted: Font: 8 pt

Formatted: Font: 7 pt

Commented [AK20]: This should be 106.472; also, please add 72DIE_A and 72DIE_B. They have been added to the PBRSUP

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
HWWWHOLD	HOODWALL WASH WATER HOLDING TANK	106.532/03/14/1997
HWWWSUP	HOODWALL WASH WATER SUPPLY TANK	106.532/03/14/1997
LIGSURG	LIGNIN SURGE TANK	6093, 106.472/09/04/2000
MTOILMIX	OIL EMULSION MIX TANK	6093, 106.472/09/04/2000
PCWSBU	BACKUP PROCESS COOLING WATER SUPPLY PUMP	106.511/03/14/1997
PCWSBU	BACKUP PROCESS COOLING WATER SUPPLY PUMP VENT	106.511/03/14/1997
PCWSBU2	PROCESS COOLING WATER BACKUP PUMP	106.511/09/04/2000
PRO-V1LINE	PRO-V1LINE	6093
PRO-V2LINE	PRO-V2LINE	6093
PRO-V3LINE	PRO-V3LINE	6093
PROPANE1UL	UNLOADING OF PROPANE	106.476/09/04/2000
~~PROPANE2UL~~	~~UNLOADING OF PROPANE~~	~~106.476/09/04/2000~~
SILCIRC	SILANE CIRCULATION TANK	6093, ~~106.472/09/04/2000~~
SILMIX	SILANE MIX TANK	6093, ~~106.472/09/04/2000~~
SILSURG	SILANE SURGE TANK	6093, ~~106.472/09/04/2000~~
V1BNDRCIRC	V1 CIRCULATION TANK	6093, ~~106.472/09/04/2000~~
V1WWSUPPLY	WASH WATER SYSTEM RECIRCULATION TANK 1	106.532/03/14/1997
V2BNDRCIRC	V2 CIRCULATION TANK	6093, ~~106.472/09/04/2000~~
V2WWSUPPLY	WASH WATER SYSTEM RECIRCULATION TANK 2	106.532/03/14/1997
V3BNDRCIRC	V3 CIRCULATION TANK	6093, ~~106.472/09/04/2000~~
V3WWSUPPLY	WASH WATER SYSTEM RECIRCULATION TANK 3	106.532/03/14/1997

Formatted: Font: 8 pt

Formatted: Font: 7 pt

Commented [AK21]: Please remove 106.472 from SILCIRC, SILMIX, and SILSURG, V1BNDRCIRC, V2BNDRCIRC, and V3BNDRCIRC as they are solely authorized in the case-by-case permit.

Texas Commission on Environmental Quality

Title V Existing

1094

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	WAXAHACHIE PLANT
Does the site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.439166
Longitude (W) (-###.######)	96.85
Primary SIC Code	3296
Secondary SIC Code	
Primary NAICS Code	327993
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100223585
What is the name of the Regulated Entity (RE)?	OWENS CORNING INSULATING SYSTEMS WAXAHACHIE PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.44148
Longitude (W) (-###.######)	-96.848
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603159088

Type of Customer	Other
Full legal name of the applicant:	
Legal Name	Owens Corning Insulating Systems, LLC
Texas SOS Filing Number	800719027
Federal Tax ID	371525228
State Franchise Tax ID	32020858554
State Sales Tax ID	
Local Tax ID	
DUNS Number	7332570
Number of Employees	251-500
Independently Owned and Operated?	No

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MR
First	KEVIN
Middle	
Last	SMITH
Suffix	
Credentials	
Title	VICE PRESIDENT ENTERPRISE R&D
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	2790 COLUMBUS RD
Routing (such as Mail Code, Dept., or Attn:)	
City	GRANVILLE
State	OH
ZIP	43023
Phone (###-###-####)	7403215259
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	kevin.d.smith@owenscorning.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	KEVIN WARD(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MR
First	KEVIN
Middle	

Last	WARD
Suffix	
Credentials	
Title	WAXAHACHIE PLANT LEADER
Enter new address or copy one from list	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
Zip	75165
Phone (###-###-####)	4794304006
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	kevin.ward@owenscoming.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	OYETEJU OYEWO(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MR
First	OYETEJU
Middle	
Last	OYEWO
Suffix	
Credentials	
Title	ENVIRONMENTAL LEAD
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
ZIP	75165
Phone (###-###-####)	9729234335
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	oyeteju.oyewo@owenscorning.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	32 Deg 26 Min 21 Sec
3) Permit Longitude Coordinate:	96 Deg 51 Min 0 Sec
4) Is this submittal a new application or an update to an existing application?	Update
4.1. Select the permit/project number for which this update should be applied.	1094-35476
5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	N/A

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

Attach OP-2 (Application for Permit Revision/Renewal)

Attach OP-ACPS (Application Compliance Plan and Schedule)

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

[File Properties]

File Name	OP_PBRSUP_2026-0807 FINAL OCIS PBRSUP.pdf
Hash	51FBD984D5779592E714ABF1C9480D28D8037052CA56C6A208CF46944AA8F62D
MIME-Type	application/pdf

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach Void Request Form

Attach any other necessary information needed to complete the permit.

[File Properties]

File Name	2026-0807 OCIS OP-CRO1.pdf
Hash	CAC479E7C4C9415C7A70D81AC53E8DC47064A41E2378EC8FEC3BBBE539D0FBD4
MIME-Type	application/pdf

An additional space to attach any other necessary information needed to complete the permit.

Certification

I certify that I am the Duly Authorized Representative for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am Kevin R Ward, the owner of the STEERS account ER110293.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1094.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Kevin R Ward OWNER OPERATOR

Account Number:	ER110293
Signature IP Address:	205.204.5.3
Signature Date:	2026-08-07
Signature Hash:	E446A6D419883E9220D24C0494C2382D833C62154F54BFB8C1C927385E665CF6
Form Hash Code at time of Signature:	CE6E4CE00DA40B0FFB965B956D0AFA82851360066177F3BD278F25FB961B1741

Submission

Reference Number:	The application reference number is 948276
Submitted by:	The application was submitted by ER110293/Kevin R Ward
Submitted Timestamp:	The application was submitted on 2026-08-07 at 14:25:16 CDT
Submitted From:	The application was submitted from IP address 205.204.5.3
Confirmation Number:	The confirmation number is 788724
Steers Version:	The STEERS version is 6.94
Permit Number:	The permit number is 1094

Additional Information

Application Creator: This account was created by Aabhash Khadka

Permit By Rule Supplemental Table (Page 1)
Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08/07/2026	O-1094	RN100223585

Unit ID No.	Registration No.	PBR No.	Registration Date
3	45087	106.262	08/18/2000
85	84393	106.371	04/10/2008
02FAB	113627	106.262	11/07/2013
11	162524	106.261	09/25/2020
11	162524	106.262	09/25/2020
02FAB (EPN 53)	162525	106.418	05/19/2021
BOILER 1	181553	106.183	9/29/2025
HWBUV1A	TBA	106.511	Pending

Permit By Rule Supplemental Table (Page 2)
Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08/07/2026	O-1094	RN100223585

Unit ID No.	PBR No.	Version No./Date
07USST	106.472	09/04/2000
07UPST	106.472	09/04/2000
07REST1	106.472	03/14/1997
07REST1UL	106.472	3/14/1997
07BOST	106.473	03/14/1997
07BOSTUL	106.473	03/14/1997
07WOST	106.473	03/14/1997
07WOSTLO	106.473	3/14/1997
07ASST	106.472	03/14/1997
07ASSTUL	106.472	03/14/1997
72DIE_A	106.472	09/04/2000
72DIE_B	106.472	09/04/2000
72DIEUL	106.472	09/4/2000
73GAS	106.473	03/14/1997
LIGSURG	106.472	9/4/2000
07FOST	106.472	09/04/2000
07WWST	106.472	09/04/2000
DYE1	106.472	09/04/2000
DYE2	106.472	09/04/2000
09REST1 (EPN 29)	106.472	9/4/2000
HWWWHOLD (EPN 347)	106.532	09/04/2000
HWWWSUP (EPN 347)	106.532	09/04/2000
V1WWSUPPLY (EPN 347)	106.532	09/04/2000
V2WWSUPPLY(EPN 347)	106.532	09/04/2000
V3WWSUPPLY (EPN 347)	106.532	09/04/2000
MTOILMIX	106.472	09/04/2000
09ADST1	106.472	03/14/1997
09ADST2	106.472	03/14/1997
09ADSTUL	106.472	3/14/1997
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000
PROPANE1UL	106.476	09/04/2000
76	106.472	09/04/2000
443	106.472	09/04/2000
63	106.371	03/14/1997
64	106.371	03/14/1997
65	106.371	03/14/1997
66	106.371	03/14/1997
67	106.371	03/14/1997
49	106.183	09/04/2000
FWCBUV1	106.511	03/14/1997
FWCBUV2	106.511	03/14/1997
FWCBUV3	106.511	03/14/1997
CWBU	106.511	09/04/2000
PCWSBU	106.511	03/14/1997

Permit By Rule Supplemental Table (Page 2)
Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08/07/2026	O-1094	RN100223585

Unit ID No.	PBR No.	Version No./Date
PCWSBU2	106.511	09/04/2000
HWBUV2	106.511	03/14/1997
HWBUV3	106.511	03/14/1997
Sandblasters	106.452	03/14/1997
Welding	106.227	09/04/2000
Water Treatment Chemicals	106.371	09/04/2000
Safety Kleen Stations	106.454	11/01/2001
Chiller Systems	106.373	03/14/1997
Site_MSS	106.263	11/01/2001
Hand held Machines	106.265	09/04/2000

Permit By Rule Supplemental Table (Page 3)
Table C: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08/07/2026	O-1094	RN100223585

PBR No.	Version No./Date
106.453	09/04/2000
106.122	03/14/1997
106.102	09/04/2000
106.103	03/14/1997
106.372	03/14/1997
106.266	03/14/1997

Permit By Rule Supplemental Table (Page 4)
Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08/07/2026	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
3	106.262	08/18/2000	Record annual throughput of sodium sulfate and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
85	106.371	04/10/2008	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
02FAB	106.262	11/07/2013	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.261	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.262	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
02FAB (EPN 53)	106.418	05/19/2021	Record annual ink and solvent usage and use underlying emission calculation methods to determine actual emissions
BOILER 1	106.183	9/29/2025	Record annual hours of operation
HWBUV1A	106.511	Pending	Record annual hours of operation
07USST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07UPST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07REST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07REST1UL	106.472	3/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07BOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07BOSTUL	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WOSTLO	106.473	3/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07ASST	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07ASSTUL	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_A	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_B	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIEUL	106.472	09/4/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
73GAS	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
LIGSURG	106.472	9/4/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions

Permit By Rule Supplemental Table (Page 4)
Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08/07/2026	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
07FOST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WWST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
DYE1	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
DYE2	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09REST1 (EPN 29)	106.472	9/4/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
HWWWHOLD (EPN 347)	106.532	09/04/2000	Record annual hours of operation.
HWWWSUP (EPN 347)	106.532	09/04/2000	Record annual hours of operation.
V1WWSUPPLY (EPN 347)	106.532	09/04/2000	Record annual hours of operation.
V2WWSUPPLY(EPN 347)	106.532	09/04/2000	Record annual hours of operation.
V3WWSUPPLY (EPN 347)	106.532	09/04/2000	Record annual hours of operation.
MTOILMIX	106.472	09/04/2000	Record annual hours of operation.
09ADST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09ADST2	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09ADSTUL	106.472	3/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
PROPANE1UL	106.476	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
76	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
443	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
63	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
64	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
65	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
66	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
67	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
49	106.183	09/04/2000	Record annual fuel usage and use underlying emission factors to calculate emissions and demonstrate compliance with PBR limits
FWCBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV2	106.511	03/14/1997	Record annual hours of operation
FWCBUV3	106.511	03/14/1997	Record annual hours of operation
CWBU	106.511	09/04/2000	Record annual hours of operation
PCWSBU	106.511	03/14/1997	Record annual hours of operation
PCWSBU2	106.511	09/04/2000	Record annual hours of operation
HWBUV2	106.511	03/14/1997	Record annual hours of operation
HWBUV3	106.511	03/14/1997	Record annual hours of operation
Sandblasters	106.452	03/14/1997	Maintain operating hours and abrasive material usage on annual basis

Permit By Rule Supplemental Table (Page 4)
Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area
Texas Commission on Environmental Quality

Date	Permit Number	Regulated Entity Number
08/07/2026	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
Welding	106.227	09/04/2000	Record annual usage of weld rods and lead content for maintenance activities to ensure 0.6 tpy emission limit for lead is met
Water Treatment Chemicals	106.371	09/04/2000	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
Safety Kleen Stations	106.454	11/01/2001	Record annual usage of solvent
Chiller Systems	106.373	03/14/1997	Maintain documentation of refrigeration chemical
Site_MSS	106.263	11/01/2001	Record details of maintenance activities for baghouse filter repacement, solvent/lubricant usage, vacuum trucks, and boiler maintenance and use the underlying emission calculations to demonstrate compliance with 24-hour emission limits. The details to be recorded include: - Type and reason for the activity - Process and equipment involved - Material usage - Date, time, and duration of the activity - Air contaminants and amounts emitted as a result of the activity
Hand held Machines	106.265	09/04/2000	Annual hours of grinding operations

TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Kate Gross <kgross@trinityconsultants.com>
Sent: Wednesday, July 29, 2026 9:43 AM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Thank you, Savannah, for your review of the Title V renewal application. We'd like to request an extension to review the updated working draft permit and provide the requested updated OP-PBRSUP until next week on August 7th.

Thank you,
Kate

Kate Gross
Principal Consultant | Manager of Consulting Services – Salt Lake City

P 385.509.4478 M 214.405.1598
Email: kgross@trinityconsultants.com
4525 Wasatch Blvd, Suite 150, Salt Lake City, Utah 84124

Upcoming Events:
Aug 10-12 – Introduction to Environmental Regulations - 3-Day (Multimedia) – Glacier National Park, MT
Aug 12 – New Mexico UIC Permitting – Albuquerque, NM
Aug 13-14 – Introduction to Environmental Reporting and Recordkeeping Requirements – Glacier National Park, MT
Sep 15-16 – Effective Management of Stack Test Programs – Salt Lake City, UT
Sep 17 – Continuous Emission Monitoring Systems (CEMS) – Best Practices and Program Management – Salt Lake City, UT
Oct 14 – Air Quality Permitting in Utah – Salt Lake City, UT
Oct 21 – Air Quality Permitting in Colorado – Denver, CO
Oct 22 – Air Dispersion Modeling for Managers in Colorado – Denver, CO

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Tuesday, July 28, 2026 8:50 AM
To: Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka

<Aabhash.Khadka@trinityconsultants.com>; Kate Gross <kgross@trinityconsultants.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Oye,

Attached is an updated draft permit and the latest Form OP-PBRSUP I have (from the September 2025 revision). Along with Owens Corning's approval of the draft permit, I also need an updated OP-PBRSUP. As per the form instructions: "Enter the identification number (ID No.) for the emission unit authorized by the registered PBR (maximum 10 characters). If listed on Form OP-SUM (Individual Unit Summary), the ID No. should match." Entering "Small Tanks and Totes" is not an acceptable Unit ID.
Please update the OP-PBRSUP with the following:

- SE 7 – Version No./Date: 11/05/1986 – Unit IDs 4 and 5 need to be listed
- PBR 106.532 – Version No./Date: 03/14/1997 – Unit IDs HWWWHOLD, HWWWSUP, V1WWSUPPLY, V2WWSUPPLY, and V3WWSUPPLY need to be listed
- PBR 106.473 – Version No./Date: 03/14/1997 – Unit IDs 07ASSTUL, 07BOST, 07BOSTUL, 07REST1UL, 07WOST, 07WOSTLO, 72DIEUL, 73GAS. Units 07ASSTUL, 07BOSTUL, 07REST1UL, 07WOSTLO, and 72DIEUL need to be listed
- PBR 106.472 – Version No./Date: 03/14/1997 – Unit IDs ADSTUL, 09REST2, 09REST3, DYE1, DYE2, HWWWBSUP, LIGSURG, MTOILMIX, SILCRIC, SILMIX, SILSURG, V1BNDRCIRC, V2BNDRCIRC, and V3BNDRCIRC need t o be listed
- PBR 106.418 – Version No./Date: 09/04/2000 – Unit IDs 01FAB, 02FAB, and 03FAB need to be listed
- PBR 106.476 – Version No./Date: 09/04/2000 – Unit IDs PROPANE1UL and PROPANE2UL need to be listed
- PBR 106.532 – Version No./Date: 03/14/1997 – Unit IDs V1WWSUPPLY and V2WWSUPPLY need to be listed
- PBR 106.472 – Version No./Date: 09/04/2000 – Registration No. 78155 was voided. Please remove Unit ID 30 from OP-PBRSUP

Please send approval of the draft permit and an updated OP-PBRSUP (all four tables) through STEERS by **07/30/2026**. Make sure you are using the latest revision of the OP-PBRSUP available on the TCEQ website (revised 05/26).

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087

From: Savannah Quiros
Sent: Wednesday, May 13, 2026 4:27 PM
To: Oyewo, Oyeteju; Desloges, Jacquelyn
Cc: Darst, Christy; Aabhash Khadka; Kate Gross
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Oye,

The blank OP-CRO1 form is available on the TCEQ website here: https://www.tceq.texas.gov/downloads/permitting/air/forms/title-v/documentation/10009.pdf
Also, please make sure the Responsible Official (James Belstein) or a Duly Authorized Representative submits the STEERS application.

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Sent: Wednesday, May 13, 2026 3:47 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <kgross@trinityconsultants.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hello Savannah,

Could you confirm whether you will be uploading the OP-CRO1 form to STEERS using the correct time period? Once the form is uploaded, I will be sure to submit the form through STEERS.

Thank you for your help.

Oye Oyewo

Environmental Lead
Owens Corning Insulating Systems, LLC | Environment, Health and Safety
P: (972) 923-4335 | **M:** (832) 468-0383
oyeteju.oyewo@owenscorning.com

INSULATION
3700 North I-35 E
Waxahachie, TX 75165
www.owenscorning.com

SALUTE
an Owens Corning Affinity Group

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, May 13, 2026 2:58 PM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <kgross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Jacquelyn,

While preparing QA/QC, I realized the case-by-case periodic monitoring for GRP-BOIL that was submitted with the rest of the approved OP-MONs was omitted. I've included it in the attached courtesy copy of the WDP (see pages 48, 73, and 74).

Also, the OP-CRO1 submitted through STEERS only covers the time period from 02/20/2026 to 05/01/2026. Please submit an OP-CRO1 through STEERS with the time period of **10/31/2024** to when you submit the form in order to cover all correspondence and certify all forms sent through email since then. Would it be possible to submit the form through STEERS by Friday, 05/15/2026?

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228

This site uses XSLT; that functionality is being removed from this browser very soon. When that happens, this page will likely no longer display correctly. You might be able to install a browser extension that allows you to continue viewing it. Otherwise, you should contact the maintainer of the site for further information.

Texas Commission on Environmental Quality

Title V Existing

1094

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	WAXAHACHIE PLANT
Does the site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.439166
Longitude (W) (-###.######)	96.85
Primary SIC Code	3296
Secondary SIC Code	
Primary NAICS Code	327993
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100223585
What is the name of the Regulated Entity (RE)?	OWENS CORNING INSULATING SYSTEMS WAXAHACHIE PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.44148
Longitude (W) (-###.######)	-96.848
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603159088

Type of Customer	Other
Full legal name of the applicant:	
Legal Name	Owens Corning Insulating Systems, LLC
Texas SOS Filing Number	800719027
Federal Tax ID	371525228
State Franchise Tax ID	32020858554
State Sales Tax ID	
Local Tax ID	
DUNS Number	7332570
Number of Employees	251-500
Independently Owned and Operated?	No

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	Owens Corning Insulating Systems LLC
Prefix	MR
First	Kevin
Middle	D
Last	Smith
Suffix	
Credentials	
Title	Vice President - Enterprise R&D
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	2790 COLUMBUS RD
Routing (such as Mail Code, Dept., or Attn:)	
City	GRANVILLE
State	OH
ZIP	43023
Phone (###-###-####)	7403215259
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	kevin.d.smith@owenscorning.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	KEVIN WARD(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MR
First	KEVIN
Middle	
Last	WARD

Suffix	
Credentials	
Title	WAXAHACHIE PLANT LEADER
Enter new address or copy one from list	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
Zip	75165
Phone (###-###-####)	4794304006
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	kevin.ward@owenscoming.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	New Contact
Organization Name	Owens Corning Insulating Systems LLC
Prefix	MR
First	Oyeteju
Middle	
Last	Oyewo
Suffix	
Credentials	
Title	Environmental Lead
Enter new address or copy one from list:	RE Physical Address
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
ZIP	75165
Phone (###-###-####)	9729234335
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	oyeteju.oyewo@owenscorning.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	32 Deg 26 Min 21 Sec

3) Permit Longitude Coordinate:	96 Deg 51 Min 0 Sec
4) Is this submittal a new application or an update to an existing application?	Update
4.1. Select the permit/project number for which this update should be applied.	1094-35476
5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	N/A

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

[File Properties]

File Name	OP_1_2026-0501 OCIS Updated OP-CRO1.pdf
Hash	E2B94305DE7BE9D13C646F4531BC2F4813BAAEE25D7B7BE98F1754408A9BA349
MIME-Type	application/pdf

Attach OP-2 (Application for Permit Revision/Renewal)

Attach OP-ACPS (Application Compliance Plan and Schedule)

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach Void Request Form

Attach any other necessary information needed to complete the permit.

An additional space to attach any other necessary information needed to complete the permit.

Certification

I certify that I am the Duly Authorized Representative for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am Kevin R Ward, the owner of the STEERS account ER110293.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1094.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Kevin R Ward OWNER OPERATOR

Account Number:	ER110293
Signature IP Address:	205.204.5.17
Signature Date:	2026-05-01
Signature Hash:	E446A6D419883E9220D24C0494C2382D833C62154F54BFB8C1C927385E665CF6
Form Hash Code at time of Signature:	196A656786F4223CF74816E7A32D179C38DBD3A69104076E81B27638AF4D86CF

Submission

Reference Number:	The application reference number is 919560
Submitted by:	The application was submitted by ER110293/Kevin R Ward
Submitted Timestamp:	The application was submitted on 2026-05-01 at 14:08:34 CDT
Submitted From:	The application was submitted from IP address 205.204.5.17
Confirmation Number:	The confirmation number is 766478
Steers Version:	The STEERS version is 6.94
Permit Number:	The permit number is 1094

Additional Information

Application Creator: This account was created by Aabhash Khadka

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, renewal, and reopening permit application submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information	
RN: **RN100223585**	
CN: **CN603159088**	
Account No.: **ED-0051-O**	
Permit No.: **O-1094**	
Project No.: **35476**	
Area Name: **Waxahachie Plant**	
Company Name: **Owens Corning Insulating Systems, LLC**	
II. Certification Type *(Please mark appropriate box)*	
☐ Responsible Official	☒ Duly Authorized Representative
III. Submittal Type *(Please mark appropriate box) (Only one response can be accepted per form)*	
☐ SOP/TOP Initial Permit Application	☐ Permit Revision, Renewal, or Reopening
☐ GOP Initial Permit Application	☒ Update to Permit Application
☐ Other: _____	

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, and renewal permit application submittals requiring certification must be accompanied by this form. Updates to acid rain or CSAPR (other than public notice verification materials) must be certified prior to authorization of public notice for the draft permit.

IV. Certification of Truth

This certification does not extend to information which is designated by TCEQ as information for reference only.

I, **Kevin Ward** certify that I am the **DAR**

(Certifier Name printed or typed) *(RO or DAR)*

and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:
Note: Enter Either a Time Period or Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).

Time Period: From **02/20/2026** to **05/01/2026**

(Start Date) *(End Date)*

Specific Dates: _____ _____ _____ _____

(Date 1) *(Date 2)* *(Date 3)* *(Date 4)*

_____ _____

(Date 5) *(Date 6)*

Signature: **via STEERS** Signature Date: _____

Title: **Plant Leader**

How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Savannah Quiros
Sent: Tuesday, April 28, 2026 9:14 AM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <kgross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Jacquelyn,

Great, thank you so much!

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228

How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Monday, April 27, 2026 1:13 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <kgross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: Re: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Savannah,

We are currently reviewing and should have the OP-CR01 submitted through STEERS before May 1, 2026.

Best regards,

Jacquelyn Desloges

Regional Environmental Leader - Insulation
Pronouns: She, Her, Hers (What's this?)

Owens Corning

M: 1.972.268.5903
jacquelyn.desloges@owenscorning.com

OWENS CORNING
2790 Columbus Road
Granville, Ohio | 43023 | United States
www.owenscorning.com



Explore our Sustainability Story

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Tuesday, April 14, 2026 1:12 PM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <kgross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Good afternoon,

Attached is the revised WDP. I've went ahead and noted the changes/updates to the WDP on the following pages:

- 20 – Unit IDs BOILER-1, DYE1, and DYE2 added
- 23 – Unit ID PRO-V1LINE added back
- 24 – Unit ID TMPBOIL removed
- 26 – "** See Periodic Monitoring Summary" added to Monitoring And Testing Requirements for Unit ID 01MELT Index No. R7410-1
- 29 – Textual Description and Reporting Requirements updated for Unit ID 07ASST Index No. 60Kb-07ASST
- 40-42 – Applicable Requirements Summary rows added for BOILER-1
- 44-45 – Applicable Requirements Summary rows added for DYE1 and DYE2
- 57-58 – Applicable Requirements Summary row added back for PRO-V1LINE
- 59 – Applicable Requirements Summary rows removed for TMPBOIL
- 64-74 – Periodic Monitoring – please review all periodic monitoring
- 78-79 – Added Permit Shield rows for GRP-FAB, PRO-V1LINE, PRO-V2LINE, and PRO-V3LINE
- 86-87 – Added NSR Authorization References rows for BOILER-1, DYE1, DYE2, PRO-V1LINE, PRO-V2LINE, and PRO-V3LINE. Removed TMPBOIL row.

If you approve of the WDP, please send an OP-CRO1 through STEERS using the time period of 02/20/2026 to when you submit the form. Please note that this form must be submitted through STEERS by the RO, James Beilstein, or the DAR, Kevin Ward.

Would you be able to review the WDP and have the OP-CRO1 sent to me through STEERS by **Friday, 05/01/2026**?

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Tuesday, April 7, 2026 1:28 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <kgross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: Re: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Savannah,

Please see below in blue the requested information.

Let me know if you need anything else.

Best regards,

Jacquelyn Desloges
Regional Environmental Leader - Insulation
Pronouns: She, Her, Hers (What's this?)

Owens Corning

M: 1.972.268.5903
jacquelyn.desloges@owenscorning.com

OWENS CORNING
2790 Columbus Road
Granville, Ohio | 43023 | United States
www.owenscorning.com



Explore our Sustainability Story

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Tuesday, April 7, 2026 11:23 AM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <kgross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Jacquelyn,

No worries, thank you for the document! I have one last question – in the Periodic Monitoring Text for 01MELT for NOx: could you please add the units that the emission rate from the stack test will be expressed in? This will provide clarity to differentiate from the lb/ton emission rate mentioned later in the text:

"Measure and record the daily glass pull rate (tons of glass pulled). Once a month, the daily glass pull rate will be used in conjunction with the average NOx emission rate (lb/ton) [list the units of this emission rate, e.g. lb/hr, etc.] from the most recent stack test to calculate the monthly 01MELT NOx emissions. This value will be used to calculate the average NOx emission rate expressed in lbs NOx per ton of glass pulled. This average value will be compared to the 01MELT NOx emission limit of 3.1 lb/ton glass pulled. If the average value is above the 01MELT limit, this will be considered and reported as a deviation. Records shall be kept of the stack test results."

It would be amazing if you could send me the units of the emission rate by **COB today, 4/7/26**, but no later than COB Friday, 4/10/26. Thank you!!

Sincerely,

Savannah G. Quiros

(she/they/them)

Permit Reviewer

TCEQ – APD – OP Section (Title V)

(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Wednesday, March 25, 2026 2:30 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <kgross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: Re: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Savannah,

My apologies on not responding the first time.

Please find attached the document you requested.

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7410-3
Pollutant: CO	Main Standard: § 117.410(c)(1)
Monitoring Information	
Indicator: CO Concentration	
Minimum Frequency: Quarterly	
Averaging Period: N/A	
Deviation Limit: CO emissions must not exceed 400 ppmv at 3.0% O2, dry basis.	
Periodic Monitoring Text: Measure and record the carbon monoxide concentration using a portable analyzer. The portable analyzer shall be operated in accordance with the Environmental Protection Agency's, Office of Air Quality Planning & Standards, Emission Measurement Center Conditional Test Method Determination of Oxygen, Carbon Monoxide, and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure) [CTM-034] (September 8, 1999). Any monitoring data above the maximum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: BOILER-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7410-3
Pollutant: NOx	Main Standard: § 117.410(a)(1)(C)
Monitoring Information	
Indicator: NOx Concentration	
Minimum Frequency: Quarterly	
Averaging Period: N/A	
Deviation Limit: NOx emissions must not exceed 30 ppmv at 3.0% O2, dry basis.	
Periodic Monitoring Text: Measure and record the nitrogen oxide concentration in the exhaust stream using a portable analyzer to monitor nitrogen oxide. The portable analyzer shall be operated in accordance with the Environmental Protection Agency's, Office of Air Quality Planning & Standards, Emission Measurement Center Conditional Test Method Determination of Oxygen, Carbon Monoxide, and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure) [CTM-034] (September 8, 1999). NOx emissions shall be corrected/calculated in units of the underlying applicable emission limitation (ppmv @ 3% O2, dry basis). Any monitoring data above the maximum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 01MELT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7410-1
Pollutant: CO	Main Standard: § 117.410(c)(1)
Monitoring Information	
Indicator: ~~Monthly~~ Fuel Usage	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: CO emissions must not exceed 400 ppmv at 3.0% O2, dry basis.	
Periodic Monitoring Text: Measure and record monthly fuel consumption (~~M~~CF). Once a month, CO emissions shall be corrected/calculated in units of ppmv at 3% O2 (using a calculated exhaust flow rate) based on the monthly fuel usage and most recent CO emission factor ~~of 3.742 lb CO/MMCF natural gas~~ from stack testing. If the calculation results in a value greater than the regulatory limit, a deviation will have occurred and will be reported.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: 01MELT	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 117, Subchapter B	SOP Index No.: R7410-1
Pollutant: NOx	Main Standard: § 117.410(a)(10)(D)
Monitoring Information	
Indicator: ~~Monthly~~ Fuel Usage	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: Maximum NOx Emission Rate = 3.1 lb/ton ~~product~~ glass pulled	
Periodic Monitoring Text: Measure and record the daily ~~production~~ glass pull rate (tons of glass pulled). Once a month, the daily glass pull rate will be used in conjunction with the average NOx emission rate from the most recent stack testing to calculate the monthly 01MELT NOx emissions. This value will be used to calculate the average NOx emission rate expressed in lbs NOx per ton of glass pulled. This average value will be compared to the 01MELT NOx emission limit of 3.1 lb/ton glass pulled. If the average value is above the 01MELT limit, this will be considered and reported as a deviation. ~~Once a month, the daily production rates and the March 2007 testing data emission factor of 0.97 lb NOx/ton of product pulled will be used to calculate the average hourly NOx emissions. The calculated average hourly NOx emission rate will be compared with the hourly NOx permit limit. If the average hourly emissions are above the hourly permit limit, this will be considered and reported as a deviation.~~	

Best regards,

Jacquelyn Desloges
Regional Environmental Leader - Insulation
Pronouns: She, Her, Hers (What's this?)

Owens Corning

M: 1.972.268.5903
jacquelyn.desloges@owenscorning.com

OWENS CORNING
2790 Columbus Road
Granville, Ohio | 43023 | United States
www.owenscorning.com



Explore our Sustainability Story

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Tuesday, March 24, 2026 1:56 PM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <kgross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Jacquelyn,

Just wanted to check in on being resent the revised periodic monitoring text attachment for NOx for 01MELT. Thank you!

Sincerely,

Savannah G. Quiros

(she/they/them)

Permit Reviewer

TCEQ – APD – OP Section (Title V)

(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Savannah Quiros
Sent: Thursday, March 19, 2026 12:49 PM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Jacquelyn,

I think I am also missing the revised periodic monitoring text in the attachment mentioned for NOx for 01MELT. Could you please resend that attachment?

Thank you!

Sincerely,

Savannah G. Quiros

(she/they/them)

Permit Reviewer

TCEQ – APD – OP Section (Title V)

(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Tuesday, February 24, 2026 12:44 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Subject: Re: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Savannah,

My apologies. Please find attached the document referenced in the response.

I look forward to our discussion.

Best regards,

Jacquelyn Desloges
Regional Environmental Leader - Insulation

V-1 Melter (01MELT) CO Emissions

Emission Factor = 3.742 lb CO/MMCf **Regulatory Limit = 400 ppmv @ 3% O_2 dry basis**

Permit Periodic Monitoring Requirement	***Measure and record the natural gas usage for the 01MELT furnace. CO emissions shall be corrected/calculated in units of ppmv at 3% O_2 (using a calculated exhaust flow rate) based on the monthly natural gas usage and CO emission factor of 3.742 lb CO/MMcf natural gas, The calculated value will be compared with the regulatory limit of 400 ppmv at 3% O_2. If the calculations result in a value greater than the regulatory limit, a deviation will have occurred and will be reported.***
Ignition Information	*Complete each tab in the workbook. The tabs are for the calculations. The appropriate cells in this sheet will be automatically updated to prove compliance with the applicable requirement.* *'- Oxygen flow: use column "B" from the Ignition records* *- Gas Flow: use column "C" from the Ignition records* *- t_stamp (time stamp): Use column "S" from the Ignition Records* *Ignition Records can be found at* ***P:\Environmental\Air\Recordkeeping Requirements\Ignition Records***

Calculated ppmv CO at 3% O_2	78.44	73.66	72.11	70.33	72.18	72.15	72.11	72.16	72.12	72.23	54.65	72.23

If the values above are highlighted red, then a deviation has occurred (i.e. value greater than 400 ppmv @ 3% O2 dry basis)

Month - Year		Jan-2025	Feb-2025	Mar-2025	Apr-2025	May-2025	Jun-2025	Jul-2025	Aug-2024	Sep-2024	Oct-2024	Nov-2025	Dec-2025
Furnace Gas Usage	**mcf**	11,903	10,454	11,513	11,194	11,406	11,590	11,535	10,986	11,080	10,856	11,133	11,315
Furnace O_2 Usage	**mcf**	25,179	22,012	24,203	23,485	23,980	24,365	24,249	23,096	23,293	22,825	22,825	23,789
Furnace Exhaust gas volume	**mcf**	37,082	32,466	35,717	34,679	35,386	35,954	35,784	34,081	34,373	33,682	33,958	35,103
Dry Exhaust gas volume	**mcf**	13,276	11,558	12,690	12,292	12,574	12,775	12,714	12,110	12,213	11,969	11,692	12,474
Wet exhaust moles	**moles**	95,819	83,891	92,291	89,610	91,436	92,906	92,466	88,065	88,819	87,033	87,748	90,705
Dry exhaust moles	**moles**	34,305	29,866	32,791	31,762	32,490	33,011	32,853	31,292	31,558	30,928	30,212	32,233
Exhaust gas O_2 volume	**moles**	3,548	2,854	3,041	2,837	3,017	3,064	3,047	2,905	2,927	2,875	1,445	2,996
CO Mass emission	**lbs.**	44.541	39.118	43.083	41.887	42.681	43.368	43.164	41.109	41.462	40.625	41.660	42.339
CO	**lb mole**	1.5901	1.3966	1.5381	1.4954	1.5238	1.5483	1.5410	1.4676	1.4802	1.4503	1.4873	1.5115
CO wet	**ppmv wet**	16.6	16.6	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.9	16.7
CO dry	**ppmv dry**	46.4	46.8	46.9	47.1	46.9	46.9	46.9	46.9	46.9	46.9	49.2	46.9
O_2 wet	**% wet**	3.703	3.402	3.295	3.166	3.300	3.298	3.295	3.298	3.296	3.303	1.646	3.303
O_2 dry	**% dry**	10.343	9.555	9.274	8.933	9.287	9.281	9.274	9.283	9.276	9.295	4.782	9.295
CO wet concentration @ 3% O_2	**ppmv**	17.27	17.03	16.94	16.84	16.95	16.95	16.94	16.95	16.94	16.95	15.76	16.95
CO dry concentration @ 3% O_2	**ppmv**	78.44	73.66	72.11	70.33	72.18	72.15	72.11	72.16	72.12	72.23	54.65	72.23

V-1 Melter (01MELT) CO Emissions

Data Entry Instructions

The daily O_2 and natural gas usage values are entered into this workbook to calculate the monthly totals. This is accomplished by following the instructions below.

1. O_2 and Natural Gas usage values are obtained in the following file, created daily:
   "T1xxxxxx.xls" - Note: If there is no "T1" file, use "ME" file.
   The "xxxxxx" represents the date of the file. For Example, T1102617, is the file from October 26, 2017.
2. The individual daily files are located in the following directory:
   \\waxshared\shared\HMI Reports\SAVEDATA
3. Column "C", with the heading "01F01" is the O_2 usage flow rate.
4. Column "D", with the heading "01F05" is the natural gas usage flow rate.
5. In the "T1xxxxxx.xls" file, click the "C" header to highlight the entire column, then copy the entire column. In this workbook, click on the corresponding day and paste the data. Repeat this process for the Column "D" natural gas usage data.
6. Once the data is entered, it will automatically calculate the total for the month and update the values on this tab.

2017:
The plant transitioned information from I-POP, IP21 to a more user friendly interface, Ignition. All information for Natural Gas and O2 Usage is now received from there.
Columns S (t_stamp), B (OxygenFlow), and C (GasFlow)

Calculation Methodology

A determination was reached to to calculate the exhaust gas flow rate, instead of measuring it. The calculation that must be performed to determine the actual ppmv of CO in the furnace exhaust relies on knowing the following values:

1. Natural gas and oxygen consumption, which are values that the plant measures, as in 9.698 million cubic feet natural gas and 20.249 million cubic feet oxygen, for the month of September, 2011.

2. The volume of exhaust gas that was emitted by the furnace during the time period that the natural gas and oxygen consumption was measured. Assuming that the negligible amount of air that infiltrates into the furnace can be ignored, this volume is equal to the volume of natural gas plus the volume of oxygen that was used over the same time period. The actual amount of exhaust gas volume for this example is then equal to $(9698 + 20249)ft^3 = 29947 \times 10^3\ ft^3$ exhaust gas (wet). The permit condition doesn't include the notation that the CO concentration has to be on a dry basis where the water in the exhaust gas is omitted from the calculation, but the underlying citation in 30 TAC 117 does state that a dry basis has to be used. For a dry basis the exhaust gas volume is then composed of CO_2 and excess O_2 and this is mathematically equal to the amount of natural gas that is used multiplied by one plus the excess O_2 factor which in this example is (2.0879560- 2.0) 0.087956. The amount of dry exhaust gas volume for the example is then equal to $(1.0 + 0.087956)ft^3$ dry exhaust gas/ft^3 x ($9.698 \times 10^6\ ft^3$ natural gas) = $10.551 \times 10^6\ ft^3$ exhaust gas (dry). For our calculation purposes it is best to convert these volumes to moles and this is permissible because in gas concentration calculations moles are proportional to volumes. The wet and dry exhaust gas moles for the example calculation, based on the fact that a mole of an ideal gas at STP occupies a volume of 387 cubic feet, are then equal to; $29.947 \times 10^6\ ft^3$ wet exhaust gas ÷ 387 ft^3/mole = $7.738 \times 10^4\ ft^3$ wet exhaust moles and 10.551×10^6 ÷ 387 ft^3/mole = $2.7264 \times 10^4\ ft^3$ dry exhaust moles.

3. Oxygen content of the exhaust gas which is the value C_m in the paraphrased *Wikipedia* equation shown below. If we do not measure this then it has to be calculated and in order to do this we need to know the amount of excess oxygen that the furnace used over the same time period that the natural gas consumption was measured. From #2 above this is numerically equal to 0.087956 multiplied by the natural gas usage so for the example case, and converting to moles, the amount of oxygen in the exhaust gasses is equal to (0.087956)(($9.698 \times 10^6\ ft^3$ natural gas)÷387 ft^3/mole = 2.204×10^3 exhaust O_2 moles.

V-1 Melter (01MELT) CO Emissions

4. The mass emission rate of CO which in our permit is a calculated value based on a given emission factor multiplied by the natural gas usage and in your example the CO emissions for the month of September, 2011 was/is 9.698 x 10^6 ft^3 gas x 3.742 lbs CO/10^6 ft^3 gas = 36.290 lbs CO. This has to be converted to moles and used in the calculation that determines the ppmv concentration and this is mathematically allowable because volume concentrations are equal to molar concentration. For our September, 2011 example, the CO moles are; 36.290 lbs CO ÷ 28.0104 lbs CO/lb mole CO = 1.2956 lb moles CO.

For the September, 2011 example the exhaust gas O_2 level and CO level on a wet and dry basis are then equal to;
CO wet = 1.2956 moles ÷ 7.7382 x 10^4 ft^3 wet exhaust moles = 0.0000167 = 16.7 ppmv wet
CO dry = 1.2956 moles ÷ 2.7264 x 10^4 ft^3 dry exhaust moles = 0.0000475 = 47.5 ppmv dry
O_2 wet = 2.204 x 10^3 exhaust O_2 moles ÷ 7.7382 x 10^4 ft^3 wet exhaust moles = 0.02848 = 2.848 % wet
O_2 dry = 2.204 x 10^3 exhaust O_2 moles ÷ 2.7264 x 10^4 ft^3 dry exhaust moles = 0.08085 = 8.085 % dry

The calculated CO concentrations, converted to 3% O_2 per the equation below, are then equal to

CO wet converted to 3% O2 = 16.6 ppmv x [(20.9 – 3.0)/(20.9 – 2.848)] = 16.56 ppmv
CO dry converted to 3% O2 = 47.5 ppmv x [(20.9 – 3.0)/(20.9 – 8.085)] = 66.27 ppmv

Paraphrasing from a Wikipedia entry, the equation shown below can be used to correct a measured pollutant concentration in an emitted gas (containing a measured O_2 content) to an equivalent pollutant concentration in an emitted gas containing a specified reference amount of O_2: which in the case in question is 3%.

$$C_r = C_m \cdot \frac{(20.9 - r)}{(20.9 - m)}$$

where:

C_r = corrected concentration in a dry gas having a specified reference volume % O_2 = r

C_m = measured concentration in a dry gas having a measured volume % O_2 = m

Thus, a measured NOx concentration of 45 ppmv (dry basis) in a gas having 5 volume % O_2 is
45 × (20.9 - 3) ÷ (20.9 - 5) = 50.7 ppmv (dry basis) of NOx when corrected to a gas having a specified reference O_2 content of 3 volume %.

Pronouns: She, Her, Hers (What's this?)

Owens Corning

M: 1.972.268.5903
jacquelyn.desloges@owenscorning.com

OWENS CORNING
2790 Columbus Road
Granville, Ohio | 43023 | United States
www.owenscorning.com



Explore our Sustainability Story

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Tuesday, February 24, 2026 1:27 PM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Jacquelyn,

Thank you for the updates! The mentioned attachment was not attached to the email. Could you please resend '2025_01MELT CO Emission Calculations.pdf'?

As for meeting, I'll give you some good times/dates after I talk with my technical specialist and confirm her availability.

Sincerely,

Savannah G. Quiros

(she/they/them)

Permit Reviewer

TCEQ – APD – OP Section (Title V)

(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Friday, February 20, 2026 2:19 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: Re: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Savannah,

Thank you for the additional time to respond. Please see below in blue text Owens Corning's responses to the requested information / clarifications.

Just to let you know, Chiajo Teneng is no longer at the Waxahachie Plant. The new Environmental Lead is Oyeteju Oyewo, which I have cc'd on this email.

I would like to have a call with you to review the V2 and V3 Furnace 117 applicability. Could you please provide a couple of times / dates you would be available in the next week or two (2). I believe 30 minutes will be enough time to meet.

Please let us know if you have any questions regarding the response and I look forward to speaking with you.

Best regards,

Jacquelyn Desloges
Regional Environmental Leader - Insulation
Pronouns: She, Her, Hers (What's this?)

Owens Corning

M: 1.972.268.5903
jacquelyn.desloges@owenscorning.com

OWENS CORNING
2790 Columbus Road
Granville, Ohio | 43023 | United States
www.owenscorning.com



Explore our Sustainability Story

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Tuesday, February 17, 2026 10:05 AM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Kate Gross <KGross@trinityconsultants.com>
Cc: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka

<Aabhash.Khadka@trinityconsultants.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Jacquelyn,

No worries, I will anticipate Owens Corning's response on February 20, 2026.

Sincerely,

Savannah G. Quiros

(she/they/them)

Permit Reviewer

TCEQ – APD – OP Section (Title V)

(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Tuesday, February 17, 2026 7:46 AM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Kate Gross <KGross@trinityconsultants.com>
Cc: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>
Subject: Re: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi Savannah,

My apologies on the delayed response. Owens Corning is requesting until the end of this week to provide the comments to the questions you have.

Please let me know if February 20, 2026 is acceptable to receive our comments.

Best regards,

Jacquelyn Desloges

Regional Environmental Leader - Insulation

Pronouns: She, Her, Hers (What's this?)

Owens Corning

M: 1.972.268.5903

jacquelyn.desloges@owenscorning.com

OWENS CORNING

2790 Columbus Road
Granville, Ohio | 43023 | United States

www.owenscorning.com

Explore our Sustainability Story

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, February 4, 2026 3:15 PM
To: Kate Gross <KGross@trinityconsultants.com>
Cc: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Darst, Christy <Christy.Darst@owenscorning.com>; Aabhash

From:	Savannah Quiros
Sent:	Wednesday, February 4, 2026 2:15 PM
To:	Kate Gross
Cc:	Teneng(Fuoching), Chiajo; Desloges, Jacquelyn; Darst, Christy; Aabhash Khadka
Subject:	RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476
Attachments:	Chap 117 Revised PM - Proj 35467.docx

Kate,

Attached are the proposals for Unit ID 01MELT (NOx and CO limits in Chapter 117) and Unit ID BOILER 1 (NOx and CO limits in Chapter 117) with some adjustments. Additions are in red and deletions are in strike-through/yellow highlight. Please approve the adjusted language in the proposals by 02/16/2026. If there are any questions or additional changes, please provide those as well on the same due date.

There are also a few points that need clarification:

1. For the proposal for 01MELT for CO:
    a. Please provide a sample calculation to show how the CO emissions will be calculated in ppmv from the monthly fuel usage and CO emission factor.
    b. In the first sentence of the PM text, was MMCF meant to be written instead of MCF?
    c. For the emission factor of 3.742 lb CO/MMCF natural gas, where does that emission factor come from? For example, is that from a reference manual, the fuel supplier, related to testing or operating data, etc.?
2. For the proposal for 01MELT for NOx:
    a. Please clarify/revise the PM text. This periodic monitoring is for compliance with the emission limit from Chapter 117, which has been used for the deviation limit as well (that is acceptable). So, much of the proposed PM text about comparing to an hourly permit limit doesn't make sense. Was this copied from language about compliance with the NSR permit accidentally? Please clarify this periodic monitoring text.
    b. Could you provide an excerpt from the 2007 test data showing the emission factor? Or, if that was already provided in an NSR application, please let me know.

About the monitoring requirements for 02MELT and 03MELT: our monitoring specialist confirmed that we do not need to add monitoring for CO emissions for these units. For NOx, we understand that since there is no fuel combustion, there are no NOx emissions from 02MELT or 03MELT from that source. Please confirm that there is also no possibility of NOx emissions from 02MELT or 03MELT resulting from the breakdown of raw materials/binders.

Please provide everything listed/asked above by **02/16/2026**. Thank you!

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Thursday, August 14, 2025 3:57 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Teneng(Fuoching), Chiajo <chiajo.teneng@owenscorning.com>; Desloges, Jacquelyn <jacquelyn.desloges@owenscorning.com>; Darst, Christy <christy.darst@owenscorning.com>; Aabhash Khadka <Aabhash.Khadka@trinityconsultants.com>
Subject: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Savannah,

Thank you for your review. Please find attached a copy of the WDP with comments as well as forms completed for other changes to the Title V renewal application.

- TMPBLR – Since the submittal of the minor revision application for the temporary boiler, OCIS has replaced this temporary boiler with a permanent unit (Title V Unit ID BOILER 1). Please see the OP-NOTIFY submitted on 8/4/2025. As part of this response, the Forms OP-2 Table 2, OP-SUMR, OP-UA6, OP-MON, OP-REQ3, and OP-PBRSUP are being submitted to remove the temporary boiler and add BOILER 1. In addition, OCIS is requesting the removal of the North and South Boilers (Title V Unit ID 13NBOIL and 13SBOIL) and their associated group.
- 09DYE – OCIS is requesting that this Title V ID be split into 2 since there are two small dye tanks (Title V Unit IDs DYE1 and DYE2). The forms included Forms OP-2 Table 2, OP-SUMR, OP-UA15, OP-REQ3, and OP-PBRSUP).
  Melting Furnaces – Please find included case-by-case monitoring proposals for 01MELT. OCIS is continuing to evaluate the monitoring requirements for 02MELT and 03MELT and plans to coordinate discussions with the TCEQ regarding the proposed monitoring in the near future.

Texas Commission on Environmental Quality

Title V Existing

1094

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	WAXAHACHIE PLANT
Does the site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.439166
Longitude (W) (-###.######)	96.85
Primary SIC Code	3296
Secondary SIC Code	
Primary NAICS Code	327993
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100223585
What is the name of the Regulated Entity (RE)?	OWENS CORNING INSULATING SYSTEMS WAXAHACHIE PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.44148
Longitude (W) (-###.######)	-96.848
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603159088

Type of Customer	Other
Full legal name of the applicant:	
Legal Name	Owens Corning Insulating Systems, LLC
Texas SOS Filing Number	800719027
Federal Tax ID	371525228
State Franchise Tax ID	32020858554
State Sales Tax ID	
Local Tax ID	
DUNS Number	7332570
Number of Employees	251-500
Independently Owned and Operated?	No

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MR
First	JAMES
Middle	
Last	BEILSTEIN
Suffix	
Credentials	
Title	VICE PRESIDENT - GLOBAL OPERATIONS & SUPPLY CHAIN
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	2790 COLUMBUS RD
Routing (such as Mail Code, Dept., or Attn:)	
City	GRANVILLE
State	OH
ZIP	43023
Phone (###-###-####)	7403215714
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Jim.Beilstein@owenscorning.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	KEVIN WARD(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MR
First	KEVIN
Middle	

Last	WARD
Suffix	
Credentials	
Title	WAXAHACHIE PLANT LEADER
Enter new address or copy one from list	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
Zip	75165
Phone (###-###-####)	4794304006
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	kevin.ward@owenscoming.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	CHIAJO TENENG(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MS
First	CHIAJO
Middle	
Last	TENENG
Suffix	
Credentials	
Title	ENVIRONMENTAL LEAD
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
ZIP	75165
Phone (###-###-####)	9729234396
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	chiajo.teneng@owenscorning.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	32 Deg 26 Min 21 Sec
3) Permit Longitude Coordinate:	96 Deg 51 Min 0 Sec
4) Is this submittal a new application or an update to an existing application?	New Application
4.1. What type of permitting action are you applying for?	Streamlined Revision
4.1.1. Are there any permits that should be voided upon issuance of this permit application through permit conversion?	No
4.1.2. Are there any permits that should be voided upon issuance of this permit application through permit consolidation?	No
5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	N/A

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

Attach OP-2 (Application for Permit Revision/Renewal)

[File Properties]

File Name	OP_2_OCIS TV Revision (2025-0905).pdf
Hash	2FC37B79AFA9D52CB1D802FE00900267D48CFEA288EC58D0764D7066E838B0D6
MIME-Type	application/pdf

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

[File Properties]

File Name	OP-UA2.xlsx
Hash	528CDA4B06AD7DED15B44239AABB5673DBAB4E3D6BBAE64916B3C223BE101731
MIME-Type	application/vnd.openxmlformats-officedocument.spreadsheetml.sheet

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach any other necessary information needed to complete the permit.

An additional space to attach any other necessary information needed to complete the permit.

Expedite Title V

1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	No

Certification

I certify that I am the Duly Authorized Representative for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am Kevin R Ward, the owner of the STEERS account ER110293.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1094.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Kevin R Ward OWNER OPERATOR

Account Number:	ER110293
Signature IP Address:	205.204.5.17
Signature Date:	2025-09-05
Signature Hash:	7C843597CC7D9582EF2D112F960EAF8A216BAAEDEDA78A4E281A5AD2237A7202
Form Hash Code at time of Signature:	A158EBED4DD507B4DF6344677F20CC7D9FF7E316966CC68138CA4C9A920776FF

Submission

Reference Number:	The application reference number is 815568
Submitted by:	The application was submitted by ER110293/Kevin R Ward
Submitted Timestamp:	The application was submitted on 2025-09-06 at 07:22:01 CDT
Submitted From:	The application was submitted from IP address 205.204.5.3
Confirmation Number:	The confirmation number is 676545
Steers Version:	The STEERS version is 6.92

Permit Number:	The permit number is 1094

Additional Information

Application Creator: This account was created by Kathleen H Gross

Trinity Consultants
12700 Park Central Dr, Ste 600, Dallas, TX 75251 / P 800.229.6655 / P 972.661.8100 / F 972.385.9203 / **trinityconsultants.com**

September 5, 2025

Texas Commission on Environmental Quality (TCEQ)
Air Permits Initial Review Team (APIRT)
12100 Park 35 Circle
Building C, Third Floor, MC 161
Austin, TX 78753

RE: Site Operating Permit No. O-1094 Minor Revision Application
Owens Corning Insulating Systems, LLC – Waxahachie Plant
TCEQ Customer Reference Number (CN) 603159088
TCEQ Regulated Entity Reference Number (RN) 100223585

Dear APIRT:

Due to changes at the Owens Corning Insulating Systems, LLC (OCIS) Waxahachie Plant (Waxahachie Plant), Site Operating Permit (SOP) Number (No.) O-1094 must be revised per Title 30 of the Texas Administrative Code (30 TAC) §122.210. On behalf of OCIS, Trinity Consultants (Trinity) is submitting the enclosed Title V minor revision application for the Waxahachie Plant.

OCIS claimed Permit by Rule (PBR) §106.183 to install a rental 14.6 million British thermal units per hour [MMBtu/hr] boiler to replace the existing North or South boilers (Facility Identification Numbers 13NBOIL and 13SBOIL; Emission Point Numbers [EPNs] 4 and 5). In July, this 14.6 MMBtu/hr unit was replaced with a 6.7 MMBtu/hr unit. It was determined that this replacement boiler was insufficient for OCIS's needs and has obtained a different replacement unit with a rating of 6.9 MMBtu/hr boiler (Title V Unit ID BOILER 1). Similar to the other units, OCIS claims PBR §106.183. The replacement boiler has a lower maximum heat input rating (6.9 MMBtu/hr) compared to the existing units (20 MMBtu/hr each). This unit will employ a low NO_X burner (0.036 lb/MMBtu) similar to the existing boilers. OCIS will comply with the applicable requirements of the following regulations:

- 30 TAC Chapter 117, Subchapter B
- 40 CFR Part 63, Subpart DDDDD

With this SOP minor revision application, OCIS will incorporate changes associated with the PBR authorization into SOP No. O-1094. This SOP minor revision application submittal contains the following required forms according to TCEQ guidance for SOP minor revision applications:

- Attachment 1: Form OP-CRO1
- Attachment 2: Form OP-2
- Attachment 3: Form OP-SUM Table 1 / Form OP-UA6 (electronic)
- Attachment 4: Form OP-REQ3
- Attachment 5: Form OP-PBRSUP

If you have any questions regarding this submittal, please feel free to contact me at (214) 405-1598, or Ms. CJ Teneng, OCIS, at (972) 923-4893.

Sincerely,

TRINITY CONSULTANTS

Kate Gross

Kate Gross
Principal Consultant

Attachments

cc: Air Section Manager, TCEQ Regional Office 4
EPA Region 6 (electronically)
Ms. Jacquelyn Desloges, OCIS

ATTACHMENT 1

Certification by Responsible Official (OP-CRO1)

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, renewal, and reopening permit application submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information	
RN: **RN100223585**	
CN: **CN603159088**	
Account No.: **ED-0051-O**	
Permit No.: **O-1094**	
Project No.: **TBA**	
Area Name: **Waxahachie Plant**	
Company Name: **Owens Corning Insulating Systems, LLC**	
II. Certification Type *(Please mark appropriate box)*	
☐ Responsible Official Representative	☒ Duly Authorized Representative
III. Submittal Type *(Please mark appropriate box) (Only one response can be accepted per form)*	
☐ SOP/TOP Initial Permit Application	☒ Permit Revision, Renewal, or Reopening
☐ GOP Initial Permit Application	☐ Update to Permit Application
☐ Other: _____	

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, and renewal permit application submittals requiring certification must be accompanied by this form. Updates to acid rain or CSAPR (other than public notice verification materials) must be certified prior to authorization of public notice for the draft permit.

IV. Certification of Truth
This certification does not extend to information which is designated by TCEQ as information for reference only.
I, **Kevin Ward** certify that I am the **DAR** *(Certifier Name printed or typed)* *(RO or DAR)* and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete: *Note: Enter Either a Time Period or Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).*
Time Period: From_____ to _____ *(Start Date)* *(End Date)*
Specific Dates: **09/05/2025** _____ _____ _____ *(Date 1)* *(Date 2)* *(Date 3)* *(Date 4)*
_____ _____ *(Date 5)* *(Date 6)*
Signature: **Signed via STEERS** Signature Date: _____ Title: **Plant Leader**

ATTACHMENT 2

Application for Permit Revision/Renewal (OP-2)

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1
Texas Commission on Environmental Quality

Date: 09/05/2025	
Permit No.: O-1094	
Regulated Entity No.: RN100223585	
Company Name: Owens Corning Insulating Systems, LLC	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA?	☒ YES ☐ NO
I. Application Type	
Indicate the type of application:	
☐ Renewal	
☒ Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)	
☐ Significant Revision	
☐ Revision Requesting Prior Approval	
☐ Administrative Revision	
☐ Response to Reopening	
II. Qualification Statement	
For SOP Revisions Only	☒ YES ☐ NO
For GOP Revisions Only	☐ YES ☐ NO

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1 *(continued)*
Texas Commission on Environmental Quality

III.	**Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.)**					
Indicate all pollutants for which the site is a major source based on the site's potential to emit: *(Check the appropriate box[es].)*						
☒ VOC	☒ NO_X	☐ SO_2	☒ PM_{10}	☒ CO	☐ Pb	☒ HAP
Other:						
IV.	**Reference Only Requirements** *(For reference only)*					
Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?					☒ YES ☐ NO ☐ N/A	
V.	**Delinquent Fees and Penalties**					
Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.						

Texas Commission on Environmental Quality
Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2 (Page 2)
Table 2

Date:	**09/05/2025**
Permit No.:	**O-1094**
Regulated Entity No.:	**RN100223585**
Company Name:	**Owens Corning Insulating Systems, LLC**

I. Description of Revision

Revision No.	Revision Code	Unit/Group Process			NSR Authorization	Description of Changes and Provisional Terms and Conditions
		New Unit	ID No.	Applicable Form		
1	MS-A	Yes	BOILER 1	OP-UA6	PBR 106.183	Add applicable requirements (30 TAC Chapter 117 and MACT DDDDD) for boiler

ATTACHMENT 3

Individual Unit Summary (OP-SUM Table 1)
Boiler/Steam Generator/Steam Generating Unit Attributes (OP-UA6)

Boiler/Steam Generator/Steam Generating Unit Attributes
Federal Operating Permit Program
Texas Commission on Environmental Quality

Form OP-SUM - Individual Unit Summary
Table 1

Unit AI	Revision No.	Unit ID No.	Group ID No.	Unit Name/Description	CAM	PCA AI	Preconstruction Authorization (PCA) Category	Authorization/ Registration Number	Permit By Rule (PBR) Number	PBR Effective Date
A	1	BOILER 1		Boiler - 6.9 MMBtu/hr		A	PBR		106.183	09/04/2000

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6
Federal Operating Permit Program
Texas Commission on Environmental Quality

Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Dc: Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

Unit ID No.	SOP Index No.	Construction/ Modification Date	Maximum Design Heat Input Capacity	Applicability	Heat Input Capacity	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type	ACF Option SO2	ACF Option PM	30% Coal Duct Burner
BOILER 1	60Dc-2	05+	10-								

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6
Federal Operating Permit Program
Texas Commission on Environmental Quality

Table 5a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Unit ID No.	SOP Index No.	Unit Type	MRC	RACT Date Placed in Service	Functionally Identical Replacement	Fuel Type	Fuel Type	Fuel Type	Annual Heat Input
BOILER 1	R7410-3	ICIB	2-40			NG			

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6
Federal Operating Permit Program
Texas Commission on Environmental Quality

Table 5b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Unit ID No.	SOP Index No.	NOX Emission Limitation	Opt-In Unit	23C-Option	Title 30 TAC Chapter 116 Permit Limit	EGF System Cap Unit	NOX Emission Limit Average	NOX Reduction	Common Stack Combined
BOILER 1	R7410-3	410A					BLK1-LB	NONE	

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6
Federal Operating Permit Program
Texas Commission on Environmental Quality

Table 5c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas

Unit ID No.	SOP Index No.	Fuel Type Heat Input	NOX Monitoring System	Fuel Flow Monitoring	CO Emission Limitation	CO Monitoring System	NH3 Emission Limitation	NH3 Emission Monitoring
BOILER 1	R7410-3		MERT	X40A	410C	OTHER		

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6
Federal Operating Permit Program
Texas Commission on Environmental Quality

Table 14a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart DDDDD: Industrial, Commercial, and Institutional Boilers

Unit ID No.	SOP/GOP Index No.	Commence	Table Applicability	HCl Emission	HCl-CMS
BOILER 1	63DDDDD-2	NEW	T3.2G1		

ATTACHMENT 4
Applicable Requirements Summary (OP-REQ3)

Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program
Table 1a: Additions

Date:	**09/05/2025**	**Regulated Entity No.:**	**RN100223585**	**Permit No.:**	**O-1094**
Company Name:	**Owens Corning Insulating Systems, LLC**	**Area Name:**	**Waxahachie Plant**		

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Applicable Form			Name	Standard(s)
1	BOILER 1	OP-UA6	R7410-3	NOX	30 TAC Chapter 117, Subchapter B	§117.410(a)(1)(C) [G]§117.403(c) §117.410(a), [G](e)(1), (e)(2) [G]§117.410(e)(3), (e)(4) §117.430(b), (b)(1) §117.440(j) §117.410(b)(2)
1	BOILER 1	OP-UA6	R7410-3	CO	30 TAC Chapter 117, Subchapter B	§117.410(c)(1)|1 §117.440(j) §117.410(c)(1)(B) [G]§117.403(c)
1	BOILER 1	OP-UA6	63DDDDD-2	HAPs	40 CFR Part 63, Subpart DDDDD	§63.7500(a)(1)-Table 3.2|1 §63.7500(a)(1), (a)(3), (e) §63.7505(a) §63.7540(a), [G](a)(10), (a)(11), (a)(13)

Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program
Table 1b: Additions

Date: 09/05/2025	**Regulated Entity No.:** RN100223585	**Permit No.:** O-1094
Company Name: Owens Corning Insulating Systems, LLC	**Area Name:** Waxahachie Plant	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
1	BOILER 1	R7410-3	NOX	§117.435(a)(1), (a)(3), (b) §117.440(k)(1) §117.435(d) §117.435(e), (e)(2) §117.8000(b)-(c), (c)(1), (c)(3) §117.8000(c)(5)-(6), [G](d) §117.440(a) §117.440(k)(2)	§117.445(a), (f), (f)(8) §117.445(f)(1)	§117.435(f) §117.445(b), [G](c) §117.8010, [G](1), (2), (2)(A)-(D) [G]§117.8010(3), (4), [G](5) §117.8010(6), [G](7)
1	BOILER 1	R7410-3	CO	§117.435(a)(1), (a)(3), (b) §117.435(d) §117.8000(b)-(c), (c)(2) §117.8000(c)(3), (c)(5)-(6) [G]§117.8000(d) §117.440(a)	§117.445(a), (f), (f)(8) §117.445(f)(1)	§117.435(f) §117.445(b), [G](c) §117.8010, [G](1), (2), (2)(A)-(B) [G]§117.8010(3), (4), [G](5) §117.8010(6), [G](7)
1	BOILER 1	63DDDDD-2	HAPs	§63.7510(g) §63.7515(d)[G] §63.7521(f)-(g), (h)-(i) §63.7530(g) §63.7540(a), [G](a)(10), [G](c)	§63.7555(a), (a)(1)-(2), (g)-(h) §63.7560(a)-(c)	[G]§63.7521(g) §63.7530(e), (f) §63.7545(a)-(c), [G](e)-(f) §63.7550(a), [G](b)-(c), [G](h)

ATTACHMENT 5

Permit by Rule Supplement Table (OP-PBRSUP)

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 1)

Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number
9/5/2025	O-1094	RN100223585

Unit ID	Registration Number	PBR No.	Registration Date
3	45087	106.262	08/18/2000
30	78155	106.472	03/24/2006
85	84393	106.371	04/10/2008
02FAB	113627	106.262	11/07/2013
11	162524	106.261	09/25/2020
11	162524	106.262	09/25/2020
53	162525	106.418	05/19/2021

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 2)

Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number
9/5/2025	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date
07USST	106.472	09/04/2000
07UPST	106.472	09/04/2000
07REST1	106.472	03/14/1997
07BOST	106.473	03/14/1997
07WOST	106.473	03/14/1997
07ASST	106.472	03/14/1997
72DIE_A	106.472	09/04/2000
72DIE_B	106.472	09/04/2000
73GAS	106.473	03/14/1997
07FOST	106.472	09/04/2000
07WWST	106.472	09/04/2000
09DYE	106.472	09/04/2000
Small Tanks and Totes	106.472	09/04/2000
09REST3	106.472	09/04/2000
347	106.532	09/04/2000
09ADST1	106.472	03/14/1997
09ADST2	106.472	03/14/1997
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000
76	106.472	09/04/2000
443	106.472	09/04/2000
63	106.371	03/14/1997
64	106.371	03/14/1997
65	106.371	03/14/1997
66	106.371	03/14/1997
67	106.371	03/14/1997
49	106.183	09/04/2000
13NBOIL	SE 7	11/05/1986
13SBOIL	SE 7	11/05/1986
TMPBOIL	106.183	09/04/2000
HWBUV1	106.511	03/14/1997
FWCBUV1	106.511	03/14/1997
FWCBUV2	106.511	03/14/1997
FWCBUV3	106.511	03/14/1997
CWBU	106.511	09/04/2000
PCWSBU	106.511	03/14/1997
PCWSBU2	106.511	09/04/2000
HWBUV2	106.511	03/14/1997
HWBUV3	106.511	03/14/1997
Sandblasters	106.452	03/14/1997
Welding	106.227	09/04/2000
Water Treatment Chemicals	106.371	09/04/2000
Safety Kleen Stations	106.454	11/01/2001
Chiller Systems	106.373	03/14/1997
Site_MSS	106.263	11/01/2001
BOILER 1	106.183	09/04/2000
Hand held Machines	106.265	09/04/2000

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 3)

Table C: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area

Date	Permit Number	Regulated Entity Number
9/5/2025	O-1094	RN100223585

PBR No.	Version No./Date
106.453	09/04/2000
106.122	03/14/1997
106.102	09/04/2000
106.103	03/14/1997
106.372	03/14/1997
106.266	03/14/1997

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 4)

Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number
9/5/2025	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
3	106.262	08/18/2000	Record annual throughput of sodium sulfate and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
30	106.472	03/24/2006	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
85	106.371	04/10/2008	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
02FAB	106.262	11/07/2013	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.261	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.262	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
53	106.418	05/19/2021	Record annual ink and solvent usage and use underlying emission calculation methods to determine actual emissions
07USST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07UPST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07REST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
07BOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07ASST	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_A	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_B	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
73GAS	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07FOST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WWST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09DYE	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Small Tanks and Totes	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09REST3	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
347	106.532	09/04/2000	Record annual hours of operation.
09ADST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09ADST2	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
76	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
443	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
63	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
64	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
65	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
66	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
67	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
49	106.183	09/04/2000	Record annual fuel usage and use underlying emission factors to calculate emissions and demonstrate compliance with PBR limits
13NBOIL	SE 7	11/05/1986	Record annual fuel usage
13SBOIL	SE 7	11/05/1986	Record annual fuel usage
TMPBOIL	106.183	09/04/2000	Record annual fuel usage
BOILER 1	106.183	9/5/2025	Record annual fuel usage
HWBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV2	106.511	03/14/1997	Record annual hours of operation
FWCBUV3	106.511	03/14/1997	Record annual hours of operation
CWBU	106.511	09/04/2000	Record annual hours of operation
PCWSBU	106.511	03/14/1997	Record annual hours of operation
PCWSBU2	106.511	09/04/2000	Record annual hours of operation
HWBUV2	106.511	03/14/1997	Record annual hours of operation
HWBUV3	106.511	03/14/1997	Record annual hours of operation
Sandblasters	106.452	03/14/1997	Maintain operating hours and abrasive material usage on annual basis
Welding	106.227	09/04/2000	Record annual usage of weld rods and lead content for maintenance activities to ensure 0.6 tpy emission limit for lead is met
Water Treatment Chemicals	106.371	09/04/2000	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
Safety Kleen Stations	106.454	11/01/2001	Record annual usage of solvent
Chiller Systems	106.373	03/14/1997	Maintain documentation of refrigeration chemical
Site_MSS	106.263	11/01/2001	Record details of maintenance activities for baghouse filter repacement, solvent/lubricant usage, vacuum trucks, and boiler maintenance and use the underlying emission calculations to demonstrate compliance with 24-hour emission limits. The details to be recorded include: - Type and reason for the activity - Process and equipment involved - Material usage - Date, time, and duration of the activity - Air contaminants and amounts emitted as a result of the activity

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
Hand held Machines	106.265	09/04/2000	Annual hours of grinding operations

From:	Kate Gross <KGross@trinityconsultants.com>
Sent:	Thursday, August 14, 2025 3:57 PM
To:	Savannah Quiros
Cc:	Teneng(Fuoching), Chiajo; Desloges, Jacquelyn; Darst, Christy; Aabhash Khadka
Subject:	Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476
Attachments:	OCIS OP-MON.pdf; OCIS OP-PBRSUP.pdf; OCIS OP-REQ3.pdf; OCIS OP-SUMR.pdf; OCIS OP-UA6.pdf; OCIS OP-UA15.pdf; WDPv3- O1094 Owens Corning Insulating Systems, LLC (Renewal, 35476)_(Trinity).docx; OCIS OP-2.pdf

Savannah,

Thank you for your review. Please find attached a copy of the WDP with comments as well as forms completed for other changes to the Title V renewal application.

- TMPBLR – Since the submittal of the minor revision application for the temporary boiler, OCIS has replaced this temporary boiler with a permanent unit (Title V Unit ID BOILER 1). Please see the OP-NOTIFY submitted on 8/4/2025. As part of this response, the Forms OP-2 Table 2, OP-SUMR, OP-UA6, OP-MON, OP-REQ3, and OP-PBRSUP are being submitted to remove the temporary boiler and add BOILER 1. In addition, OCIS is requesting the removal of the North and South Boilers (Title V Unit ID 13NBOIL and 13SBOIL) and their associated group.
- 09DYE – OCIS is requesting that this Title V ID be split into 2 since there are two small dye tanks (Title V Unit IDs DYE1 and DYE2). The forms included Forms OP-2 Table 2, OP-SUMR, OP-UA15, OP-REQ3, and OP-PBRSUP).
  Melting Furnaces – Please find included case-by-case monitoring proposals for 01MELT. OCIS is continuing to evaluate the monitoring requirements for 02MELT and 03MELT and plans to coordinate discussions with the TCEQ regarding the proposed monitoring in the near future.
- Comments on WDP –
  - The applicable requirements for PRO-V1LINE 63NNN-1 were removed from the existing permit. **These requirements need to remain in the Title V permit.**
  - Permit shields were removed for the Process lines **– Please add these existing permit shields back into the Title V permit.**

Thank you,
Kate

Kate Gross
Principal Consultant | Manager of Consulting Services – Salt Lake City

P 385.509.4478 M 214.405.1598
Email: kgross@trinityconsultants.com
4525 Wasatch Blvd, Suite 200, Salt Lake City, Utah 84124

Trinity Consultants

Unit Summary

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
01DRY	SURFACE COATING OPERATIONS	N/A	R5421-1	30 TAC Chapter 115, Surface Coating Operations	No changing attributes.
01DRY	SURFACE COATING OPERATIONS	N/A	63JJJJ-1	40 CFR Part 63, Subpart JJJJ	No changing attributes.
01MELT	PROCESS HEATERS/FURNACES	N/A	R7410-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
01MELT	GLASS MANUFACTURING UNITS	N/A	63NNN-1	40 CFR Part 63, Subpart NNN	No changing attributes.
01QHWWBT1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
01QHWWBT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
01QHWWRT1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
01QHWWRT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
02MELT	PROCESS HEATERS/FURNACES	N/A	R7410-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
03MELT	PROCESS HEATERS/FURNACES	N/A	R7410-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
07ASST	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
07ASST	STORAGE TANKS/VESSELS	N/A	60Kb-07ASST	40 CFR Part 60, Subpart Kb	No changing attributes.
07ASSTUL	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of	No changing attributes.

Unit Summary

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
				VOC	
07BOST	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-T	30 TAC Chapter 111, Visible Emissions	No changing attributes.
07BOST	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
07BOSTUL	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
07FOST	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
07REST1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-T	30 TAC Chapter 111, Visible Emissions	No changing attributes.
07REST1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
07REST1UL	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
07UPST	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-T	30 TAC Chapter 111, Visible Emissions	No changing attributes.
07UPST	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
07USST	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-T	30 TAC Chapter 111, Visible Emissions	No changing attributes.
07USST	STORAGE	N/A	R5112	30 TAC Chapter 115,	No changing attributes.

Unit Summary

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	TANKS/VESSELS			Storage of VOCs	
07WOST	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
07WOSTLO	LOADING/UNLOADING OPERATIONS	N/A	R5211-2	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
07WWST	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09ADST1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09ADST2	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09ADSTUL	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
09DYE	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09MDST1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09MDST2	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09MDUL1	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
09MDUL2	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.

Unit Summary

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
09QBCT1	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09QBCT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBCT2	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09QBCT2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBCT3	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09QBCT3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBCT4	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09QBCT4	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBCT5	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09QBCT5	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBMT1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
09QBMT2	EMISSION	N/A	R5127-2	30 TAC Chapter 115, Vent	No changing attributes.

Unit Summary

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	POINTS/STATIONARY VENTS/PROCESS VENTS			Gas Controls	
09REST2	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09REST3	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
10	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
10	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	111-MIX	30 TAC Chapter 111, Visible Emissions	No changing attributes.
10	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
13	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R111-GRPVENT	30 TAC Chapter 111, Visible Emissions	No changing attributes.
13	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
17	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-V	30 TAC Chapter 111, Visible Emissions	No changing attributes.
17	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
23	EMISSION POINTS/STATIONARY	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Unit Summary

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	VENTS/PROCESS VENTS				
41	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
55	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
56	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
72DIEUL	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
CWBU	SRIC ENGINES	N/A	R7403-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
CWBU	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
CWBU	SRIC ENGINES	N/A	63ZZZZ-5	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWCBUV1	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
FWCBUV1	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWCBUV2	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
FWCBUV2	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWCBUV3	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.

Unit Summary

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
FWCBUV3	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-ASPH	SURFACE COATING OPERATIONS	01ASPH	R5421-1	30 TAC Chapter 115, Surface Coating Operations	No changing attributes.
GRP-ASPH	SURFACE COATING OPERATIONS	01ASPH	63JJJJ-1	40 CFR Part 63, Subpart JJJJ	No changing attributes.
GRP-BKUP	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	CWBU, FWCBUV1, HWBUV1, PCWSBU	R111-GRPBKUP	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-BOIL	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	13NBOIL, 13SBOIL	R7410-3	30 TAC Chapter 117, Subchapter B	No changing attributes.
GRP-BOIL	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	13NBOIL, 13SBOIL	63DDDDD-1	40 CFR Part 63, Subpart DDDDD	No changing attributes.
GRP-EFURN	GLASS MANUFACTURING UNITS	02MELT, 03MELT	63NNN-1	40 CFR Part 63, Subpart NNN	No changing attributes.
GRP-FAB	SURFACE COATING OPERATIONS	01FAB, 02FAB, 03FAB	63JJJJ-1	40 CFR Part 63, Subpart JJJJ	No changing attributes.
GRP-MIX	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	22, 40	R1151-2	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
GRP-MIX	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	22, 40	111-MIX	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GRP-MIX	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	22, 40	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
GRP-PRNT	PRINTING UNITS	01FAB, 02FAB,	R5437-1	30 TAC Chapter 115,	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		03FAB		Graphic Arts Processes	
GRP-VENT	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	11, 4, 5	R111-GRPVENT	30 TAC Chapter 111, Visible Emissions	No changing attributes.
HWBUV1	SRIC ENGINES	N/A	63ZZZZ-4	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HWBUV2	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
HWBUV2	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HWBUV3	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
HWBUV3	SRIC ENGINES	N/A	63ZZZZ-3	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
HWWWBSUP	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
HWWWHOLD	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
HWWWSUP	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
LIGSURG	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
MTOILMIX	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Unit Summary

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
PCWSBU	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
PCWSBU	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
PCWSBU2	SRIC ENGINES	N/A	R7403-2	30 TAC Chapter 117, Subchapter B	No changing attributes.
PCWSBU2	SRIC ENGINES	N/A	60IIII-1	40 CFR Part 60, Subpart IIII	No changing attributes.
PCWSBU2	SRIC ENGINES	N/A	63ZZZZ-5	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
PRO-V1LINE	Miscellaneous units	N/A	63NNN-1	40 CFR Part 63, Subpart NNN	No changing attributes
PROPANE1UL	LOADING/UNLOADING OPERATIONS	N/A	R5211-3	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
PROPANE2UL	LOADING/UNLOADING OPERATIONS	N/A	R5211-3	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
SILCIRC	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
SILMIX	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
SILSURG	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
TMPBOIL	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7410-3	30 TAC Chapter 117, Subchapter B	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
TMPBOIL	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc-1	40 CFR Part 60, Subpart Dc	No changing attributes.
TMPBOIL	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD-2	40 CFR Part 63, Subpart DDDDD	No changing attributes.
V1BNDRCIRC	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
V1WWSUPPLY	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
V2BNDRCIRC	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
V2WWSUPPLY	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
V3BNDRCIRC	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
V3WWSUPPLY	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 1039-Appendix I.			
PCWSBU2	EU	60IIII-1	PM (Opacity)	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 1039.105(b)(1) § 1039.105(b)(2) § 1039.105(b)(3) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f)	Emergency stationary CI ICE, that are not fire pump engines, with displacement < 10 lpc and not constant-speed engines, with max engine power < 2237 KW and a 2007 model year and later or max engine power > 2237 KW and a 2011 model year and later, must comply with following opacity emission limits: 20% during acceleration, 15% during lugging, 50% during peaks in either acceleration or lugging modes as stated in §60.4202(a)(1)-(2), (b)(2), and 40 CFR 1039.105(b)(1)-(3).	None	None	[G]§ 60.4214(d)
PCWSBU2	EU	63ZZZZ-5	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(b)(1) § 63.6595(c) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	An affected source which meets either of the criteria in paragraphs §63.6590(b)(1)(i)-(ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).	None	None	§ 63.6645(f)
PROV1LINE	PRO	63NNN-1	112(b) HAPS	40 CFR Part 63, Subpart NNN	§ 63.1382(a)-Table 2.7 § 63.1382(c) § 63.1382(c)(10)	For each rotary spin manufacturing line constructed on or before March 31, 1997,	G]§ 63.1383(a) § 63.1383(g)(1) [G]§ 63.1383(g)(2) § 63.1383(j)	[G]§ 63.1386(d)(1) § 63.1386(d)(2)(ix) § 63.1386(d)(2)(v) § 63.1386(d)(2)(viii)	[G]§ 63.1386(c) § 63.1386(e) § 63.1386(f) § 63.1386(g)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 63.1382(c)(6) [G]§ 63.1382(c)(8) § 63.1382(c)(9) § 63.1389(a) § 63.1389(b)	formaldehyde emissions must be limited to 1.2 lb formaldehyde per ton of glass pulled.	§ 63.1383(k) § 63.1383(l) § 63.1383(m) § 63.1384(a) § 63.1384(a)(1) § 63.1384(a)(12) [G]§ 63.1384(a)(13) § 63.1384(a)(2) § 63.1384(a)(3) § 63.1384(a)(8) § 63.1384(a)(9) § 63.1384(c) § 63.1384(e) [G]§ 63.1385		
PROPANE1 UL	EU	R5211-3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(3) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Liquefied petroleum gas. All loading and unloading of liquefied petroleum gas is exempt from the requirements of this division, except for the specified requirements.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None
PROPANE2 UL	EU	R5211-3	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(3) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Liquefied petroleum gas. All loading and unloading of liquefied petroleum gas is exempt from the requirements of this division, except for the specified requirements.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i)	§ 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B)	None
SILCIRC	EP	R5127-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)	A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
SILMIX	EP	R5127-2	VOC	30 TAC Chapter	§ 115.127(a)(2)(A)	A vent gas stream having a	[G]§ 115.125	§ 115.126	None

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
01CURE	N/A	30 TAC Chapter 117, Subchapter B	Curing ovens used in mineral wool-type fiberglass manufacturing in which nitrogen-containing resins are used.
01DRY	N/A	30 TAC Chapter 117, Subchapter B	Oven with maximum rated capacity less than 5.0 MMBtu/hr.
01FORM	N/A	30 TAC Chapter 117, Subchapter B	Forming oven or forming process used in a mineral wool-type fiberglass manufacturing.
01INCIN	N/A	30 TAC Chapter 117, Subchapter B	Capacity less than 40 MMBtu/hr.
01MELT	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion source not used to control emissions from a non-combustion source subject to the vent gas rule.
01MELT	N/A	40 CFR Part 60, Subpart CC	Construction commenced prior to June 15, 1979.
01MELT	N/A	40 CFR Part 60, Subpart N	Does not use commercial arsenic as a raw material.
02CURE	N/A	30 TAC Chapter 117, Subchapter B	Curing ovens used in mineral wool-type fiberglass manufacturing in which nitrogen-containing resins are used.
02FORM	N/A	30 TAC Chapter 117, Subchapter B	Forming oven or forming process used in a mineral wool-type fiberglass manufacturing.
02INCIN	N/A	30 TAC Chapter 117, Subchapter B	Capacity less than 40 MMBtu/hr.
02MELT	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion source not used to control emissions from a non-combustion source subject to the vent gas rule.
03CURE	N/A	30 TAC Chapter 117, Subchapter B	Curing ovens used in mineral wool-type fiberglass manufacturing in which nitrogen-

Commented [KHG2]: The permit shields for the PRO-V1LINE, PRO-V2LINE, and PRO-V3LINE should be added back into the permit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			containing resins are used.
03FORM	N/A	30 TAC Chapter 117, Subchapter B	Forming oven or forming process used in a mineral wool-type fiberglass manufacturing.
03INCIN	N/A	30 TAC Chapter 117, Subchapter B	Capacity less than 40 MMBtu/hr.
03MELT	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion source not used to control emissions from a non-combustion source subject to the vent gas rule.
07BOST	N/A	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973.
07REST1	N/A	40 CFR Part 60, Subpart K	Does not store petroleum liquids. Construction commenced prior to June 11, 1973.
07WOST	N/A	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973.
09ADST1	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.
09ADST2	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.
09MDST1	N/A	40 CFR Part 60, Subpart Kb	True vapor pressure less than 0.5 psia.
09MDST2	N/A	40 CFR Part 60, Subpart Kb	True vapor pressure less than 0.5 psia.
09QBMT1	N/A	30 TAC Chapter 115, Storage of VOCs	Storage container capacity is less than 1,000 gallons.
09QBMT2	N/A	30 TAC Chapter 115, Storage of VOCs	Storage container capacity is less than 1,000 gallons.
09REST2	N/A	40 CFR Part 60, Subpart Ka	Does not store petroleum liquids.
09REST3	N/A	40 CFR Part 60, Subpart K	Capacity is less than 75m3.
49	N/A	30 TAC Chapter 117, Subchapter B	Process heater with maximum rated capacity

Commented [KHG2]: The permit shields for the PRO-V1LINE, PRO-V2LINE, and PRO-V3LINE should be added back into the permit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			less than 5.0 MMBtu/hr.
73GAS	N/A	30 TAC Chapter 115, Storage of VOCs	Storage container less than 1,000 gallons.
73GAS	N/A	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973.
GRP-BOIL	13NBOIL, 13SBOIL	40 CFR Part 60, Subpart D	Heat input rate is less than 250 MMBtu/hr. Construction commenced prior to December 22, 1976.
GRP-EFURN	02MELT, 03MELT	40 CFR Part 60, Subpart CC	Unit is an electric melter.
GRP-EFURN	02MELT, 03MELT	40 CFR Part 60, Subpart N	Does not use commercial arsenic as a raw material.
PRO-V1LINE	N/A	40 CFR Part 60, Subpart PPP	Construction commenced prior to February 7, 1984
PRO-V2LINE	N/A	40 CFR Part 60, Subpart PPP	Construction commenced prior to February 7, 1984
PRO-V2LINE	N/A	40 CFR Part 63, Subpart NNN	The rotary spin wool fiberglass manufacturing line does not produce a bonded wool fiberglass building insulation product as defined in 63.1381
PRO-V3LINE	N/A	40 CFR Part 60, Subpart PPP	Construction commenced prior to February 7, 1984
PRO-V3LINE	N/A	40 CFR Part 63, Subpart NNN	The rotary spin wool fiberglass manufacturing line does not produce a bonded wool fiberglass building insulation product as defined in 63.1381

Commented [KHG2]: The permit shields for the PRO-V1LINE, PRO-V2LINE, and PRO-V3LINE should be added back into the permit.

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality

Date: 08/14/2025
Permit No.: O-1094
Regulated Entity No.: RN100223585
Company Name: Owens Corning Insulating Systems, LLC

Using the table below, provide a description of the revision.

Revision No.	Revision Code		Unit/Group	Process	NSR Authorization	Description of Change and Provisional Terms and Conditions
		New Unit	ID No.	Applicable Form		
13	MS-C	No	TMPBLR	OP-UA6	PBR No. 106.183	Removal of the temporary boiler from service, previously added via a minor revision (TV project number 35476).
14	MS-C	No	GRP-BOIL GRP-VENT	OP-SUMR	N/A	Replacement of the two boilers (13NBOIL and 13SBOIL) represented by GRP-BOIL with BOILER 1 and associated boiler vent stacks (GRP-VENT: 4 and 5).
15	MS-A	Yes	BOILER 1	OP-UA6	PBR No. 106.183	Add a new Boiler to replace North and South boilers (GRP-BOIL)
16	MS-C	NO	DYE1	OP-UA15	PBR No. 106.472	Represent two dye tanks (Unit IDs DYE1 and DYE2) instead of one dye tank(Unit ID 09DYE) based on the current site operations.
17	MS-C	NO	DYE2	OP-UA15	PBR No. 106.472	Represent two dye tanks (Unit IDs DYE1 and DYE2) instead of one dye tank(Unit ID 09DYE) based on the current site operations.

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality

Date: 08/14/2025
Permit No.: O-1094
Regulated Entity No.: RN100223585
Company Name: Owens Corning Insulating Systems, LLC

Using the table below, provide a description of the revision.

Revision No.	Revision Code		Unit/Group	Process	NSR Authorization	Description of Change and Provisional Terms and Conditions
		New Unit	ID No.	Applicable Form		
18	**MS-B**	**NO**	**01MELT**	**OP-MON**	**N/A**	**Update the monitoring condition for V-1 Glass melting furnace.**

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
08/14/2025	O-1094	RN100223585

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/ Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106	Preconstruction Authorizations Title I
D	14	GRP-BOIL	OP-UA6	North and South Boilers			
D	14	4	OP-UA15	Boiler vent			
D	14	5	OP-UA15	Boiler vent			
A	15	BOILER 1	OP-UA6	Boiler		106.183/09/04/2000	
A	16	DYE1	OP-UA15	Dye Tank		106.472/09/04/2000	
A	17	DYE2	OP-UA15	Dye Tank		106.472/09/04/2000	
D	16 and 17	09DYE	OP-UA15	Dye Tank			
D	13	TMPBLR	OP-UA6	Temporary Boiler			

iler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 11)
Federal Operating Permit Program
Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Dc: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/14/2025	O-1094	RN100223585

Unit ID No.	SOP Index No.	Construction/ Modification Date	Maximum Design Heat Input Capacity	Applicability	Heat Input Capacity	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type	ACF Option SO_2	ACF Option PM	30% Coal Duct Burner
BOILER 1	60Dc-2	05+	10-								

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 13)
Federal Operating Permit Program
Table 5a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subpart B: Combustion Control at Major Industrial, Commercial and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/14/2025	O-1094	RN100223585

Unit ID No.	SOP Index No.	Unit Type	MRC	RACT Date Placed in Service	Functionally Identical Replacement	Fuel Type	Fuel Type	Fuel Type	Annual Heat Input
BOILER 1	R7410-3	ICIB	2-40			NG			

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 14)
Federal Operating Permit Program
Table 5b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subpart B: Combustion Control at Major Industrial, Commercial and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/14/2025	O-1094	RN100223585

Unit ID No.	SOP Index No.	NO_X Emission Limitation	Opt-In Unit	23C-Option	Title 30 TAC Chapter 116 Permit Limit	EGF System Cap Unit	NO_X Emission Limit Average	NO_X Reduction	Common Stack Combined
BOILER 1	R7410-3	410A					BLK1-LB	NONE	

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 15)
Federal Operating Permit Program
Table 5c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subpart B: Combustion Control at Major Industrial, Commercial and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/14/2025	O-1094	RN100223585

Unit ID No.	SOP Index No.	Fuel Type Heat Input	NO_X Monitoring System	Fuel Flow Monitoring	CO Emission Limitation	CO Monitoring System	NH_3 Emission Limitation	NH_3 Emission Monitoring
BOILER 1	R7410-3		MERT	X40A	410C	OTHER		

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 37)
Federal Operating Permit Program
Table 14a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart DDDDD: Industrial, Commercial, and Institutional Boilers
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/14/2025	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Commence	Table Applicability	HCl Emission	HCl-CMS
BOILER 1	63DDDDD-2	NEW	T3.2G1		

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)
Federal Operating Permit Program
Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/14/2025	O-1094	RN100223585

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
DYE1	R5127-2	NO	NO	REGVAPPL		100-		YES
DYE2	R5127-2	NO	NO	REGVAPPL		100-		YES

Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program
Table 1a: Additions

Date: 8/14/2025	**Regulated Entity No.:** RN100223585	**Permit No.:** O-1094
Company Name: Owens Corning Insulating Systems, LLC	**Area Name:** Owens Corning Insulating Systems Waxahachie Plant	

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Applicable Form			Name	Standard(s)
15	BOILER 1	OP-UA6	R7410-3	NOX	30 TAC Chapter 117, Subchapter B	§117.410(a)(1)(C) [G]§117.403(c) §117.410(a), [G](e)(1), (e)(2) [G]§117.410(e)(3), (e)(4) §117.430(b), (b)(1) §117.440(j) §117.410(b)(2)
15	BOILER 1	OP-UA6	R7410-3	CO	30 TAC Chapter 117, Subchapter B	§117.410(c)(1)|1 §117.440(j) §117.410(c)(1)(B) [G]§117.403(c)
15	BOILER 1	OP-UA6	63DDDDD-2	HAPs	40 CFR Part 63, Subpart DDDDD	§63.7500(a)(1)-Table 3.2|1 §63.7500(a)(1), (a)(3), (e) §63.7505(a) §63.7540(a), [G](a)(10), (a)(11), (a)(13)

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Applicable Form			Name	Standard(s)
16	DYE1	OP-UA15	R5127-2	VOC	30 TAC Chapter 117, Subchapter B	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)
17	DYE2	OP-UA15	R5127-2	VOC	30 TAC Chapter 117, Subchapter B	§ 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2)

Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program
Table 1b: Additions

Date:	**8/14/2025**	**Regulated Entity No.:**	**RN100223585**	**Permit No.:**	**O-1094**
Company Name:	**Owens Corning Insulating Systems, LLC**	**Area Name:**	**Owens Corning Insulating Systems Waxahachie Plant**		

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
15	BOILER 1	R7410-3	NOX	§117.435(a)(1), (a)(3), (b) §117.440(k)(1) §117.435(d) §117.435(e), (e)(2) §117.8000(b)-(c), (c)(1), (c)(3) §117.8000(c)(5)-(6), [G](d) §117.440(a) §117.440(k)(2)	§117.445(a), (f), (f)(8) §117.445(f)(1)	§117.435(f) §117.445(b), [G](c) §117.8010, [G](1), (2), (2)(A)-(D) [G]§117.8010(3), (4), [G](5) §117.8010(6), [G](7)
15	BOILER 1	R7410-3	CO	§117.435(a)(1), (a)(3), (b) §117.435(d) §117.8000(b)-(c), (c)(2) §117.8000(c)(3), (c)(5)-(6) [G]§117.8000(d) §117.440(a)	§117.445(a), (f), (f)(8) §117.445(f)(1)	§117.435(f) §117.445(b), [G](c) §117.8010, [G](1), (2), (2)(A)-(B) [G]§117.8010(3), (4), [G](5) §117.8010(6), [G](7)
15	BOILER 1	63DDDDD-2	HAPs	§63.7510(g) §63.7515(d)[G] §63.7521(f)-(g), (h)-(i) §63.7530(g) §63.7540(a), [G](a)(10), [G](c)	§63.7555(a), (a)(1)-(2), (g)-(h) §63.7560(a)-(c)	[G]§63.7521(g) §63.7530(e), (f) §63.7545(a)-(c), [G](e)-(f) §63.7550(a), [G](b)-(c), [G](h)
16	DYE1	R5127-2	VOC	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
17	DYE2	R5127-2	VOC	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 3)
Federal Operating Permit Program
Table 1c: CAM/PM Case-By-Case Additions

I. Identifying Information		
Account No.: **ED-0051-O**	RN No.: **RN100223585**	CN: **CN603159088**
Permit No.: **1094**	Project No.: **35476**	
Area Name: **Waxahachie Plant**		
Company Name: **Owens Corning Insulating Systems, LLC**		
II. Unit/Emission Point/Group/Process Information		
Revision No.: 18		
Unit/EPN/Group/Process ID No.: **01MELT**		
Applicable Form: **OP-UA5**		
III. Applicable Regulatory Requirement		
Name: **30 TAC Chapter 117, Subchapter B**		
SOP/GOP Index No.: **R7410-1**		
Pollutant: **CO**		
Main Standard: **§117.410(c)(1)**		
Monitoring Type: **PM**		
Unit Size:		
Deviation Limit: **CO emissions must not exceed 400 ppmv at 3.0% O2 , dry basis**		
IV. Control Device Information		
Control Device ID No.:		
Device Type:		
V. CAM Case-by-case		
Indicator:		
Minimum Frequency:		
Averaging Period:		
QA/QC Procedures:		
Verification Procedures:		
Representative Date:		
VI. Periodic Monitoring Case-by-case		
Indicator: **Monthly fuel usage**	Minimum Frequency: **Monthly**	
Averaging Period: **N/A**		
Periodic Monitoring Text: **Measure and record monthly fuel consumption (MCF). Once a month, CO**		

I. Identifying Information
emissions shall be corrected/calculated in units of ppmv at 3% O2 (using a calculated exhaust flow rate) based on the monthly fuel usage and CO emission factor of 3.742 lb CO/MMCF natural gas. If the calculation results in a value greater than the regulatory limit, a deviation will have occurred and will be reported.

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 3)
Federal Operating Permit Program
Table 1c: CAM/PM Case-By-Case Additions

I. Identifying Information		
Account No.: **ED-0051-O**	RN No.: **RN100223585**	CN: **CN603159088**
Permit No.: **1094**	Project No.: **35476**	
Area Name: **Waxahachie Plant**		
Company Name: **Owens Corning Insulating Systems, LLC**		
II. Unit/Emission Point/Group/Process Information		
Revision No.:18		
Unit/EPN/Group/Process ID No.: **01MELT**		
Applicable Form: **OP-UA5**		
III. Applicable Regulatory Requirement		
Name: **30 TAC Chapter 117, Subchapter B**		
SOP/GOP Index No.: **R7410-1**		
Pollutant: **NO_X**		
Main Standard: **§117.410(a)(10)(D)**		
Monitoring Type: **PM**		
Unit Size:		
Deviation Limit: **Maximum NO_X Emission Rate = 3.1 lb/ton product pulled**		
IV. Control Device Information		
Control Device ID No.:		
Device Type:		
V. CAM Case-by-case		
Indicator:		
Minimum Frequency:		
Averaging Period:		
QA/QC Procedures:		
Verification Procedures:		
Representative Date:		
VI. Periodic Monitoring Case-by-case		
Indicator: **Monthly fuel usage**	Minimum Frequency: **Monthly**	
Averaging Period: **N/A**		
Periodic Monitoring Text: **Measure and record the daily production rate (tons of glass pulled). Once a**		

I. Identifying Information
month, the daily production rates and the March 2007 testing data emission factor of 0.97 lb NO_X/ton of product pulled will be used to calculate the average hourly NO_X emissions. The calculated average hourly NO_X emission rate will be compared with the hourly NO_X permit limit. If the average hourly emissions are above the hourly permit limit, this will be considered and reported as a deviation.

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 3)
Federal Operating Permit Program
Table 1c: CAM/PM Case-By-Case Additions

I. Identifying Information		
Account No.: **ED-0051-O**	RN No.: **RN100223585**	CN: **CN603159088**
Permit No.: **1094**	Project No.: **35476**	
Area Name: **Waxahachie Plant**		
Company Name: **Owens Corning Insulating Systems, LLC**		
II. Unit/Emission Point/Group/Process Information		
Revision No.:		
Unit/EPN/Group/Process ID No.: **BOILER 1**		
Applicable Form: **OP-UA6**		
III. Applicable Regulatory Requirement		
Name: **30 TAC Chapter 117, Subchapter B**		
SOP/GOP Index No.: **R7410-3**		
Pollutant: **CO**		
Main Standard: **§117.410(c)(1)**		
Monitoring Type: **PM**		
Unit Size:		
Deviation Limit: **CO emissions must not exceed 400 ppmv at 3.0% O2 , dry basis**		
IV. Control Device Information		
Control Device ID No.:		
Device Type:		
V. CAM Case-by-case		
Indicator:		
Minimum Frequency:		
Averaging Period:		
QA/QC Procedures:		
Verification Procedures:		
Representative Date:		
VI. Periodic Monitoring Case-by-case		
Indicator: **CO**	Minimum Frequency: **Quarterly**	
Averaging Period: **N/A**		
Periodic Monitoring Text: **Measure and record the carbon monoxide concentration using a portable analyzer. The portable analyzer shall be operated in accordance with the Environmental**		

I. Identifying Information
Protection Agency's, Office of Air Quality Planning & Standards, Emission Measurement Center Conditional Test Method Determination of Oxygen, Carbon Monoxide, and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure) [CTM-034] (September 8, 1999). Any monitoring data above the maximum limit shall be considered and reported as a deviation.

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 3)
Federal Operating Permit Program
Table 1c: CAM/PM Case-By-Case Additions

I. Identifying Information		
Account No.: **ED-0051-O**	RN No.: **RN100223585**	CN: **CN603159088**
Permit No.: **1094**	Project No.: **35476**	
Area Name: **Waxahachie Plant**		
Company Name: **Owens Corning Insulating Systems, LLC**		
II. Unit/Emission Point/Group/Process Information		
Revision No.:		
Unit/EPN/Group/Process ID No.: **BOILER 1**		
Applicable Form: **OP-UA6**		
III. Applicable Regulatory Requirement		
Name: **30 TAC Chapter 117, Subchapter B**		
SOP/GOP Index No.: **R7410-3**		
Pollutant: **NO_X**		
Main Standard: **§117.410(a)(1)(C)**		
Monitoring Type: **PM**		
Unit Size:		
Deviation Limit: **NO_X emissions must not exceed 30 ppmv at 3.0% O2 , dry basis**		
IV. Control Device Information		
Control Device ID No.:		
Device Type:		
V. CAM Case-by-case		
Indicator:		
Minimum Frequency:		
Averaging Period:		
QA/QC Procedures:		
Verification Procedures:		
Representative Date:		
VI. Periodic Monitoring Case-by-case		
Indicator: **NO_X**	Minimum Frequency: **Quarterly**	
Averaging Period: **N/A**		
Periodic Monitoring Text: **Monitor and record the nitrogen oxide concentration in the exhaust stream**		

I. Identifying Information
using a portable analyzer to monitor nitrogen oxide. The portable analyzer shall be operated in accordance with the Environmental Protection Agency's, Office of Air Quality Planning & Standards, Emission Measurement Center Conditional Test Method - Determination of Oxygen, Carbon Monoxide, and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure) [CTM-034] (September 8, 1999). NOx emissions shall be corrected/calculated in units of the underlying applicable emission limitation (ppmv @ 3% O2, dry basis).

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 1)

Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number
8/14/2025	O-1094	RN100223585

Unit ID	Registration Number	PBR No.	Registration Date
3	45087	106.262	08/18/2000
30	78155	106.472	03/24/2006
85	84393	106.371	04/10/2008
02FAB	113627	106.262	11/07/2013
11	162524	106.261	09/25/2020
11	162524	106.262	09/25/2020
53	162525	106.418	05/19/2021

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 2)

Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number
8/14/2025	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date
07USST	106.472	09/04/2000
07UPST	106.472	09/04/2000
07REST1	106.472	03/14/1997
07BOST	106.473	03/14/1997
07WOST	106.473	03/14/1997
07ASST	106.472	03/14/1997
72DIE_A	106.472	09/04/2000
72DIE_B	106.472	09/04/2000
73GAS	106.473	03/14/1997
07FOST	106.472	09/04/2000
07WWST	106.472	09/04/2000
DYE1	106.472	09/04/2000
DYE2	106.472	09/04/2000
Small Tanks and Totes	106.472	09/04/2000
09REST3	106.472	09/04/2000
347	106.532	09/04/2000
09ADST1	106.472	03/14/1997
09ADST2	106.472	03/14/1997
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000
76	106.472	09/04/2000
443	106.472	09/04/2000
63	106.371	03/14/1997
64	106.371	03/14/1997
65	106.371	03/14/1997
66	106.371	03/14/1997
67	106.371	03/14/1997
49	106.183	09/04/2000
BOILER 1	106.183	09/04/2000
HWBUV1	106.511	03/14/1997
FWCBUV1	106.511	03/14/1997
FWCBUV2	106.511	03/14/1997
FWCBUV3	106.511	03/14/1997
CWBU	106.511	09/04/2000
PCWSBU	106.511	03/14/1997
PCWSBU2	106.511	09/04/2000
HWBUV2	106.511	03/14/1997
HWBUV3	106.511	03/14/1997
Sandblasters	106.452	03/14/1997
Welding	106.227	09/04/2000
Water Treatment Chemicals	106.371	09/04/2000
Safety Kleen Stations	106.454	11/01/2001
Chiller Systems	106.373	03/14/1997
Site_MSS	106.263	11/01/2001
Hand held Machines	106.265	09/04/2000

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 3)

Table C: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area

Date	Permit Number	Regulated Entity Number
8/14/2025	O-1094	RN100223585

PBR No.	Version No./Date
106.453	09/04/2000
106.122	03/14/1997

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 4)

Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number
8/14/2025	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
3	106.262	08/18/2000	Record annual throughput of sodium sulfate and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
30	106.472	03/24/2006	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
85	106.371	04/10/2008	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
02FAB	106.262	11/07/2013	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.261	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.262	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
53	106.418	05/19/2021	Record annual ink and solvent usage and use underlying emission calculation methods to determine actual emissions
07USST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07UPST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
07REST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07BOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07ASST	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_A	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_B	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
73GAS	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07FOST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WWST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
DYE1	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
DYE2	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Small Tanks and Totes	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09REST3	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
347	106.532	09/04/2000	Record annual hours of operation.
09ADST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09ADST2	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
76	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
443	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
63	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
64	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
65	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
66	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
67	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
49	106.183	09/04/2000	Record annual fuel usage and use underlying emission factors to calculate emissions and demonstrate compliance with PBR limits
BOILER 1	106.183	09/04/2000	Record annual fuel usage
HWBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV2	106.511	03/14/1997	Record annual hours of operation
FWCBUV3	106.511	03/14/1997	Record annual hours of operation
CWBU	106.511	09/04/2000	Record annual hours of operation
PCWSBU	106.511	03/14/1997	Record annual hours of operation
PCWSBU2	106.511	09/04/2000	Record annual hours of operation
HWBUV2	106.511	03/14/1997	Record annual hours of operation
HWBUV3	106.511	03/14/1997	Record annual hours of operation
Sandblasters	106.452	03/14/1997	Maintain operating hours and abrasive material usage on annual basis
Welding	106.227	09/04/2000	Record annual usage of weld rods and lead content for maintenance activities to ensure 0.6 tpy emission limit for lead is met
Water Treatment Chemicals	106.371	09/04/2000	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
Safety Kleen Stations	106.454	11/01/2001	Record annual usage of solvent
Chiller Systems	106.373	03/14/1997	Maintain documentation of refrigeration chemical

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
Site_MSS	106.263	11/01/2001	Record details of maintenance activities for baghouse filter repacement, solvent/lubricant usage, vacuum trucks, and boiler maintenance and use the underlying emission calculations to demonstrate compliance with 24-hour emission limits. The details to be recorded include: - Type and reason for the activity - Process and equipment involved - Material usage - Date, time, and duration of the activity - Air contaminants and amounts emitted as a result of the activity
Hand held Machines	106.265	09/04/2000	Annual hours of grinding operations

From: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>
Sent: Thursday, July 24, 2025 9:35 AM
To: Savannah Quiros
Cc: Desloges, Jacquelyn; Mitchell McBrayer; Kate Gross; Oyewo, Oyeteju
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Thank you.

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Thursday, July 24, 2025 9:27 AM
To: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>
Cc: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Mitchell McBrayer <Mitchell.McBrayer@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi CJ,

Thank you for letting me know. I can grant a two week extension to **8/14/2025**.

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228

How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>
Sent: Thursday, July 24, 2025 8:55 AM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Mitchell McBrayer <Mitchell.McBrayer@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>; Oyewo, Oyeteju <Oyeteju.Oyewo@owenscorning.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Good morning,

I acknowledge receipt of the WDP.

Two of the key persons needed to review the WDP are on vacation this week and next week. So, I would like to request a two-week extension till 8/14/2025, for us to review and get back to you with comments.

Thanks,

CJ Teneng
Environmental Lead
Waxahachie Plant
M: 404-955-6948
chiajo.teneng@owenscorning.com

INSULATION
3700 N INTERSTATE 35 EAST
WAXAHACHIE, TX 75165
www.owenscorning.com

TM & © 2022 MGM

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Thursday, July 17, 2025 1:45 PM
To: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>
Cc: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Mitchell McBrayer <Mitchell.McBrayer@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Good afternoon,

Please see the attached WDP. I've added the boiler TMPBOIL to the permit. See pages 64, 65, 66, 72, and 73 for monitoring updates. These are pre-approved monitoring options (PM-C-001 and PM-N-001). After Owens Corning's last renewal cycle, it was ruled that 30 TAC Chapter 117 had insufficient frequency of data to assure compliance with the rule. Since the response to CO Monitoring System on the OP-UA6 is 'other', you'll need to have periodic monitoring. Please review the WDP and submit any comments you have on it OR your approval by ***07/31/2025.***

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400

Texas Commission on Environmental Quality

Title V Existing

1094

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	WAXAHACHIE PLANT
Does the site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.439166
Longitude (W) (-###.######)	96.85
Primary SIC Code	3296
Secondary SIC Code	
Primary NAICS Code	327993
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100223585
What is the name of the Regulated Entity (RE)?	OWENS CORNING INSULATING SYSTEMS WAXAHACHIE PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.44148
Longitude (W) (-###.######)	-96.848
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603159088

Type of Customer	Other
Full legal name of the applicant:	
Legal Name	Owens Corning Insulating Systems, LLC
Texas SOS Filing Number	800719027
Federal Tax ID	371525228
State Franchise Tax ID	32020858554
State Sales Tax ID	
Local Tax ID	
DUNS Number	7332570
Number of Employees	251-500
Independently Owned and Operated?	No

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	Owens Corning Insulating Systems LLC
Prefix	MR
First	James
Middle	
Last	Beilstein
Suffix	
Credentials	
Title	Vice President - Global Operations & Supply Chain
Enter new address or copy one from list:	RE Physical Address
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	2790 COLUMBUS RD
Routing (such as Mail Code, Dept., or Attn:)	
City	GRANVILLE
State	OH
ZIP	43023
Phone (###-###-####)	7403215714
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	jim.beilstein@owenscorning.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	New Contact
Organization Name	Owens Corning
Prefix	MR
First	Kevin
Middle	
Last	Ward

Suffix	
Credentials	
Title	Plant Leader
Enter new address or copy one from list	Site Physical Address
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N Interstate 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
Zip	75165
Phone (###-###-####)	4794304006
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Kevin.Ward@owenscorning.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	CHIAJO TENENG(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MS
First	CHIAJO
Middle	
Last	TENENG
Suffix	
Credentials	
Title	ENVIRONMENTAL LEAD
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
ZIP	75165
Phone (###-###-####)	9729234396
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	chiajo.teneng@owenscorning.com

Title V General Information - Existing

1) Permit Type:	SOP

2) Permit Latitude Coordinate:	32 Deg 26 Min 21 Sec
3) Permit Longitude Coordinate:	96 Deg 51 Min 0 Sec
4) Is this submittal a new application or an update to an existing application?	New Application
4.1. What type of permitting action are you applying for?	Administrative Action
5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	No

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

Attach OP-CRO2 (Change of Responsible Official Information)

[File Properties]

File Name	OP-CRO2 Form_Jim B (RO change).pdf
Hash	5563098C06B410CF4C66031A02AB1D88AB7740B175C02FFA34278F9B200E42A2
MIME-Type	application/pdf

Attach OP-DEL (Delegation of Responsible Official)

[File Properties]

File Name	OP-DEL_mailed 11-22-2024.pdf
Hash	55386B6E6938426C20FBD0364F6AC89FBFF9FE733D1587053813836D19543D84
MIME-Type	application/pdf

Attach any other necessary information needed to complete the permit.

An additional space to attach any other necessary information needed to complete the permit.

Expedite Title V

1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	No

Certification

I certify that I am the Duly Authorized Representative for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am Kevin R Ward, the owner of the STEERS account ER110293.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.

4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1094.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Kevin R Ward OWNER OPERATOR

Account Number:	ER110293
Signature IP Address:	205.204.5.17
Signature Date:	2025-07-25
Signature Hash:	7C843597CC7D9582EF2D112F960EAF8A216BAAEDEDA78A4E281A5AD2237A7202
Form Hash Code at time of Signature:	AF7D1C11CAD01FCAB9EB50944351BB2ED8B11C0D5EBB436BF088DF2E81DDB6BD

Submission

Reference Number:	The application reference number is 803641
Submitted by:	The application was submitted by ER110293/Kevin R Ward
Submitted Timestamp:	The application was submitted on 2025-07-25 at 14:17:17 CDT
Submitted From:	The application was submitted from IP address 205.204.5.17
Confirmation Number:	The confirmation number is 667164
Steers Version:	The STEERS version is 6.92
Permit Number:	The permit number is 1094

Additional Information

Application Creator: This account was created by Aabhash Khadka

Form OP-CRO2
Change of Responsible Official Information
Federal Operating Permit Program

The Texas Commission on Environmental Quality (TCEQ) shall be notified of a new appointment or administrative information change (e.g., address, phone number, title) for a Responsible Official (RO), Designated Representative (DR), or Alternate Designated Representative (ADR) in the next submittal. This form satisfies the requirements for notification (a revised Certificate of Representation must also be submitted to the U.S. Environmental Protection agency for changes in the DR and ADR). After the initial submittal, if there is a change of Duly Authorized Representative (DAR) appointment or administrative information changes for the DAR, include a revised Form OP-DEL (Delegation of Responsible Official) with the next submittal to TCEQ.

I. Identifying Information
Account Number: ED-0051-O
Regulated Entity Number: RN 100223585
Customer Reference Number: CN 603159088
Permit Number: O-1094
Area Name: Owens Corning Insulating Systems - Waxahachie Plant
Company: Owens Corning Insulating Systems, LLC
II. Change Type
Action Type: ☒ New Appointment ☐ Administrative Information Change
Contact Type **(only one response accepted per form):** ☒ Responsible Official ☐ Designated Representative *(Acid Rain Program and/or CSAPR sources only) Alternate Designated* ☐ Representative *(Acid Rain Program and/or CSAPR sources only)*

Form OP-CRO2
Change of Responsible Official Information
Federal Operating Permit Program

III. Responsible Official/Designated Representative/Alternate Designated Representative Information
Conventional Title: ☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.
Name (Driver's License/STEERS): James Beilstein
Title: Vice President - Global Operations & Supply Chain
Appointment Effective Date: May 1, 2022
Telephone Number: 1-740-321-5714
Fax Number.:
Company Name: Owens Corning Insulating Systems, LLC
Mailing Address: 2790 Columbus Road
City: Granville
State: Ohio
ZIP Code: 43023
Email Address: Jim.Beilstein@owenscorning.com

Form OP-CRO2
Change of Responsible Official Information
Federal Operating Permit Program

IV. Certification of Truth, Accuracy, and Completeness
This certification does not extend to information, which is designated by TCEQ as information for reference only.
I, James Beilstein, certify that based on information and belief formed Reasonable inquiry, the statement and information stated above are true, accurate, and complete.
Signature:
Signature Date: 5/28/25

Change of Responsible Official
Federal Operating Permit Program
(Extension)

V. Additional Identifying Information
Account Number:
Regulated Entity Number: RN
Customer Reference Number: CN
Permit Number:
Area Name:
Account Number:
Regulated Entity Number: RN
Customer Reference Number: CN
Permit Number:
Area Name:
Account Number:
Regulated Entity Number: RN
Customer Reference Number: CN
Permit Number:
Area Name:
Account Number:
Regulated Entity Number: RN
Customer Reference Number: CN
Permit Number:
Area Name:
Account Number:
Regulated Entity Number: RN
Customer Reference Number: CN
Permit Number:
Area Name:

Form OP-DEL
Delegation of Responsible Official Information
Federal Operating Permit Program
Texas Commission on Environmental Quality

I. Identifying Information
Account Number: ED-0051-O
Regulated Entity Number: RN100223585
Customer Reference Number: CN603159088
Permit Number: O-1094
Area Name: Owens Corning Insulating Systems – Waxahachie Plant
Company Name: Owens Corning Insulating Systems, LLC
II. Duly Authorized Representative Information
Action Type: ☒ New DAR Identification ☐ Administrative Information Change
Conventional Title: ☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.
Name (Driver License/STEERS): Kevin Ward
Title: Waxahachie Plant Leader
Delegation Effective Date: October 14, 2024
Telephone Number: 479-430-4006
Fax Number:
Company Name: Owens Corning Insulating Systems – Waxahachie Plant
Mailing Address: 3700 North Interstate 35 East
City: Waxahachie
State: Texas
ZIP Code: 75165
Email Address: kevin.ward@owenscorning.com

Form OP-DEL
Delegation of Responsible Official Information
Federal Operating Permit Program
Texas Commission on Environmental Quality

III. Certification of Truth, Accuracy, and Completeness

I, Jim Beilstein, VP Operations Insulation

(Name printed or typed: RO for New DAR Identification; RO or DAR for Administrative Information Change)

Certify that, based on information and belief formed after reasonable inquiry, the statements, and information stated above are true, accurate, and complete. *(RO signature required for New DAR Identification only; DAR signature required for any Action Type)*

Responsible Official Signature: _____

Date: October 17, 2024

Duly Authorized Representative Signature: _____
(Name(s) printed or typed)

Date: OCTOBER 17, 2024

IV. Removal of Duly Authorized Representative(s)

The following should be removed as Duly Authorized Representative(s):

Lucian Radut
(Name(s) printed or typed)

Effective Date: October 14, 2024

Responsible Official Signature: _____

Date: October 17, 2024

From: Savannah Quiros
Sent: Thursday, July 17, 2025 1:45 PM
To: Teneng(Fuoching), Chiajo
Cc: Desloges, Jacquelyn; Mitchell McBrayer; Kate Gross
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476
Attachments: WDPv3- O1094 Owens Corning Insulating Systems, LLC (Renewal, 35476).docx

Good afternoon,

Please see the attached WDP. I've added the boiler TMPBOIL to the permit. See pages 64, 65, 66, 72, and 73 for monitoring updates. These are pre-approved monitoring options (PM-C-001 and PM-N-001). After Owens Corning's last renewal cycle, it was ruled that 30 TAC Chapter 117 had insufficient frequency of data to assure compliance with the rule. Since the response to CO Monitoring System on the OP-UA6 is 'other', you'll need to have periodic monitoring. Please review the WDP and submit any comments you have on it OR your approval by ***07/31/2025.***

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>
Sent: Thursday, June 12, 2025 5:00 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Mitchell McBrayer <Mitchell.McBrayer@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Good afternoon Savannah,

The V2 and V3 furnaces (02MELT and 03MELT) are cold-top electric (CTE) melters. The purpose of these furnaces is to generate molten glass that is sent downline to use in the production of fiberglass. The

process of melting glass requires the chemical bonds of batch raw materials to be broken so that the raw material can go into solution. In a CTE melter, the energy required to break those chemical bonds is provided by the resistance to current flow within the molten glass. Electric energy is provided by immersed electrodes; 100% of the energy used to put raw materials into solution to create a glass is provided by the melter electrodes. As the energy supplied does not originate from the combustion of a fuel, there are no CO emissions generated from combustion.

CO is therefore not a pollutant that is reasonably expected to be part of the emissions profile for the V2 and V3 CTE furnaces. Additionally, on the site NSR permit's maximum allowable emission rate table, for EPNs "19, 20" and "38, 39", there are no CO emissions represented as being emitted. Therefore, periodic monitoring is not reasonable.

Thanks,

CJ Teneng
Environmental Lead
Waxahachie Plant
M: 404-955-6948
chiajo.teneng@owenscorning.com



INSULATION
3700 N INTERSTATE 35 EAST
WAXAHACHIE, TX 75165
www.owenscorning.com

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Tuesday, June 10, 2025 2:18 PM
To: Kate Gross <KGross@trinityconsultants.com>
Cc: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Mitchell McBrayer <Mitchell.McBrayer@trinityconsultants.com>; Brandon McBride <Brandon.McBride@trinityconsultants.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Hi all,

Reviewing the Unit Attribute forms and the effective and working draft permits, Unit IDs 02MELT and 03MELT are subject to 30 TAC Chapter 117, Subchapter B, the same requirements that apply to unit ID 01MELT. Chapter 117, Subchapter B does not have sufficient monitoring within the rule, which is why Periodic Monitoring (PM) is needed. Could you provide further explanation as to why Owens Corning believes that 02MELT and 03MELT do not need PM for CO?

Please provided a response by 6/12/2025.

Sincerely,

Savannah G. Quiros
(she/they/them)
Permit Reviewer

This site uses XSLT; that functionality is being removed from this browser very soon. When that happens, this page will likely no longer display correctly. You might be able to install a browser extension that allows you to continue viewing it. Otherwise, you should contact the maintainer of the site for further information.

Texas Commission on Environmental Quality

Title V Existing

1094

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	WAXAHACHIE PLANT
Does the site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.439166
Longitude (W) (-###.######)	96.85
Primary SIC Code	3296
Secondary SIC Code	
Primary NAICS Code	327993
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100223585
What is the name of the Regulated Entity (RE)?	OWENS CORNING INSULATING SYSTEMS WAXAHACHIE PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.44148
Longitude (W) (-###.######)	-96.848
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603159088

Type of Customer	Other
Full legal name of the applicant:	
Legal Name	Owens Corning Insulating Systems, LLC
Texas SOS Filing Number	800719027
Federal Tax ID	371525228
State Franchise Tax ID	32020858554
State Sales Tax ID	
Local Tax ID	
DUNS Number	7332570
Number of Employees	251-500
Independently Owned and Operated?	No

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	OWENS CORNING
Prefix	MR
First	DAVID
Middle	
Last	RABUANO
Suffix	
Credentials	
Title	VICE PRESIDENT OPERATIONS
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1 OWENS CORNING PKWY
Routing (such as Mail Code, Dept., or Attn:)	
City	TOLEDO
State	OH
ZIP	43659
Phone (###-###-####)	4192487343
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	david.rabuano@owenscorning.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	LUCIAN RADUT(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
First	LUCIAN
Middle	
Last	RADUT
Suffix	

Credentials	
Title	WAXAHACHIE PLANT LEADER
Enter new address or copy one from list	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
Zip	75165
Phone (###-###-####)	9729234301
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	lucian.radut@owenscorning.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	CHIAJO TENENG(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MS
First	CHIAJO
Middle	
Last	TENENG
Suffix	
Credentials	
Title	ENVIRONMENTAL LEAD
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
ZIP	75165
Phone (###-###-####)	9729234396
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Chiajo.teneng@owenscorning.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	32 Deg 26 Min 21 Sec

3) Permit Longitude Coordinate:	96 Deg 51 Min 0 Sec
4) Is this submittal a new application or an update to an existing application?	New Application
4.1. What type of permitting action are you applying for?	Streamlined Revision
4.1.1. Are there any permits that should be voided upon issuance of this permit application through permit conversion?	No
4.1.2. Are there any permits that should be voided upon issuance of this permit application through permit consolidation?	No
5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	No

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

Attach OP-2 (Application for Permit Revision/Renewal)

[File Properties]

File Name	OP_2_OCIS TV REVISION_TMPBOIL (2025-0521).pdf
Hash	EA06D3EC7DDEDBDC27052A88D717010CB871398D286454691222A939BB5FFF6E
MIME-Type	application/pdf

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach any other necessary information needed to complete the permit.

An additional space to attach any other necessary information needed to complete the permit.

Expedite Title V

1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	No

Certification

I certify that I am the Duly Authorized Representative for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am Lucian Radut, the owner of the STEERS account ER070923.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1094.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Lucian Radut OWNER OPERATOR

Account Number:	ER070923
Signature IP Address:	205.204.5.3
Signature Date:	2025-05-21
Signature Hash:	DF6C22E68F43F8BAECB9A3BD68672AD300DD6D8A368511D79FFDE84A0ABE2664
Form Hash Code at time of Signature:	EC5105FC683C06B157D1565837D33C069C2E1572EA3F5BEA5E825D950F9925FE

Submission

Reference Number:	The application reference number is 788050
Submitted by:	The application was submitted by ER070923/Lucian Radut
Submitted Timestamp:	The application was submitted on 2025-05-21 at 15:48:45 CDT
Submitted From:	The application was submitted from IP address 205.204.5.3
Confirmation Number:	The confirmation number is 654593
Steers Version:	The STEERS version is 6.91
Permit Number:	The permit number is 1094

Additional Information

Application Creator: This account was created by Kathleen H Gross

Trinity Consultants
12700 Park Central Dr, Ste 600, Dallas, TX 75251 / P 800.229.6655 / P 972.661.8100 / F 972.385.9203 / **trinityconsultants.com**

May 21, 2025

Texas Commission on Environmental Quality (TCEQ)
Air Permits Initial Review Team (APIRT)
12100 Park 35 Circle
Building C, Third Floor, MC 161
Austin, TX 78753

RE: Site Operating Permit No. O-1094 Minor Revision Application
Owens Corning Insulating Systems, LLC – Waxahachie Plant
TCEQ Customer Reference Number (CN) 603159088
TCEQ Regulated Entity Reference Number (RN) 100223585

Dear APIRT:

Due to changes at the Owens Corning Insulating Systems, LLC (OCIS) Waxahachie Plant (Waxahachie Plant), Site Operating Permit (SOP) Number (No.) O-1094 must be revised per Title 30 of the Texas Administrative Code (30 TAC) §122.210. On behalf of OCIS, Trinity Consultants (Trinity) is submitting the enclosed Title V minor revision application for the Waxahachie Plant.

OCIS is claiming Permit by Rule (PBR) §106.183 to utilize a temporary boiler (Title V Unit ID TMPBOIL) until a permanent replacement unit has been obtained for the existing North or South boilers (Facility Identification Numbers 13NBOIL and 13SBOIL; Emission Point Numbers [EPNs] 4 and 5). The temporary boiler has a lower maximum heat input rating (14.6 million British thermal units per hour [MMBtu/hr]) compared to the existing units (20 MMBtu/hr each) and will employ a low NO_X burner (0.036 lb/MMBtu) similar to the existing boilers. OCIS will comply with the applicable requirements of the following regulations:

- 30 TAC Chapter 117, Subchapter B
- Title 40 of the Code of Federal Regulations (40 CFR) Part 60, Subpart Dc
- 40 CFR Part 63, Subpart DDDDD

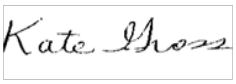
With this SOP minor revision application, OCIS will incorporate changes associated with the PBR authorization into SOP No. O-1094. This SOP minor revision application submittal contains the following required forms according to TCEQ guidance for SOP minor revision applications:

- Attachment 1: Form OP-CRO1
- Attachment 2: Form OP-2
- Attachment 3: Form OP-SUMR
- Attachment 4: Form OP-UA6
- Attachment 5: Form OP-REQ3
- Attachment 6: Form OP-PBRSUP

If you have any questions regarding this submittal, please feel free to contact me at (214) 405-1598, or Ms. CJ Teneng, OCIS, at (972) 923-4893.

Sincerely,

TRINITY CONSULTANTS



Kate Gross
Principal Consultant

Attachments

cc: Air Section Manager, TCEQ Regional Office 4
EPA Region 6 (electronically)
Ms. Jacquelyn Desloges, OCIS

ATTACHMENT 1

Certification by Responsible Official (OP-CRO1)

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, renewal, and reopening permit application submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information	
RN: **RN100223585**	
CN: **CN603159088**	
Account No.: **ED-0051-O**	
Permit No.: **O-1094**	
Project No.: **TBA**	
Area Name: **Waxahachie Plant**	
Company Name: **Owens Corning Insulating Systems, LLC**	
II. Certification Type *(Please mark appropriate box)*	
☐ Responsible Official Representative	☒ Duly Authorized Representative
III. Submittal Type *(Please mark appropriate box) (Only one response can be accepted per form)*	
☐ SOP/TOP Initial Permit Application	☒ Permit Revision, Renewal, or Reopening
☐ GOP Initial Permit Application	☐ Update to Permit Application
☐ Other: _____	

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program
Texas Commission on Environmental Quality

All initial issuance, revision, and renewal permit application submittals requiring certification must be accompanied by this form. Updates to acid rain or CSAPR (other than public notice verification materials) must be certified prior to authorization of public notice for the draft permit.

IV. Certification of Truth

This certification does not extend to information which is designated by TCEQ as information for reference only.

I, **Lucian Radut** certify that I am the **DAR**

(Certifier Name printed or typed) *(RO or DAR)*

and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:
Note: Enter Either a Time Period or Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).

Time Period: From _____ to _____

(Start Date) *(End Date)*

Specific Dates: **05/21/2025** _____ _____ _____

(Date 1) *(Date 2)* *(Date 3)* *(Date 4)*

_____ _____

(Date 5) *(Date 6)*

Signature: **Signed via STEERS** Signature Date: _____

Title: **Plant Leader**

ATTACHMENT 2

Application for Permit Revision/Renewal (OP-2)

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1
Texas Commission on Environmental Quality

Date: 05/21/2025	
Permit No.: O-1094	
Regulated Entity No.: RN100223585	
Company Name: Owens Corning Insulating Systems, LLC	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA?	☒ YES ☐ NO
I. Application Type	
Indicate the type of application:	
☐ Renewal	
☒ Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)	
☐ Significant Revision	
☐ Revision Requesting Prior Approval	
☐ Administrative Revision	
☐ Response to Reopening	
II. Qualification Statement	
For SOP Revisions Only	☒ YES ☐ NO
For GOP Revisions Only	☐ YES ☐ NO

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1 *(continued)*
Texas Commission on Environmental Quality

III. Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.)						
Indicate all pollutants for which the site is a major source based on the site's potential to emit: *(Check the appropriate box[es].)*						
☒ VOC	☒ NO_X	☐ SO_2	☒ PM_{10}	☒ CO	☐ Pb	☒ HAP
Other:						
IV. Reference Only Requirements *(For reference only)*						
Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?					☒ YES ☐ NO ☐ N/A	
V. Delinquent Fees and Penalties						
Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.						

Texas Commission on Environmental Quality
Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2 (Page 2)
Table 2

Date:	**5/21/2025**
Permit No.:	**O-1094**
Regulated Entity No	**RN100223585**
Company Name:	**Owens Corning Insulating Systems, LLC**

I. Description of Revision

Revision No.	Revision Code	Unit/Group Process: New Unit	Unit/Group Process: ID No.	Unit/Group Process: Applicable Form	NSR Authorization	Description of Changes and Provisional Terms and Conditions
1	MS-A	Yes	TMPBOIL	OP-UA6	PBR 106.183	Add applicable requirements (30 TAC Chapter 117, NSPS Subpart Dc, and MACT DDDDD) for temporary boiler

ATTACHMENT 3

Individual Unit Summary for Revisions (OP-SUMR)

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date:	5/21/2025	Permit No.:	O-1094	Regulated Entity No.:	RN100223585

Unit/Process						Preconstruction Authorizations	
Unit/ Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/Description	Unit/ Process CAM	30 TAC Chapter 116/ 30 TAC Chapter 106	Title I
A	1	TMPBOIL	OP-UA6	Temporary Boiler		106.183/09/04/2000	

ATTACHMENT 4

Boiler/Steam Generator/Steam Generating Unit Attributes (OP-UA6)

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 11)
Federal Operating Permit Program
Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Dc: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
05/21/2025	O-1094	RN100223585

Unit ID No.	SOP Index No.	Construction/ Modification Date	Maximum Design Heat Input Capacity	Applicability	Heat Input Capacity	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type	ACF Option SO_2	ACF Option PM	30% Coal Duct Burner
TMPBOIL	60Dc-1	05+	10-100	NONE	10-30	NG			55+CL	OTHR	NO

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 12)
Federal Operating Permit Program
Table 4b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Dc: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
05/21/2025	O-1094	RN100223585

Unit ID No.	SOP Index No.	Monitoring Type PM	Monitoring Type SO_2 Inlet	Monitoring Type SO_2 Outlet	Technology Type	43CE-Option	47C-Option
TMPBOIL	60Dc-1	NONE	NONE	NONE	NONE		

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 13)
Federal Operating Permit Program
Table 5a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subpart B: Combustion Control at Major Industrial, Commercial and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
05/21/2025	O-1094	RN100223585

Unit ID No.	SOP Index No.	Unit Type	MRC	RACT Date Placed in Service	Functionally Identical Replacement	Fuel Type	Fuel Type	Fuel Type	Annual Heat Input
TMPBOIL	R7410-3	ICIB	2-40			NG			

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 14)
Federal Operating Permit Program
Table 5b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subpart B: Combustion Control at Major Industrial, Commercial and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
05/21/2025	O-1094	RN100223585

Unit ID No.	SOP Index No.	NO_X Emission Limitation	Opt-In Unit	23C-Option	Title 30 TAC Chapter 116 Permit Limit	EGF System Cap Unit	NO_X Emission Limit Average	NO_X Reduction	Common Stack Combined
TMPBOIL	R7410-3	410A					BLK1-LB	NONE	

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 15)
Federal Operating Permit Program
Table 5c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subpart B: Combustion Control at Major Industrial, Commercial and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
05/21/2025	O-1094	RN100223585

Unit ID No.	SOP Index No.	Fuel Type Heat Input	NO_X Monitoring System	Fuel Flow Monitoring	CO Emission Limitation	CO Monitoring System	NH_3 Emission Limitation	NH_3 Emission Monitoring
TMPBOIL	R7410-3		MERT	X40A	410C	OTHER		

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 37)
Federal Operating Permit Program
Table 14a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart DDDDD: Industrial, Commercial, and Institutional Boilers
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
05/21/2025	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Commence	Table Applicability	HCl Emission	HCl-CMS
TMPBOIL	63DDDDD-2	NEW	T3.3G1		

ATTACHMENT 5
Applicable Requirements Summary (OP-REQ3)

Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program
Table 1a: Additions

Date:	**5/21/2025**	**Regulated Entity No.:**	**RN100223585**	**Permit No.:**	**O-1094**
Company Name:	**Owens Corning Insulating Systems, LLC**	**Area Name:**	**Waxahachie Plant**		

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Applicable Form			Name	Standard(s)
1	TMPBOIL	OP-UA6	60Dc-1	PM	40 CFR Part 60, Subpart Dc	§60.40c(a)
1	TMPBOIL	OP-UA6	60Dc-1	SO2	40 CFR Part 60, Subpart Dc	§60.40c(a)
1	TMPBOIL	OP-UA6	60Dc-1	PM (Opacity)	40 CFR Part 60, Subpart Dc	§60.40c(a)

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Applicable Form			Name	Standard(s)
1	TMPBOIL	OP-UA6	R7410-3	NOX	30 TAC Chapter 117, Subchapter B	§117.410(a)(1)(C) [G]§117.403(c) §117.410(a), [G](e)(1), (e)(2) [G]§117.410(e)(3), (e)(4) §117.430(b), (b)(1) §117.440(j) §117.410(b)(2)
1	TMPBOIL	OP-UA6	R7410-3	CO	30 TAC Chapter 117, Subchapter B	§117.410(c)(1)|1 §117.440(j) §117.410(c)(1)(B) [G]§117.403(c)
1	TMPBOIL	OP-UA6	63DDDDD-2	HAPs	40 CFR Part 63, Subpart DDDDD	§63.7500(a)(1)-Table 3.3§63.7500(a)(1), (a)(3)§63.7505(a)§63.7540(a), [G](a)(10), (a)(13)

Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program
Table 1b: Additions

Date: 5/21/2025	**Regulated Entity No.:** RN100223585	**Permit No.:** O-1094
Company Name: Owens Corning Insulating Systems, LLC	**Area Name:** Waxahachie Plant	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
1	TMPBOIL	60Dc-1	PM	None	§60.48c(g)(1)-(3), (i)	[G]§60.48c(a)
1	TMPBOIL	60Dc-1	PM (Opacity)	None	§60.48c(g)(1)-(3), (i)	[G]§60.48c(a)
1	TMPBOIL	R7410-3	NOX	§117.435(a)(1), (a)(3), (b) §117.440(k)(1) §117.435(d) §117.435(e), (e)(2) §117.8000(b)-(c), (c)(1), (c)(3) §117.8000(c)(5)-(6), [G](d) §117.440(a) §117.440(k)(2)	§117.445(a), (f), (f)(8) §117.445(f)(1)	§117.435(f) §117.445(b), [G](c) §117.8010, [G](1), (2), (2)(A)-(D) [G]§117.8010(3), (4), [G](5) §117.8010(6), [G](7)
1	TMPBOIL	R7410-3	CO	§117.435(a)(1), (a)(3), (b) §117.435(d) §117.8000(b)-(c), (c)(2) §117.8000(c)(3), (c)(5)-(6) [G]§117.8000(d) §117.440(a)	§117.445(a), (f), (f)(8) §117.445(f)(1)	§117.435(f) §117.445(b), [G](c) §117.8010, [G](1), (2), (2)(A)-(B) [G]§117.8010(3), (4), [G](5) §117.8010(6), [G](7)

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
1	TMPBOIL	63DDDDD-2	HAPs	§63.7515(d)[G]§63.7521(f)-(g), (h)-(i)§63.7530(g)§63.7540(a), [G](a)(10), [G](c) §63.7510(g)	§63.7555(a), (a)(1)-(2), (g)-(h)§63.7560(a)-(c)	[G]§63.7521(g)§63.7530(e), (f)§63.7545(a)-(c), [G](e)-(f)§63.7550(a), [G](b)-(c), [G](h)

ATTACHMENT 6

Permit by Rule Supplement Table (OP-PBRSUP)

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 1)

Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number
5/21/2025	O-1094	RN100223585

Unit ID	Registration Number	PBR No.	Registration Date
3	45087	106.262	08/18/2000
30	78155	106.472	03/24/2006
85	84393	106.371	04/10/2008
02FAB	113627	106.262	11/07/2013
11	162524	106.261	09/25/2020
11	162524	106.262	09/25/2020
53	162525	106.418	05/19/2021

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 2)

Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number
5/21/2025	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date
07USST	106.472	09/04/2000
07UPST	106.472	09/04/2000
07REST1	106.472	03/14/1997
07BOST	106.473	03/14/1997
07WOST	106.473	03/14/1997
07ASST	106.472	03/14/1997
72DIE_A	106.472	09/04/2000
72DIE_B	106.472	09/04/2000
73GAS	106.473	03/14/1997
07FOST	106.472	09/04/2000
07WWST	106.472	09/04/2000
09DYE	106.472	09/04/2000
Small Tanks and Totes	106.472	09/04/2000
09REST3	106.472	09/04/2000
347	106.532	09/04/2000
09ADST1	106.472	03/14/1997
09ADST2	106.472	03/14/1997
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000
76	106.472	09/04/2000
443	106.472	09/04/2000
63	106.371	03/14/1997
64	106.371	03/14/1997
65	106.371	03/14/1997
66	106.371	03/14/1997
67	106.371	03/14/1997
49	106.183	09/04/2000
13NBOIL	SE 7	11/05/1986
13SBOIL	SE 7	11/05/1986
TMPBOIL	106.183	09/04/2000
HWBUV1	106.511	03/14/1997
FWCBUV1	106.511	03/14/1997
FWCBUV2	106.511	03/14/1997
FWCBUV3	106.511	03/14/1997
CWBU	106.511	09/04/2000
PCWSBU	106.511	03/14/1997
PCWSBU2	106.511	09/04/2000
HWBUV2	106.511	03/14/1997
HWBUV3	106.511	03/14/1997
Sandblasters	106.452	03/14/1997
Welding	106.227	09/04/2000
Water Treatment Chemicals	106.371	09/04/2000
Safety Kleen Stations	106.454	11/01/2001
Chiller Systems	106.373	03/14/1997
Site_MSS	106.263	11/01/2001
Hand held Machines	106.265	09/04/2000

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 3)

Table C: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area

Date	Permit Number	Regulated Entity Number
5/21/2025	O-1094	RN100223585

PBR No.	Version No./Date
106.453	09/04/2000
106.122	03/14/1997

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 4)

Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number
5/21/2025	O-1094	RN100223585

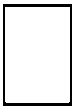
Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
3	106.262	08/18/2000	Record annual throughput of sodium sulfate and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
30	106.472	03/24/2006	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
85	106.371	04/10/2008	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
02FAB	106.262	11/07/2013	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.261	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.262	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
53	106.418	05/19/2021	Record annual ink and solvent usage and use underlying emission calculation methods to determine actual emissions
07USST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07UPST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
07REST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07BOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07ASST	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_A	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_B	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
73GAS	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07FOST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WWST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09DYE	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Small Tanks and Totes	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09REST3	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
347	106.532	09/04/2000	Record annual hours of operation.
09ADST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09ADST2	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
76	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
443	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
63	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
64	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
65	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
66	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
67	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
49	106.183	09/04/2000	Record annual fuel usage and use underlying emission factors to calculate emissions and demonstrate compliance with PBR limits
13NBOIL	SE 7	11/05/1986	Record annual fuel usage
13SBOIL	SE 7	11/05/1986	Record annual fuel usage
TMPBOIL	106.183	09/04/2000	Record annual fuel usage
HWBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV2	106.511	03/14/1997	Record annual hours of operation
FWCBUV3	106.511	03/14/1997	Record annual hours of operation
CWBU	106.511	09/04/2000	Record annual hours of operation
PCWSBU	106.511	03/14/1997	Record annual hours of operation
PCWSBU2	106.511	09/04/2000	Record annual hours of operation
HWBUV2	106.511	03/14/1997	Record annual hours of operation
HWBUV3	106.511	03/14/1997	Record annual hours of operation
Sandblasters	106.452	03/14/1997	Maintain operating hours and abrasive material usage on annual basis
Welding	106.227	09/04/2000	Record annual usage of weld rods and lead content for maintenance activities to ensure 0.6 tpy emission limit for lead is met
Water Treatment Chemicals	106.371	09/04/2000	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
Safety Kleen Stations	106.454	11/01/2001	Record annual usage of solvent
Chiller Systems	106.373	03/14/1997	Maintain documentation of refrigeration chemical

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
Site_MSS	106.263	11/01/2001	Record details of maintenance activities for baghouse filter repacement, solvent/lubricant usage, vacuum trucks, and boiler maintenance and use the underlying emission calculations to demonstrate compliance with 24-hour emission limits. The details to be recorded include: - Type and reason for the activity - Process and equipment involved - Material usage - Date, time, and duration of the activity - Air contaminants and amounts emitted as a result of the activity
Hand held Machines	106.265	09/04/2000	Annual hours of grinding operations

TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Savannah Quiros
Sent: Thursday, February 27, 2025 2:32 PM
To: Kate Gross <KGross@trinityconsultants.com>
Cc: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Mitchell McBrayer <Mitchell.McBrayer@trinityconsultants.com>; Brandon McBride <Brandon.McBride@trinityconsultants.com>
Subject: RE: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

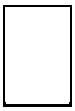
Hi Kate,

Thank you for reaching out! I am currently working with my team leader and technical specialist regarding monitoring requirements for some of your units. I don't need anything from you at this time, but I will let you know when/if I do. I'm hoping to get another draft permit to you soon with those changes.

Sincerely,

Savannah G. Quiros
(they/them/theirs)
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Wednesday, February 26, 2025 12:26 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Mitchell McBrayer

<Mitchell.McBrayer@trinityconsultants.com>; Brandon McBride
<Brandon.McBride@trinityconsultants.com>
Subject: Follow-up on Owens Corning Title V Renewal - Permit No. 1094 / Project No. 35476

Savannah,

We wanted to reach out to ask about the status of the Owens Corning Title V renewal draft permit (Permit No. 1094/Project No. 35476).

Thanks,
Kate

Kate Gross
Principal Consultant | Manager of Consulting Services – Salt Lake City

P 385.509.4478 M 214.405.1598
Email: kgross@trinityconsultants.com
4525 Wasatch Blvd, Suite 200, Salt Lake City, Utah 84124



Connect with us: LinkedIn / YouTube / trinityconsultants.com
View our capabilities in the Environmental Consulting, Built Environment, Life Sciences, and Water & Ecology markets.

The information contained in this communication and its attachment(s) is intended only for the use of the individual to whom it is addressed and
may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient,
you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify postmaster@owenscorning.com and delete the communication without retaining any copies. Thank you.

Translations available: https://www.owenscorning.com/en-us/roofing/emailfooter

From: Brandon McBride <Brandon.McBride@trinityconsultants.com>
Sent: Tuesday, December 17, 2024 9:48 AM
To: Savannah Quiros
Cc: Teneng(Fuoching), Chiajo; Kate Gross
Subject: RE: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842
Attachments: OP-MON_Revised 2024-1216.pdf

Savannah,

Please see our responses in blue to your questions below. OP-MON forms for applicable units are attached.

- 01MELT – pollutant: CO – Please refer to the attached OP-MON for your review.
- 02MELT - pollutant: CO – 02MELT is an electric melter that does not emit CO. Similarly, there are no CO emissions associated with EPNs [19, 20] on the New source review (NSR) permit maximum allowable emission rate table (MAERT). Therefore, we did not include an OP-MON.
- 03MELT - pollutant: CO – 03MELT is an electric melter that does not emit CO. Similarly, there are no CO emissions associated with EPNs [38, 39] on the NSR permit MAERT. Therefore, we did not include an OP-MON.
- GRP-BOIL – pollutants: CO and NOX – Please refer to the attached OP-MON for your review.

Please let us know if you need anything else!

Thanks,
Brandon

Brandon McBride
Consultant
Email: brandon.mcbride@trinityconsultants.com
P 972.661.8100 M 713.775.1463 (preferred)

12700 Park Central Dr, Ste 600 Dallas, TX 75251

Stay current on environmental issues. Subscribe today to receive Trinity's free *Environmental Quarterly*.
Learn about Trinity's courses for environmental professionals.

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Thursday, December 5, 2024 3:53 PM
To: Brandon McBride <Brandon.McBride@trinityconsultants.com>
Cc: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 3)
Federal Operating Permit Program
Table 1c: CAM/PM Case-By-Case Additions

I. Identifying Information		
Account No.: **ED-0051-O**	RN No.: **RN100223585**	CN: **CN603159088**
Permit No.: **1094**	Project No.: **31126**	
Area Name: **Waxahachie Plant**		
Company Name: **Owens Corning Insulating Systems, LLC**		
II. Unit/Emission Point/Group/Process Information		
Revision No.:		
Unit/EPN/Group/Process ID No.: **01MELT**		
Applicable Form: **OP-UA5**		
III. Applicable Regulatory Requirement		
Name: **30 TAC Chapter 117, Subchapter B**		
SOP/GOP Index No.: **R7410-1**		
Pollutant: **CO**		
Main Standard: **§117.410(c)(1)**		
Monitoring Type: **PM**		
Unit Size:		
Deviation Limit: **CO emissions must not exceed 400 ppmv at 3.0% O2 , dry basis**		
IV. Control Device Information		
Control Device ID No.:		
Device Type:		
V. CAM Case-by-case		
Indicator:		
Minimum Frequency:		
Averaging Period:		
QA/QC Procedures:		
Verification Procedures:		
Representative Date:		
VI. Periodic Monitoring Case-by-case		
Indicator: **Monthly fuel usage**	Minimum Frequency: **Monthly**	
Averaging Period: **N/A**		
Periodic Monitoring Text: **Measure and record monthly fuel consumption (MCF). Once a month, CO**		

I. Identifying Information
emissions shall be corrected/calculated in units of ppmv at 3% O2 (using a calculated exhaust flow rate) based on the monthly fuel usage and CO emission factor of 3.742 lb CO/MMCF natural gas. If the calculation results in a value greater than the regulatory limit, a deviation will have occurred and will be reported.

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 3)
Federal Operating Permit Program
Table 1c: CAM/PM Case-By-Case Additions

I. Identifying Information		
Account No.: **ED-0051-O**	RN No.: **RN100223585**	CN: **CN603159088**
Permit No.: **1094**	Project No.: **31126**	
Area Name: **Waxahachie Plant**		
Company Name: **Owens Corning Insulating Systems, LLC**		
II. Unit/Emission Point/Group/Process Information		
Revision No.:		
Unit/EPN/Group/Process ID No.: **GRP-BOIL**		
Applicable Form: **OP-UA6**		
III. Applicable Regulatory Requirement		
Name: **30 TAC Chapter 117, Subchapter B**		
SOP/GOP Index No.: **R7410-3**		
Pollutant: **CO**		
Main Standard: **§117.410(c)(1)**		
Monitoring Type: **PM**		
Unit Size:		
Deviation Limit: **CO emissions must not exceed 400 ppmv at 3.0% O2 , dry basis**		
IV. Control Device Information		
Control Device ID No.:		
Device Type:		
V. CAM Case-by-case		
Indicator:		
Minimum Frequency:		
Averaging Period:		
QA/QC Procedures:		
Verification Procedures:		
Representative Date:		
VI. Periodic Monitoring Case-by-case		
Indicator: **CO**	Minimum Frequency: **Quarterly**	
Averaging Period: **N/A**		
Periodic Monitoring Text: **Measure and record the carbon monoxide concentration using a**		

I. Identifying Information
portable analyzer. The portable analyzer shall be operated in accordance with the Environmental Protection Agency's, Office of Air Quality Planning & Standards, Emission Measurement Center Conditional Test Method Determination of Oxygen, Carbon Monoxide, and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure) [CTM-034] (September 8, 1999). Any monitoring data above the maximum limit shall be considered and reported as a deviation.

Texas Commission on Environmental Quality
Monitoring Requirements
Form OP-MON (Page 3)
Federal Operating Permit Program
Table 1c: CAM/PM Case-By-Case Additions

I. Identifying Information		
Account No.: **ED-0051-O**	RN No.: **RN100223585**	CN: **CN603159088**
Permit No.: **1094**	Project No.: **31126**	
Area Name: **Waxahachie Plant**		
Company Name: **Owens Corning Insulating Systems, LLC**		
II. Unit/Emission Point/Group/Process Information		
Revision No.:		
Unit/EPN/Group/Process ID No.: **GRP-BOIL**		
Applicable Form: **OP-UA6**		
III. Applicable Regulatory Requirement		
Name: **30 TAC Chapter 117, Subchapter B**		
SOP/GOP Index No.: **R7410-3**		
Pollutant: **NO_X**		
Main Standard: **§117.410(a)(1)(C)**		
Monitoring Type: **PM**		
Unit Size:		
Deviation Limit: **NO_X emissions must not exceed 30 ppmv at 3.0% O2 , dry basis**		
IV. Control Device Information		
Control Device ID No.:		
Device Type:		
V. CAM Case-by-case		
Indicator:		
Minimum Frequency:		
Averaging Period:		
QA/QC Procedures:		
Verification Procedures:		
Representative Date:		
VI. Periodic Monitoring Case-by-case		
Indicator: **NO_X**	Minimum Frequency: **Quarterly**	
Averaging Period: **N/A**		
Periodic Monitoring Text: **Monitor and record the nitrogen oxide concentration in the exhaust stream**		

I. Identifying Information
using a portable analyzer to monitor nitrogen oxide. The portable analyzer shall be operated in accordance with the Environmental Protection Agency's, Office of Air Quality Planning & Standards, Emission Measurement Center Conditional Test Method - Determination of Oxygen, Carbon Monoxide, and Oxides of Nitrogen from Stationary Sources For Periodic Monitoring (Portable Electrochemical Analyzer Procedure) [CTM-034] (September 8, 1999). NOx emissions shall be corrected/calculated in units of the underlying applicable emission limitation (ppmv @ 3% O2, dry basis).

Hi all,

Thank you for checking in! It has been brought to my attention that the draft permit is missing periodic monitoring for a few units:

- 01MELT – pollutant: CO
- 02MELT - pollutant: CO
- 03MELT - pollutant: CO
- GRP-BOIL – pollutants: CO and NOX

Please send OP-MONS for the above units and pollutants by ***12/18/2024***.

Sincerely,

Savannah G. Quiros
(they/them/theirs)
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400

How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Brandon McBride <Brandon.McBride@trinityconsultants.com>
Sent: Tuesday, December 3, 2024 10:39 AM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842

Hi Savannah,

We wanted to check in on the status of the Title V permit renewal. Is anything else needed at this time to complete the review?

Thanks,
Brandon

Brandon McBride
Consultant

From: Brandon McBride <Brandon.McBride@trinityconsultants.com>
Sent: Wednesday, November 13, 2024 4:50 PM
To: Savannah Quiros
Cc: Teneng(Fuoching), Chiajo; Kate Gross
Subject: RE: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842
Attachments: OP-UA2 Updated 2024-1113.pdf

Savannah,

Please see the updated OP-UA2 form for your review. Please let us know if you need anything else.

Thanks,
Brandon

Brandon McBride
Consultant
Email: brandon.mcbride@trinityconsultants.com
P 972.661.8100 M 713.775.1463 (preferred)

12700 Park Central Dr, Ste 600 Dallas, TX 75251

Stay current on environmental issues. Subscribe today to receive Trinity's free *Environmental Quarterly*.
Learn about Trinity's courses for environmental professionals.

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Wednesday, November 13, 2024 12:17 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Brandon McBride <Brandon.McBride@trinityconsultants.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>
Subject: RE: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842

Savannah,

We received information from the plant yesterday afternoon for this engine. We are in the process of updating the OP-UA2 form and should have to you soon once approved by Owens Corning.

Thanks,
Kate

Kate Gross
Principal Consultant
P 972.661.8100 M 214.405.1598

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 11)
Federal Operating Permit Program
Table 5b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
11/13/2024	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Diesel	AES No.	Displacement	Generator Set	Model Year	Install Date
CWBU	**60IIII-1**	**DIESEL**		**10-**		**2017+**	
PCWSBU2	**60IIII-1**	**DIESEL**		**10-**		**2011**	

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 12)
Federal Operating Permit Program
Table 5c: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
11/13/2024	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Kilowatts	Filter	AECD	Standard	Compliance Option	PM Compliance	Options
CWBU	**60IIII-1**	**E560-2237**		**NO**	**YES**	**MANU YES**		
PCWSBU2	**60IIII-1**	**E560-2237**		**NO**	**YES**	**MANU YES**		

12700 Park Central, Suite 600, Dallas, TX 75251
Email: kgross@trinityconsultants.com
LinkedIn: https://www.linkedin.com/in/kate-gross-2277b85/

Connect with us: LinkedIn / Facebook / Twitter / YouTube / trinityconsultants.com

---

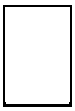
From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, November 13, 2024 9:47 AM
To: Kate Gross <KGross@trinityconsultants.com>
Subject: RE: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842

Good morning Kate,

Just wanted to check in and see if you had any updates on this? Thanks!

Sincerely,

Savannah G. Quiros
(they/them/theirs)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Savannah Quiros
Sent: Wednesday, November 6, 2024 3:19 PM
To: Kate Gross <KGross@trinityconsultants.com>
Subject: RE: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842

Hi Kate,

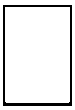
I'm hoping to get the revised draft permit to you within the next two weeks. This should be the last document I need from Owens Corning to finish the revised permit:

- OP-UA2 Page 12 – Please fill out page 12 for Unit IDs CWBU and PCWSBU2 (because the models are post-2007 models and have displacements of less than 10 liters per cylinder, I need page 12 as well).

I'll let you know if anything changes. Please email the updated UA form when you can.

Sincerely,

Savannah G. Quiros
(they/them/theirs)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Wednesday, November 6, 2024 12:06 PM
To: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Brandon McBride <Brandon.McBride@trinityconsultants.com>
Subject: RE: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842

Hello Savannah,

We wanted to reach out to check in on the status of the Title V permit renewal. As we approach the holiday season, what's your timeline for providing the revised draft permit conditions for review?

Thanks,
Kate

Kate Gross
Principal Consultant
P 972.661.8100 M 214.405.1598

Trinity Consultants

12700 Park Central, Suite 600, Dallas, TX 75251
Email: kgross@trinityconsultants.com
LinkedIn: https://www.linkedin.com/in/kate-gross-2277b85/

Connect with us: LinkedIn / Facebook / Twitter / YouTube / trinityconsultants.com

---

From: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>
Sent: Thursday, October 31, 2024 11:26 AM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Kate Gross <KGross@trinityconsultants.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Subject: RE: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842

From: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>
Sent: Thursday, October 31, 2024 12:26 PM
To: Savannah Quiros
Cc: Kate Gross; Desloges, Jacquelyn
Subject: RE: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842
Attachments: 6093_373842_Permit Face_7310961.docx;
6093_373842_Approval_7310962.docx;
6093_373842_Conditions_7310965.docx;
6093_373842_MAERT_7310964.docx

Good afternoon Savannah,

I just wanted to make sure you were aware that the final NSR permit 6093 was issued on 10/10/24. Copy attached.

Thanks,

CJ Teneng
Environmental Lead
Waxahachie Plant
P: 972-923-4396 | **M:** 404-955-6948
chiajo.teneng@owenscorning.com

TM & © 2022 MGM

INSULATION
3700 N INTERSTATE 35 EAST
WAXAHACHIE, TX 75165
www.owenscorning.com

From: ElecRsp <ElecRsp@tceq.texas.gov>
Sent: Thursday, October 10, 2024 8:25 AM
To: Radut, Lucian <Lucian.Radut@owenscorning.com>
Cc: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; kgross@trinityconsultants.com; William Moody <William.Moody@tceq.texas.gov>
Subject: 6093 - Approval - Owens Corning Insulating Systems LLC - 373842

Some people who received this message don't often get email from elecrsp@tceq.texas.gov. Learn why this is important

Please see attached documents.

Texas Commission on Environmental Quality
Air Permits Division
(512) 239-1250

The information contained in this communication and its attachment(s) is intended only for

the use of the individual to whom it is addressed and
may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient,
you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this
communication in error, please notify postmaster@owenscorning.com and delete the communication without retaining any copies. Thank you.

Translations available: https://www.owenscorning.com/en-us/roofing/emailfooter

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 10, 2024

MR LUCIAN RADUT
PLANT LEADER
OWENS CORNING INSULATING SYSTEMS LLC
3700 N IH 35 E
WAXAHACHIE TX 75165-6607

Re: Permit Amendment
Permit Number: 6093
Expiration Date: November 16, 2030
Owens Corning Insulating Systems, LLC
Wool Fiberglass Manufacturing Facility
Waxahachie, Ellis County
Regulated Entity Number: RN100223585
Customer Reference Number: CN603159088

Dear Mr. Radut:

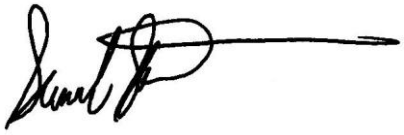
Owens Corning Insulating Systems, LLC has requested an amendment to Permit Number 6093. This letter serves as notice that your application for the above-referenced permit is technically complete as of October 7, 2024.

In accordance with Title 30 Texas Administrative Code (TAC) §116.116(b) and §116.160, Permit Number 6093 is hereby amended. Enclosed are revised general conditions, special conditions, and a maximum allowable emission rates table.

Re: Permit Number: 6093

If you need further information or have any questions, please contact Mr. Bill Moody at (512) 239-1859 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,



Samuel Short, Deputy Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Enclosure

cc: Kate Gross, Trinity Consultants, Dallas
Air Section Manager, Region 4 - Dallas/Fort Worth

Project Number: 373842

Texas Commission on Environmental Quality
Air Quality Permit

A Permit Is Hereby Issued To
Owens Corning Insulating Systems, LLC
Authorizing the Construction and Operation of
Wool Fiberglass Manufacturing Facility
Located at **Waxahachie, Ellis County, Texas**
Latitude 32.440833 Longitude -96.848333

Permit: 6093
Amendment Date: October 10, 2024
Expiration Date: November 16, 2030

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] [1]
2. **Voiding of Permit**. A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of $5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress**. Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification**. The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements**. If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates**. The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] [1]
9. **Maintenance of Emission Control**. The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC § 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC § 116.115(b)(2)(G)]
10. **Compliance with Rules**. Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) § 382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

[1] Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
°F = Temperature in degrees Fahrenheit
°K = Temperature in degrees Kelvin
µg = microgram
µg/m^3 = microgram per cubic meter
acfm = actual cubic feet per minute
AMOC = alternate means of control
AOS = alternative operating scenario
AP-42 = Air Pollutant Emission Factors, 5th edition
APD = Air Permits Division
API = American Petroleum Institute
APWL = air pollutant watch list
BPA = Beaumont/ Port Arthur
BACT = best available control technology
BAE = baseline actual emissions
bbl = barrel
bbl/day = barrel per day
bhp = brake horsepower
BMP = best management practices
Btu = British thermal unit
Btu/scf = British thermal unit per standard cubic foot or feet
CAA = Clean Air Act
CAM = compliance-assurance monitoring
CEMS = continuous emissions monitoring systems
cfm = cubic feet (per) minute
CFR = Code of Federal Regulations
CN = customer ID number
CNG = compressed natural gas
CO = carbon monoxide
COMS = continuous opacity monitoring system
CPMS = continuous parametric monitoring system
DFW = Dallas/ Fort Worth (Metroplex)
DE = destruction efficiency
DRE = destruction and removal efficiency
dscf = dry standard cubic foot or feet
dscfm = dry standard cubic foot or feet per minute
ED = (TCEQ) Executive Director
EF = emissions factor
EFR = external floating roof tank
EGU = electric generating unit
EI = Emissions Inventory
ELP = El Paso
EPA = (United States) Environmental Protection Agency
EPN = emission point number
ESL = effects screening level
ESP = electrostatic precipitator
FCAA = Federal Clean Air Act
FCCU = fluid catalytic cracking unit
FID = flame ionization detector
FIN = facility identification number
ft = foot or feet
ft/sec = foot or feet per second
g = gram
gal/wk = gallon per week
gal/yr = gallon per year
GLC = ground level concentration
GLC_{max} = maximum (predicted) ground-level concentration
gpm = gallon per minute
gr/1000scf = grain per 1000 standard cubic feet
gr/dscf = grain per dry standard cubic feet
H_2CO = formaldehyde
H_2S = hydrogen sulfide
H_2SO_4 = sulfuric acid
HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
HC = hydrocarbons
HCl = hydrochloric acid, hydrogen chloride
Hg = mercury
HGB = Houston/Galveston/Brazoria
hp = horsepower
hr = hour
IFR = internal floating roof tank
in H_2O = inches of water
in Hg = inches of mercury
IR = infrared
ISC3 = Industrial Source Complex, a dispersion model
ISCST3 = Industrial Source Complex Short-Term, a dispersion model
K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
LACT = lease automatic custody transfer
LAER = lowest achievable emission rate
lb = pound
lb/day = pound per day
lb/hr = pound per hour
lb/MMBtu = pound per million British thermal units
LDAR = Leak Detection and Repair (Requirements)
LNG = liquefied natural gas
LPG = liquefied petroleum gas
LT/D = long ton per day
m = meter
m^3 = cubic meter
m/sec = meters per second
MACT = maximum achievable control technology
MAERT = Maximum Allowable Emission Rate Table
MERA = Modeling and Effects Review Applicability
mg = milligram
mg/g = milligram per gram
mL = milliliter
MMBtu = million British thermal units
MMBtu/hr = million British thermal units per hour
MSDS = material safety data sheet
MSS = maintenance, startup, and shutdown
MW = megawatt
NAAQS = National Ambient Air Quality Standards
NESHAP = National Emission Standards for Hazardous Air Pollutants
NGL = natural gas liquids
NNSR = nonattainment new source review
NO_x = total oxides of nitrogen
NSPS = New Source Performance Standards

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ = particulate matter equal to or less than 2.5 microns in diameter
PM_{10} = total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO_2 = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system

Special Conditions

Permit Number 6093

Emission Limitations

1. This permit authorizes those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission rates and other conditions specified in the table. In addition, this permit authorizes all emissions from planned startup and shutdown activities associated with facilities or groups of facilities that are authorized by this permit. **(10/24)**

Federal Applicability

2. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources in Title 40 Code of Federal Regulations (40 CFR) Part 60, specifically the following:

   A. Subpart A - General Provisions; and

   B. Subpart Kb - Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

3. These facilities shall comply with all applicable requirements of the EPA Regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63, specifically the following:

   A. Subpart A - General Provisions;

   B. Subpart NNN - Wool Fiberglass Manufacturing (when the phenol/formaldehyde-based binder is in use);

   C. Subpart JJJJ - Paper and Other Web Coating;

   D. Subpart ZZZZ - Reciprocating Internal Combustion Engines; and

   E. Subpart DDDDD - Industrial, Commercial, and Institutional Boilers and Process Heaters.

Furnace Specifications

4. The operation of the furnaces shall be limited to the following maximum glass pull rates: **(10/24)**

Table 1: Furnace Operational Limitations

Furnace	Fuel	Hourly Glass Pull Rate (tons/hour)	Annual Glass Pull Rate (tons/year)
V-1	OxyFuel	5	43,800
V-2	Electric heat	6.875	60,225
V-3	Electric heat	6.875	60,225

Opacity/Visible Emission Limitations

5. Opacity of particulate matter emissions from the sources listed in the table below shall not exceed the associated opacity percentage. Determination of compliance with this requirement shall be made by first observing for visible emissions during normal plant operations. Observations shall be made at least 15 feet and no more than 0.25 miles from the emission point. If visible emissions are observed from the emission point, opacity shall be determined using the U.S. EPA 40 CFR Part 60, Appendix A, Test Method 9. Contributions from uncombined water vapor shall not be included in determining compliance with this condition. Determination of compliance with this requirement shall be performed and the results recorded quarterly. **(6/21)**

Table 2: Opacity Limitations

EPN	Opacity (percent)
601, 602, 7, 444, 26, 50, 53, 445, 36, 37, 51, 54, 17	5
3, 11	10
10, 22, 40, 19, 20, 38, 39	15
6, 13, 55, 23, 56, 41	20

6. Opacity greater than 20 percent from EPN 6 is authorized when the permit holder complies with the maintenance duration limitation and source shutdown requirements in Special Condition No. 21.A. for the Dry Electrostatic Precipitator (DEP). For periods of maintenance other than those authorized by Special Condition No. 21.A., 30 Texas Administrative Code (30 TAC) §111.111, 111.151, and Chapter 101, Subchapter F shall apply.

7. Visible fugitive emissions from process buildings and raw material storage buildings shall not leave the property for more than 30 cumulative seconds in any six-minute period.

Operational Limitations and Work Practices

8. All in-plant roads, truck loading and unloading areas, parking areas, and other traffic areas shall be sprinkled with water, and/or be treated with effective dust suppressant(s), and/or be paved (with a cohesive hard surface) and cleaned as necessary to maintain compliance with all Texas Commission on Environmental Quality (TCEQ) rules and regulations.

9. A dry electrostatic precipitator, properly installed and in good working order, shall control particulate matter (PM) emissions from the V-1 Furnace (EPN 3).

10. The DEP dust shall be collected in enclosed and/or covered containers. There shall be no outside storage DEP dust unless in sealed containers.

11. The V-1 Furnace Dry Electrostatic Precipitator Bypass Stack (EPN 6) shall only be used as a bypass when the DEP is not operational. Bypassing due to DEP downtime for planned maintenance shall be limited to a maximum of 144 hours per year.

12. The facility shall not be authorized to increase emissions of ammonia through Permit-By-Rule (PBR) or future permitting actions. Any proposed adjustments in ammonia emission rates shall result in either no increase or a reduction of hourly and annual ammonia emission rates.

13. When the thermosetting resin binder is in use, the curing ovens' exhaust gas incinerators that are associated with the V-1, V-2, and V-3 Mixing Chambers (EPNs 10, 22, and 40) shall have an overall VOC destruction efficiency of at least 98 percent.

14. The holder of this permit shall permanently shutdown the following sources upon the complete and permanent removal of the use of the phenol-formaldehyde binder:

Table 3: Sources to be Permanently Shutdown

Unit or Operation	EPN
Existing Resin Storage Tank	18
Three (3) Existing Binder Circulation Tanks	17
Three (3) Existing Binder Mix Tanks	17
Resin Urea Pre-Mix Tank	17
Resin Urea Circulation Tank	17
Ammonium Sulfate Mix Tank	17
Ammonium Sulfate Circulation Tank	17
Urea Premix Tank	45
Urea Supply Tank	34
Resin Unloading Tank	29
Aqueous Ammonia Storage Tank	32
HWWS Supply Tank No. 2	347
Binder Reclaim Water Tank	347
Existing Resin Storage Tank	35
Existing Resin Storage Tank	17
HWWS Supply Tank No. 1	347

15. Approval of this amendment relies upon the holder of this permit providing records to adequately demonstrate that changes in actual VOC emissions should not have and will not exceed the 40 ton per year significance threshold for Prevention of Significant Deterioration (PSD). The holder of this permit shall record and calculate the actual VOC emissions from the V-1, V-2, and V-3

manufacturing lines (EPNs 10, 13, 22, 23, 55, 40, 41, and 56) to demonstrate that the combined total annual emissions remain below 157.34 tons/year.

16. The site-wide ink usage rate from emission sources authorized in this permit shall be limited to a maximum of 10,209 gallons per year. **(10/24)**

17. Glue used in the Retail Roll Hot Melt Glue System shall not contain VOC.

18. Sodium nitrate shall not be used as a raw material in batch formulations for the V-1, V-2, and V-3 manufacturing lines.

Material Flexibility

19. In addition to phenol formaldehyde based binder, thermosetting resin binder, raw material oxides, and metal oxides, the use of new materials or products that meet all of the following sub-conditions are allowed**.** Pollutants from categories of air pollutants not currently authorized on the MAERT cannot be authorized using this special condition. This special condition does not authorize the use of any chlorinated or fluorinated compound when emissions are routed to a thermal control device. **(10/24)**

    A. All the ingredients of the new material are known; i.e., the weight percentages of the ingredients add to 100 percent or more.

    B. The maximum hourly (short-term) or annual emission rates from new or existing air contaminant ingredients (aka air contaminants) shall not cause any increases in the short-term or annual emission rates as listed on the MAERT.

    C. Emissions from the new material shall only be from the emission points represented in the table provided in paragraph G(2) of this special condition.

    D. Any air contaminant in the new material is exempt from paragraphs E through H of this special condition if the air contaminant is currently authorized under this permit and the proposed emission rate from each EPN is less than or equal to the authorized emission rate from the same EPN.

    E. Any air contaminant in the new material is exempt from paragraphs F through H of this special condition if:

        (1) The air contaminant is a particulate and no specific short-term effects screening level (ESL) is included in the most current set of ESLs available through the TCEQ Toxicity Factor Database (must meet NAAQS); or

        (2) The air contaminant is not included in the most current set of ESLs available through the TCEQ Toxicity Factor Database.

        If the compound is not on the current ESL list and does not belong to a category of compounds on the list, the permit holder shall request confirmation from the Toxicology Division that an ESL need not be created for authorization through this condition. If the Toxicology Division determines that an ESL is not required under this condition, confirmation that no ESL is required shall be kept on file by the applicant.

    F. Any air contaminant in the new material is exempt from paragraphs G and H of this special condition if:

(1) it is emitted at a rate and has a short-term ESL and an annual ESL as stated in the following table; or

Table 4: Rates and ESLs for Exemption

Emission Rate (lbs/hr)	Short-term ESL (µg/m^3)	Annual ESL (µg/m^3)
≤ 0.04	≥ 2 and < 500	≥ 0.2 and < 50
≤ 0.10	≥ 500 and < 3,500	≥ 50 and < 350
≤ 0.40	≥ 3,500	≥ 350

(2) it is not sprayed and it has at least one of the following physical characteristics:

(a) a vapor pressure less than 0.01 mm Hg (0.0002 psi) at 68°F;

(b) a boiling point at atmospheric pressure that is above 400°F (204°C), provided the compound is not heated above room temperature in the process; or

(3) a molecular weight that is above 200 g/g-mol, provided the compound is not heated above room temperature in the process.

G. For all other new air contaminants or increases in existing air contaminants, the following procedure shall be completed to determine if the short-term impacts are acceptable.

(1) Determine the emission rate of each air contaminant including emissions of the same air contaminant (if an existing air contaminant) from the currently authorized materials that may be emitted at the same time from each emission point.

(2) Multiply the emission rate of the air contaminant by the unit impact multiplier for each emission point from the following table to determine the off-property impact Ground Level Concentration $(GLC)_{MAX}$ for each emission point.

Table 5: Unit Impact Multipliers

EPN	Short-Term Unit Impact Multiplier (µg/m^3 per lb/hr)	Long-Term Unit Impact Multiplier (µg/m^3 per lb/hr)
3	5.44	0.52
6	2.02	0.18
10	4.10	0.10
11	59.09	2.38
13	40.83	1.18
17	93.30	3.82
18	97.82	3.84
19	21.18	1.18
20	22.21	1.23
22	4.38	0.10
23	14.49	0.85
38	24.66	1.16

EPN	Short-Term Unit Impact Multiplier ($\mu g/m^3$ per lb/hr)	Long-Term Unit Impact Multiplier ($\mu g/m^3$ per lb/hr)
39	26.10	1.23
40	6.14	0.33
41	18.58	0.73
52	52.55	1.10
55	50.00	1.55
56	60.75	0.91
V-1 FUG (59)	29.69	2.38
V-1 FUG (246)	35.23	2.84
V-2 FUG (53)	26.00	1.93
V-2 FUG (60)	48.67	1.52
V-3 FUG (54)	31.24	1.58
V-3 FUG (359)	48.67	1.52
620	134.91	4.89
621	116.29	4.41

(3) Sum the impacts from each emission point/emission point group to determine a total short-term off-property impact (Total GLC_{MAX}) for the new or existing air contaminant.

(4) Compare the total short-term off-property impact to the short-term ESL for the air contaminant as shown below to determine if it is less than or equal to the ESL. If the total off-property impact exceeds the short-term ESL, then a permit amendment is required to authorize the emission rate for the air contaminant.

Total $GLC_{MAX} \leq ESL_{SHORT}$

Where:

Total GLC_{MAX} = The sum of the short-term GLCs from each emission point.

ESL_{SHORT} = The short-term ESL of the new or existing air contaminant from the most current set of ESLs available through the TCEQ Toxicity Factor Database and the date of the database retrieval or as specifically derived by the TCEQ Toxicology Division. The ESL shall be obtained in writing prior to the use of the new or increased air contaminant.

H. For all other new air contaminants or increases in existing air contaminants, the following procedure shall be completed to determine if the annual impacts are acceptable.

(1) Determine the annual emission rate (tpy) of each air contaminant including emissions of the same air contaminant (if an existing air contaminant) from the currently authorized materials that may be emitted at the same time from each emission point.

(2) Convert the annual emission rate to an hourly emission rate using 8760 hours per year and 2000 pounds per ton.

(3) Multiply the hourly emission rate (lb/hr) of the air contaminant determined in paragraph H(2) of this special condition by the Long-Term unit impact multiplier for each emission point from the table provided in paragraph G(2) of this special condition to determine the off-property impact (Annual GLC_{MAX}) for each emission point.

(4) Sum the annual impacts from each emission point to determine a total off-property annual impact (Annual GLC_{MAX}) for the new or existing air contaminant.

(5) Compare the annual off-property impact to the annual ESL for the air contaminant as shown below to determine if it is less than or equal to the ESL. If the annual off-property impact exceeds the annual ESL, then a permit amendment is required to authorize the emission rates for the air contaminant.

Annual $GLC_{MAX} \leq ESL_{ANNUAL}$

Where:

ESL_{ANNUAL} = The annual ESL of the new or existing air contaminant from the most current set of ESLs available through the TCEQ Toxicity Factor Database or as specifically derived by the TCEQ Toxicology Division.

Maintenance, Startup, and Shutdown (MSS) Events

20. The following MSS activities, which are planned and predictable and ensure the continuous normal operation of a facility or control device or return a facility or control device to normal operating conditions, are authorized:

A. Routine vendor-recommended maintenance on the DEP. DEP downtime during maintenance shall be limited to a maximum of 144 hours per year. The following sources shall be shutdown for the entire duration of the DEP downtime:

(1) V-1 Mixing Chamber Stack (EPN 10)

(2) V-1 Facing Oven/Flexographic Printing Stack (EPN 11)

(3) V-1 Cooling Section Exhaust Stack (EPN 13)

B. Overcoating of the V-2 and V-3 furnaces. Natural gas usage for the burners used during overcoating shall be limited to 500,000 standard cubic feet per year.

C. Changeout of the V-2 and V-3 forehearth electrodes. Site-wide natural gas usage for electrode changeout activities shall be limited to 90,000 standard cubic feet per year per line. **(6/21)**

D. Maintenance on the V-2 and V-3 batch chargers when using the overhead feeding system. During batch charger maintenance activities, overhead feeding shall be limited to 64 hours per year.

(1) Upon completion of the next scheduled re-bricking of the V-2 furnace, overhead feeding during batch charger maintenance shall be limited to coarse cullet.

(2) Upon completion of the next scheduled re-bricking of the V-3 furnace, overhead feeding during batch charger maintenance shall be limited to coarse cullet.

E. Routine maintenance on the V-1, V-2, and V-3 manufacturing lines including, but not limited to, replacing fiberizer chains and spinners in the V-1, V-2, and V-3 forming sections and cleaning out the cooling sections and smoke strippers when the line is down. Emissions from

these maintenance activities shall not exceed the allowable emission rates for normal operations.

F. Startup and shutdown of the V-2 and V-3 furnaces using pipeline-quality natural gas boost. Use of pipeline-quality natural gas boost during startup and shutdown shall be limited to 204 hours per year.

21. All maintenance activities shall be conducted to ensure compliance with the MAERT.

22. Entrained dust shall be allowed to settle prior to opening the control devices.

23. Upset conditions and the resulting emissions are not authorized by this permit.

24. No other maintenance activities are authorized by this permit.

Existing PBR/Standard Exemption Authorizations

25. As represented by the applicant, the following sources/operations are authorized by the associated PBR or Standard Exemption authorizations listed below:

Table 6: PBR or Standard Exemption Authorizations

Source/Operation	Registration Number	Standard Exemption (SE) or PBR Number
Cullet Water Cooling Tower (EPN 85)	84393	106.371
Asphalt Storage Tank (EPN 31)	N/A	106.472
Urea Solution Tank (EPN 34)	N/A	106.472
Urea Mix Tank (EPN 45)	N/A	106.472
Resin Storage Tank (EPN 29)	N/A	106.472
Resin Storage Tank (EPN 35)	N/A	106.472
MT Oil Storage Tank (EPN 33)	N/A	106.472
Adhesive Tank 1 (EPN 61)	N/A	106.472
Adhesive Tank 2 (EPN 62)	N/A	106.472
Equalization Basins (EPN 76)	N/A	106.472
Gas-Fired Boiler (North) (EPN 4)	N/A	SE007
Gas-Fired Boiler (South) (EPN 5)	N/A	SE007
Wash Water Surge Tank (EPN 28)	N/A	106.472
Wash Water Surge Tank (EPN 88)	N/A	106.472

Source/Operation	Registration Number	Standard Exemption (SE) or PBR Number
Addition of Sodium Sulfate (salt cake) as a new ingredient into the V-1 glass formulation	45087	106.262
Increase in the vacuum blower capacity for each one of the V-2 Line E-II Autobaggers	113627	106.262
Two adhesives for the V-1 manufacturing line	162524	106.261, 106.262
Addition of ink-jet printers in the V-2 paper pit on the V-2 manufacturing line	162525	106.418

Demonstration of Continuous Compliance

26. The holder of this permit shall demonstrate compliance with the MAERT and 40 CFR Part 60, by performing stack sampling and/or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere for the sources as listed below. Requests to waive testing for any pollutant specified in this condition shall be submitted in writing to the TCEQ Dallas/Fort Worth Regional Office and the TCEQ Office of Air, Air Permits Division.

    If a unit is taken out of service on or before the identified year for testing to be completed, the holder of this permit will perform testing as specified in this condition within 60 days of achieving the maximum glass pull rate at which the unit will be operated but not later than 180 days after startup. Stack testing for the sources listed in Table 7 shall be performed on a rotating basis every five years. V-1 Furnace/DEP Stack shall be tested once within 18 months, V-2 Furnace Dual Stacks to be tested once within 5 years, V-3 Furnace Dual Stacks to be tested once within 10 years, and Mixing Chamber Stacks to be tested once within 15 years of the date of this permit condition: **(10/24)**

Table 7: Sources to be Tested

Source	EPN	Air Contaminant*
V-1 Furnace/DEP Stack	3	PM, PM_{10}, $PM_{2.5}$, NO_x, total VOCs, SO_2, and CO
V-2 Furnace Dual Stacks	19 and 20	PM, PM_{10}, $PM_{2.5}$, NO_x, total VOCs, SO_2, and CO
V-3 Furnace Dual Stacks	38 and 39	PM, PM_{10}, $PM_{2.5}$, NO_x, total VOCs, SO_2, and CO
Mixing Chamber Stacks	10, 22, 40	PM, PM_{10}, $PM_{2.5}$, NO_x, total VOCs, SO_2, CO, and Ammonia

* PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter.
NO_x - nitrogen oxide

SO_2	-	sulfur dioxide
CO	-	carbon monoxide
total VOCs	-	volatile organic compounds

27. This sampling shall demonstrate that these units are achieving less than or equal to the applicable maximum allowable emission limits.

28. Total VOC, SO_2, PM, PM_{10}, $PM_{2.5}$, NO_x, and CO emissions shall be determined by appropriate U.S. EPA and/or TCEQ reference methods as approved, in writing, by the TCEQ Executive Director.

29. To determine compliance with the PM emission limit for the DEP, the following equation shall be used:

$$E = C \times Q \times K1$$

Where:

E = Emission rate of PM, lb/hour (hr);
C = Concentration of PM, grains (gr)/dry standard cubic feet (dscf);
Q = Volumetric flow rate of exhaust gases, dscf/hr; and
K1= Conversion factor, 1 lb/7,000 gr.

30. On and after the date on which the performance test required to be conducted by Special Condition No. 36 is completed, the DEP (EPN 3) shall be monitored according to the following requirements.

A. Prepare a written operations, maintenance, and monitoring plan. The plan must include the following information:

(1) Procedures for the proper operation and maintenance of the DEP used to meet the emission limits in the MAERT and Special Conditions; **(10/24)**

(2) Procedures for the proper operation and maintenance of monitoring devices used to determine compliance, including quarterly calibration and certification of accuracy of each monitoring device according to the manufacturer's instructions;

(3) Corrective actions taken when the DEP parameters deviate from the limit(s) established during initial performance tests. Exceedances/deviations are defined as any monitoring data that are less than 70 percent of the lowest value or greater than 130 percent of the highest value recorded during the most recent performance test;

(4) The DEP operating parameter(s) and the minimum and/or maximum value(s) that will be used to identify any operational problems;

(5) A schedule for monitoring the DEP operating parameter(s);

(6) Recordkeeping procedures to show that the DEP operating parameter(s) is within the limit(s) established during the performance test; and

(7) Procedures for the proper operation and maintenance of the DEP.

B. All DEP operating parameters established during the initial performance tests may be allowed to change if additional performance testing is conducted to verify that, at the new

DEP parameter levels, the DEP complies with the applicable emission limits in the MAERT and Special Conditions. Conduct all additional performance tests according to the procedures in the Special Conditions and 40 CFR Part 63, Subpart A, that are applicable to hot top glass furnaces equipped with PM control devices. **(10/24)**

31. The holder of this permit shall conduct a quarterly visible fugitive emissions determination to demonstrate compliance with the visible emissions limitation specified in this permit. This visible fugitive emissions determination shall be performed: 1) during normal plant operations, 2) for a minimum of six minutes, 3) approximately perpendicular to plume direction, 4) with the sun behind the observer (to the extent practicable), 5) at least 15 feet, but not more than 0.25 mile, from the plume, and 6) in accordance with EPA 40 CFR Part 60, Appendix A, Test Method 22, except where stated otherwise in this condition. If visible fugitive emissions leaving the property exceed 30 cumulative seconds in any six-minute period, the owner or operator shall take immediate action (as appropriate) to eliminate the excessive visible fugitive emissions. The corrective action shall be documented within 24 business hours of completion.

Sampling Requirements

32. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at their own expense. Sampling ports and platforms shall be incorporated into the design of the stacks according to the specifications set forth in the attachment entitled “Guidelines for Stack Sampling Facilities” prior to stack sampling. Alternate sampling facility designs may be submitted for approval by the TCEQ Dallas/Fort Worth Regional Office.

33. A pretest meeting shall be held with personnel from the TCEQ before the required tests are performed. The TCEQ Dallas/Fort Worth Regional Office shall be notified not less than 45 days prior to sampling to schedule a pretest meeting. Test methods to be used shall be determined at this pretest meeting. The notice shall include:

    A. Date for pretest meeting;

    B. Date sampling will occur;

    C. Points or sources to be sampled;

    D. Name of firm conducting sampling;

    E. Type of sampling equipment to be used;

    F. Method or procedure to be used in sampling;

    G. Any alternate testing proposal shall include details of sampling methods, the representative emission sources to be tested, and maximum operating conditions; and

    H. Proposed representative EPNs or sources to be sampled.

    The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, establish critical operating conditions for successful sampling, and to review the format procedures for submitting the test reports.

34. Alternate sampling methods and representative unit testing may be proposed by the permit holder. A written proposed description of any deviation from sampling procedures or emission sources specified in permit conditions or TCEQ or U.S. EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. Such proposal must be approved, in writing, by the

TCEQ Dallas/Fort Worth Regional Director and the TCEQ Office of Air, Air Permits Division in Austin at least two weeks prior to sampling.

35. During stack sampling emission testing, the facilities shall operate at maximum represented operating parameters. Primary operating parameters for the furnaces shall be monitored and recorded during the stack test. **(10/24)**

    During stack sampling emission testing of the V-1 Furnace DEP (EPN 3), the V-1 furnace shall operate at maximum represented operating parameters. Primary operating parameters for the furnaces shall be monitored and recorded during the stack test.

    If the plant is unable to operate at maximum represented production or throughput rates during testing, then additional stack testing shall be required when the glass production rate exceeds the previous stack test production rate by +10 percent unless otherwise determined, in writing, by the TCEQ Executive Director.

36. Requests for additional time to perform sampling shall be submitted to the TCEQ Dallas/Fort Worth Regional Office. Additional time to comply with the federally applicable requirements requires U.S. EPA approval, and copies of requests shall be submitted to the TCEQ Dallas/Fort Worth Regional Office.

37. As a result of the pretest meeting, the company shall submit a complete sampling proposal for review by the TCEQ Dallas/Fort Worth Regional Director. The TCEQ Dallas/Fort Worth Regional Director shall review this proposal and either approve or deny the sampling no later than 45 days from submittal receipt. Once the testing proposal is approved by the TCEQ Dallas/Fort Worth Regional Director, sampling shall occur as approved.

38. Copies of the final sampling report shall be submitted to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

    One copy to the TCEQ Dallas/Fort Worth Regional Office.
    One copy to the TCEQ Office of Air, Air Permits Division in Austin.
    One copy to each appropriate local air pollution control program.

39. If, as a result of stack sampling, compliance with the permitted emission rates cannot be demonstrated, the holder of this permit shall adjust any operating parameters so as to comply with Special Condition No. 1 and the permitted emission rates.

40. If the holder of this permit is required to adjust any operating parameters for compliance, then beginning no later than 60 days after the date of the test conducted, the holder of this permit shall submit to the TCEQ, on a monthly basis until a permit amendment has been approved or until a re-test showing compliance is performed, a record of adjusted operating parameters and daily records of glass production and binder usage rates sufficient to demonstrate compliance with the permitted emission rates. Daily records of glass production, binder usage rates, and operating parameters shall be distributed as follows:

    One copy to the TCEQ Dallas/Fort Worth Regional Office.
    One copy to the TCEQ Office of Air, Air Permits Division in Austin.

Recordkeeping

41. Records shall be maintained at this facility and made available at the request of personnel from the TCEQ or any other air pollution control program having jurisdiction to demonstrate compliance with the permit limitations. These records shall be totaled for each calendar month, retained for a rolling 60-month period, and include the following:

    A. Records required by 40 CFR Part 60, Subparts A and Kb;

    B. Records required by 40 CFR Part 63, Subparts A, NNN, JJJJ, ZZZZ, and DDDDD;

    C. Hourly and annual glass pull rates for each furnace (in tons/hour and tons/year, respectively);

    D. Resin premixes and their respective usage rates (in gallons/hour), summarized on a monthly basis for the V-1 manufacturing line when using the phenol/formaldehyde-based binder;

    E. Hourly binder solids usage rates (in tons/hour), summarized on a monthly basis for each of the three manufacturing lines when using the thermosetting resin binder;

    F. All chemicals used and their respective usage rates (in tons/hour), summarized on a monthly basis, on which the emissions calculations are based. The safety data sheet or speciated chemical information for all materials that are currently in use or on-site at this facility shall be maintained in one central, up-to-date file at the plant site. Records of new or replacement compounds shall be maintained to demonstrate compliance with Special Condition No. 20, including ERs and ESLs;

    G. Quarterly observations for visible fugitive emissions and/or opacity determinations from the EPNs listed in Opacity/Visible Emission Limitation section of these Special Conditions;

    H. Records demonstrating that the combined total actual annual emissions from the V-1, V-2, and V-3 manufacturing lines (EPNs 10, 13, 22, 23, 55, 40, 41, and 56) do not exceed 157.34 tons/year;

    I. Annual site-wide ink usage (in gallons/year);

    J. DEP parameter value(s) used to monitor the DEP performance, including any period when the value(s) deviated from the established limit(s) (as noted in Special Condition No. 43.A), the date and time of the deviation, when corrective actions were initiated, the cause of the deviation, an explanation of the corrective actions taken, and when the cause of the deviation was corrected;

    K. Glass pull rate of the V-1 Furnace, including any period when the pull rate exceeded the average pull rate established during the performance test by more than 20 percent, the date and time of the exceedance, when corrective actions were initiated, the cause of the exceedance, an explanation of the corrective actions taken, and when the cause of the exceedance was corrected;

    L. Hours when the V-1 Furnace Dry Electrostatic Precipitator Bypass Stack (EPN 6) is used as a bypass; and

    M. MSS records including the following:

        (1) Manufacturer’s maintenance schedule for the DEP and records of all maintenance performed on the DEP;

        (2) Natural gas usage for the burners used during overcoating of the V-2 and V-3 furnaces;

(3) Natural gas usage during V-2 and V-3 forehearth electrode changeouts;

(4) Dates and hours of V-2 and V-3 batch charger maintenance;

(5) Dates and descriptions of V-1, V-2, and V-3 manufacturing line maintenance activities; and

(6) Duration of pipeline-quality natural gas boost during startup and shutdown of the V-2 and V-3 furnaces.

42. If furnace stack testing performed in accordance with the Special Conditions results in an emission of PM, after adjustment to maximum allowable furnace production rate, less than 83.3 percent of the rates indicated on the attached MAERT, the TCEQ may require the permit to be altered to reflect the maximum ER determined during stack testing plus not more than 20 percent. As an alternative, the TCEQ may require that the facilities be retested to establish more representative ERs.

43. A copy of this permit shall be maintained at this facility and made available to at the request of personnel from the TCEQ. **(10/24)**

Projected Actual Emissions

44. The project authorized by the amendment application, Form PI-1 dated April 16, 2021, is determined not to be subject to major new source review for NO_X, VOC, CO, SO_2, PM, PM_{10}, and $PM_{2.5}$ by identifying projected actual emission rates for the facilities potentially affected by the project, provided the projected actual emission rates for the indicated pollutants are not exceeded. Actual emissions from the facilities shall be monitored, recorded, and reports made in accordance 30 TAC § 116.127 for the time period specified in 30 TAC § 116.127(b)(1). **(6/21)**

Date: October 10, 2024

Emission Sources - Maximum Allowable Emission Rates

Permit Number 6093

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
7	V-1 Mixed Batch Bin	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
58	V-1 Mixed Batch Transfer	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
3	V-1 Furnace Dry Electrostatic Precipitator Stack	PM	2.50	10.95
		PM_{10}	2.50	10.95
		$PM_{2.5}$	2.13	9.31
		NO_x	2.55	11.16
		SO_2	1.49	6.51
		VOC	0.14	0.61
		CO	2.14	9.38
		HCl	<0.01	<0.01
6	V-1 Furnace Dry Electrostatic Precipitator Bypass Stack (7)	PM	31.92	2.30
		PM_{10}	31.92	2.30
		$PM_{2.5}$	27.13	1.96
		NO_x	2.55	0.27
		SO_2	1.49	0.11
		VOC	0.14	0.01
		CO	2.14	0.15

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		CO (8)	2.04	0.07
		HCl	<0.01	<0.01
10	V-1 Mixing Chamber Stack	PM	40.00	166.44
		PM_{10}	40.00	166.44
		$PM_{2.5}$	36.00	149.80
		NO_x	22.60	98.99
		SO_2	7.25	31.76
		VOC	20.00	96.36
		CO	26.00	113.88
		Ammonia	40.00	175.20
13	V-1 Cooling Section Exhaust Stack	PM	3.00	13.14
		PM_{10}	3.00	13.14
		$PM_{2.5}$	2.70	11.83
		NO_x	0.13	0.57
		SO2	0.15	0.66
		VOC	4.00	8.76
		CO	1.59	6.96
		Ammonia	2.00	8.76
11	V-1 Facing Oven/Asphalt Coater/Flexographic Printing Stack	PM	0.10	0.45
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.09	0.41
		NO_x	0.21	0.90
		SO_2	0.01	0.04
		VOC	0.61	1.86

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		CO	0.17	0.75
V-1 FUG, 631	V-1 Line Fugitives (5)	PM	1.04	4.51
		PM_{10}	1.04	4.51
		$PM_{2.5}$	0.98	4.27
		NO_x	0.11	0.46
		SO_2	0.15	0.62
		VOC	0.26	1.14
		CO	0.09	0.39
		Ammonia	0.42	1.82
26	V-2 Mixed Batch Bin	PM	0.22	0.27
		PM_{10}	0.22	0.27
		$PM_{2.5}$	0.07	0.08
444	V-2 Cullet Bin	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
50	V-2 Batch Charge Hopper	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
19, 20	V-2 Furnace Stacks (East and West Combined)	PM	3.13	13.69
		PM_{10}	3.13	13.69
		$PM_{2.5}$	1.72	7.53
		PM (10)	5.00	0.08
		PM_{10} (10)	5.00	0.08
		$PM_{2.5}$ (10)	2.75	0.04
		SO_2	0.79	3.47

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		HCl	<0.01	<0.01
22	V-2 Mixing Chamber Stack	PM	35.00	153.30
		PM_{10}	35.00	153.30
		$PM_{2.5}$	31.50	137.97
		NO_x	6.38	27.94
		SO_2	1.00	4.38
		VOC	10.50	45.99
		CO	19.00	83.22
		Ammonia	20.00	87.60
55, 23	V-2 Cooling Section Exhaust Stack (Smoke Stripper and HEAF)	PM	4.25	18.62
		PM_{10}	4.25	18.62
		$PM_{2.5}$	3.70	16.21
		NO_x	0.53	2.32
		SO_2	0.23	1.01
		VOC	1.60	7.01
		CO	3.90	17.08
		Ammonia	5.50	24.09
52	V-2 Flexographic Printing Stack	VOC	0.28	0.69
V-2 FUG	V-2 Line Fugitives (5)	PM	2.16	9.49
		PM_{10}	2.16	9.49
		$PM_{2.5}$	2.10	9.22
		NO_x	0.05	<0.01
		SO_2	0.07	0.31

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		VOC	0.90	3.93
		CO	0.04	<0.01
		Ammonia	0.64	2.82
36	V-3 Mixed Batch Bin	PM	0.22	0.27
		PM_{10}	0.22	0.27
		$PM_{2.5}$	0.07	0.08
37	V-3 Mixed Batch Bin	PM	0.22	0.27
		PM_{10}	0.22	0.27
		$PM_{2.5}$	0.07	0.08
445	V-3 Cullet Bin	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
51	V-3 Batch Charge Hopper	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
38, 39	V-3 Furnace Stacks (East and West Combined)	PM	3.13	13.69
		PM_{10}	3.13	13.69
		$PM_{2.5}$	1.72	7.53
		PM (10)	5.00	0.08
		PM_{10} (10)	5.00	0.08
		$PM_{2.5}$ (10)	2.75	0.04
		SO_2	0.99	4.33
		HCl	<0.01	<0.01
40	V-3 Mixing Chamber Stack	PM	35.00	153.30
		PM_{10}	35.00	153.30

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		$PM_{2.5}$	31.50	137.97
		NO_x	6.20	27.16
		SO_2	0.98	4.29
		VOC	10.50	45.99
		CO	20.70	90.67
		Ammonia	20.00	87.60
56, 41	V-3 Cooling Section Exhaust Stack (Smoke Stripper and HEAF)	PM	4.25	18.62
		PM_{10}	4.25	18.62
		$PM_{2.5}$	3.65	15.97
		NO_x	0.24	1.05
		SO_2	0.23	1.01
		VOC	2.00	8.76
		CO	3.30	14.46
		Ammonia	5.50	24.09
V-3 FUG	V-3 Line Fugitives (5)	PM	1.39	6.09
		PM_{10}	1.39	6.09
		$PM_{2.5}$	1.33	5.84
		NO_x	0.05	<0.01
		SO_2	0.08	0.31
		VOC	0.91	3.96
		CO	0.04	<0.01
		Ammonia	0.67	2.94
10, 13, 22, 23, 40, 41, 55, 56	V-1, V-2, V-3 Manufacturing Line Total Including Starch-	VOC	--	157.34

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
	Based Binder Constituents (6)			
2	V-1 Unloading Fugitives (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
1	V-1 Batch House	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
601	V-1 Batch Silos	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
602	V-1 Batch Silos	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
43	V-2/V-3 Unloading Fugitives (5)	PM	0.03	0.02
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
44	V-2/V-3 Batch House	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
442	Cullet Piles (5)	PM	0.09	0.39
		PM_{10}	0.09	0.39
17	Binder Room (5)	VOC	0.21	0.04
		Ammonia	0.62	0.44

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
18	Binder Room Fugitives (5)	VOC	<0.01	<0.01
620	Resin Storage Tank No. 1	VOC	1.66	0.16
621	Resin Storage Tank No. 2	VOC	1.66	0.16

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HCl - hydrogen chloride
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) For the purposes of demonstrating compliance with the representation that this site does not trigger prevention of significant deterioration for VOCs, the holder of this permit must comply with this additional limitation.
(7) Emission rates for EPN 6 (V-1 Furnace Dry Electrostatic Precipitator Bypass Stack) apply during bypass use when the V-1 Furnace Dry Electrostatic Precipitator is not operational.
(8) Emission rates apply during startup of the V-1 Furnace.
(9) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition Nos. 20 through 24, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.
(10) Emission rates apply during batch charger maintenance overhead feeding activities.

Date: October 10, 2024

From: Kate Gross <kgross@trinityconsultants.com>
Sent: Tuesday, September 17, 2024 11:59 AM
To: Savannah Quiros
Cc: Teneng(Fuoching), Chiajo; Desloges, Jacquelyn
Subject: FW: STEERS Title V Application Submittal (Update)

Ms. Quiros,

The requested forms to establish a Chapter 115 permit shield for GRP-FAB were uploaded and submitted via STEERS yesterday. In addition, it appears that there is a disconnect in the 2019 Statement of Basis for the Chapter 115 requirements versus the final permit with regards to GRP-ASPH and 01DRY. As a result, Owens Corning proposes to add in these requirements back into the permit by providing TCEQ Forms OP-2, OP-SUMR, and OP-UA18.

Thank you,
Kate

Kate Gross
Principal Consultant
P 972.661.8100 M 214.405.1598

12700 Park Central, Suite 600, Dallas, TX 75251
Email: kgross@trinityconsultants.com
LinkedIn:
https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.linkedin.com%2Fin%2Fkate-gross-2277b85%2F&data=05%7C02%7CSavannah.Quiros%40tceq.texas.gov%7C2f05292cfa2f4078fae908dcd739fd0c%7C871a83a4a1ce4b7a81563bcd93a08fba%7C0%7C0%7C638621891265226020%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=HJhs9at2lxzxWvlt%2Beb6MKpOjAHQX%2Bh48kBLxXDTlhU%3D&reserved=0

Connect with us: LinkedIn / Facebook / Twitter / YouTube / trinityconsultants.com

-----Original Message-----
From: steers@tceq.texas.gov <steers@tceq.texas.gov>
Sent: Monday, September 16, 2024 2:36 PM
To: Kate Gross <kgross@trinityconsultants.com>; lucian.radut@owenscorning.com; chiajo.teneng@owenscorning.com
Subject: STEERS Title V Application Submittal (Update)

This confirms the submittal of your Title V Existing Application to the TCEQ.

Your application was successfully submitted and received by the TCEQ at 09/16/2024 03:36 PM.

The submitted application will now be reviewed by the program area. You will be notified by the program area reviewing your application if more information is needed and of final action (approval or denial) of the application.

The Reference number for this submittal is 683247.

The Area ID for this submittal is 1094.
The Project ID for this submittal is 35476.
The STEERS confirmation number for this submittal is 563585.
The hash code for this submittal is
25D5F3A85101247957F053417B9E3A67969FC0BE67D978276B465B55A714C527.

You may access the copy of record (submitted application) from the submit log which is available by selecting Submissions from the Home page of STEERS
https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Furldefense.com%2Fv3%2F__https%3A%2F%2Fwww3.tceq.texas.gov%2Fsteers%2F__%3B!!PrI4aAen2FRcs3QywQ!GMXLoTQLLu6Scqme6pT0bACg0WMrgF4LFGMLYZV3rTru6wigJnwID0x5JxS6cJ-SfjysxGTlv-AsnGsus3B8qbYKlL3i%24&data=05%7C02%7CSavannah.Quiros%40tceq.texas.gov%7C2f05292cfa2f4078fae908dcd739fd0c%7C871a83a4a1ce4b7a81563bcd93a08fba%7C0%7C0%7C638621891265240917%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=GMbYiTOmS9ytxni%2FPMxroWSo5T8KjJYgTyfmR4Z9vso%3D&reserved=0 .

If you have any questions, please contact the Air Permits division at 512-239-1250 or by e-mail at airperm@tceq.texas.gov.

Texas Commission on Environmental Quality

Title V Existing

1094

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	WAXAHACHIE PLANT
Does the site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.439166
Longitude (W) (-###.######)	96.85
Primary SIC Code	3296
Secondary SIC Code	
Primary NAICS Code	327993
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100223585
What is the name of the Regulated Entity (RE)?	OWENS CORNING INSULATING SYSTEMS WAXAHACHIE PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.44148
Longitude (W) (-###.######)	-96.848
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603159088

Type of Customer	Other
Full legal name of the applicant:	
Legal Name	Owens Corning Insulating Systems, LLC
Texas SOS Filing Number	800719027
Federal Tax ID	371525228
State Franchise Tax ID	32020858554
State Sales Tax ID	
Local Tax ID	
DUNS Number	7332570
Number of Employees	251-500
Independently Owned and Operated?	No

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	OWENS CORNING
Prefix	MR
First	DAVID
Middle	
Last	RABUANO
Suffix	
Credentials	
Title	VICE PRESIDENT OPERATIONS
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1 OWENS CORNING PKWY
Routing (such as Mail Code, Dept., or Attn:)	
City	TOLEDO
State	OH
ZIP	43659
Phone (###-###-####)	4192487343
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	david.rabuano@owenscorning.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	LUCIAN RADUT(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
First	LUCIAN
Middle	
Last	RADUT
Suffix	

Credentials	
Title	WAXAHACHIE PLANT LEADER
Enter new address or copy one from list	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
Zip	75165
Phone (###-###-####)	9729234301
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	lucian.radut@owenscorning.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	CHIAJO TENENG(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
Prefix	MS
First	CHIAJO
Middle	
Last	TENENG
Suffix	
Credentials	
Title	ENVIRONMENTAL LEAD
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
ZIP	75165
Phone (###-###-####)	9729234396
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Chiajo.teneng@owenscorning.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	32 Deg 26 Min 21 Sec

3) Permit Longitude Coordinate:	96 Deg 51 Min 0 Sec
4) Is this submittal a new application or an update to an existing application?	Update
4.1. Select the permit/project number for which this update should be applied.	1094-35476
5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	No

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

Attach OP-2 (Application for Permit Revision/Renewal)

[File Properties]

File Name	OP-2.pdf
Hash	08C6D7618642D7A3692A38C14D82599BDC3F396DAE406C20D29B08E810D16402
MIME-Type	application/pdf

Attach OP-ACPS (Application Compliance Plan and Schedule)

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

[File Properties]

File Name	OP-REQ2.pdf
Hash	BE4269110F0C3BED3FB74F66A06FEE064571FF1C6B5ED0BD0945F20A09CB73D8
MIME-Type	application/pdf

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

[File Properties]

File Name	OP-SUMR.pdf
Hash	EBCEFCBDECBEA39D06FA1A4841FB84103ED83935D345DD5828D29F3A56CFC565
MIME-Type	application/pdf

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

[File Properties]

File Name	OP-UA18.pdf
Hash	62336D2755DF2D6AF340DA13EFFE42500ABF5B19A222333F5BAD60F1396BFF3B
MIME-Type	application/pdf

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach Void Request Form

Attach any other necessary information needed to complete the permit.

An additional space to attach any other necessary information needed to complete the permit.

Certification

I certify that I am the Duly Authorized Representative for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am Lucian Radut, the owner of the STEERS account ER070923.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1094.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Lucian Radut OWNER OPERATOR

Account Number:	ER070923
Signature IP Address:	205.204.5.3
Signature Date:	2024-09-16
Signature Hash:	1343A540D3477773EC98EB7038223B19EC177CFC0F4B09930B68912DFBA7570F
Form Hash Code at time of Signature:	25D5F3A85101247957F053417B9E3A67969FC0BE67D978276B465B55A714C527

Submission

Reference Number:	The application reference number is 683247
Submitted by:	The application was submitted by ER070923/Lucian Radut
Submitted Timestamp:	The application was submitted on 2024-09-16 at 15:36:27 CDT
Submitted From:	The application was submitted from IP address 205.204.5.3
Confirmation Number:	The confirmation number is 563585
Steers Version:	The STEERS version is 6.82

Permit Number:	The permit number is 1094

Additional Information

Application Creator: This account was created by Kathleen H Gross

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality

Date: 09/16/2024
Permit No.: O-1094
Regulated Entity No.: RN100223585
Company Name: Owens Corning Insulating Systems, LLC

Using the table below, provide a description of the revision.

Revision No.	Revision Code	New Unit	Unit/Group ID No.	Process Applicable Form	NSR Authorization	Description of Change and Provisional Terms and Conditions
1	MS-A	No	52	OP-REQ1	6093	Revision to NSR Permit No. 6093 to replace the asphalt applicators with environmentally beneficial pre-coated paper. There are no new or revised unit-specific applicable requirements.
2	MS-A	No	52	OP-REQ1	6093	Revision to NSR Permit No. 6093 to use other types of pre-coated paper in the existing facing application process. There are no new or revised unit specific applicable requirements.
3	MS-A	No	53	OP-REQ1	PBR Registration No. 162525	PBR Registration No. 162525 to authorize ink-jet printers for the V-2 paper pit. No new or revised unit specific applicable requirements.
4	MS-A	No	11	OP-REQ1	PBR Registration No. 162524	PBR Registration No. 162524 to authorize two new adhesives for the V-1 manufacturing line. No new or revised unit specific applicable requirements.
5	MS-C	No	FCABUV2	OP-UA2		Remove FCABUV2 and associated applicable requirements. The unit is no longer in operation
6	MS-C	No	09CAUL	OP-UA4		Remove 09CAUL and associated applicable requirements. The loading associated with 09CAST is no longer in operation.
7	MS-C	No	09PRUL	OP-UA4		Remove 09PRUL and associated applicable requirements. The loading associated with 09PRST is no longer in operation.
8	SIG-E	No	GRP-FAB	OP-REQ2		Request 30 TAC Chapter 115 permit shield
9	MS-C	No	GRP-ASPH, 01DRY	OP-UA18		Add 30 TAC Chapter 115 requirements

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
09/16/2024	O-1094	RN100223585

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/ Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106	Preconstruction Authorizations Title I
D	5	FCABUV2	OP-UA2	Emergency Engine		106.511/03/14/1997	
D	6	09CAUL	OP-UA4	Unloading from cross-linker 1 tank		6093	
D	7	09PRUL	OP-UA4	Unloading from cross-linker 2 tank		6093	
	8	GRP-FAB	OP-REQ2	Fabrication Areas		6093	
	9	GRP-ASPH, 01DRY	OP-UA18	V-1 Asphalt Applicator and V-1 Facing Adhesive Applicator and Drying Oven		6093	

Form OP-REQ2
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
09/16/2024	O-1094	RN100223585

Unit AI	Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	Potentially Applicable Regulatory Name	Negative Applicability/Superseded Requirement Citation	Negative Applicability/Superseded Requirement Reason
A	8	GRP-FAB	OP-UA18	Chapter 115	115.420(a)	Fabrication area printing operations do not contain surface coating process as specified in 115.420(a).
A	8	GRP-FAB	OP-UA18	Chapter 115	115.450(a)	Fabrication area printing operations do not contain surface coating process as specified in 115.450(a).

Texas Commission on Environmental Quality
Surface Coating Operations Attributes
Form OP-UA18 (Page 8)
Federal Operating Permit Program

Table 8a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter E, Division 2: Surface Coating Processes

Date:	**09/16/2024**
Permit No.:	**O-1094**
Regulated Entity No.:	**RN100223585**

Process ID No.	SOP Index No.	Alternative Compliance Method (ACM)	ACM ID No.	Facility Operations	Maintenance Shop	VOC Emission Rate	Vapor Recovery	Control Device ID No.
GRP-ASPH	R5421-1	NO		PAPR		OTHER	NONE	
01DRY	R5421-1	NO		PAPR		OTHER	NONE	

From: Savannah Quiros
Sent: Tuesday, September 10, 2024 10:26 AM
To: Kate Gross
Cc: Teneng(Fuoching), Chiajo; Desloges, Jacquelyn
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Hi Kate,

In order to establish a Chapter 115 permit shield for GRP-FAB, I need an updated OP-SUMR and OP-REQ2. Please include an updated OP-2 to document the revision (removing applicable requirements and replacing with a permit shield). Please send the documents (**OP-SUMR, OP-REQ-2, OP-2**) through STEERS by ***09/16/2024***.

Sincerely,

Savannah G. Quiros
(they/them/theirs)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Arokiaraj Alphones (Disabled 08/19/2024) <Raj.Alphones@trinityconsultants.com>
Sent: Friday, August 2, 2024 12:46 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Savannah,

Please find the following response to the additional information request for item #2 received from TCEQ on July 24, 2024:

- OP-UA18, Table 8a: please send an updated form with VOC Emission Rate entered for GRP-FAB

> OCIS Response: Per Special Condition 18 of NSR Permit No. 6093, glue used in the Retail Roll Hot Melt Glue System shall not contain VOC (Attachment 1). Therefore, Chapter 115 is not applicable to GRP-FAB, and Form OP-UA18 is not required. OCIS proposes to establish a Chapter 115 permit shield for GRP-FAB using Form OP-REQ2. Please let us know if you have any questions or need additional information.

From: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>
Sent: Thursday, September 5, 2024 11:50 AM
To: Savannah Quiros
Cc: Raj Alphones; Desloges, Jacquelyn; Kate Gross
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant
Attachments: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Hi Savannah,

I have attached the email response that was sent to you on 8/2/2024.

Thanks,

CJ Teneng
Environmental Lead
Waxahachie Plant
P: 972-923-4396 | **M:** 404-955-6948
chiajo.teneng@owenscorning.com



INSULATION
3700 N INTERSTATE 35 EAST
WAXAHACHIE, TX 75165
www.owenscorning.com

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Thursday, September 5, 2024 11:38 AM
To: Kate Gross <KGross@trinityconsultants.com>
Cc: Raj Alphones <Raj.Alphones@trinityconsultants.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Hello all,

Do you have any updates on this?

Sincerely,

Savannah G. Quiros
(they/them/theirs)
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087

From:	Arokiaraj Alphones (Disabled 08/19/2024)
To:	Savannah Quiros
Cc:	Teneng(Fuoching), Chiajo; Desloges, Jacquelyn; Kate Gross
Subject:	RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant
Attachments:	image001.png image003.png image004.png image005.png image006.png image007.png image008.png Attachment 1_ NSR 6093-316534 20201116 Conditions.pdf

---

Savannah,

Please find the following response to the additional information request for item #2 received from TCEQ on July 24, 2024:

- OP-UA18, Table 8a: please send an updated form with VOC Emission Rate entered for GRP-FAB

> OCIS Response: Per Special Condition 18 of NSR Permit No. 6093, glue used in the Retail Roll Hot Melt Glue System shall not contain VOC (Attachment 1). Therefore, Chapter 115 is not applicable to GRP-FAB, and Form OP-UA18 is not required. OCIS proposes to establish a Chapter 115 permit shield for GRP-FAB using Form OP-REQ2. Please let us know if you have any questions or need additional information.

Thank you,
Raj

Arokiaraj Alphones, PhD
Senior Consultant
12700 Park Central Dr, Ste 600 Dallas, TX 75251
Email: raj.alphones@trinityconsultants.com
Ph: 972.661.8100

Stay current on environmental issues. Subscribe today to receive Trinity's free *Environmental Quarterly*.
Learn about Trinity's courses for environmental professionals.
Connect with us: LinkedIn / Facebook / Twitter / YouTube / trinityconsultants.com

---

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Tuesday, July 30, 2024 1:39 PM
To: Kate Gross <KGross@trinityconsultants.com>
Cc: Raj Alphones <Raj.Alphones@trinityconsultants.com>; Teneng(Fuoching), Chiajo

Special Conditions

Permit Number 6093

Emission Limitations

1. This permit authorizes those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission rates and other conditions specified in the table. In addition, this permit authorizes all emissions from planned startup and shutdown activities associated with facilities or groups of facilities that are authorized by this permit.

   Compliance with permitted emission limits for the site is based on production limits and operational representations listed in the Confidential File Summary to this permit.

Federal Applicability

2. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources in Title 40 Code of Federal Regulations (40 CFR) Part 60, specifically the following:

   2. Subpart A - General Provisions; and
   2. Subpart Kb - Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

3. These facilities shall comply with all applicable requirements of the EPA Regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63, specifically the following:

   3. Subpart A - General Provisions;
   3. Subpart NNN - Wool Fiberglass Manufacturing (when the phenol/formaldehyde-based binder is in use);
   3. Subpart JJJJ - Paper and Other Web Coating;
   3. Subpart ZZZZ - Reciprocating Internal Combustion Engines; and
   3. Subpart DDDDD - Industrial, Commercial, and Institutional Boilers and Process Heaters.

Furnace Specifications

4. The operation of the furnaces is limited to the following represented limitations:

Table 1: Furnace Operational Limitations

Furnace	Fuel	Throughput
V-1	OxyFuel	See Confidential Attachment
V-2 and V-3	Electric heat	See Confidential Attachment

Opacity/Visible Emission Limitations

5. Opacity of particulate matter emissions from the sources listed in the table below shall not exceed the associated opacity percentage. Determination of compliance with this requirement shall be made by first observing for visible emissions during normal plant operations. Observations shall be made at least 15 feet and no more than 0.25 miles from the emission point. If visible emissions are observed from the emission point, opacity shall be determined using the U.S. EPA 40 CFR Part 60, Appendix A, Test Method 9. Contributions from uncombined water vapor shall not be included in determining compliance with this condition. Determination of compliance with this requirement shall be performed and the results recorded quarterly.

Table 2: Opacity Limitations

EPN	Opacity (percent)
601, 602, 7, 444, 26, 50, 53, 445, 36, 37, 51, 54, 17	5
3, 11, 42	10
10, 22, 40, 19, 20, 38, 39	15
6, 13, 55, 23, 56, 41	20

6. Opacity greater than 20 percent from EPN 6 is authorized when the permit holder complies with the maintenance duration limitation and source shutdown requirements in Special Condition No. 21.A. for the Dry Electrostatic Precipitator (DEP). For periods of maintenance other than those authorized by Special Condition No. 21.A., 30 Texas Administrative Code (30 TAC) §111.111, 111.151, and Chapter 101, Subchapter F shall apply.

7. Visible fugitive emissions from process buildings and raw material storage buildings shall not leave the property for more than 30 cumulative seconds in any six-minute period.

Operational Limitations and Work Practices

8. The following shall occur:

    8. The maximum glass pull rates for each furnace shall not exceed the rates as listed in the Confidential File Summary.

    8. When using the phenol/formaldehyde-based binder, the maximum usage rates for resin premixes shall not exceed the rates as listed in the Confidential File Summary.

    8. When using the thermosetting resin binder, the maximum usage rates for binder solids shall not exceed the rates as listed in the Confidential File Summary.

9. All in-plant roads, truck loading and unloading areas, parking areas, and other traffic areas shall be sprinkled with water, and/or be treated with effective dust suppressant(s), and/or be paved (with a cohesive hard surface) and cleaned as necessary to maintain compliance with all Texas Commission on Environmental Quality (TCEQ) rules and regulations.

10. A dry electrostatic precipitator, properly installed and in good working order, shall control particulate matter (PM) emissions from the V-1 Furnace (EPN 3).

11. The DEP dust shall be collected in enclosed and/or covered containers. There shall be no outside storage DEP dust unless in sealed containers.

12. The V-1 Furnace Dry Electrostatic Precipitator Bypass Stack (EPN 6) shall only be used as a bypass when the DEP is not operational. Bypassing due to DEP downtime for planned maintenance shall be limited to a maximum of 144 hours per year.

13. The facility shall not be authorized to increase emissions of ammonia through Permit-By-Rule (PBR) or future permitting actions. Any proposed adjustments in ammonia emission rates shall result in either no increase or a reduction of hourly and annual ammonia emission rates.

14. When the thermosetting resin binder is in use, the curing ovens' exhaust gas incinerators that are associated with the V-1, V-2, and V-3 Mixing Chambers (EPNs 10, 22, and 40) shall have an overall VOC destruction efficiency of at least 98 percent.

15. The holder of this permit shall permanently shutdown the following sources upon the complete and permanent removal of the use of the phenol-formaldehyde binder:

Table 3: Sources to be Permanently Shutdown

Unit or Operation	EPN
Existing Resin Storage Tank	18
Three (3) Existing Binder Circulation Tanks	17
Three (3) Existing Binder Mix Tanks	17
Resin Urea Pre-Mix Tank	17
Resin Urea Circulation Tank	17
Ammonium Sulfate Mix Tank	17
Ammonium Sulfate Circulation Tank	17
Urea Premix Tank	45
Urea Supply Tank	34
Resin Unloading Tank	29
Aqueous Ammonia Storage Tank	32
HWWS Supply Tank No. 2	347
Binder Reclaim Water Tank	347
Existing Resin Storage Tank	35
Existing Resin Storage Tank	17
HWWS Supply Tank No. 1	347

16. Approval of this amendment relies upon the holder of this permit providing records to adequately demonstrate that changes in actual VOC emissions should not have and will not exceed the 40 ton per year significance threshold for Prevention of Significant Deterioration (PSD). The holder of this permit shall record and calculate the actual VOC emissions from the V-1, V-2, and V-3 manufacturing lines (EPNs 10, 13, 22, 23, 55, 40, 41, and 56) to demonstrate that the combined total annual emissions remain below 157.34 tons/year.

17. The site-wide ink usage rate shall be limited to a maximum of 4,240 gallons per year.

18. Glue used in the Retail Roll Hot Melt Glue System shall not contain VOC.

19. Sodium nitrate shall not be used as a raw material in batch formulations for the V-1, V-2, and V-3 manufacturing lines.

Material Flexibility

20. In addition to those chemicals and compounds as listed in the Confidential File Summary, the use of new materials or products that meet all of the following sub-conditions are allowed**.** Pollutants from categories of air pollutants not currently authorized on the MAERT cannot be authorized using this special condition. This special condition does not authorize the use of any chlorinated or fluorinated compound when emissions are routed to a thermal control device.

    20. All the ingredients of the new material are known; i.e., the weight percentages of the ingredients add to 100 percent or more.

    20. The maximum hourly (short-term) or annual emission rates from new or existing air contaminant ingredients (aka air contaminants) shall not cause any increases in the short-term or annual emission rates as listed on the MAERT.

    20. Emissions from the new material shall only be from the emission points represented in the table provided in paragraph G(2) of this special condition.

    20. Any air contaminant in the new material is exempt from paragraphs E through H of this special condition if the air contaminant is currently authorized under this permit and the proposed emission rate from each EPN is less than or equal to the authorized emission rate from the same EPN.

    20. Any air contaminant in the new material is exempt from paragraphs F through H of this special condition if:

        20. The air contaminant is a particulate and no specific short-term effects screening level (ESL) is included in the most current set of ESLs available through the TCEQ Toxicity Factor Database (must meet NAAQS); or

        20. The air contaminant is not included in the most current set of ESLs available through the TCEQ Toxicity Factor Database.

            If the compound is not on the current ESL list and does not belong to a category of compounds on the list, the permit holder shall request confirmation from the Toxicology Division that an ESL need not be created for authorization through this condition. If the Toxicology Division determines that an ESL is not required under this condition, confirmation that no ESL is required shall be kept on file by the applicant.

    20. Any air contaminant in the new material is exempt from paragraphs G and H of this special condition if:

20. it is emitted at a rate and has a short-term ESL and an annual ESL as stated in the following table; or

Table 4: Rates and ESLs for Exemption

Emission Rate (lbs/hr)	Short-term ESL (µg/m^3)	Annual ESL (µg/m^3)
≤ 0.04	≥ 2 and < 500	≥ 0.2 and < 50
≤ 0.10	≥ 500 and < 3,500	≥ 50 and < 350
≤ 0.40	≥ 3,500	≥ 350

20. it is not sprayed and it has at least one of the following physical characteristics:

    20. a vapor pressure less than 0.01 mm Hg (0.0002 psi) at 68°F;

    20. a boiling point at atmospheric pressure that is above 400°F (204°C), provided the compound is not heated above room temperature in the process; or

20. a molecular weight that is above 200 g/g-mol, provided the compound is not heated above room temperature in the process.

20. For all other new air contaminants or increases in existing air contaminants, the following procedure shall be completed to determine if the short-term impacts are acceptable.

    20. Determine the emission rate of each air contaminant including emissions of the same air contaminant (if an existing air contaminant) from the currently authorized materials that may be emitted at the same time from each emission point.

    20. Multiply the emission rate of the air contaminant by the unit impact multiplier for each emission point from the following table to determine the off-property impact Ground Level Concentration $(GLC)_{MAX}$ for each emission point.

Table 5: Unit Impact Multipliers

EPN	Short-Term Unit Impact Multiplier (µg/m^3 per lb/hr)	Long-Term Unit Impact Multiplier (µg/m^3 per lb/hr)
3	5.44	0.52
6	2.02	0.18
10	4.10	0.10
11	59.09	2.38
13	40.83	1.18
17	93.30	3.82
18	97.82	3.84
19	21.18	1.18
20	22.21	1.23
22	4.38	0.10
23	14.49	0.85
38	24.66	1.16
39	26.10	1.23
40	6.14	0.33

41	18.58	0.73
42	44.98	1.01
52	52.55	1.10
55	50.00	1.55
56	60.75	0.91
V-1 FUG (59)	29.69	2.38
V-1 FUG (246)	35.23	2.84
V-2 FUG (53)	26.00	1.93
V-2 FUG (60)	48.67	1.52
V-3 FUG (54)	31.24	1.58
V-3 FUG (359)	48.67	1.52
620	134.91	4.89
621	116.29	4.41

20. Sum the impacts from each emission point/emission point group to determine a total short-term off-property impact (Total GLC_{MAX}) for the new or existing air contaminant.

20. Compare the total short-term off-property impact to the short-term ESL for the air contaminant as shown below to determine if it is less than or equal to the ESL. If the total off-property impact exceeds the short-term ESL, then a permit amendment is required to authorize the emission rate for the air contaminant.

Total $GLC_{MAX} \leq ESL_{SHORT}$

Where:

Total GLC_{MAX} = The sum of the short-term GLCs from each emission point.

ESL_{SHORT} = The short-term ESL of the new or existing air contaminant from the most current set of ESLs available through the TCEQ Toxicity Factor Database and the date of the database retrieval or as specifically derived by the TCEQ Toxicology Division. The ESL shall be obtained in writing prior to the use of the new or increased air contaminant.

20. For all other new air contaminants or increases in existing air contaminants, the following procedure shall be completed to determine if the annual impacts are acceptable.

20. Determine the annual emission rate (tpy) of each air contaminant including emissions of the same air contaminant (if an existing air contaminant) from the currently authorized materials that may be emitted at the same time from each emission point.

20. Convert the annual emission rate to an hourly emission rate using 8760 hours per year and 2000 pounds per ton.

20. Multiply the hourly emission rate (lb/hr) of the air contaminant determined in paragraph H(2) of this special condition by the Long-Term unit impact multiplier for each emission point from the table provided in paragraph G(2) of this special condition to determine the off-property impact (Annual GLC_{MAX}) for each emission point.

20. Sum the annual impacts from each emission point to determine a total off-property annual impact (Annual GLC_{MAX}) for the new or existing air contaminant.

20. Compare the annual off-property impact to the annual ESL for the air contaminant as shown below to determine if it is less than or equal to the ESL. If the annual off-property impact exceeds the annual ESL, then a permit amendment is required to authorize the emission rates for the air contaminant.

    Annual $GLC_{MAX} \leq ESL_{ANNUAL}$

    Where:

    ESL_{ANNUAL} = The annual ESL of the new or existing air contaminant from the most current set of ESLs available through the TCEQ Toxicity Factor Database or as specifically derived by the TCEQ Toxicology Division.

Maintenance, Startup, and Shutdown (MSS) Events

21. The following MSS activities, which are planned and predictable and ensure the continuous normal operation of a facility or control device or return a facility or control device to normal operating conditions, are authorized:

    21. Routine vendor-recommended maintenance on the DEP. DEP downtime during maintenance shall be limited to a maximum of 144 hours per year. The following sources shall be shutdown for the entire duration of the DEP downtime:

        21. V-1 Mixing Chamber Stack (EPN 10)

        21. V-1 Facing Oven/Flexographic Printing Stack (EPN 11)

        21. V-1 Cooling Section Exhaust Stack (EPN 13)

    21. Overcoating of the V-2 and V-3 furnaces. Natural gas usage for the burners used during overcoating shall be limited to 500,000 standard cubic feet per year.

    21. Changeout of the V-2 and V-3 forehearth electrodes. Site-wide natural gas usage for electrode changeout activities shall be limited to 90,000 standard cubic feet per year.

    21. Maintenance on the V-2 and V-3 batch chargers when using the overhead feeding system. During batch charger maintenance activities, overhead feeding shall be limited to 64 hours per year.

        21. Upon completion of the next scheduled re-bricking of the V-2 furnace, overhead feeding during batch charger maintenance shall be limited to coarse cullet.

        21. Upon completion of the next scheduled re-bricking of the V-3 furnace, overhead feeding during batch charger maintenance shall be limited to coarse cullet.

    21. Routine maintenance on the V-1, V-2, and V-3 manufacturing lines including, but not limited to, replacing fiberizer chains and spinners in the V-1, V-2, and V-3 forming sections and cleaning out the cooling sections and smoke strippers when the line is down. Emissions from these maintenance activities shall not exceed the allowable emission rates for normal operations.

    21. Startup and shutdown of the V-2 and V-3 furnaces using pipeline-quality natural gas boost. Use of pipeline-quality natural gas boost during startup and shutdown shall be limited to 204 hours per year.

22. All maintenance activities shall be conducted to ensure compliance with the MAERT.

23. Entrained dust shall be allowed to settle prior to opening the control devices.

24. Upset conditions and the resulting emissions are not authorized by this permit.

25. No other maintenance activities are authorized by this permit.

Existing PBR/Standard Exemption Authorizations

26. As represented by the applicant, the following sources/operations are authorized by the associated PBR or Standard Exemption authorizations listed below:

Table 6: PBR or Standard Exemption Authorizations

Source/Operation	Registration Number	Standard Exemption (SE) or PBR Number
Cullet Water Cooling Tower (EPN 85)	84393	106.371
Asphalt Storage Tank (EPN 31)	N/A	106.472
Urea Solution Tank (EPN 34)	N/A	106.472
Urea Mix Tank (EPN 45)	N/A	106.472
Resin Storage Tank (EPN 29)	N/A	106.472
Resin Storage Tank (EPN 35)	N/A	106.472
MT Oil Storage Tank (EPN 33)	N/A	106.472
Adhesive Tank 1 (EPN 61)	N/A	106.472
Adhesive Tank 2 (EPN 62)	N/A	106.472
Equalization Basins (EPN 76)	N/A	106.472
Gas-Fired Boiler (North) (EPN 4)	N/A	SE007
Gas-Fired Boiler (South) (EPN 5)	N/A	SE007
Wash Water Surge Tank (EPN 28)	N/A	106.472
Wash Water Surge Tank (EPN 88)	N/A	106.472
Addition of Sodium Sulfate (salt cake) as a new ingredient into the V-1 glass formulation	45087	106.262
Increase in the vacuum blower capacity for each one of the V-2 Line E-II Autobaggers	113627	106.262
Two adhesives for the V-1 manufacturing line	162524	106.261, 106.262
Addition of ink-jet printers in the V-2 paper pit on the V-2 manufacturing line	162525	106.418

Demonstration of Continuous Compliance

27. Upon request by the Executive Director of the TCEQ or the TCEQ Regional Director having jurisdiction, the holder of this permit shall demonstrate compliance with the MAERT, Confidential File Summary, and 40 CFR Part 60, by performing stack sampling and/or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere for the sources as listed in those pollutants listed. Requests to waive testing for any pollutant specified in this condition shall be submitted in writing to the TCEQ Dallas/Fort Worth Regional Office and the TCEQ Office of Air, Air Permits Division.

Table 7: Sources to be Tested

Source	EPN	Air Contaminant*
V-1 Furnace/DEP Stack	3	PM, PM_{10}, $PM_{2.5}$, NO_x, total VOCs, SO_2, and CO
V-2 Furnace Dual Stacks	19 and 20	PM, PM_{10}, $PM_{2.5}$, NO_x, total VOCs, SO_2, and CO
V-3 Furnace Dual Stacks	38 and 39	PM, PM_{10}, $PM_{2.5}$, NO_x, total VOCs, SO_2, and CO
Mixing Chamber Stacks	10, 22, 40	PM, PM_{10}, $PM_{2.5}$, NO_x, speciated VOCs, SO_2, CO, and Ammonia

* PM - particulate matter, suspended in the atmosphere, including PM_{10}
PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter.
NO_x - nitrogen oxide
SO_2 - sulfur dioxide
CO - carbon monoxide
total VOCs - volatile organic compounds

28. This sampling shall demonstrate that these units are achieving less than or equal to the applicable maximum allowable emission limits.

29. Total VOC, speciated VOCs (including but not limited to phenol, formaldehyde, and methanol), SO_2, PM, PM_{10}, $PM_{2.5}$, NO_x, and CO emissions shall be determined by appropriate U.S. EPA and/or TCEQ reference methods as approved, in writing, by the TCEQ Executive Director.

30. To determine compliance with the PM emission limit for the DEP, the following equation shall be used:

$$E = C \times Q \times K1$$

Where:

E = Emission rate of PM, lb/hour (hr);
C = Concentration of PM, grains (gr)/dry standard cubic feet (dscf);
Q = Volumetric flow rate of exhaust gases, dscf/hr; and
K1= Conversion factor, 1 lb/7,000 gr.

31. On and after the date on which the performance test required to be conducted by Special Condition No. 36 is completed, the DEP (EPN 3) shall be monitored according to the following requirements.

    31. Prepare a written operations, maintenance, and monitoring plan. The plan must include the following information:

        31. Procedures for the proper operation and maintenance of the DEP used to meet the emission limits in the MAERT, Confidential File Summary, and Special Conditions;

        31. Procedures for the proper operation and maintenance of monitoring devices used to determine compliance, including quarterly calibration and certification of accuracy of each monitoring device according to the manufacturer's instructions;

        31. Corrective actions taken when the DEP parameters deviate from the limit(s) established during initial performance tests. Exceedances/deviations are defined as any monitoring data that are less than 70 percent of the lowest value or greater than 130 percent of the highest value recorded during the most recent performance test;

        31. The DEP operating parameter(s) and the minimum and/or maximum value(s) that will be used to identify any operational problems;

        31. A schedule for monitoring the DEP operating parameter(s);

        31. Recordkeeping procedures to show that the DEP operating parameter(s) is within the limit(s) established during the performance test; and

        31. Procedures for the proper operation and maintenance of the DEP.

    31. All DEP operating parameters established during the initial performance tests may be allowed to change if additional performance testing is conducted to verify that, at the new DEP parameter levels, the DEP complies with the applicable emission limits in the MAERT, Confidential File Summary, and Special Conditions. Conduct all additional performance tests according to the procedures in the Special Conditions and 40 CFR Part 63, Subpart A, that are applicable to hot top glass furnaces equipped with PM control devices.

32. The holder of this permit shall conduct a quarterly visible fugitive emissions determination to demonstrate compliance with the visible emissions limitation specified in this permit. This visible fugitive emissions determination shall be performed: 1) during normal plant operations, 2) for a minimum of six minutes, 3) approximately perpendicular to plume direction, 4) with the sun behind the observer (to the extent practicable), 5) at least 15 feet, but not more than 0.25 mile, from the plume, and 6) in accordance with EPA 40 CFR Part 60, Appendix A, Test Method 22, except where stated otherwise in this condition. If visible fugitive emissions leaving the property exceed 30 cumulative seconds in any six-minute period, the owner or operator shall take immediate action (as appropriate) to eliminate the excessive visible fugitive emissions. The corrective action shall be documented within 24 business hours of completion.

Sampling Requirements

33. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at their own expense. Sampling ports and platforms shall be incorporated into the design of the stacks according to the specifications set forth in the attachment entitled “Guidelines for Stack Sampling Facilities” prior to stack sampling. Alternate sampling facility designs may be submitted for approval by the TCEQ Dallas/Fort Worth Regional Office.

34. A pretest meeting shall be held with personnel from the TCEQ before the required tests are performed. The TCEQ Dallas/Fort Worth Regional Office shall be notified not less than 45 days

prior to sampling to schedule a pretest meeting. Test methods to be used shall be determined at this pretest meeting. The notice shall include:

34. Date for pretest meeting;
34. Date sampling will occur;
34. Points or sources to be sampled;
34. Name of firm conducting sampling;
34. Type of sampling equipment to be used;
34. Method or procedure to be used in sampling;
34. Any alternate testing proposal shall include details of sampling methods, the representative emission sources to be tested, and maximum operating conditions; and
34. Proposed representative EPNs or sources to be sampled.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, establish critical operating conditions for successful sampling, and to review the format procedures for submitting the test reports.

35. Alternate sampling methods and representative unit testing may be proposed by the permit holder. A written proposed description of any deviation from sampling procedures or emission sources specified in permit conditions or TCEQ or U.S. EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. Such proposal must be approved, in writing, by the TCEQ Dallas/Fort Worth Regional Director and the TCEQ Office of Air, Air Permits Division in Austin at least two weeks prior to sampling.

36. During stack sampling emission testing, the facilities shall operate at maximum represented operating parameters and, for the V-1 furnace, minimum oxygen purity, as listed in the Confidential File Summary. Primary operating parameters for the furnaces shall be monitored and recorded during the stack test. Primary operating parameters and allowed operating parameter ranges are listed in the Confidential File Summary.

    During stack sampling emission testing of the V-1 Furnace DEP (EPN 3), the V-1 furnace shall operate at maximum represented operating parameters, as listed in the Confidential File Summary. Primary operating parameters for the furnaces shall be monitored and recorded during the stack test. Primary operating parameters and allowed operating parameter ranges are listed in the Confidential File Summary.

    If the plant is unable to operate at maximum represented production or throughput rates during testing, then additional stack testing shall be required when the glass production rate exceeds the previous stack test production rate by +10 percent unless otherwise determined, in writing, by the TCEQ Executive Director.

37. Requests for additional time to perform sampling shall be submitted to the TCEQ Dallas/Fort Worth Regional Office. Additional time to comply with the federally applicable requirements requires U.S. EPA approval, and copies of requests shall be submitted to the TCEQ Dallas/Fort Worth Regional Office.

38. As a result of the pretest meeting, the company shall submit a complete sampling proposal for review by the TCEQ Dallas/Fort Worth Regional Director. The TCEQ Dallas/Fort Worth Regional Director shall review this proposal and either approve or deny the sampling no later than 45 days

from submittal receipt. Once the testing proposal is approved by the TCEQ Dallas/Fort Worth Regional Director, sampling shall occur as approved.

39. Copies of the final sampling report shall be submitted to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

    One copy to the TCEQ Dallas/Fort Worth Regional Office.
    One copy to the TCEQ Office of Air, Air Permits Division in Austin.
    One copy to each appropriate local air pollution control program.

40. If, as a result of stack sampling, compliance with the permitted emission rates cannot be demonstrated, the holder of this permit shall adjust any operating parameters so as to comply with Special Condition No. 1 and the permitted emission rates.

41. If the holder of this permit is required to adjust any operating parameters for compliance, then beginning no later than 60 days after the date of the test conducted, the holder of this permit shall submit to the TCEQ, on a monthly basis until a permit amendment has been approved or until a re-test showing compliance is performed, a record of adjusted operating parameters and daily records of glass production and binder usage rates sufficient to demonstrate compliance with the permitted emission rates. Daily records of glass production, binder usage rates, and operating parameters shall be distributed as follows:

    One copy to the TCEQ Dallas/Fort Worth Regional Office.
    One copy to the TCEQ Office of Air, Air Permits Division in Austin.

Recordkeeping

42. Records shall be maintained at this facility and made available at the request of personnel from the TCEQ or any other air pollution control program having jurisdiction to demonstrate compliance with the permit limitations. These records shall be totaled for each calendar month, retained for a rolling 60-month period, and include the following:

    42. Records required by 40 CFR Part 60, Subparts A and Kb;

    42. Records required by 40 CFR Part 63, Subparts A, NNN, JJJJ, ZZZZ, and DDDDD;

    42. Hourly and annual glass pull rates for each furnace (in tons/hour and tons/year, respectively);

    42. Resin premixes and their respective usage rates (in gallons/hour), summarized on a monthly basis for the V-1 manufacturing line when using the phenol/formaldehyde-based binder;

    42. Hourly binder solids usage rates (in tons/hour), summarized on a monthly basis for each of the three manufacturing lines when using the thermosetting resin binder;

    42. All chemicals used and their respective usage rates (in tons/hour), summarized on a monthly basis, on which the emissions calculations are based. The safety data sheet or speciated chemical information for all materials that are currently in use or on-site at this facility shall be maintained in one central, up-to-date file at the plant site. Records of new or replacement compounds shall be maintained to demonstrate compliance with Special Condition No. 20, including ERs and ESLs;

    42. Quarterly observations for visible fugitive emissions and/or opacity determinations from the EPNs listed in Opacity/Visible Emission Limitation section of these Special Conditions;

42. Records demonstrating that the combined total actual annual emissions from the V-1, V-2, and V-3 manufacturing lines (EPNs 10, 13, 22, 23, 55, 40, 41, and 56) do not exceed 157.34 tons/year;

42. Annual site-wide ink usage (in gallons/year);

42. DEP parameter value(s) used to monitor the DEP performance, including any period when the value(s) deviated from the established limit(s) (as noted in Special Condition No. 43.A), the date and time of the deviation, when corrective actions were initiated, the cause of the deviation, an explanation of the corrective actions taken, and when the cause of the deviation was corrected;

42. Glass pull rate of the V-1 Furnace, including any period when the pull rate exceeded the average pull rate established during the performance test by more than 20 percent, the date and time of the exceedance, when corrective actions were initiated, the cause of the exceedance, an explanation of the corrective actions taken, and when the cause of the exceedance was corrected;

42. Hours when the V-1 Furnace Dry Electrostatic Precipitator Bypass Stack (EPN 6) is used as a bypass; and

42. MSS records including the following:

    42. Manufacturer's maintenance schedule for the DEP and records of all maintenance performed on the DEP;

    42. Natural gas usage for the burners used during overcoating of the V-2 and V-3 furnaces;

    42. Natural gas usage during V-2 and V-3 forehearth electrode changeouts;

    42. Dates and hours of V-2 and V-3 batch charger maintenance;

    42. Dates and descriptions of V-1, V-2, and V-3 manufacturing line maintenance activities; and

    42. Duration of pipeline-quality natural gas boost during startup and shutdown of the V-2 and V-3 furnaces.

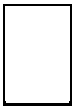
43. If furnace stack testing performed in accordance with the Special Conditions results in an emission of PM, after adjustment to maximum allowable furnace production rate, less than 83.3 percent of the rates indicated on the attached MAERT, the TCEQ may require the permit to be altered to reflect the maximum ER determined during stack testing plus not more than 20 percent. As an alternative, the TCEQ may require that the facilities be retested to establish more representative ERs.

44. A copy of this permit and the Confidential File Summary shall be maintained at this facility and made available to at the request of personnel from the TCEQ.

Date: November 16, 2020

savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Savannah Quiros
Sent: Tuesday, July 30, 2024 1:39 PM
To: Kate Gross <KGross@trinityconsultants.com>
Cc: Raj Alphones <Raj.Alphones@trinityconsultants.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Hi Kate,

No worries, thank you for letting me know. I'll anticipate your response 08/02/2024.

Best,

Savannah Quiros (x1228)
(they/them/theirs)
Permit Reviewer – Title V

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Friday, July 26, 2024 3:55 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Raj Alphones <Raj.Alphones@trinityconsultants.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Savannah,

Please find the following responses to the additional information request received from TCEQ on July 24, 2024:

- OP-UA2, Page 11: please send an updated form with Model Year entered for CWBU and PCWBU2

  OCIS Response: Please find attached the updated Table 5b of Form OP-UA2 with Model Year entered for Engines with Unit IDs, CWBU and PCWSBU2.

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Friday, July 26, 2024 3:55 PM
To: Savannah Quiros
Cc: Raj Alphones; Teneng(Fuoching), Chiajo; Desloges, Jacquelyn
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant
Attachments: OP-UA2 Updated.pdf

Savannah,

Please find the following responses to the additional information request received from TCEQ on July 24, 2024:

- OP-UA2, Page 11: please send an updated form with Model Year entered for CWBU and PCWBU2

  OCIS Response: Please find attached the updated Table 5b of Form OP-UA2 with Model Year entered for Engines with Unit IDs, CWBU and PCWSBU2.

- OP-UA18, Table 8a: please send an updated form with VOC Emission Rate entered for GRP-FAB

  OCIS Response: We are currently reviewing the requirements for GRP-FAB and determined that additional time is required to provide a complete response to this item. Therefore, we request an extension to submit the response by 08/02/2024. Please let us know if you have any questions or concerns.

Thank you,
Kate

Kate Gross
Principal Consultant
P 972.661.8100 M 214.405.1598

Trinity Consultants

12700 Park Central, Suite 600, Dallas, TX 75251
Email: kgross@trinityconsultants.com
LinkedIn: https://www.linkedin.com/in/kate-gross-2277b85/

Connect with us: LinkedIn / Facebook / Twitter / YouTube / trinityconsultants.com

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, July 24, 2024 2:02 PM
To: Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 11)
Federal Operating Permit Program
Table 5b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
07/26/2024	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Diesel	AES No.	Displacement	Generator Set	Model Year	Install Date
CWBU	**60IIII-1**	**DIESEL**		**10-**		**2017+**	
PCWSBU2	**60IIII-1**	**DIESEL**		**10-**		**2011**	

Hi Kate,

I've run into a few issues in our information management system, and I think I know what will fix the problems. Please see below:

- OP-UA2, Page 11: please send an updated form with Model Year entered for CWBU and PCWBU2
- OP-UA18, Table 8a: please send an updated form with VOC Emission Rate entered for GRP-FAB

Please email the forms to me or submit them through STEERS by ***07/26/2024.***

Best,

Savannah Quiros (x1228)
(they/them/theirs)
Permit Reviewer – Title V

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Monday, June 17, 2024 10:47 AM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Raj Alphones <Raj.Alphones@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Thank you. Your flexibility is appreciated.

Best,
Kate

Kate Gross
Principal Consultant
P 972.661.8100 M 214.405.1598

12700 Park Central, Suite 600, Dallas, TX 75251
Email: kgross@trinityconsultants.com
LinkedIn: https://www.linkedin.com/in/kate-gross-2277b85/

Connect with us: LinkedIn / Facebook / Twitter / YouTube / trinityconsultants.com

---

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Monday, June 17, 2024 9:19 AM
To: Kate Gross <KGross@trinityconsultants.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo

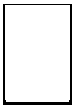
<Chiajo.Teneng@owenscorning.com>; Raj Alphones <Raj.Alphones@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Kate,

Yes, we can wait until the end to certify. You will either submit all forms via STEERS or submit the final form OP-CRO1 as an attachment through STEERS with the appropriate time period filled out (this option is probably less hassle). I'll give you the time period once we're ready for the OP-CRO1.

Sincerely,

Savannah G. Quiros
(they/them/theirs)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Friday, June 14, 2024 11:28 AM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Raj Alphones <Raj.Alphones@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Savannah,

Would it be possible to wait until the end so that the RO only has to sign via STEERS at one time? Please advise.

Thank you,
Kate

Kate Gross
Principal Consultant
P 972.661.8100 M 214.405.1598

12700 Park Central, Suite 600, Dallas, TX 75251
Email: kgross@trinityconsultants.com
LinkedIn: https://www.linkedin.com/in/kate-gross-2277b85/

Connect with us: LinkedIn / Facebook / Twitter / YouTube / trinityconsultants.com

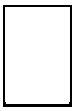
From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, June 12, 2024 1:01 PM
To: Kate Gross <KGross@trinityconsultants.com>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Raj Alphones <Raj.Alphones@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Hi Kate,

Please send the forms through STEERS so that they are certified. Let me know when you've submitted them.

Sincerely,

Savannah G. Quiros
(they/them/theirs)
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Monday, June 10, 2024 4:15 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>; Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Raj Alphones <Raj.Alphones@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Savannah,

Please find attached comments on the WDP review as well as a Title V supplement related to the changes discussed in the email dated April 17, 2024.

- The Chapter 115 Vent Gas Rule Applicability has been removed for EPN 10 - **This needs to be added back into the TV permit. Please find attached a revised OP-UA15 Form.**
- The applicable requirements for PRO-V1LINE 63NNN-1 were removed from the existing permit. **These requirements need to remain in the Title V permit.**
- CWBU – **Please see the attached form updates to update the requirements for this engine.**

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Monday, June 10, 2024 4:15 PM
To: Savannah Quiros; Desloges, Jacquelyn
Cc: Darst, Christy; Teneng(Fuoching), Chiajo; Raj Alphones
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant
Attachments: OP-PBRSUP.pdf; OP-2 Form.pdf; OP-REQ3.pdf; OP-UA2 Updated.pdf; OP-UA3 Updated.pdf; OP-SUMR.pdf; WDP - O1094 Owens Corning Insulating Systems, LLC (Renewal, 35476).docx; OP-UA15.pdf

Savannah,

Please find attached comments on the WDP review as well as a Title V supplement related to the changes discussed in the email dated April 17, 2024.

- The Chapter 115 Vent Gas Rule Applicability has been removed for EPN 10 - **This needs to be added back into the TV permit. Please find attached a revised OP-UA15 Form.**
- The applicable requirements for PRO-V1LINE 63NNN-1 were removed from the existing permit. **These requirements need to remain in the Title V permit.**
- CWBU – **Please see the attached form updates to update the requirements for this engine.**
- PCWSBU2 – Please see the attached forms to add this engine to the Title V.
- 72DIE – Please see the attached forms to split this tank into two tanks.
- GRP-BOIL - Chapter 117 - Added 117.435(e) and (e)(2) - **I don't think 117.435(e) and (e) (2) should be added since these requirements seem related to CEMS.**
- Permit shields were removed for the Process lines **– Please add these existing permit shields back into the Title V permit.**
- NSR permit amendment – At this time, there are no changes in applicable requirements proposed as part of the permit amendment application for the Title V. There was only a change in representations for the inks. Please see the attached OP-2 Form.

Thank you,
Kate

Kate Gross
Principal Consultant
P 972.661.8100 M 214.405.1598

12700 Park Central, Suite 600, Dallas, TX 75251
Email: kgross@trinityconsultants.com
LinkedIn: https://www.linkedin.com/in/kate-gross-2277b85/

Connect with us: LinkedIn / Facebook / Twitter / YouTube / trinityconsultants.com

---

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Thursday, June 6, 2024 2:49 PM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Anastasia Lassmann

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality

Date: 06/10/2024
Permit No.: O-1094
Regulated Entity No.: RN100223585
Company Name: Owens Corning Insulating Systems, LLC

Using the table below, provide a description of the revision.

Revision No.	Revision Code		Unit/Group	Process	NSR Authorization	Description of Change and Provisional Terms and Conditions
		New Unit	ID No.	Applicable Form		
8	MS-C	No	72DIE_A	OP-UA3	PBR No. 106.472	Represent two diesel storage tanks (Unit IDs 72DIE_A and 72DIE_B) instead of one (Unit ID 72DIE) based on the current site operations.
9	MS-C	No	72DIE_B	OP-UA3	PBR No. 106.472	Represent two diesel storage tanks (Unit IDs 72DIE_A and 72DIE_B) instead of one tank (Unit ID 72DIE) based on the current site operations.
10	MS-C	No	CWBU	OP-UA2	PBR No. 106.511	Replace the representations for Backup Cullet Water Pump from 80 hp Engine to 598 hp Engine
11	MS-C	Yes	PCWSBU2	OP-UA2	PBR No. 106.511	Add a new Process Cooling Water Backup Pump driven engine with capacity of 598 hp
12	MS-C	NO	01FAB (246), 02FAB (53, INKPRINT), 03FAB(54)	OP-REQ1	6093	Amendment to increase ink usage for the V-1, V-2, and V-3 manufacturing lines and revise permit Special Conditions. VOC emissions increase. No changes in applicable requirements

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 1)

Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number
6/10/2024	O-1094	RN100223585

Unit ID	Registration Number	PBR No.	Registration Date
3	45087	106.262	08/18/2000
30	78155	106.472	03/24/2006
85	84393	106.371	04/10/2008
02FAB	113627	106.262	11/07/2013
11	162524	106.261	09/25/2020
11	162524	106.262	09/25/2020
53	162525	106.418	05/19/2021

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 2)

Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number
6/10/2024	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date
07USST	106.472	09/04/2000
07UPST	106.472	09/04/2000
07REST1	106.472	03/14/1997
07BOST	106.473	03/14/1997
07WOST	106.473	03/14/1997
07ASST	106.472	03/14/1997
72DIE_A	106.472	09/04/2000
72DIE_B	106.472	09/04/2000
73GAS	106.473	03/14/1997
07FOST	106.472	09/04/2000
07WWST	106.472	09/04/2000
09DYE	106.472	09/04/2000
Small Tanks and Totes	106.472	09/04/2000
09REST3	106.472	09/04/2000
347	106.532	09/04/2000
09ADST1	106.472	03/14/1997
09ADST2	106.472	03/14/1997
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000
76	106.472	09/04/2000
443	106.472	09/04/2000
63	106.371	03/14/1997
64	106.371	03/14/1997
65	106.371	03/14/1997
66	106.371	03/14/1997
67	106.371	03/14/1997
49	106.183	09/04/2000
13NBOIL	SE 7	11/05/1986
13SBOIL	SE 7	11/05/1986
HWBUV1	106.511	03/14/1997
FWCBUV1	106.511	03/14/1997
FWCBUV2	106.511	03/14/1997
FWCBUV3	106.511	03/14/1997
CWBU	106.511	09/04/2000
PCWSBU	106.511	03/14/1997
PCWSBU2	106.511	09/04/2000
HWBUV2	106.511	03/14/1997
HWBUV3	106.511	03/14/1997
Sandblasters	106.452	03/14/1997
Welding	106.227	09/04/2000
Water Treatment Chemicals	106.371	09/04/2000
Safety Kleen Stations	106.454	11/01/2001
Chiller Systems	106.373	03/14/1997
Site_MSS	106.263	11/01/2001
Hand held Machines	106.265	09/04/2000

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 3)

Table C: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area

Date	Permit Number	Regulated Entity Number
6/10/2024	O-1094	RN100223585

PBR No.	Version No./Date
106.453	09/04/2000
106.122	03/14/1997

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 4)

Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number
6/10/2024	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
3	106.262	08/18/2000	Record annual throughput of sodium sulfate and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
30	106.472	03/24/2006	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
85	106.371	04/10/2008	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
02FAB	106.262	11/07/2013	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.261	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.262	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
53	106.418	05/19/2021	Record annual ink and solvent usage and use underlying emission calculation methods to determine actual emissions
07USST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07UPST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07REST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07BOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07ASST	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_A	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE_B	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
73GAS	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07FOST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WWST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09DYE	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
Small Tanks and Totes	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09REST3	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
347	106.532	09/04/2000	Record annual hours of operation.
09ADST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09ADST2	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
76	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
443	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
63	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
64	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
65	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
66	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
67	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
49	106.183	09/04/2000	Record annual fuel usage and use underlying emission factors to calculate emissions and demonstrate compliance with PBR limits
HWBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV2	106.511	03/14/1997	Record annual hours of operation
FWCBUV3	106.511	03/14/1997	Record annual hours of operation
CWBU	106.511	09/04/2000	Record annual hours of operation
PCWSBU	106.511	03/14/1997	Record annual hours of operation
PCWSBU2	106.511	09/04/2000	Record annual hours of operation
HWBUV2	106.511	03/14/1997	Record annual hours of operation
HWBUV3	106.511	03/14/1997	Record annual hours of operation
Sandblasters	106.452	03/14/1997	Maintain operating hours and abrasive material usage on annual basis
Welding	106.227	09/04/2000	Record annual usage of weld rods and lead content for maintenance activities to ensure 0.6 tpy emission limit for lead is met
Water Treatment Chemicals	106.371	09/04/2000	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
Safety Kleen Stations	106.454	11/01/2001	Record annual usage of solvent
Chiller Systems	106.373	03/14/1997	Maintain documentation of refrigeration chemical
Site_MSS	106.263	11/01/2001	Record details of maintenance activities for baghouse filter repacement, solvent/lubricant usage, vacuum trucks, and boiler maintenance and use the underlying emission calculations to demonstrate compliance with 24-hour emission limits. The details to be recorded include: - Type and reason for the activity - Process and equipment involved - Material usage - Date, time, and duration of the activity - Air contaminants and amounts emitted as a result of the activity
Hand held Machines	106.265	09/04/2000	Annual hours of grinding operations

Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program
Table 1a: Additions

Date: 6/10/2024	**Regulated Entity No.:** RN100223585	**Permit No.:** O-1094
Company Name: Owens Corning Insulating Systems, LLC	**Area Name:** Owens Corning Insulating Systems Waxahachie Plant	

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Applicable Form			Name	Standard(s)
10	CWBU	OP-UA2	R7403-2	NOX	30 TAC Chapter 117	[G]§117.*403(a)(9)* §117.*403(a)* [G]§117.*410(f)*
11	PCWSBU2	OP-UA2	R7403-2	NOX	30 TAC Chapter 117	[G]§117.*403(a)(9)* §117.*403(a)* [G]§117.*410(f)*
10	CWBU	OP-UA2	63ZZZZ-5	HAPS	MACT ZZZZ	§63.*6590(b)(1)* [R]§63.*6595(c)* [D]§63.*6640(f)(1)* [D]§63.*6640(f)(2)* [D]§63.*6640(f)(2)(i)* [D]§63.*6640(f)(3)*
11	PCWSBU2	OP-UA2	63ZZZZ-5	HAPS	MACT ZZZZ	§63.*6590(b)(1)* [R]§63.*6595(c)* [D]§63.*6640(f)(1)* [D]§63.*6640(f)(2)* [D]§63.*6640(f)(2)(i)* [D]§63.*6640(f)(3)*

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Applicable Form			Name	Standard(s)
10	CWBU	OP-UA2	60IIII-1	NMHC + NOX	NSPS IIII	§60.*4205(b)* [D]§60.*4202(a)(2)* [R]§60.*4206* [R]§60.*4207(b)* [GD]§60.*4211(a)* [D]§60.*4211(c)* [GR]§60.*4211(f)* [D]§1039-*Appendix I*
10	CWBU	OP-UA2	60IIII-1	CO	NSPS IIII	§60.*4205(b)* [D]§60.*4202(a)(2)* [R]§60.*4206* [R]§60.*4207(b)* [GD]§60.*4211(a)* [D]§60.*4211(c)* [GR]§60.*4211(f)* [D]§1039-*Appendix I*

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Applicable Form			Name	Standard(s)
10	CWBU	OP-UA2	60IIII-1	PM	NSPS IIII	§60.*4205(b)* [D]§60.*4202(a)(2)* [R]§60.*4206* [R]§60.*4207(b)* [GD]§60.*4211(a)* [D]§60.*4211(c)* [GR]§60.*4211(f)* [D]§1039-*Appendix I*
11	PCWSBU2	OP-UA2	60IIII-1	NMHC + NOX	NSPS IIII	§60.*4205(b)* [D]§60.*4202(a)(2)* [R]§60.*4206* [R]§60.*4207(b)* [GD]§60.*4211(a)* [D]§60.*4211(c)* [GR]§60.*4211(f)* [D]§1039-*Appendix I*

Revision No.	Unit/Group/Process		SOP/GOP Index No.	Pollutant	Applicable Regulatory Requirement	
	ID No.	Applicable Form			Name	Standard(s)
11	PCWSBU2	OP-UA2	60IIII-1	CO	NSPS IIII	§60.*4205(b)* [D]§60.*4202(a)(2)* [R]§60.*4206* [R]§60.*4207(b)* [GD]§60.*4211(a)* [D]§60.*4211(c)* [GR]§60.*4211(f)* [D]§1039-*Appendix I*
11	PCWSBU2	OP-UA2	60IIII-1	PM	NSPS IIII	§60.*4205(b)* [D]§60.*4202(a)(2)* [R]§60.*4206* [R]§60.*4207(b)* [GD]§60.*4211(a)* [D]§60.*4211(c)* [GR]§60.*4211(f)* [D]§1039-*Appendix I*

Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program
Table 1b: Additions

Date: 6/10/2024	**Regulated Entity No.:** RN100223585	**Permit No.:** O-1094
Company Name: Owens Corning Insulating Systems, LLC	**Area Name:** Owens Corning Insulating Systems Waxahachie Plant	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
10	CWBU	R7403-2	NOX	None	[R]§117.440(i) [R]§117.445(f) [R]§117.445(f)(4) [GR]§117.445(f)(9)	None
11	PCWSBU2	R7403-2	NOX	None	[R]§117.440(i) [R]§117.445(f) [R]§117.445(f)(4) [GR]§117.445(f)(9)	None
10	CWBU	63ZZZZ-5	HAPS	None	None	[R]§63.6645(f)
11	PCWSBU2	63ZZZZ-5	HAPS	None	None	[R]§63.6645(f)
10	CWBU	60IIII-1	NMHC + NOX	None	None	[GD]§60.4214(d)
10	CWBU	60IIII-1	CO	None	None	[GD]§60.4214(d)

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
10	CWBU	60IIII-1	PM	None	None	[GD]§60.4214(d)
11	PCWSBU2	60IIII-1	NMHC + NOX	None	None	[GD]§60.4214(d)
11	PCWSBU2	60IIII-1	CO	None	None	[GD]§60.4214(d)
11	PCWSBU2	60IIII-1	PM	None	None	[GD]§60.4214(d)

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
06/10/2024	O-1094	RN100223585

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/ Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106	Preconstruction Authorizations Title I
A	8	72DIE_A	OP-UA3	Diesel Tank		106.472/09/04/2000	
A	9	72DIE_B	OP-UA3	Diesel Tank		106.472/09/04/2000	
	10	CWBU	OP-UA2	Cullet Water Backup Pump		106.511/09/04/2000	
A	11	PCWSBU2	OP-UA2	Process Cooling Water Backup Pump		106.511/09/04/2000	
D	8 and 9	72DIE	OP-UA3	Diesel Tank			

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 1)
Federal Operating Permit Program
Table 1a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
06/10/2024	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Horsepower Rating	RACT Date Placed in Service	Functionally Identical Replacement	Type of Service	Fuel Fired	Engine Type	ESAD Date Placed in Service	Diesel HP Rating
CWBU	**R7403-2**	**50+**			**D2007+**				
PCWSBU2	**R7403-2**	**50+**			**D2007+**				

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 4)
Federal Operating Permit Program
Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
06/10/2024	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	HAP Source	Brake HP	Construction/ Reconstruction Date	Nonindustrial Emergency Engine	Service Type	Stationary RICE Type
CWBU	**63ZZZZ-5**	**MAJOR**	**500+**	**06+**		**EMER-A**	
PCWSBU2	**63ZZZZ-5**	**MAJOR**	**500+**	**06+**		**EMER-A**	

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 10)
Federal Operating Permit Program
Table 5a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
06/10/2024	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Applicability Date	Exemptions	Service	Commencing	Manufacture Date
CWBU	**60IIII-1**	**2005+**	**NONE**	**EMERG**	**CON**	**0406+**
PCWSBU2	**60IIII-1**	**2005+**	**NONE**	**EMERG**	**CON**	**0406+**

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 11)
Federal Operating Permit Program
Table 5b: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
06/10/2024	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Diesel	AES No.	Displacement	Generator Set	Model Year	Install Date
CWBU	**60IIII-1**	**DIESEL**		**10-**			
PCWSBU2	**60IIII-1**	**DIESEL**		**10-**			

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 1)
Federal Operating Permit Program
Table 1: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart K: Standards of Performance for Storage Vessels for Petroleum Liquids
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
06/10/2024	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Construction/ Modification Date	Storage Capacity	Product Stored	True Vapor Pressure	Storage Vessel Description	Reid Vapor Pressure	Maximum TVP	Estimated TVP	Control Device ID No.
72DIE_A		73-								
72DIE_B		73-								

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 4)
Federal Operating Permit Program
Table 4a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
06/10/2024	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Alternate Control Requirement	ACR ID No.	Product Stored	Storage Capacity	Throughput	Potential to Emit	Uncontrolled Emissions
72DIE_A		NO		VOC1	A1K-			
72DIE_B		NO		VOC1	A1K-			

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 5)
Federal Operating Permit Program
Table 4b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
06/10/2024	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Construction Date	Tank Description	True Vapor Pressure	Primary Seal	Secondary Seal	Control Device Type	Control Device ID No.
72DIE_A								
72DIE_B								

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)
Federal Operating Permit Program
Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
06/10/2024	O-1094	RN100223585

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
09QBCT2	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBCT3	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBCT4	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBCT5	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBMT1	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBMT2	R5127-2	NO	NO	REGVAPPL		100-		YES
GRP-MIX	R5127-1	NO	NO	REGVAPPL			612-	YES
10	R5127-1	NO	NO	REGVAPPL			612-	YES
13	R5127-1	NO	NO	REGVAPPL			612-	YES

Applicable Requirements Summary

Unit Summary **15**

Applicable Requirements Summary **24**

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Commented [KHG1]: The requirements for PRO-V1LINE should be added back into the TV permit related to MACT NNN.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
09REST2	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
09REST3	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
10	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
10	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	111-MIX	30 TAC Chapter 111, Visible Emissions	No changing attributes.
13	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R111-GRPVENT	30 TAC Chapter 111, Visible Emissions	No changing attributes.
13	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
17	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111-V	30 TAC Chapter 111, Visible Emissions	No changing attributes.
17	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-2	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
23	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
41	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
55	EMISSION	N/A	R5127-1	30 TAC Chapter 115, Vent	No changing attributes.

Commented [KHG2]: Chapter 115 requirements for EPN 10 should be included. Please see the updated OP-UA15.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	POINTS/STATIONARY VENTS/PROCESS VENTS			Gas Controls	
56	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R5127-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
72DIEUL	LOADING/UNLOADING OPERATIONS	N/A	R5211-1	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
CWBU	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
CWBU	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWCBUV1	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
FWCBUV1	SRIC ENGINES	N/A	63ZZZZ-1	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWCBUV2	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
FWCBUV2	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
FWCBUV3	SRIC ENGINES	N/A	R7403-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
FWCBUV3	SRIC ENGINES	N/A	63ZZZZ-2	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-ASPH	SURFACE COATING OPERATIONS	01ASPH	63JJJJ-1	40 CFR Part 63, Subpart JJJJ	No changing attributes.
GRP-BKUP	EMISSION POINTS/STATIONARY	CWBU, FWCBUV1, HWBUV1, PCWSBU	R111-GRPBKUP	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Commented [KHG3]: Updated requirements are provided for this engine with this submittal.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
									[G]§ 117.8010(7)
GRP-BOIL	EU	R7410-3	NO_x	30 TAC Chapter 117, Subchapter B	§ 117.410(a)(1)(C) [G]§ 117.403(c) § 117.410(a) § 117.410(b)(2) [G]§ 117.410(e)(1) § 117.410(e)(2) [G]§ 117.410(e)(3) § 117.410(e)(4) § 117.430(b) § 117.430(b)(1) § 117.440(j)	No person shall allow the discharge from gas-fired boilers with a maximum rated capacity less than 40 MMBtu/hr, NOx emissions in excess of 0.036 lb/MMBtu (or alternatively, 30 parts per million by volume (ppmv) NOx, at 3.0% oxygen, dry basis).	§ 117.435(a)(1) § 117.435(a)(3) § 117.435(b) § 117.435(d) § 117.435(e) § 117.435(e)(2) § 117.440(a) § 117.440(k)(1) § 117.440(k)(2) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.445(a) § 117.445(f) § 117.445(f)(1) § 117.445(f)(8)	§ 117.435(f) § 117.445(b) [G]§ 117.445(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
GRP-BOIL	EU	63DDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.3 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7500(f) § 63.7505(a) § 63.7540(a) § 63.7540(a)(1) § 63.7540(a)(13)	A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater must conduct a tune-up of the boiler or process heater annually as specified in § 63.7540. Units in either the Gas 1 or Metal Process Furnace subcategories will conduct this tune-up as a work practice for all regulated emissions.	§ 63.7515(d) § 63.7530(g) § 63.7540(a) § 63.7540(a)(1) [G]§ 63.7540(c)	[G]§ 63.7555(a) § 63.7555(g) § 63.7555(h)	§ 63.7530(e) [G]§ 63.7545(e) [G]§ 63.7545(f) § 63.7550(a) [G]§ 63.7550(b) [G]§ 63.7550(c)
GRP-BOIL	EU	63DDDDD-1	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7500(a)(1)-Table 3.3 § 63.7500(a)(1) § 63.7500(a)(3) § 63.7505(a) § 63.7540(a)	A new or existing boiler or process heater without a continuous oxygen trim system and with heat input capacity of 10 million Btu per hour or greater must	§ 63.7515(d) [G]§ 63.7521(f) [G]§ 63.7521(g) § 63.7521(h) § 63.7521(i) § 63.7530(g)	§ 63.7555(a) § 63.7555(a)(1) § 63.7555(a)(2) § 63.7555(g) § 63.7555(h) § 63.7560(a)	[G]§ 63.7521(g) § 63.7530(e) § 63.7530(f) § 63.7545(a) § 63.7545(b) § 63.7545(c)

Commented [KHG4]: Please remove these requirements. The boilers do not have a CEMS.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
01CURE	N/A	30 TAC Chapter 117, Subchapter B	Curing ovens used in mineral wool-type fiberglass manufacturing in which nitrogen-containing resins are used.
01DRY	N/A	30 TAC Chapter 117, Subchapter B	Oven with maximum rated capacity less than 5.0 MMBtu/hr.
01FORM	N/A	30 TAC Chapter 117, Subchapter B	Forming oven or forming process used in a mineral wool-type fiberglass manufacturing.
01INCIN	N/A	30 TAC Chapter 117, Subchapter B	Capacity less than 40 MMBtu/hr.
01MELT	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion source not used to control emissions from a non-combustion source subject to the vent gas rule.
01MELT	N/A	40 CFR Part 60, Subpart CC	Construction commenced prior to June 15, 1979.
01MELT	N/A	40 CFR Part 60, Subpart N	Does not use commercial arsenic as a raw material.
02CURE	N/A	30 TAC Chapter 117, Subchapter B	Curing ovens used in mineral wool-type fiberglass manufacturing in which nitrogen-containing resins are used.
02FORM	N/A	30 TAC Chapter 117, Subchapter B	Forming oven or forming process used in a mineral wool-type fiberglass manufacturing.
02INCIN	N/A	30 TAC Chapter 117, Subchapter B	Capacity less than 40 MMBtu/hr.
02MELT	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion source not used to control emissions from a non-combustion source subject to the vent gas rule.
03CURE	N/A	30 TAC Chapter 117, Subchapter B	Curing ovens used in mineral wool-type fiberglass manufacturing in which nitrogen-

Commented [KHG5]: The permit shields for the PRO-V1LINE, PRO-V2LINE, and PRO-V3LINE should be added back into the permit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			containing resins are used.
03FORM	N/A	30 TAC Chapter 117, Subchapter B	Forming oven or forming process used in a mineral wool-type fiberglass manufacturing.
03INCIN	N/A	30 TAC Chapter 117, Subchapter B	Capacity less than 40 MMBtu/hr.
03MELT	N/A	30 TAC Chapter 115, Vent Gas Controls	Combustion source not used to control emissions from a non-combustion source subject to the vent gas rule.
07BOST	N/A	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973.
07REST1	N/A	40 CFR Part 60, Subpart K	Does not store petroleum liquids. Construction commenced prior to June 11, 1973.
07WOST	N/A	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973.
09ADST1	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.
09ADST2	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 19,800 gallons.
09MDST1	N/A	40 CFR Part 60, Subpart Kb	True vapor pressure less than 0.5 psia.
09MDST2	N/A	40 CFR Part 60, Subpart Kb	True vapor pressure less than 0.5 psia.
09QBMT1	N/A	30 TAC Chapter 115, Storage of VOCs	Storage container capacity is less than 1,000 gallons.
09QBMT2	N/A	30 TAC Chapter 115, Storage of VOCs	Storage container capacity is less than 1,000 gallons.
09REST2	N/A	40 CFR Part 60, Subpart Ka	Does not store petroleum liquids.
09REST3	N/A	40 CFR Part 60, Subpart K	Capacity is less than 75m3.
49	N/A	30 TAC Chapter 117, Subchapter B	Process heater with maximum rated capacity

Commented [KHG5]: The permit shields for the PRO-V1LINE, PRO-V2LINE, and PRO-V3LINE should be added back into the permit.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			less than 5.0 MMBtu/hr.
72DIE	N/A	30 TAC Chapter 115, Storage of VOCs	Storage container less than 1,000 gallons.
72DIE	N/A	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973.
73GAS	N/A	30 TAC Chapter 115, Storage of VOCs	Storage container less than 1,000 gallons.
73GAS	N/A	40 CFR Part 60, Subpart K	Construction commenced prior to June 11, 1973.
GRP-BOIL	13NBOIL, 13SBOIL	40 CFR Part 60, Subpart D	Heat input rate is less than 250 MMBtu/hr. Construction commenced prior to December 22, 1976.
GRP-EFURN	02MELT, 03MELT	40 CFR Part 60, Subpart CC	Unit is an electric melter.
GRP-EFURN	02MELT, 03MELT	40 CFR Part 60, Subpart N	Does not use commercial arsenic as a raw material.

Commented [KHG5]: The permit shields for the PRO-V1LINE, PRO-V2LINE, and PRO-V3LINE should be added back into the permit.

<anastasia.lassmann@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Hi all,

My management has requested the working draft permit comments from the WDP that was sent for review 04/03/2024 that were due back 04/19/2024. Please complete the WDP review and send back any comments you have by ***Monday, 06/10/2024*** so I can continue to work this project while the NSR amendment is being processed. Also, do you know if the amendment to NSR 6093 will change anything in the draft permit?

Sincerely,

Savannah G. Quiros
(they/them/theirs)
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400

How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Friday, May 10, 2024 1:17 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Anastasia Lassmann <anastasia.lassmann@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Hi Savannah,

I just wanted to provide you with confirmation that Owens Corning Waxahachie Plant has submitted the NSR amendment application via STEERS, see attached.

Please let me know if you have any questions.

Have a good weekend.

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Friday, May 10, 2024 1:17 PM
To: Savannah Quiros
Cc: Darst, Christy; Teneng(Fuoching), Chiajo; Anastasia Lassmann; Kate Gross
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant
Attachments: STEERS APD Notice Submittal

Hi Savannah,

I just wanted to provide you with confirmation that Owens Corning Waxahachie Plant has submitted the NSR amendment application via STEERS, see attached.

Please let me know if you have any questions.

Have a good weekend.

Best regards,

Jacquelyn Desloges
Regional Environmental Leader - Insulation
Pronouns: She, Her, Hers
Owens Corning Insulating Systems, LLC
M: 972.268.5903
jacquelyn.desloges@owenscorning.com

OWENS CORNING
2790 Columbus Road
Granville, Ohio | 43023 | United States
www.owenscorning.com



TM & © 2022 MGM

Explore our Sustainability Story

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, April 17, 2024 5:29 PM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Anastasia Lassmann <anastasia.lassmann@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Please provide me with the changes that need to be made based on the issued PBR (106.511) so we can have that incorporated. Please submit the NSR alteration/amendment to the NSR section by May 10, 2024. Otherwise we will move forward with processing the renewal.

From: steers@tceq.texas.gov
Sent: Friday, May 10, 2024 1:02 PM
To: kgross@trinityconsultants.com; Desloges, Jacquelyn; Radut, Lucian; raj.alphones@trinityconsultants.com; Teneng(Fuoching), Chiajo
Subject: STEERS APD Notice Submittal

[Some people who received this message don't often get email from steers@tceq.texas.gov. Learn why this is important at https://aka.ms/LearnAboutSenderIdentification]

This confirms the submittal of your application to the TCEQ under Title 30 Texas Administrative Code § 116.602. For rule information see:
https://nam11.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.tceq.texas.gov%2Fpermitting%2Fair%2Fnav%2Fnumerical_index.html&data=05%7C02%7Cjacquelyn.desloges%40owenscorning.com%7Cce303e19c31542845f0008dc711b47af%7C09e4e683c8e44a8095d37f078d5a2649%7C0%7C0%7C638509609187099508%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=4BrQMqx0NAFprxahz1BFmKDyQ4%2B0MUcgm2HCgOapFck%3D&reserved=0.

Your application was successfully submitted and received by the TCEQ at 05/10/2024 01:01 PM. The submitted application will now be reviewed by the program area. You will be notified by the program area reviewing your registration if more information is needed.
The confirmation number for this submittal is 539753. The Registration/Permit number for this submittal is 6093.
The hash code for this submittal is 77ECD93000A7FAA9160D9709216AC90DEF64AD1417BFE3716678526749F80C17.

You may access the copy of record (submitted application) from the submit log which is available by selecting Submissions from the Home page of STEERS
https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww3.tceq.texas.gov%2Fsteers%2F&data=05%7C02%7Cjacquelyn.desloges%40owenscorning.com%7Cce303e19c31542845f0008dc711b47af%7C09e4e683c8e44a8095d37f078d5a2649%7C0%7C0%7C638509609187114244%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=I21AmbnsDo8PKlxExNT6BuU%2B%2Fc7HbuX6rpJ8cRdfDfs%3D&reserved=0.

If you need further information or have questions for the program area, please contact the Air Permits division at 512-239-1250 or email airperm@tceq.texas.gov.

Best,

Savannah Quiros (x1228)
(she/they/them)
Permit Reviewer – Title V

Sincerely,

Savannah G. Quiros
Permit Reviewer
TCEQ – APD – OP Section (Title V)
(512) 239-1228



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Savannah Quiros
Sent: Wednesday, April 17, 2024 3:58 PM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Anastasia Lassmann <anastasia.lassmann@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Hi Jacquelyn,

My section manager and assistant deputy director have approved pausing the review of this project so you can submit the alteration/amendment to your NSR permit.

Sincerely,

Savannah G. Quiros
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Wednesday, April 17, 2024 10:53 AM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Anastasia Lassmann <anastasia.lassmann@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Hi Savannah,

Yes, Owens Corning anticipates a few minor changes in addition to the change to the permit issuance date as follows:

- Update to the Title V Unit ID 72DIE to represent two tanks instead of one (72DIE_A and 72DIE_B)
- Revise the representation for some of the inks. It is anticipated that this will not involve a change to applicable requirements
- Add a back-up pump engine and revise the representations for an existing engine. Both are authorized via PBR 106.511.

Please let me know if you have any questions,

Best regards,

Jacquelyn Desloges
Regional Environmental Leader - Insulation
Pronouns: She, Her, Hers
Owens Corning Insulating Systems, LLC
M: 972.268.5903
jacquelyn.desloges@owenscorning.com

OWENS CORNING
2790 Columbus Road
Granville, Ohio | 43023 | United States
www.owenscorning.com

Explore our Sustainability Story

TM & © 2022 MGM

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Tuesday, April 16, 2024 3:53 PM
To: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo

<Chiajo.Teneng@owenscorning.com>; Anastasia Lassmann <anastasia.lassmann@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

You don't often get email from savannah.quiros@tceq.texas.gov. Learn why this is important

Hi Jacquelyn,

Do you anticipate other/more updates to the Title V permit once the NSR alteration/amendment is issued or are you just anticipating a permit issuance update?

Sincerely,

Savannah G. Quiros
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400

How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>
Sent: Saturday, April 13, 2024 3:41 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Anastasia Lassmann <anastasia.lassmann@trinityconsultants.com>; Kate Gross <KGross@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Hi Savannah,

Owens Corning is respectfully asking for a brief pause in the review of the Title V permit #O1094. On June 9, 2023, Owens Corning met with members form TCEQ in the Title V Permit Division (Jesse Chacon, Monica Alpin, Samuel Short, Kim Strong and Elizabeth Moorhead) where we reviewed the upcoming

renewal. At that time, it was suggested by Jesse Chacon to alter the NSR permit after we submit the renewal to address the anticipated EPA objections to confidential data.

We have been working with Bill Moody at the TCEQ Air permits Division to complete alterations/amendments to the NSR Permit #6093. The alterations/amendments are being proposed to TCEQ to address the confidential data in the permit.

Owens Corning is expecting to submit a permit alteration/amendment to TCEQ by the end of April/beginning of May to address the confidential data in the permit.

I can send an update to you once submitted and we receive the issued NSR permit.

Please let me know if you have any questions.

Best Regards,

Jacquelyn Desloges
Regional Environmental Leader - Insulation
Pronouns: She, Her, Hers
Owens Corning Insulating Systems, LLC
M: 972.268.5903
jacquelyn.desloges@owenscorning.com

OWENS CORNING
2790 Columbus Road
Granville, Ohio | 43023 | United States
www.owenscorning.com

Explore our Sustainability Story

TM & © 2022 MGM

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Monday, April 8, 2024 12:32 PM
To: Kate Gross <KGross@trinityconsultants.com>
Cc: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Anastasia Lassmann <anastasia.lassmann@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Some people who received this message don't often get email from savannah.quiros@tceq.texas.gov. Learn why this is important

Kate,

My apologies, you are correct. Please disregard the OP-UA6 request.

Sincerely,

Savannah G. Quiros
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Kate Gross <KGross@trinityconsultants.com>
Sent: Friday, April 5, 2024 12:46 PM
To: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Cc: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Darst, Christy <Christy.Darst@owenscorning.com>; Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>; Anastasia Lassmann <anastasia.lassmann@trinityconsultants.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

Savannah,

Good afternoon. I had a question regarding your comment on the OP-UA6. Per the instructions as shown below (excerpt), it requests that you respond based on the MRC designation. There doesn't seem to be a code for boilers with an MRC of 2-40 in the instructions. Please advise.

Thanks,
Kate

★ **Complete "Annual Heat Input" only if application type is SOP.**

Annual Heat Input:
Select one of the following options for the annual heat input. Enter the code on the form.

For units with a "MRC" designation of "40-100:"

Code **Description**

28-	Annual Heat Input is less than or equal to 2.8 (10^{11}) Btu/yr, based on rolling 12-month average (Low annual capacity factor boilers)
28+	Annual Heat Input is greater than 2.8 (10^{11}) Btu/yr, based on rolling 12-month average

For units with a "MRC" designation of "100-200," "200-250," or "250+:"

Code	Description
22-	Annual Heat Input is less than or equal to 2.2 (10^{11}) Btu/yr, based on rolling 12-month average (Low annual capacity factor boilers)
22+	Annual Heat Input is greater than 2.2 (10^{11}) Btu/yr, based on rolling 12-month average

---

Kate Gross
Managing Consultant
P 972.661.8100 M 214.405.1598

12700 Park Central, Suite 600, Dallas, TX 75251
Email: kgross@trinityconsultants.com
LinkedIn: https://www.linkedin.com/in/kate-gross-2277b85/



Connect with us: LinkedIn / Facebook / Twitter / YouTube / trinityconsultants.com

---

From: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>
Sent: Wednesday, April 3, 2024 11:41 AM
To: Kate Gross <KGross@trinityconsultants.com>; Anastasia Lassmann <anastasia.lassmann@trinityconsultants.com>
Cc: Desloges, Jacquelyn <Jacquelyn.Desloges@owenscorning.com>; Darst, Christy <Christy.Darst@owenscorning.com>
Subject: RE: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant
Importance: High

Good Afternoon,

See email and attachment from TCEQ.

Thanks,
CJ

From: Savannah Quiros <Savannah.Quiros@tceq.texas.gov>
Sent: Wednesday, April 3, 2024 9:00 AM
To: Teneng(Fuoching), Chiajo <Chiajo.Teneng@owenscorning.com>

Subject: Technical Review and Working Draft Permit - FOP O1094/Project 35476, Owens Corning Insulating Systems, LLC/Waxahachie Plant

You don't often get email from savannah.quiros@tceq.texas.gov. Learn why this is important

Chiajo,

My name is Savannah Quiros and I have been assigned to the Federal Operating Permit (FOP) renewal application of Permit No. O1094 for Owens Corning Insulating Systems. LLC's Waxahachie Plant. This application has been assigned Project No. 35476. Please address all correspondence pertaining to this permit application, including any updates, to me at the address below, and use both the Permit and Project reference numbers above to facilitate tracking.

In addition, as an FYI, I wanted to let you know that EPA has, on occasion, objected to Title V Permits basing on the following:

a. NSR Permit and PBR monitoring sufficiency – please refer to our periodic monitoring guidance for reference of monitoring that EPA has, so far, considered sufficient.
b. Reference to confidential business information (CBI) in NSR permits and PBR submittals.
c. High level terms in the SOP Applicable Requirements Summary Table. The high level terms are sometimes used in SOPs when unit attribute forms have not yet been updated due to regulatory amendments.
d. Accuracy of PBR information provided on the supplemental table and in the permit – please refer to Forms OP-PBRSUP and OP-REQ1 Instructions.

If you have any questions or concerns on any of these items or think you need to do any additional updates, let me know and we can discuss further.

I have conducted a technical review of this application and I have attached an electronic copy of the Working Draft Permit (WDP) for your review. This WDP contains the TCEQ determination of applicable requirements based on the information in your application.

P**lease review the WDP and submit to me any comments you have regarding it by *04/19/2024***. Please submit a written response by this deadline, even if you are not making any comments on the content of the WDP. Note that any application updates necessary to make requested changes must accompany the WDP comments.

During technical review the following deficiencies were noted:

- OP-UA3, Page 3: 09REST2: Maximum True Vapor Pressure: 0.5- is not a valid code. 2.2- has been input based on your other responses
- OP-UA6, Page 13: GRP-BOIL: Annual Heat Input needs to be completed because the project type is SOP. Please choose code 28- or 28+ for your annual heat input.

Please submit an updated OP-UA6, Page 13 by the above deadline.

Please review the "SOP Technical Review Fact Sheet" located at http://www.tceq.texas.gov/assets/public/permitting/air/Guidance/Title_V/sop_wdp_factsheet.pdf. This guidance contains important information regarding the review process, application updates, WDP review and comment procedures.

Note that a Certification by Responsible Official (Form OP-CRO1) for any uncertified submittals, including application updates supporting the WDP comments is required to be submitted with the WDP response. After final review of the WDP, additional changes, supported by application updates, may require certification. I will advise you of these changes at a later date. Prior to transmittal of the Public Notice/Announcement Authorization Package, a duly signed OP-CRO1 form may be required which includes the specific dates or time-period of all submitted application documentation that were not previously certified. I will advise you of this requirement prior to sending the Public Notice/Announcement Authorization.

Application updates may now be submitted through Title V STEERS. Any application updates that are submitted by the RO/DAR through STEERS are certified and do not require the submittal of an original signature OP-CRO1. Application updates that are provided through email or physical mail require certification using an original signature OP-CRO1.

Please notify me when these updates have been submitted.

As required on Form OP-1, question IV.D, please remember the FOP application and all application updates must be submitted to EPA Region 6 at R6AirPermitsTX@epa.gov and to the TCEQ regional office having jurisdiction. This submittal information can be found on our website at Where to Submit FOP Applications and Permit-Related Documents.

Contact me if you have any questions regarding the guidelines, the project schedule, or any other details regarding your application or permit.

Thank you for your cooperation.

Sincerely,

Savannah G. Quiros
Permit Reviewer
OA/Air Permits Division/OP Section
Texas Commission on Environmental Quality
MC-163, P.O. Box 13087
Austin, TX 78711-3087
savannah.quiros@tceq.texas.gov

Phone: (512) 239-1228
Fax: (512) 239-1400



How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

The information contained in this communication and its attachment(s) is intended only for

the use of the individual to whom it is addressed and
may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient,
you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this
communication in error, please notify postmaster@owenscorning.com and delete the communication without retaining any copies. Thank you.

Translations available: http://www.owenscorning.com/emailfooter.html

The information contained in this communication and its attachment(s) is intended only for the use of the individual to whom it is addressed and
may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient,
you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this
communication in error, please notify postmaster@owenscorning.com and delete the communication without retaining any copies. Thank you.

Translations available: http://www.owenscorning.com/emailfooter.html

The information contained in this communication and its attachment(s) is intended only for the use of the individual to whom it is addressed and
may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient,
you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this
communication in error, please notify postmaster@owenscorning.com and delete the communication without retaining any copies. Thank you.

Translations available: http://www.owenscorning.com/emailfooter.html

The information contained in this communication and its attachment(s) is intended only for the use of the individual to whom it is addressed and
may contain information that is privileged, confidential, or exempt from disclosure. If the reader of this message is not the intended recipient,
you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this
communication in error, please notify postmaster@owenscorning.com and delete the communication without retaining any copies. Thank you.

Translations available: http://www.owenscorning.com/emailfooter.html

Texas Commission on Environmental Quality

Title V Existing

1094

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	OWENS CORNING INSULATING SYSTEMS WAXAHACHIE PLANT
Does the site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.439166
Longitude (W) (-###.######)	96.85
Primary SIC Code	3296
Secondary SIC Code	
Primary NAICS Code	327993
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100223585
What is the name of the Regulated Entity (RE)?	OWENS CORNING INSULATING SYSTEMS WAXAHACHIE PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	3700 N IH 35 E
City	WAXAHACHIE
State	TX
ZIP	75165
County	ELLIS
Latitude (N) (##.######)	32.44148
Longitude (W) (-###.######)	-96.848
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN603159088

Type of Customer	Other
Full legal name of the applicant:	
Legal Name	Owens Corning Insulating Systems, LLC
Texas SOS Filing Number	800719027
Federal Tax ID	371525228
State Franchise Tax ID	32020858554
State Sales Tax ID	
Local Tax ID	
DUNS Number	7332570
Number of Employees	251-500
Independently Owned and Operated?	No

Responsible Official Contact

Person TCEQ should contact for questions about this application:	
Organization Name	OWENS CORNING
Prefix	MR
First	DAVID
Middle	
Last	RABUANO
Suffix	
Credentials	
Title	VICE PRESIDENT OPERATIONS
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1 OWENS CORNING PKWY
Routing (such as Mail Code, Dept., or Attn:)	
City	TOLEDO
State	OH
ZIP	43659
Phone (###-###-####)	4192487343
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	david.rabuano@owenscorning.com

Duly Authorized Representative Contact

Person TCEQ should contact for questions about this application	
Select existing DAR contact or enter a new contact.	LUCIAN RADUT(OWENS CORNING I...)
Organization Name	OWENS CORNING INSULATING SYSTEMS LLC
First	LUCIAN
Middle	
Last	RADUT
Suffix	

Credentials	
Title	WAXAHACHIE PLANT LEADER
Enter new address or copy one from list	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
Zip	75165
Phone (###-###-####)	9729234301
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	lucian.radut@owenscorning.com

Technical Contact

Person TCEQ should contact for questions about this application:	
Select existing TC contact or enter a new contact.	New Contact
Organization Name	Owens Corning Insulating Systems LLC
Prefix	MS
First	Chiajo
Middle	
Last	Teneng
Suffix	
Credentials	
Title	Environmental Lead
Enter new address or copy one from list:	RE Physical Address
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3700 N IH 35 E
Routing (such as Mail Code, Dept., or Attn:)	
City	WAXAHACHIE
State	TX
ZIP	75165
Phone (###-###-####)	9729234396
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Chiajo.Teneng@owenscorning.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	32 Deg 26 Min 21 Sec
3) Permit Longitude Coordinate:	96 Deg 51 Min 0 Sec

4) Is this submittal a new application or an update to an existing application?	New Application
4.1. What type of permitting action are you applying for?	Renewal
4.1.1. Are there any permits that should be voided upon issuance of this permit application through permit conversion?	No
4.1.2. Are there any permits that should be voided upon issuance of this permit application through permit consolidation?	No
5) Who will electronically sign this Title V application?	Duly Authorized Representative
6) Does this application include Acid Rain Program or Cross-State Air Pollution Rule requirements?	No

Title V Attachments Existing

Attach OP-1 (Site Information Summary)

Attach OP-2 (Application for Permit Revision/Renewal)

Attach OP-ACPS (Application Compliance Plan and Schedule)

Attach OP-REQ1 (Application Area-Wide Applicability Determinations and General Information)

Attach OP-REQ2 (Negative Applicable Requirement Determinations)

Attach OP-REQ3 (Applicable Requirements Summary)

Attach OP-PBRSUP (Permits by Rule Supplemental Table)

Attach OP-SUMR (Individual Unit Summary for Revisions)

Attach OP-MON (Monitoring Requirements)

Attach OP-UA (Unit Attribute) Forms

If applicable, attach OP-AR1 (Acid Rain Permit Application)

Attach OP-CRO2 (Change of Responsible Official Information)

Attach OP-DEL (Delegation of Responsible Official)

Attach any other necessary information needed to complete the permit.

[File Properties]

File Name	OCIS Waxahachie Title V 2023-0803.pdf
Hash	5AAE02DD192112F4764CE7AD592DBB02942A55281A622217ADC2403EBECC4E3B
MIME-Type	application/pdf

An additional space to attach any other necessary information needed to complete the permit.

Expedite Title V

1) Per Texas Health and Safety Code, Section 382.05155, does the applicant want to expedite the processing of this application?	No

Certification

I certify that I am the Duly Authorized Representative for this application and that, based on information and belief formed after reasonable inquiry, the statements and information on this form are true, accurate, and complete.

1. I am Lucian Radut, the owner of the STEERS account ER070923.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcemer of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1094.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEC

OWNER OPERATOR Signature: Lucian Radut OWNER OPERATOR

Account Number:	ER070923
Signature IP Address:	76.187.41.243
Signature Date:	2023-08-05
Signature Hash:	A1659F70C698BD315DB679C505A71ACBA27052443498AA230641A352207C3046
Form Hash Code at time of Signature:	FE192087E070690525835C1FB2E503CCBB51A5DE350320068F891210DECE3E43

Submission

Reference Number:	The application reference number is 583599
Submitted by:	The application was submitted by ER070923/Lucian Radut
Submitted Timestamp:	The application was submitted on 2023-08-05 at 11:34:02 CDT
Submitted From:	The application was submitted from IP address 76.187.41.243
Confirmation Number:	The confirmation number is 483254
Steers Version:	The STEERS version is 6.68
Permit Number:	The permit number is 1094

Additional Information

Application Creator: This account was created by Anastasia Lassmann

Trinity Consultants

12700 Park Central Dr, Ste 2100, Dallas, TX 75251 / P 800.229.6655 / P 972.661.8100 / F 972.385.9203 / **trinityconsultants.com**

Via STEERS

August 4, 2023

Air Permits Initial Review Team
Texas Commission on Environmental Quality
12100 Park 35 Circle, MC 161
Building C, Third Floor
Austin, TX 78753

RE: *Title V Renewal Application*
Owens Corning Insulating Systems, LLC – Waxahachie Plant
Permit No. O-1094
Customer Reference Number (CN) 603159088
Regulated Entity Reference Number (RN) 100223585
TCEQ Account No. ED-0051-O

Dear Air Permits Initial Review Team:

Owens Corning Insulating Systems, LLC (OCIS) owns and operates a plant in Waxahachie, Texas for the manufacture of fiberglass insulation products (Waxahachie Plant). The Waxahachie Plant operates under Title V Operating Permit No. O-1094. With the enclosed Title V Operating Permit renewal application, OCIS proposes to renew the permit for the Waxahachie Plant.

If you have any questions or comments about the information presented in this application, please do not hesitate to contact me at (972) 661-8100 (KGross@trinityconsultants.com) or Ms. CJ Teneng, OCIS, at (972) 923-4396.

Sincerely,

TRINTY CONSULTANTS

Kate Gross

Kate Gross
Managing Consultant

cc: Ms. Kimberli Fowler, Air Section Manager TCEQ Regional Office 4
EPA Region 6 (electronically)
Ms. CJ Teneng, Owens Corning Insulating Systems, LLC (electronically)
Ms. Jacquelyn Desloges, Owens Corning Insulating Systems, LLC (electronically)
Ms. Christy Darst, Owens Corning Insulating Systems, LLC (electronically)

SITE OPERATING PERMIT (SOP) RENEWAL APPLICATION

Owens Corning Insulating Systems, LLC
Waxahachie Plant

Prepared By:

Kate Gross – Managing Consultant
Anastasia Lassmann – Consultant

TRINITY CONSULTANTS
12700 Park Central Drive
Suite 600
Dallas, TX 75251
(972) 661-8100

August 2023

Project 234401.0009

Trinity Consultants

TABLE OF CONTENTS

1. EXECUTIVE SUMMARY 1-1
2. TCEQ FORM OP-1 2-1
3. TCEQ FORM OP-2 3-1
4. TCEQ FORM OP-SUMR 4-1
5. TCEQ FORM OP-CRO1 5-1
6. TCEQ FORM OP-UA2 6-1
7. TCEQ FORM OP-UA3 7-1
8. TCEQ FORM OP-UA4 8-1
9. TCEQ FORM OP-UA5 9-1
10. TCEQ FORM OP-UA6 10-1
11. TCEQ FORM OP-UA15 11-1
12. TCEQ FORM OP-UA22 12-1
13. TCEQ FORM OP-UA24 13-1
14. TCEQ FORM OP-UA29 14-1
15. TCEQ FORM OP-UA35 15-1
16. TCEQ FORM OP-UA51 16-1
17. TCEQ FORM OP-PBRSUP 17-1
18. TCEQ FORM OP-REQ1 18-1
19. TCEQ FORM OP-ACPS 19-1
20. TCEQ PUBLIC INVOLVEMENT PLAN FORM FOR PERMIT AND REGISTRATION APPLICATIONS 20-1

1. EXECUTIVE SUMMARY

Owens Corning Insulating Systems, LLC (OCIS) owns and operates a fiberglass manufacturing plant in Waxahachie, Ellis County, Texas (Waxahachie Plant). The Waxahachie Plant's TCEQ Account Number is ED-0051-O. OCIS has been assigned Texas Commission on Environmental Quality (TCEQ) Customer Reference Number (CN) 603159088, and the Waxahachie Plant has been assigned TCEQ Regulated Entity Reference Number (RN) 100223585. The Waxahachie Plant operates under TCEQ Title V Operating Permit No. O-1094.

The site is subject to the Texas Federal Operating Permits Program according to Title 30 of the Texas Administrative Code Section 122.120 (30 TAC §122.120). The Waxahachie Plant's Site Operating Permit (SOP) No. O-1094 was last renewed on February 6, 2019, and per §122.241, Title V operating permits are required to be renewed every five years. In accordance with 30 TAC §122.133, this renewal application is submitted 6 months prior to the expiration date of February 6, 2024. The following sections describe changes at the site resulting in updates to SOP No. O-1094.

1.1 Changes at the Site

Since the last renewal of SOP No. O-1094, one (1) administrative revision and three (3) streamlined revisions to the operating permit were issued on April 22, 2019, March 31, 2021, September 29, 2021, and April 29. 2021, respectively. In addition, OCIS submitted five (5) off-permit/operational flexibility notifications to the TCEQ using TCEQ Form OP-NOTIFY since the last renewal of SOP No. O-1094. The notifications are described below for incorporation into the operating permit.

- In January 2018, OCIS submitted an operational flexibility notification to authorize changes to the existing asphalt applicators on the V-1 and V-2 manufacturing lines. OCIS replaced the asphalt applicators with environmentally beneficial pre-coated paper for the V-2 manufacturing line. As a result of the proposed changes, there was a decrease in volatile organic compounds (VOC) and particulate matter ($PM/PM_{10}/PM_{2.5}$) from the affected Emission Point Number (EPN) 52 due to the elimination of the asphalt applicator. There are no new requirements or changes to applicable requirements for existing sources as a result of this project. The V-1 line change was not implemented as documented in the Title V Minor Revision approved by TCEQ in September 2021.
- In June 2018, OCIS submitted an off-permit change to install two small ink-jet printers for printing date/time information on each package of material produced on the V-2 production line (Permit by Rule [PBR] Registration No. 151852). The proposed ink-jet printers resulted in an increase of VOC emissions (EPN INKPRINT). The inkjet printers are not subject to any New Source Performance Standards (NSPS) or National Emission Standards for Hazardous Air Pollutants (NESHAP) in Title 40 of the Code of Federal Regulations (40 CFR) Parts 61 or 63. PBR 151852 was incorporated into New Source Review (NSR) Permit Number 6093. This notification was incorporated into the Title V permit in August 2020 as part of a Title V minor revision for the NSR renewal project.
- In May 2020, OCIS submitted an operational flexibility notification to use other types of pre-coated paper used in the existing facing application process on the V-2 manufacturing line (EPN 52). As a result of this permit alteration project for Permit No. 6093, there are no VOC emissions expected from the utilization of other types of pre-coated paper due to the short duration at which the pre-coated paper passes over the electrically heated roller. As a result of this project, there were no changes in applicable requirements.

- In September 2020, OCIS submitted an off-permit notification to authorize ink-jet printers for the V-2 paper pit on the V-2 manufacturing line (EPN 53). As a result of this project, there was a negligible increase in emissions of VOCs (0.09 tpy). There were no changes in applicable requirements for EPN 53.
- In September 2020, OCIS submitted an off-permit notification to authorize two adhesives for the V-1 manufacturing line (EPN 11). As a result of this project, there was a small increase in emissions of VOCs. There were no changes in applicable requirements for EPN 11.

As part of this renewal application, OCIS requests the removal of the following Title V Unit ID Nos: Backup Furnace Combustion Air Engine #2 (Title V Unit ID No. FCABUV2), unloading for cross-linker 1 tank (Title V Unit ID No. 09CAUL), and unloading for cross-linker 2 tank (Title V Unit ID No. 09PRUL).

1.2 TCEQ Forms Requiring Submission at Renewal

Per TCEQ guidance, only the following items are required to be included in a renewal application.

- TCEQ Forms OP-CRO1, OP-REQ1, OP-ACPS, OP-1, and OP-2;
- TCEQ Form OP-SUMR, if applicable;
- Applicable TCEQ unit attribute forms if there have been changes to the forms and if the changes affect units at the site;
- TCEQ Form OP-REQ2, if revisions are requested for the permit shield;
- TCEQ Form OP-REQ3, if applicable requirements have changed;
- TCEQ Form OP-PBRSUP;
- TCEQ Form OP-MON, if applicable; and
- Information regarding additions or deletions of units and any changes at the site affecting the permit.

The following subsections summarize changes for each form that require a unit attribute form to be submitted in this renewal application.

1.2.1 TCEQ Form OP-UA2

Columns or answers in the current TCEQ Form OP-UA2 Tables 1a and 2a have not changed from the version of the TCEQ Form OP-UA2 Tables 1a and 2a submitted previously.

TCEQ Form OP-UA2 Tables 4 a and 5a were not part of the last submittal, these tables were submitted in the current application to document negative applicability.

1.2.2 TCEQ Form OP-UA3

Some of the responses on the current TCEQ Form OP-UA3 Tables 3 and 4a have changed from the version of the TCEQ Form OP-UA3 Tables 3 and 4a from the previous submittal based on the form instructions. OCIS proposes to maintain the existing applicable requirements, as appropriate, of 40 CFR Part 60 Subpart Kb for the Organic Liquid Storage Vessels and 30 TAC Chapter 115, Subchapter B for the storage of organic compounds.

TCEQ Form OP-UA3 Table 1 was not part of the last submittal. To document negative applicability Table 1 has been included in the current application.

1.2.3 TCEQ Form OP-UA4

Columns or answers in the current TCEQ Form OP-UA4 Table 1a have not changed from the version of the TCEQ Form OP-UA4 Table 1a submitted previously.

1.2.4 TCEQ Form OP-UA5

Columns or answers in the current TCEQ Form OP-UA5 Tables 1a have not changed from the version of the TCEQ Form OP-UA5 Tables 1a submitted previously. Some of the responses on the current TCEQ Form OP-UA5 Tables 3a and 3b have changed from the previous submittal based on the form instructions. OCIS proposes to maintain the existing applicable requirements, as appropriate, of 30 TAC Chapter 117, Subchapter B for the asphalt tank heater (Title V Unit ID No. 49) and furnaces (Title V ID Nos. 01MELT, 02MELT, and 03MELT).

1.2.5 TCEQ Form OP-UA6

Columns or answers in the current TCEQ Form OP-UA6 Table 4a have not changed from the version submitted previously. The existing boilers are not subject to NSPS Subpart Dc.

Some of the responses on the current TCEQ Form OP-UA6 Tables 5a through 5c have changed from the version of the TCEQ Form OP-UA6 Tables 5a through 5c from the previous submittal based on the form instructions. OCIS proposes to maintain the existing applicable requirements, as appropriate, of 30 TAC Chapter 117, Subchapter B for the boilers.

Columns or answers in the current TCEQ Form OP-UA6 Table 14a have been completed for the boilers.

1.2.6 TCEQ Form OP-UA15

Columns or answers in the current TCEQ Form OP-UA15 Table 1a have not changed from the version of the TCEQ Form OP-UA15 Table 1a submitted previously.

Some of the responses on the current TCEQ Form OP-UA15 Table 2a have changed from the version of the TCEQ Form OP-UA15 Table 2a from the previous submittal based on the form instructions. OCIS proposes to maintain the existing applicable requirements, as appropriate, of 30 TAC Chapter 115, Subchapter B for the vent gas control.

1.2.7 TCEQ Form OP-UA18

The TCEQ Form OP-UA18 is not completed since the paper surface coating process has a potential to emit from all coatings less than 25 tons per year of VOC when uncontrolled and is not subject to 30 TAC Chapter 115, Subchapter E, Division 2 or Division 5.

1.2.8 TCEQ Form OP-UA22

Some of the columns or answers in the current TCEQ Form OP-UA22 Table 3 have changed from the version of TCEQ Form OP-UA22 Table 3 submitted previously. OCIS proposes to maintain the existing applicable requirements of 30 TAC Chapter 115, Subchapter E, Division 3 for the flexographic printing operations (Title V ID GRP-PRNT) at the Waxahachie Plant.

1.2.9 TCEQ Form OP-UA24

Columns or answers in the current TCEQ Form OP-UA24 Table 1 have not changed from the version of TCEQ Form OP-UA24 Table 1 submitted on November 9, 2004. The existing wool fiberglass insulation manufacturing lines are not subject to NSPS Subpart PPP.

1.2.10 TCEQ Form OP-UA29

Columns or answers in the current TCEQ Form OP-UA29 Table 1 have not changed from the version of TCEQ Form OP-UA29 Table 1 submitted on November 9, 2004.

1.2.11 TCEQ Form OP-UA35

Columns or answers in the current TCEQ Form OP-UA35 Table 2a have not changed from the version of TCEQ Form OP-UA35 Table 2a submitted in the last renewal application. OCIS proposes to maintain the existing permit shield for the following incinerators: 01INCIN, 02INCIN, and 03INCIN.

1.2.12 TCEQ Form OP-UA51

Columns or answers in the current TCEQ Form OP-UA51 Table 4a have not changed from the version of the TCEQ Form OP-UA51 Table 4a submitted in the last renewal application. OCIS proposes to maintain the permit shiel for the following ovens: 01DRY, 01CURE, 02CURE, 03CURE, 01FORM, 02FORM, and 03FORM.

1.3 Compliance Assurance Monitoring

Per 30 TAC §122.604(b), Compliance Assurance Monitoring (CAM) is required for sources that meet the following requirements:

- The emission unit is subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement;
- The emission unit uses a control device to achieve compliance with the emission limitation or standard; and
- The emission unit has pre-control device potential to emit (PTE) greater than or equal to the amount in tons per year required for a site to be classified as a major source.

OCIS does not propose any changes to the existing CAM requirements as listed in the current Title V permit. As such, this renewal application does not include a TCEQ Form OP-MON.

1.4 Periodic Monitoring

As required by 30 TAC §122.602(a), periodic monitoring may be required for emission units that are subject to an emission limitation or a standard contained in an applicable requirement if the applicable requirement does not contain sufficient periodic monitoring.

Exemptions to periodic monitoring requirements are listed in 30 TAC §122.602(b) and include the following.

- Emission limitations or standards for which the executive director has determined that the applicable requirement has periodic monitoring (which may consist of recordkeeping) sufficient to yield reliable data from the relevant time period that are representative of the emission unit's compliance with the applicable requirement.
- Emission limitations or standards in NSPSs or NESHAPs proposed by the U.S. EPA after November 15, 1990.

- Emission limitations or standards for which an applicable requirement specifies a continuous compliance determination method.

Per TCEQ guidance, emission limits contained in PBRs have sufficient monitoring required by the general PBR requirements and do not require additional periodic monitoring.

OCIS does not propose any changes to the existing periodic monitoring requirement as listed in the current Title V permit. As such, this renewal application does not include a TCEQ Form OP-MON.

1.5 Application Contents

The enclosed SOP renewal application for the Waxahachie Plant consists of the following forms along with supplemental information.

- Section 2. TCEQ Form OP-1
- Section 3. TCEQ Form OP-2
- Section 4. TCEQ Form OP-SUMR
- Section 5. TCEQ Form OP-CRO1
- Section 6. TCEQ Form OP-UA2
- Section 7. TCEQ Form OP-UA3
- Section 8. TCEQ Form OP-UA4
- Section 9. TCEQ Form OP-UA5
- Section 10. TCEQ Form OP-UA6
- Section 11. TCEQ Form OP-UA15
- Section 12. TCEQ Form OP-UA22
- Section 13. TCEQ Form OP-UA24
- Section 14. TCEQ Form OP-UA29
- Section 15. TCEQ Form OP-UA35
- Section 16. TCEQ Form OP-UA51
- Section 17. TCEQ Form OP-PBRSUP
- Section 18. TCEQ Form OP-REQ1
- Section 19. TCEQ Form OP-ACPS
- Section 20. TCEQ Public Involvement Plan Form for Permit and Registration Applications

Units at the Waxahachie Plant that are specifically identified as off-permit sources in TCEQ guidance documents and forms are not specifically addressed in the SOP application. In addition to off-permit sources, units identified as having no unit-specific applicable state or federal requirements are not addressed in the SOP application. The sources not addressed in the application may still be subject to applicable site wide requirements; however, these requirements are not codified on a unit specific basis.

2. TCEQ FORM OP-1

Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 1)
Texas Commission on Environmental Quality

Please print or type all information. Direct any questions regarding this application form to the Air Permits Division at (512) 239-1250or to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division (MC 163), P.O. Box 13087, Austin, Texas 78711-3087.

I.	**Company Identifying Information**
A.	Company Name: **Owens Corning Insulating Systems, LLC.**
B.	Customer Reference Number (CN): **CN603159088**
C.	Submittal Date *(mm/dd/yyyy):* **08/04/2023**
II.	**Site Information**
A.	Site Name: **Owens Corning Insulating Systems Waxahachie Plant**
B.	Regulated Entity Reference Number (RN): **RN100223585**
C.	Indicate affected state(s) required to review permit application: *(Check the appropriate box[es].)*
☐ AR ☐ CO ☐ KS ☐ LA ☐ NM ☐ OK ☒ N/A	
D.	Indicate all pollutants for which the site is a major source based on the site's potential to emit: *(Check the appropriate box[es].)*
☒ VOC ☒ NO_X ☒ SO_2 ☒ PM_{10} ☒ CO ☐ Pb ☒ HAPS	
Other: NH_3	
E.	Is the site a non-major source subject to the Federal Operating Permit Program? ☐ YES ☒ NO
F.	Is the site within a local program area jurisdiction? ☐ YES ☒ NO
G.	Will emissions averaging be used to comply with any Subpart of 40 CFR Part 63? ☐ YES ☒ NO
H.	Indicate the 40 CFR Part 63 Subpart(s) that will use emissions averaging:
III.	**Permit Type**
A.	Type of Permit Requested: *(Select only one response)*
☒ Site Operating Permit (SOP) ☐ Temporary Operating Permit (TOP) ☐ General Operating Permit (GOP)	

Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 2)
Texas Commission on Environmental Quality

IV.	**Initial Application Information** *(Complete for Initial Issuance Applications Only.)*	
A.	Is this submittal an abbreviated or a full application?	☐ Abbreviated ☐ Full
B.	If this is a full application, is the submittal a follow-up to an abbreviated application?	☐ YES ☐ NO
C.	If this is an abbreviated application, is this an early submittal for a combined SOP and Acid Rain permit?	☐ YES ☐ NO
D.	Has an electronic copy of this application been submitted (or is being submitted) to EPA? (Refer to the form instructions for additional information.)	☐ YES ☐ NO
V.	**Confidential Information**	
A.	Is confidential information submitted in conjunction with this application?	☐ YES ☒ NO
VI.	**Responsible Official (RO) Identifying Information**	
RO Name Prefix: (☒ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)		
RO Full Name: **David Rabuano**		
RO Title: **Vice President ISB Integrated Supply Chain**		
Employer Name: **Owens Corning Insulating Systems, LLC**		
Mailing Address: **One Owens Corning Parkway**		
City: **Toledo**		
State: **Ohio**		
ZIP Code: **43659**		
Territory:		
Country: **United States**		
Foreign Postal Code:		
Internal Mail Code:		
Telephone No.: **(419) 248-7343**		
Fax No.:		
Email: **David.rabuano@owenscorning.com**		

Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 3)
Texas Commission on Environmental Quality

VII. Technical Contact Identifying Information *(Complete if different from RO.)*	
Technical Contact Name Prefix: (☐ Mr. ☐ Mrs. ☒ Ms. ☐ Dr.)	
Technical Contact Full Name: **Chiajo Teneng**	
Technical Contact Title: **Environmental Lead**	
Employer Name: **Owens Corning Insulating Systems, LLC**	
Mailing Address: **3700 N Interstate 35 East**	
City: **Waxahachie**	
State: **Texas**	
ZIP Code: **75165**	
Territory:	
Country: **United States**	
Foreign Postal Code:	
Internal Mail Code:	
Telephone No.: **(972) 923-4396**	
Fax No.:	
Email: **Chiajo.teneng@owenscorning.com**	
VIII. Reference Only Requirements *(For reference only.)*	
A. State Senator: **Senator Bob Hall, District 2**	
B. State Representative: **Representative Brian Harrison**	
C. Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)?	☒ YES ☐ NO ☐ N/A
D. Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322?	☒ YES ☐ NO
E. Indicate the alternate language(s) in which public notice is required: **Spanish**	

Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 4)
Texas Commission on Environmental Quality

IX.	**Off-Site Permit Request** *(Optional for applicants requesting to hold the FOP and records at an off-site location.)*
A.	Office/Facility Name:
B.	Physical Address:
City:	
State:	
ZIP Code:	
Territory:	
Country:	
Foreign Postal Code:	
C.	Physical Location:
D.	Contact Name Prefix: (☐ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)
Contact Full Name:	
E.	Telephone No.:
X.	**Application Area Information**
A.	Area Name: **Waxahachie Plant**
B.	Physical Address: **3700 N Interstate 35E**
City: **Waxahachie**	
State: **Texas**	
ZIP Code: **75165**	
C.	Physical Location:
D.	Nearest City:
E.	State:
F.	ZIP Code:

X.	**Application Area Information *(continued)***
G.	Latitude (nearest second): **32:26:21**
H.	Longitude (nearest second): **96:51:00**
I.	Are there any emission units that were not in compliance with the applicable requirements identified in the application at the time of application submittal? ☐ YES ☒ NO
J.	Indicate the estimated number of emission units in the application area: **81**
K.	Are there any emission units in the application area subject to the Acid Rain Program? ☐ YES ☒ NO
XI.	**Public Notice** *(Complete this section for SOP Applications and Acid Rain Permit Applications only.)*
A.	Name of a public place to view application and draft permit: **Nicholas P Sims Library**
B.	Physical Address: **515 W Main St**
City: **Waxahachie**	
ZIP Code: **75165**	
C.	Contact Person (Someone who will answer questions from the public during the public notice period):
Contact Name Prefix: (☐ Mr. ☐ Mrs. ☒ Ms. ☐ Dr.):	
Contact Person Full Name: **Chiajo Teneng**	
Contact Mailing Address: **3700 N Interstate 35E**	
City: **Waxahachie**	
State: **Texas**	
ZIP Code: **75165**	
Territory:	
Country: **United States**	
Foreign Postal Code:	
Internal Mail Code:	
Telephone No.: **(927) 923-4396**	

Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 6)
Texas Commission on Environmental Quality

XII. Delinquent Fees and Penalties
Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of Attorney General on behalf of the TCEQ are paid in accordance with the "Delinquent Fee and Penalty Protocol."
Complete Sections XIII and XIV for Acid Rain Permit and CSAPR applications only. Please include a copy of the Certificate of Representation submitted to EPA.
XIII. Designated Representative (DR) Identifying Information
DR Name Prefix: (☐ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)
DR Full Name:
DR Title:
Employer Name:
Mailing Address:
City:
State:
ZIP Code:
Territory:
Country:
Foreign Postal Code:
Internal Mail Code:
Telephone No.:
Fax No.:
Email:

Complete Sections XIII and XIV for Acid Rain Permit and CSAPR applications only. Please include a copy of the Certificate of Representation submitted to EPA.
XIV. Alternate Designated Representative (ADR) Identifying Information
ADR Name Prefix: (☐ Mr. ☐ Mrs. ☐ Ms. ☐ Dr.)
ADR Full Name:
ADR Title:
Employer Name:
Mailing Address:
City:
State:
ZIP Code:
Territory:
Country:
Foreign Postal Code:
Internal Mail Code:
Telephone No.:
Fax No.:
Email:

3. TCEQ FORM OP-2

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 1
Texas Commission on Environmental Quality

Date: 08/04/2023	
Permit No.: O-1094	
Regulated Entity No.: RN100223585	
Company Name: Owens Corning Insulating Systems, LLC	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA?	☒ YES ☐ NO
I. Application Type	
Indicate the type of application:	
☒ Renewal	
☐ Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)	
☐ Significant Revision	
☐ Revision Requesting Prior Approval	
☐ Administrative Revision	
☐ Response to Reopening	
II. Qualification Statement	
For SOP Revisions Only	☒ YES ☐ NO
For GOP Revisions Only	☐ YES ☐ NO

III. Major Source Pollutants (Complete this section if the permit revision is due to a change at the site or change in regulations.)						
Indicate all pollutants for which the site is a major source based on the site's potential to emit: *(Check the appropriate box[es].)*						
☒ VOC	☒ NO_X	☒ SO_2	☒ PM_{10}	☒ CO	☐ Pb	☒ HAP
Other: NH_3						
IV. Reference Only Requirements *(For reference only)*						
Has the applicant paid emissions fees for the most recent agency fiscal year (September 1 - August 31)?					☒ YES ☐ NO ☐ N/A	
V. Delinquent Fees and Penalties						
Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and penalty protocol.						

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 2
Texas Commission on Environmental Quality

Date: 08/04/2023
Permit No.: O-1094
Regulated Entity No.: RN100223585
Company Name: Owens Corning Insulating Systems, LLC

Using the table below, provide a description of the revision.

Revision No.	Revision Code	New Unit	Unit/Group ID No.	Process Applicable Form	NSR Authorization	Description of Change and Provisional Terms and Conditions
1	MS-A	No	52	OP-REQ1	6093	Revision to NSR Permit No. 6093 to replace the asphalt applicators with environmentally beneficial pre-coated paper. There are no new or revised unit-specific applicable requirements.
2	MS-A	No	52	OP-REQ1	6093	Revision to NSR Permit No. 6093 to use other types of pre-coated paper in the existing facing application process. There are no new or revised unit specific applicable requirements.
3	MS-A	No	53	OP-REQ1	PBR Registration No. 162525	PBR Registration No. 162525 to authorize ink-jet printers for the V-2 paper pit. No new or revised unit specific applicable requirements.
4	MS-A	No	11	OP-REQ1	PBR Registration No. 162524	PBR Registration No. 162524 to authorize two new adhesives for the V-1 manufacturing line. No new or revised unit specific applicable requirements.
5	MS-C	No	FCABUV2	OP-UA2		Remove FCABUV2 and associated applicable requirements. The unit is no longer in operation
6	MS-C	No	09CAUL	OP-UA4		Remove 09CAUL and associated applicable requirements. The loading associated with 09CAST is no longer in operation.
7	MS-C	No	09PRUL	OP-UA4		Remove 09PRUL and associated applicable requirements. The loading associated with 09PRST is no longer in operation.

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3
Texas Commission on Environmental Quality

Date: 08/04/2023		
Permit No.: O-1094		
Regulated Entity No.: RN100223585		
Company Name: Owens Corning Insulating Systems, LLC		
I.	**Significant Revision** *(Complete this section if you are submitting a significant revision application or a renewal application that includes a significant revision.)*	
A.	Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322?	☐ YES ☐ NO
B.	Indicate the alternate language(s) in which public notice is required:	
C.	Will, there be a change in air pollutant emissions as a result of the significant revision?	☐ YES ☐ NO

Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3
Texas Commission on Environmental Quality

Using the table below, indicate the air pollutant(s) that will be changing and include a brief description of the change in pollutant emissions for each pollutant:

Pollutant	Description of the Change in Pollutant Emissions

4. TCEQ FORM OP-SUMR

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR
Table 1

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit/Process AI	Unit/Process Revision No.	Unit/Process ID No.	Unit/Process Applicable Form	Unit/Process Name/ Description	Unit/Process CAM	Preconstruction Authorizations 30 TAC Chapter 116/ 30 TAC Chapter 106	Preconstruction Authorizations Title I
D	5	FCABUV2	OP-UA2	Emergency Engine		106.511/03/14/1997	
D	6	09CAUL	OP-UA4	Unloading from cross-linker 1 tank		6093	
D	7	09PRUL	OP-UA4	Unloading from cross-linker 2 tank		6093	

5. TCEQ FORM OP-CRO1

Form OP-CRO1
Certification by Responsible Official
Federal Operating Permit Program

All initial permit application, revision, renewal, and reopening submittals requiring certification must be addressed using this form. Updates to site operating permit (SOP) and temporary operating permit (TOP) applications, other than public notice verification materials, must be certified prior to authorization of public notice or start of public announcement. Updates to general operating permit (GOP) applications must be certified prior to receiving an authorization to operate under a GOP.

I. Identifying Information		
RN: RN100223585	CN: CN603159088	Account No.: ED-0051-O
Permit No.: O-1094	Project No.: TBA	
Area Name: Waxahachie Plant	Company Name: Owens Corning Insulating Systems, LLC	

II. Certification Type *(Please mark the appropriate box)*

☐ Responsible Official ☒ Duly Authorized Representative

III. Submittal Type *(Please mark the appropriate box) (Only one response can be accepted per form)*

☐ SOP/TOP Initial Permit Application ☐ Update to Permit Application

☐ GOP Initial Permit Application ☒ Permit Revision, Renewal, or Reopening

☐ Other: _____

IV. Certification of Truth

This certification does not extend to information which is designated by the TCEQ as information for reference only.

I, Lucian Radut certify that I am the DAR
(Certifier Name printed or typed) *(RO or DAR)*

and that, based on information and belief formed after reasonable inquiry, the statements and information dated during the time period or on the specific date(s) below, are true, accurate, and complete:

Note: Enter Either a Time Period OR Specific Date(s) for each certification. This section must be completed. The certification is not valid without documentation date(s).

Time Period: From _____ to _____
Start Date *End Date*

Specific Dates: 08/04/2023 _____ _____ _____ _____ _____
Date 1 *Date 2* *Date 3* *Date 4* *Date 5* *Date 6*

Signature: _____ Signature Date: _____

Title: Plant Leader

6. TCEQ FORM OP-UA2

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 1)
Federal Operating Permit Program
Table 1a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Horsepower Rating	RACT Date Placed in Service	Functionally Identical Replacement	Type of Service	Fuel Fired	Engine Type	ESAD Date Placed in Service	Diesel HP Rating
HWBUV1		50-			ENG	NG			
FWCBUV1	R7403-1	50+			D2007-				
FWCBUV2	R7403-1	50+			D2007-				
FWCBUV3	R7403-1	50+			D2007-				
CWBU	R7403-1	50+			D2007-				
PCWSBU	R7403-1	50+			D2007-				
HWBUV2	R7403-1	50-			D2007-				
HWBUV3	R7403-1	50-			D2007-				

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 4)
Federal Operating Permit Program
Table 2a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	HAP Source	Brake HP	Construction/ Reconstruction Date	Nonindustrial Emergency Engine	Service Type	Stationary RICE Type
HWBUV1	63ZZZZ-4	MAJOR	100-	02-		EMER-A	4SRB
FWCBUV1	63ZZZZ-1	MAJOR	100-	02-		EMER-A	CI
FWCBUV2	63ZZZZ-2	MAJOR	100-250	02-		EMER-A	CI
FWCBUV3	63ZZZZ-2	MAJOR	100-250	02-		EMER-A	CI
CWBU	63ZZZZ-1	MAJOR	100-	02-		EMER-A	CI
PCWSBU	63ZZZZ-2	MAJOR	100-250	02-		EMER-A	CI
HWBUV2	63ZZZZ-1	MAJOR	100-	02-		EMER-A	CI
HWBUV3	63ZZZZ-3	MAJOR	100-	02-06		EMER-A	CI

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 8)
Federal Operating Permit Program
Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Construction/ Reconstruction/ Modification Date	Test Cell	Exemption	Temp Replacement	Horsepower	Fuel	AEL No.	Lean Burn	Commencing
HWBUV1		NO								

Stationary Reciprocating Internal Combustion Engine Attributes
Form OP-UA2 (Page 10)
Federal Operating Permit Program
Table 5a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Applicability Date	Exemptions	Service	Commencing	Manufacture Date
FWCBUV1		2005-				
FWCBUV2		2005-				
FWCBUV3		2005-				
CWBU		2005-				
PCWSBU		2005-				
HWBUV2		2005-				
HWBUV3		2005-				

7. TCEQ FORM OP-UA3

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 1)
Federal Operating Permit Program
Table 1: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart K: Standards of Performance for Storage Vessels for Petroleum Liquids
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Construction/ Modification Date	Storage Capacity	Product Stored	True Vapor Pressure	Storage Vessel Description	Reid Vapor Pressure	Maximum TVP	Estimated TVP	Control Device ID No.
72DIE		73-								
73GAS		73-								
07USST		73-								
07REST1		73-								
07BOST		73-								
07WOST		73-								
07FOST		73-74	65+	OTHER1						

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 3)
Federal Operating Permit Program
Table 3: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels
(Including Petroleum Liquid Storage Vessels)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Product Stored	Storage Capacity	WW Tank Control	Maximum TVP	Storage Vessel Description	AMEL ID No.	Guidepole	Reid Vapor Pressure	Control Device ID No.
09MDST1		VOL	40K+	NONE	0.5-					
09MDST2		VOL	40K+	NONE	0.5-					
07ASST		VOL	40K+	NONE	0.5-0.75					
09ADST2		VOL	10K-20K							
09REST3		VOL	10K-20K							
09REST2		VOL	20K-40K	NONE	0.5-					
07WWST		OTHER3								
09ADST1		VOL	10K-20K							

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 4)
Federal Operating Permit Program
Table 4a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Alternate Control Requirement	ACR ID No.	Product Stored	Storage Capacity	Throughput	Potential to Emit	Uncontrolled Emissions
07USST		NO		VOC1	A1K-25K			
09REST3		NO		VOC1	A1K-25K			
07REST1		NO		VOC1	A1K-25K			
07BOST		NO		VOC1	A1K-25K			
07WOST		NO		VOC1	A1K-25K			
07ASST		NO		VOC1	A40K+			
09ADST1		NO		VOC1	A1K-25K			
09ADST2		NO		VOC1	A1K-25K			
72DIE		NO		VOC1	A1K-			
73GAS		NO		GASMV	A1K-			
07FOST		NO		VOC1	A40K+			
07WWST		NO		VOC1	A1K-25K			

Unit ID No.	SOP/GOP Index No.	Alternate Control Requirement	ACR ID No.	Product Stored	Storage Capacity	Throughput	Potential to Emit	Uncontrolled Emissions
09MDST1		NO		VOC1	A40K+			
09MDST2		NO		VOC1	A40K+			
09REST2		NO		VOC1	A1K-25K			

Storage Tank/Vessel Attributes
Form OP-UA3 (Page 5)
Federal Operating Permit Program
Table 4b: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Storage of Volatile Organic Compounds (VOCs)
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Construction Date	Tank Description	True Vapor Pressure	Primary Seal	Secondary Seal	Control Device Type	Control Device ID No.
07USST			NONE1	1-				
09REST3			NONE1	1-				
07REST1			NONE1	1-				
07BOST			NONE1	1-				
07WOST			NONE1	1-				
07ASST			NONE1	1-				
09ADST1			NONE1	1-				
09ADST2			NONE1	1-				
72DIE								
73GAS								
07FOST			NONE1	1-				
07WWST			NONE1	1-				

Unit ID No.	SOP/GOP Index No.	Construction Date	Tank Description	True Vapor Pressure	Primary Seal	Secondary Seal	Control Device Type	Control Device ID No.
09MDST1			NONE1	1-				
09MDST2			NONE1	1-				
096REST2			NONE1	1-				

8. TCEQ FORM OP-UA4

Texas Commission on Environmental Quality
Loading/Unloading Operations Attributes
Form OP-UA04 (Page 1)
Federal Operating Permit Program
Table 1a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter C: Loading and Unloading of Volatile Organic Compounds

Date	Permit No.:	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Chapter 115 Facility Type	Alternate Control Requirement (ACR)	ACR ID No.	Product Transferred	Transfer Type	True Vapor Pressure	Daily Through-put	Control Options
07REST1UL	R5211-1	OTHER	NONE		VOC1	UNLOAD	0.5-		
07BOSTUL	R5211-1	OTHER	NONE		VOC1	UNLOAD	0.5-		
07WOSTLO	R5211-2	OTHER	NONE		VOC1	LOAD	0.5-		
07ASSTUL	R5211-1	OTHER	NONE		VOC1	UNLOAD	0.5-		
72DIEUL	R5211-1	OTHER	NONE		VOC1	UNLOAD	0.5-		
73GASUL		MOTOR							
PROPANE1UL	R5211-3	OTHER	NONE		LPG1	UNLOAD			
PROPANE2UL	R5211-3	OTHER	NONE		LPG1	UNLOAD			
09MDUL1	R5211-1	OTHER	NONE		VOC1	UNLOAD	0.5-		
09MDUL2	R5211-1	OTHER	NONE		VOC1	UNLOAD	0.5-		
09ADSTUL	R5211-1	OTHER	NONE		VOC1	UNLOAD	0.5-		

9. TCEQ FORM OP-UA5

Texas Commission on Environmental Quality
Process Heater/Furnace Attributes
Form OP-UA5 (Page 1)
Federal Operating Permit Program
Table 1a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas, Process Heaters

Date:	**08/04/2023**
Permit No.:	**O-1094**
Regulated Entity No.:	**RN100223585**

Unit ID No.	SOP/GOP Index No.	Unit Type	Maximum Rated Capacity	RACT Date Placed in Service	Functionally Identical Replacement	Fuel Type(s)			Annual Heat Input	NOx Emission Limitation	Opt-In Unit	23C-Option
49		PRHTR	5-									

Texas Commission on Environmental Quality
Process Heater/Furnace Attributes
Form OP-UA5 (Page 5)
Federal Operating Permit Program
Table 3a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas, Furnaces

Date:	**08/04/2023**
Permit No.:	**O-1094**
Regulated Entity No.:	**RN100223585**

Unit ID No.	SOP/GOP Index No.	Unit Type	Maximum Rated Capacity	NOx Emission Limitation	23C-Option	NOx Emission Limit Basis	NOx Reduction	NOx Monitoring System
01MELT	R7410-1	MWNON	20-40	**410A**		OTHER	NONE	MERT
GRP-EFURN	R7410-2	MWCOLD	20-40	**410A**		OTHER	NONE	MERT

Texas Commission on Environmental Quality
Process Heater/Furnace Attributes
Form OP-UA5 (Page 6)
Federal Operating Permit Program
Table 3b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas, Furnaces

Date:	**08/04/2023**
Permit No.:	**O-1094**
Regulated Entity No.:	**RN100223585**

Unit ID No.	SOP/GOP Index No.	Fuel Flow Monitoring	CO Emission Limitation	CO Monitoring System	NH3 Emission Limitation	NH3 Monitoring
01MELT	R7410-1	X40A	**410C**	OTHER		
GRP-EFURN	R7410-2	X40A	**410C**	OTHER		

10. TCEQ FORM OP-UA6

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 11)
Federal Operating Permit Program
Table 4a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Dc: Standards of Performance for Industrial-Commercial Steam Generating Units
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	0-1094	RN100223585

Unit ID No.	SOP Index No.	Construction/ Modification Date	Maximum Design Heat Input Capacity	Applicability	Heat Input Capacity	D-Series Fuel Type	D-Series Fuel Type	D-Series Fuel Type	ACF Option SO_2	ACF Option PM	30% Coal Duct Burner
GRP-BOIL		89-									

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 13)
Federal Operating Permit Program
Table 5a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subpart B: Combustion Control at Major Industrial, Commercial and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	0-1094	RN100223585

Unit ID No.	SOP Index No.	Unit Type	MRC	RACT Date Placed in Service	Functionally Identical Replacement	Fuel Type	Fuel Type	Fuel Type	Annual Heat Input
GRP-BOIL	R7410-3	ICIB	2-40			NG			

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 14)
Federal Operating Permit Program
Table 5b: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subpart B: Combustion Control at Major Industrial, Commercial and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	0-1094	RN100223585

Unit ID No.	SOP Index No.	NO_X Emission Limitation	Opt-In Unit	23C-Option	Title 30 TAC Chapter 116 Permit Limit	EGF System Cap Unit	NO_X Emission Limit Average	NO_X Reduction	Common Stack Combined
GRP-BOIL	R7410-3	**410A**					**BLK1-LB**	NONE	

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 15)
Federal Operating Permit Program
Table 5c: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subpart B: Combustion Control at Major Industrial, Commercial and Institutional Sources in Ozone Nonattainment Areas
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	0-1094	RN100223585

Unit ID No.	SOP Index No.	Fuel Type Heat Input	NO_X Monitoring System	Fuel Flow Monitoring	CO Emission Limitation	CO Monitoring System	NH_3 Emission Limitation	NH_3 Emission Monitoring
GRP-BOIL	R7410-3		MERT	X40A	**410C**	OTHER		

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 37)
Federal Operating Permit Program
Table 14a: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)
Subpart DDDDD: Industrial, Commercial, and Institutional Boilers
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	0-1094	RN100223585

Unit ID No.	SOP/GOP Index No.	Commence	Table Applicability	HCl Emission	HCl-CMS
GRP-BOIL	63DDDDD-1	EXIST	T3.3G1		

11. TCEQ FORM OP-UA15

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 1)
Federal Operating Permit Program
Table 1a: Title 30 Texas Administrative Code Chapter 111 (30 TAC Chapter 111)
Subchapter A: Visible Emissions
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Emission Point ID No.	SOP/GOP Index No.	Alternate Opacity Limitation	AOL ID No.	Vent Source	Opacity Monitoring System	Construction Date	Effluent Flow Rate
GRP-VENT	R111-GRPVENT	NO		OTHER	NONE	72-	100-
GRP-BKUP	R111-GRPBKUP	NO		OTHER	NONE	72-	100-
07REST1	R1111-T	NO		NOVIS	NONE	72-	100-
07BOST	R1111-T	NO		NOVIS	NONE	72-	100-
07USST	R1111-T	NO		NOVIS	NONE	72-	100-
07USST	R1111-T	NO		NOVIS	NONE	72-	100-
17	R1111-V	NO		NOVIS	NONE	72-	100-
10	111-MIX	NO		OTHER	NONE	72-	100+
22	111-MIX	NO		OTHER	NONE	72+	100+
40	111-MIX	NO		OTHER	NONE	72+	100+

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)
Federal Operating Permit Program
Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
07UPST	R5127-2	NO	NO	REGVAPPL		100-		YES
09DYE	R5127-2	NO	NO	REGVAPPL		100-		YES
17	R5127-2	NO	NO	REGVAPPL		100-		YES
HWWWBSUP	R5127-2	NO	NO	REGVAPPL		100-		YES
HWWWHOLD	R5127-2	NO	NO	REGVAPPL		100-		YES
HWWWSUP	R5127-2	NO	NO	REGVAPPL		100-		YES
V1WWSUPPLY	R5127-2	NO	NO	REGVAPPL		100-		YES
V2WWSUPPLY	R5127-2	NO	NO	REGVAPPL		100-		YES
V3WWSUPPLY	R5127-2	NO	NO	REGVAPPL		100-		YES
01QHWWRT1	R5127-2	NO	NO	REGVAPPL		100-		YES

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)
Federal Operating Permit Program
Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
01QHWWBT1	R5127-2	NO	NO	REGVAPPL		100-		YES
V1BNDRCIRC	R5127-2	NO	NO	REGVAPPL		100-		YES
V2BNDRCIRC	R5127-2	NO	NO	REGVAPPL		100-		YES
V3BNDRCIRC	R5127-2	NO	NO	REGVAPPL		100-		YES
SILCIRC	R5127-2	NO	NO	REGVAPPL		100-		YES
SILMIX	R5127-2	NO	NO	REGVAPPL		100-		YES
SILSURG	R5127-2	NO	NO	REGVAPPL		100-		YES
LIGSURG	R5127-2	NO	NO	REGVAPPL		100-		YES
MTOILMIX	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBCT1	R5127-2	NO	NO	REGVAPPL		100-		YES

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)
Federal Operating Permit Program
Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
09QBCT2	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBCT3	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBCT4	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBCT5	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBMT1	R5127-2	NO	NO	REGVAPPL		100-		YES
09QBMT2	R5127-2	NO	NO	REGVAPPL		100-		YES
GRP-MIX	R5127-1	NO	NO	REGVAPPL			612-	YES
13	R5127-1	NO	NO	REGVAPPL			612-	YES

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 3)
Federal Operating Permit Program
Table 2a: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter B: Vent Gas Control
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Emission Point ID No.	SOP/GOP Index No.	Chapter 115 Division	Combustion Exhaust	Vent Type	Total Uncontrolled VOC Weight	Combined 24-Hour VOC Weight	VOC Concentration	VOC Concentration or Emission Rate at Maximum Operating Conditions
23	R5127-1	NO	NO	REGVAPPL			612-	YES
55	R5127-1	NO	NO	REGVAPPL			612-	YES
41	R5127-1	NO	NO	REGVAPPL			612-	YES
56	R5127-1	NO	NO	REGVAPPL			612-	YES

Emission Point/Stationary Vent/Distillation Operation Vent/Process Vent Attributes
Form OP-UA15 (Page 40)
Federal Operating Permit Program
Table 15: Title 30Texas Administrative Code Chapter 111 (30 TAC Chapter 111)
Subchapter A, Division 5: Emission Limits on Nonagricultural Processes
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Emission Point ID No.	SOP Index No.	Effective Stack Height
10	R1151-1	NO
22	R1151-2	NO
40	R1151-2	NO

12. TCEQ FORM OP-UA22

Texas Commission on Environmental Quality
Printing Attributes
Form OP-UA22 (Page 5)
Federal Operating Permit Program

Table 3: Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115)
Subchapter E: Graphic Arts (Printing) by Rotogravure and Flexographic Processes

Date: 08/04/2023	**Permit No.: O-1094**	**Regulated Entity No.: RN100223585**
Area Name: Owens Corning Insulating Systems Waxahachie Plant		**Customer Reference No.: CN603159088**

Process ID No.	SOP Index No.	Alternate Control Requirement (ACR)	ACR ID No.	Process Type	Potential Uncontrolled VOC Emissions	Control Method	Control Device	Control Device ID No.	Permanent Total Enclosure
GRP-PRNT	R5437-1	NO		**FLEXO**	50-				

13. TCEQ FORM OP-UA24

Texas Commission on Environmental Quality
Wool Fiberglass Insulation Manufacturing Plant Attributes
Form OP-UA24 (Page 1)
Federal Operating Permit Program

Table 1: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart PPP: Standard of Performance for Wool Fiberglass Insulation Manufacturing Plants

Date:	**08/04/2023**
Permit No.:	**O-1094**
Regulated Entity No.:	**RN100223585**

Process ID No.	SOP Index No.	Manufactures Rotary Spin Wool Fiberglass Insulation	Construction/Modification Date	Control Device	Control Device ID No.
PRO-V1LINE		YES	84-		
PRO-V2LINE		YES	84-		
PRO-V3LINE		YES	84-		

14. TCEQ FORM OP-UA29

Texas Commission on Environmental Quality
Glass Manufacturing Unit Attributes
Form OP-UA29 (Page 1)
Federal Operating Permit Program

Table 1: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart CC: Standards of Performance for Glass Manufacturing Units

Date: 08/04/2023	**Permit No.: O-1094**	**Regulated Entity No.: RN100223585**
Area Name: Waxahachie Plant		**Customer Reference No.: CN603159088**

Unit ID No.	SOP Index No.	Facility Type	Construction/ Modification Date	Modified Process	Simultaneous Firing	Complying with § 60.292	Glass Recipe/ Product	ACMS	ACMS ID No.	Opacity Confidence Level
01MELT		G4550+	79-							
GRP-EFURN		ELECT								

15. TCEQ FORM OP-UA35

Texas Commission on Environmental Quality
Incinerator Attributes
Form OP-UA35 (Page 2)
Federal Operating Permit Program

Table 2a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117) Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas, Incinerators

Date:	**08/04/2023**
Permit No.:	**O-1094**
Regulated Entity No.:	**RN100223585**

Unit ID No.	SOP Index No.	Maximum Rated Capacity	NOx Emission Limitation	23C-Option	NOx Reduction	NOx Monitoring System	NOx Averaging Method
01INCIN		40-					
02INCIN		40-					
03INCIN		40-					

16. TCEQ FORM OP-UA51

Dryer/Kiln/Oven Attributes
Form OP-UA51 (Page 4)
Federal Operating Permit Program
Table 4a: Title 30 Texas Administrative Code Chapter 117 (30 TAC Chapter 117)
Subchapter B: Combustion Control at Major Industrial, Commercial, and Institutional Sources in Ozone Nonattainment Areas, Dryers, Kilns and Ovens
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
08/04/2023	O-1094	RN100223585

Unit ID No.	SOP Index No.	Unit Type	Maximum Rated Capacity	Fuel Fired	N-Bound	NOx Emission Limitation	23C-Option	Kiln lb/ton NOx Limit	NOx Reduction (ICI)	NOx Monitoring System
01DRY		OV/HTR	5-							
01CURE		FGOVN	5-100		YES					
02CURE		FGOVN	5-100		YES					
03CURE		FGOVN	5-100		YES					
01FORM		OTHER2								
02FORM		OTHER2								
03FORM		OTHER2								

17. TCEQ FORM OP-PBRSUP

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 1)

Table A: Registered Permits by Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number
8/4/2023	O-1094	RN100223585

Unit ID	Registration Number	PBR No.	Registration Date
3	45087	106.262	08/18/2000
30	78155	106.472	03/24/2006
85	84393	106.371	04/10/2008
02FAB	113627	106.262	11/07/2013
11	162524	106.261	09/25/2020
11	162524	106.262	09/25/2020
53	162525	106.418	05/19/2021

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 2)

Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area

Date	Permit Number	Regulated Entity Number
8/4/2023	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date
07USST	106.472	09/04/2000
07UPST	106.472	09/04/2000
07REST1	106.472	03/14/1997
07BOST	106.473	03/14/1997
07WOST	106.473	03/14/1997
07ASST	106.472	03/14/1997
72DIE	106.472	03/14/1997
73GAS	106.473	03/14/1997
07FOST	106.472	09/04/2000
07WWST	106.472	09/04/2000
09DYE	106.472	09/04/2000
Small Tanks and Totes	106.472	09/04/2000
09REST3	106.472	09/04/2000
347	106.532	09/04/2000
09ADST1	106.472	03/14/1997
09ADST2	106.472	03/14/1997
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000
76	106.472	09/04/2000
443	106.472	09/04/2000
63	106.371	03/14/1997
64	106.371	03/14/1997
65	106.371	03/14/1997
66	106.371	03/14/1997
67	106.371	03/14/1997
49	106.183	09/04/2000
13NBOIL	SE 7	11/05/1986
13SBOIL	SE 7	11/05/1986
HWBUV1	106.511	03/14/1997
FWCBUV1	106.511	03/14/1997
FWCBUV2	106.511	03/14/1997
FWCBUV3	106.511	03/14/1997
CWBU	106.511	03/14/1997
PCWSBU	106.511	03/14/1997
HWBUV2	106.511	03/14/1997
HWBUV3	106.511	03/14/1997
Sandblasters	106.452	03/14/1997
Welding	106.227	09/04/2000
Water Treatment Chemicals	106.371	09/04/2000
Safety Kleen Stations	106.454	11/01/2001
Chiller Systems	106.373	03/14/1997
Site_MSS	106.263	11/01/2001
Hand held Machines	106.265	09/04/2000

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 3)

Table C: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for Insignificant Sources for the Application Area

Date	Permit Number	Regulated Entity Number
8/4/2023	O-1094	RN100223585

PBR No.	Version No./Date
106.453	09/04/2000
106.122	03/14/1997

Texas Commission on Environmental Quality
Permit By Rule Supplemental Table (Page 4)

Table D: Monitoring Requirements for registered and claimed PBRs for the Application Area

Date	Permit Number	Regulated Entity Number
8/4/2023	O-1094	RN100223585

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
3	106.262	08/18/2000	Record annual throughput of sodium sulfate and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
30	106.472	03/24/2006	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
85	106.371	04/10/2008	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
02FAB	106.262	11/07/2013	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.261	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
11	106.262	09/25/2020	Record annual throughput and use underlying emission calculation methods to determine actual annual emissions. For hourly emissions record the maximum hourly usage and use underlying emission calculation methods to determine actual emissions
53	106.418	05/19/2021	Record annual ink and solvent usage and use underlying emission calculation methods to determine actual emissions
07USST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07UPST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07REST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
07BOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WOST	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07ASST	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
72DIE	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
73GAS	106.473	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07FOST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
07WWST	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09DYE	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Small Tanks and Totes	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09REST3	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
347	106.532	09/04/2000	Record annual hours of operation.
09ADST1	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
09ADST2	106.472	03/14/1997	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
Propane Tank	106.412/106.476	03/14/1997 and 09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
76	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
443	106.472	09/04/2000	Record annual throughput, material stored, and use underlying emission calculation methods to determine actual emissions
63	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
64	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
65	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
66	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions

Unit ID	PBR No.	Version No./Date or Registration No.	Monitoring Requirement
67	106.371	03/14/1997	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
49	106.183	09/04/2000	Record annual fuel usage and use underlying emission factors to calculate emissions and demonstrate compliance with PBR limits
HWBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV1	106.511	03/14/1997	Record annual hours of operation
FWCBUV2	106.511	03/14/1997	Record annual hours of operation
FWCBUV3	106.511	03/14/1997	Record annual hours of operation
CWBU	106.511	03/14/1997	Record annual hours of operation
PCWSBU	106.511	03/14/1997	Record annual hours of operation
HWBUV2	106.511	03/14/1997	Record annual hours of operation
HWBUV3	106.511	03/14/1997	Record annual hours of operation
Sandblasters	106.452	03/14/1997	Maintain operating hours and abrasive material usage on annual basis
Welding	106.227	09/04/2000	Record annual usage of weld rods and lead content for maintenance activities to ensure 0.6 tpy emission limit for lead is met
Water Treatment Chemicals	106.371	09/04/2000	Record annual circulation rate and use underlying emission calculations methods to determine actual emissions
Safety Kleen Stations	106.454	11/01/2001	Record annual usage of solvent
Chiller Systems	106.373	03/14/1997	Maintain documentation of refrigeration chemical
Site_MSS	106.263	11/01/2001	Record details of maintenance activities for baghouse filter repacement, solvent/lubricant usage, vacuum trucks, and boiler maintenance and use the underlying emission calculations to demonstrate compliance with 24-hour emission limits. The details to be recorded include: - Type and reason for the activity - Process and equipment involved - Material usage - Date, time, and duration of the activity - Air contaminants and amounts emitted as a result of the activity
Hand held Machines	106.265	09/04/2000	Annual hours of grinding operations

18. TCEQ FORM OP-REQ1

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 1			
I.	**Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter**		
	A.	**Visible Emissions**	
♦	1.	The application area includes stationary vents constructed on or before January 31, 1972.	☒YES ☐NO
♦	2.	The application area includes stationary vents constructed after January 31, 1972. *If the responses to Questions I.A.1 and I.A.2 are both "NO," go to Question I.A.6.* *If the response to Question I.A.1 is "NO" and the response to Question I.A.2 is "YES," go to Question I.A.4.*	☒YES ☐NO
♦	3.	The application area is opting to comply with the requirements for stationary vents constructed after January 31, 1972 for vents in the application area constructed on or before January 31, 1972.	☐YES ☒NO
♦	4.	All stationary vents are addressed on a unit specific basis.	☐YES ☒NO
♦	5.	Test Method 9 (40 CFR Part 60, Appendix A, Method 9 - Visual Determination of the Opacity of Emissions from Stationary Sources) is used to determine opacity of emissions in the application area.	☒YES ☐NO
♦	6.	The application area includes structures subject to 30 TAC § 111.111(a)(7)(A).	☒YES ☐NO
♦	7.	The application area includes sources, other than those specified in 30 TAC § 111.111(a)(1), (4), or (7), subject to 30 TAC § 111.111(a)(8)(A).	☒YES ☐NO
♦	8.	Emissions from units in the application area include contributions from uncombined water.	☒YES ☐NO
♦	9.	The application area is located in the City of El Paso, including Fort Bliss Military Reservation, and includes solid fuel heating devices subject to 30 TAC § 111.111(c).	☐YES ☒NO ☐N/A

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 2				
I.	**Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)**			
	B.	**Materials Handling, Construction, Roads, Streets, Alleys, and Parking Lots**		
	1.	Items a - d determines applicability of any of these requirements based on geographical location.		
♦		a.	The application area is located within the City of El Paso.	☐YES ☒NO
♦		b.	The application area is located within the Fort Bliss Military Reservation, except areas specified in 30 TAC § 111.141.	☐YES ☒NO
♦		c.	The application area is located in the portion of Harris County inside the loop formed by Beltway 8.	☐YES ☒NO
♦		d.	The application area is located in the area of Nueces County outlined in Group II state implementation plan (SIP) for inhalable particulate matter adopted by the TCEQ on May 13, 1988.	☐YES ☒NO
		If there is any "YES" response to Questions I.B.1.a - d, answers Questions I.B.2.a - d. If all responses to Questions I.B.1.a-d are "NO," go to Section I.C.		
	2.	Items a - d determine the specific applicability of these requirements.		
♦		a.	The application area is subject to 30 TAC § 111.143.	☐YES ☐NO
♦		b.	The application area is subject to 30 TAC § 111.145.	☐YES ☐NO
♦		c.	The application area is subject to 30 TAC § 111.147.	☐YES ☐NO
♦		d.	The application area is subject to 30 TAC § 111.149.	☐YES ☐NO
	C.	**Emissions Limits on Nonagricultural Processes**		
♦	1.	The application area includes a nonagricultural process subject to 30 TAC § 111.151.		☒YES ☐NO
	2.	The application area includes a vent from a nonagricultural process that is subject to additional monitoring requirements. *If the response to Question I.C.2 is "NO," go to Question I.C.4.*		☐YES ☒NO
	3.	All vents from nonagricultural process in the application area are subject to additional monitoring requirements.		☐YES ☐NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 3			
I.	**Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)**		
	C.	**Emissions Limits on Nonagricultural Processes (continued)**	
	4.	The application area includes oil or gas fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(c).	☐YES ☒NO
	5.	The application area includes oil or gas fuel-fired steam generators that are subject to additional monitoring requirements. *If the response to Question I.C.5 is "NO," go to Question I.C.7.*	☐YES ☒NO
	6.	All oil or gas fuel-fired steam generators in the application area are subject to additional monitoring requirements.	☐YES ☐NO
	7.	The application area includes solid fossil fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(b).	☐YES ☒NO
	8.	The application area includes solid fossil fuel-fired steam generators that are subject to additional monitoring requirements. *If the response to Question I.C.8 is "NO," go to Section I.D.*	☐YES ☒NO
	9.	All solid fossil fuel-fired steam generators in the application area are subject to additional monitoring requirements.	☐YES ☐NO
	D.	**Emissions Limits on Agricultural Processes**	
	1.	The application area includes agricultural processes subject to 30 TAC § 111.171.	☐YES ☒NO
	E.	**Outdoor Burning**	
♦	1.	Outdoor burning is conducted in the application area. *If the response to Question I.E.1 is "NO," go to Section II.*	☐YES ☒NO
♦	2.	Fire training is conducted in the application area and subject to the exception provided in 30 TAC § 111.205.	☐YES ☐NO
♦	3.	Fires for recreation, ceremony, cooking, and warmth are used in the application area and subject to the exception provided in 30 TAC § 111.207.	☐YES ☐NO
♦	4.	Disposal fires are used in the application area and subject to the exception provided in 30 TAC § 111.209.	☐YES ☐NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 4			
I.	**Title 30 TAC Chapter 111 - Control of Air Pollution from Visible Emissions and Particulate Matter (continued)**		
	E.	**Outdoor Burning (continued)**	
♦	5.	Prescribed burning is used in the application area and subject to the exception provided in 30 TAC § 111.211.	☐YES ☐NO
♦	6.	Hydrocarbon burning is used in the application area and subject to the exception provided in 30 TAC § 111.213.	☐YES ☐NO
♦	7.	The application area has received the TCEQ Executive Director approval of otherwise prohibited outdoor burning according to 30 TAC § 111.215.	☐YES ☐NO
II.	**Title 30 TAC Chapter 112 - Control of Air Pollution from Sulfur Compounds**		
	A.	**Temporary Fuel Shortage Plan Requirements**	
	1.	The application area includes units that are potentially subject to the temporary fuel shortage plan requirements of 30 TAC §§ 112.15 - 112.18.	☐YES ☒NO
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds**		
	A.	**Applicability**	
♦	1.	The application area is located in the Houston/Galveston/Brazoria area, Beaumont/Port Arthur area, Dallas/Fort Worth area, El Paso area, or a covered attainment county as defined by 30 TAC § 115.10. *See instructions for inclusive counties. If the response to Question III.A.1 is "NO," go to Section IV.*	☒YES ☐NO
	B.	**Storage of Volatile Organic Compounds**	
♦	1.	The application area includes storage tanks, reservoirs, or other containers capable of maintaining working pressure sufficient at all times to prevent any VOC vapor or gas loss to the atmosphere.	☒YES ☐NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 5			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	C.	**Industrial Wastewater**	
	1.	The application area includes affected VOC wastewater streams of an affected source category, as defined in 30 TAC § 115.140. *If the response to Question III.C.1 is "NO" or "N/A," go to Section III.D.*	☐YES ☒NO ☐N/A
	2.	The application area is located at a petroleum refinery in the Beaumont/Port Arthur or Houston/Galveston/Brazoria area. *If the response to Question III.C.2 is "YES" and the refinery is in the Beaumont/Port Arthur area, go to Section III.D.*	☐YES ☐NO
	3.	The application area is complying with the provisions of 40 CFR Part 63, Subpart G, as an alternative to complying with this division (relating to Industrial Wastewater). *If the response to Question III.C.3 is "YES," go to Section III.D.*	☐YES ☐NO
	4.	The application area is located at a plant with an annual VOC loading in wastewater, as determined in accordance with 30 TAC § 115.148, less than or equal to 10 Mg (11.03 tons). *If the response to Question III.C.4 is "YES," go to Section III.D.*	☐YES ☐NO
	5.	The application area includes wastewater drains, junction boxes, lift stations, or weirs that are subject to the control requirements of 30 TAC § 115.142(1).	☐YES ☐NO
	6.	The application area includes wastewater drains, junction boxes, lift stations, or weirs that handle streams chosen for exemption under 30 TAC § 115.147(2).	☐YES ☐NO
	7.	The application area includes wastewater drains, junction boxes, lift stations, or weirs that have an executive director approved exemption under 30 TAC § 115.147(4).	☐YES ☐NO
	D.	**Loading and Unloading of VOCs**	
♦	1.	The application area includes VOC loading operations.	☒YES ☐NO
♦	2.	The application area includes VOC transport vessel unloading operations. *For GOP applications, if the responses to Questions III.D.1 - D.2 are "NO," go to Section III.E.*	☒YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 6				
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**			
	D.	**Loading and Unloading of VOCs (continued)**		
♦		3.	Transfer operations at motor vehicle fuel dispensing facilities are the only VOC transfer operations conducted in the application area.	☐YES ☒NO
	E.	**Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities**		
♦		1.	The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a tank-truck tank into a stationary storage container. *If the response to Question III.E.1 is "NO," go to Section III.F.*	☐YES ☒NO
♦		2.	Transfers to stationary storage containers used exclusively for the fueling of agricultural implements are the only transfer operations conducted at facilities in the application area.	☐YES ☐NO
♦		3.	All transfers at facilities in the application area are made into stationary storage containers with internal floating roofs, external floating roofs, or their equivalent. *If the response to Question III.E.2 and/or E.3 is "YES," go to Section III.F.*	☐YES ☐NO
♦		4.	The application area is located in a covered attainment county as defined in 30 TAC § 115.10. *If the response to Question III.E.4 is "NO," go to Question III.E.9.*	☐YES ☐NO
♦		5.	Stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons are located at the facility.	☐YES ☐NO
♦		6.	Stationary gasoline storage containers with a nominal capacity greater than 1,000 gallons are located at the facility.	☐YES ☐NO
♦		7.	At facilities located in covered attainment counties other than Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed less than 100,000 gallons of gasoline in a calendar month after October 31, 2014. *If the response to Question III.E.7 is "YES," go to Section III.F.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 7			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	E.	**Filling of Gasoline Storage Vessels (Stage I) for Motor Vehicle Fuel Dispensing Facilities (continued)**	
♦	8.	At facilities located in Bastrop, Bexar, Caldwell, Comal, Guadalupe, Hays, Travis, Williamson, or Wilson County, transfers are made to stationary storage tanks greater than 1000 gallons located at a facility which has dispensed no more than 25,000 gallons of gasoline in a calendar month after December 31, 2004. *If the response to Question III.E.8 is "YES," go to Section III.F.*	☐YES ☐NO
♦	9.	Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	☐YES ☐NO
♦	10.	Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which has dispensed more than 10,000 gallons of gasoline in any calendar month after January 1, 1991 and for which construction began prior to November 15, 1992.	☐YES ☐NO
♦	11.	Transfers are made to stationary storage tanks located at a motor vehicle fuel dispensing facility which commenced construction on or after November 15, 1992.	☐YES ☐NO
♦	12.	At facilities located in Ellis, Johnson, Kaufman, Parker, or Rockwall County, transfers are made to stationary storage tanks located at a facility which has dispensed at least 10,000 gallons of gasoline but less than 125,000 gallons of gasoline in a calendar month after April 30, 2005.	☐YES ☐NO
	F.	**Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only)**	
♦	1.	Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(a)(1)(C) or 115.224(2) within the application area.	☐YES ☐NO ☐N/A

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 8			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	F.	**Control of VOC Leaks from Transport Vessels (Complete this section for GOP applications for GOPs 511, 512, 513 and 514 only) (continued)**	
♦	2.	Tank-truck tanks are filled with non-gasoline VOCs having a TVP greater than or equal to 0.5 psia under actual storage conditions at a facility subject to 30 TAC § 115.214(a)(1)(C) within the application area.	☐YES ☐NO ☐N/A
♦	3.	Tank-truck tanks are filled with, or emptied of, gasoline at a facility that is subject to 30 TAC § 115.214(b)(1)(C) or 115.224(2) within the application area.	☐YES ☐NO ☐N/A
	G.	**Control of Vehicle Refueling Emissions (Stage II) at Motor Vehicle Fuel Dispensing Facilities**	
♦	1.	The application area includes one or more motor vehicle fuel dispensing facilities and gasoline is transferred from a stationary storage container into motor vehicle fuel tanks. *If the response to Question III.G.1 is "NO" or "N/A," go to Section III.H.*	☐YES ☒NO ☐N/A
♦	2.	The application area includes facilities that began construction on or after November 15, 1992 and prior to May 16, 2012.	☐YES ☐NO
♦	3.	The application area includes facilities that began construction prior to November 15, 1992. *If the responses to Questions III.G.2 and Question III.G.3 are both "NO," go to Section III.H.*	☐YES ☐NO
♦	4.	The application area includes only facilities that have a monthly throughput of less than 10,000 gallons of gasoline.	☐YES ☐NO
♦	5.	The decommissioning of all Stage II vapor recovery control equipment located in the application area has been completed and the decommissioning notice submitted.	☐YES ☐NO ☐N/A

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 9			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	H.	**Control Of Reid Vapor Pressure (RVP) of Gasoline**	
♦	1.	The application area includes stationary tanks, reservoirs, or other containers holding gasoline that may ultimately be used in a motor vehicle in El Paso County. *If the response to Question III.H.1 is "NO" or "N/A," go to Section III.I.*	☐YES ☐NO ☒N/A
♦	2.	The application area includes stationary tanks, reservoirs, or other containers holding gasoline that will be used exclusively for the fueling of agricultural implements.	☐YES ☐NO
♦	3.	The application area includes a motor vehicle fuel dispensing facility.	☐YES ☐NO
♦	4.	The application area includes stationary tanks, reservoirs, or other containers holding gasoline and having a nominal capacity of 500 gallons or less.	☐YES ☐NO
	I.	**Process Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries**	
	1.	The application area is located at a petroleum refinery.	☐YES ☒NO
	J.	**Surface Coating Processes (Complete this section for GOP applications only.)**	
♦	1.	Surface coating operations (other than those performed on equipment located on-site and in-place) that meet the exemption specified in 30 TAC § 115.427(3)(A) or 115.427(7) are performed in the application area.	☐YES ☐NO ☐N/A

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 10			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	K.	**Cutback Asphalt**	
	1.	Conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots, is used or specified for use in the application area by a state, municipal, or county agency. *If the response to Question III.K.1 is "N/A," go to Section III.L.*	☐YES ☒NO ☐N/A
	2.	The use, application, sale, or offering for sale of conventional cutback asphalt containing VOC solvents for the paving of roadways, driveways, or parking lots occurs in the application area.	☐YES ☒NO ☐N/A
	3.	Asphalt emulsion is used or produced within the application area.	☐YES ☒NO
	4.	The application area is using an alternate control requirement as specified in 30 TAC § 115.513. *If the response to Question III.K.4 is "NO," go to Section III.L.*	☐YES ☒NO
	5.	The application area uses, applies, sells, or offers for sale asphalt concrete, made with cutback asphalt, that meets the exemption specified in 30 TAC § 115.517(1).	☐YES ☐NO
	6.	The application area uses, applies, sells, or offers for sale cutback asphalt that is used solely as a penetrating prime coat.	☐YES ☐NO
	7.	The applicant using cutback asphalt is a state, municipal, or county agency.	☐YES ☐NO
	L.	**Degassing of Storage Tanks, Transport Vessels and Marine Vessels**	
♦	1.	The application area includes degassing operations for stationary, marine, and/or transport vessels. *If the response to Question III.L.1 is "NO" or "N/A," go to Section III.M.*	☐YES ☐NO ☒N/A
♦	2.	Degassing of only ocean-going, self-propelled VOC marine vessels is performed in the application area. *If the response to Question III.L.2 is "YES," go to Section III.M.*	☐YES ☐NO ☐N/A

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 11			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	L.	**Degassing of Storage Tanks, Transport Vessels and Marine Vessels (continued)**	
♦	3.	Degassing of stationary VOC storage vessels with a nominal storage capacity of 1,000,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	☐YES ☐NO ☐N/A
♦	4.	Degassing of stationary VOC storage vessels with a nominal storage capacity of 250,000 gallons or more, or a nominal storage capacity of 75,000 gallons and storing materials with a true vapor pressure greater than 2.6 psia, and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	☐YES ☐NO ☐N/A
♦	5.	Degassing of VOC transport vessels with a nominal storage capacity of 8,000 gallons or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	☐YES ☐NO
♦	6.	Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) or more and a vapor space partial pressure greater than or equal to 0.5 psia of VOC is performed in the application area.	☐YES ☐NO ☐N/A
♦	7.	Degassing of VOC marine vessels with a nominal storage capacity of 10,000 barrels (420,000 gallons) and a vapor space partial pressure ≥ 0.5 psia that have sustained damage as specified in 30 TAC § 115.547(5) is performed in the application area.	☐YES ☐NO ☐N/A
	M.	**Petroleum Dry Cleaning Systems**	
	1.	The application area contains one or more petroleum dry cleaning facilities that use petroleum based solvents.	☐YES ☒NO ☐N/A

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 12			
III.	**Title 30 TAC Chapter 115 - Control of Air Pollution from Volatile Organic Compounds (continued)**		
	N.	**Vent Gas Control (Highly-reactive volatile organic compounds (HRVOC)**	
	1.	The application area includes one or more vent gas streams containing HRVOC.	☐YES ☐NO ☒N/A
	2.	The application area includes one or more flares that emit or have the potential to emit HRVOC. *If the responses to Questions III.N.1 and III.N.2 are both "NO" or "N/A," go to Section III.O. If the response to Question III.N.1 is "YES," continue with Question III.N.3.*	☐YES ☐NO ☒N/A
	3.	All vent streams in the application area that are routed to a flare contain less than 5.0% HRVOC by weight at all times.	☐YES ☐NO
	4.	All vent streams in the application area that are not routed to a flare contain less than 100 ppmv HRVOC at all times. *If the responses to Questions III.N.3 and III.N.4 are both "NO," go to Section III.O.*	☐YES ☐NO
	5.	The application area contains pressure relief valves that are not controlled by a flare.	☐YES ☐NO
	6.	The application area has at least one vent stream which has no potential to emit HRVOC.	☐YES ☐NO
	7.	The application area has vent streams from a source described in 30 TAC § 115.727(c)(3)(A) - (H).	☐YES ☐NO
	O.	**Cooling Tower Heat Exchange Systems (HRVOC)**	
	1.	The application area includes one or more cooling tower heat exchange systems that emit or have the potential to emit HRVOC.	☐YES ☐NO ☒N/A

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 13			
IV.	**Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds**		
	A.	**Applicability**	
♦	1.	The application area is located in the Houston/Galveston/Brazoria, Beaumont/Port Arthur, or Dallas/Fort Worth Eight-Hour area. *For SOP applications, if the response to Question IV.A.1 is "YES," complete Sections IV.B - IV.F and IV.H.* *For GOP applications for GOPs 511, 512, 513, or 514, if the response to Question IV.A.1 is "YES," go to Section IV.F.* *For GOP applications for GOP 517, if the response to Question IV.A.1 is "YES," complete Sections IV.C and IV.F.* *For GOP applications, if the response to Question IV.A.1 is "NO," go to Section VI.*	☒YES ☐NO
	2.	The application area is located in Bexar, Comal, Ellis, Hays, or McLennan County and includes a cement kiln. *If the response to Question IV.A.2 is "YES," go to Question IV.H.1.*	☐YES ☒NO
	3.	The application area includes a utility electric generator in an east or central Texas county. *See instructions for a list of counties included.* *If the response to Question IV.A.3 is "YES," go to Question IV.G.1.* *If the responses to Questions IV.A.1 - 3 are all "NO," go to Question IV.H.1.*	☐YES ☒NO
	B.	**Utility Electric Generation in Ozone Nonattainment Areas**	
	1.	The application area includes units specified in 30 TAC §§ 117.1000, 117.1200, or 117.1300. *If the response to Question IV.B.1 is "NO," go to Question IV.C.1.*	☐YES ☒NO
	2.	The application area is complying with a System Cap in 30 TAC §§ 117.1020 or 117.1220.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 14			
IV.	**Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)**		
	C.	**Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas**	
♦	1.	The application area is located at a site subject to 30 TAC Chapter 117, Subchapter B and includes units specified in 30 TAC §§ 117.100, 117.300, or 117.400. *For SOP applications, if the response to Question IV.C.1 is "NO," go to Question IV.D.1. For GOP applications for GOP 517, if the response to Question IV.C.1 is "NO," go to Section IV.F.*	☒YES ☐NO
♦	2.	The application area is located at a site that was a major source of NO_X before November 15, 1992.	☐YES ☐NO ☒N/A
♦	3.	The application area includes an electric generating facility required to comply with the System Cap in 30 TAC § 117.320.	☐YES ☒NO
	D.	**Adipic Acid Manufacturing**	
	1.	The application area is located at, or part of, an adipic acid production unit.	☐YES ☐NO ☒N/A
	E.	**Nitric Acid Manufacturing - Ozone Nonattainment Areas**	
	1.	The application area is located at, or part of, a nitric acid production unit.	☐YES ☐NO ☒N/A
	F.	**Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines**	
♦	1.	The application area is located at a site that is a minor source of NO_X in the Houston/Galveston/Brazoria or Dallas/Fort Worth Eight-Hour areas (except for Wise County). *For SOP applications, if the response to Question IV.F.1 is "NO," go to Question IV.G.1. For GOP applications, if the response to Question IV.F.1 is "NO," go to Section VI.*	☐YES ☒NO
♦	2.	The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(a).	☐YES ☐NO
♦	3.	The application area is located in the Houston/Galveston/Brazoria area and has units that qualify for an exemption under 30 TAC § 117.2003(b).	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 15			
IV.	**Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)**		
	F.	**Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines (continued)**	
♦	4.	The application area is located in the Dallas/Fort Worth Eight-Hour area (except for Wise County) and has units that qualify for an exemption under 30 TAC § 117.2103.	☐YES ☐NO
♦	5.	The application area has units subject to the emission specifications under 30 TAC §§ 117.2010 or 30 TAC § 117.2110.	☐YES ☐NO
	6.	The application area has a unit that has been approved for alternative case specific specifications (ACSS) in 30 TAC § 117.2025 or 30 TAC § 117.2125. *If the response to Question IV.F.6 is "NO," go to Section IV.G.*	☐YES ☐NO
	7.	An ACSS for carbon monoxide (CO) has been approved?	☐YES ☐NO
	8.	An ACSS for ammonia (NH_3) has been approved?	☐YES ☐NO
	9.	Provide the Permit Number(s) and authorization/issuance date(s) of the NSR project(s) that incorporates an ACSS below.	
	G.	**Utility Electric Generation in East and Central Texas**	
	1.	The application area includes utility electric power boilers and/or stationary gas turbines (including duct burners used in turbine exhaust ducts) that were placed into service before December 31, 1995. *If the response to Question IV.G.1 is "NO," go to Question IV.H.1.*	☐YES ☐NO
	2.	The application area is complying with the System Cap in 30 TAC § 117.3020.	☐YES ☐NO
	H.	**Multi-Region Combustion Control - Water Heaters, Small Boilers, and Process Heaters**	
	1.	The application area includes a manufacturer, distributor, retailer or installer of natural gas fired water heaters, boilers or process heaters with a maximum rated capacity of 2.0 MMBtu/hr or less. *If the response to question IV.H.1 is "NO," go to Section V.*	☐YES ☒NO
	2.	All water heaters, boilers or process heaters manufactured, distributed, retailed or installed qualify for an exemption under 30 TAC § 117.3203.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 16		
V.	**Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products**	
A.	**Subpart B - National Volatile Organic Compound Emission Standards for Automobile Refinish Coatings**	
1.	The application area manufactures automobile refinish coatings or coating components and sells or distributes these coatings or coating components in the United States.	☐YES ☒NO
2.	The application area imports automobile refinish coatings or coating components, manufactured on or after January 11, 1999, and sells or distributes these coatings or coating components in the United States. *If the responses to Questions V.A.1 and V.A.2 are both "NO," go to Section V.B.*	☐YES ☒NO
3.	All automobile refinish coatings or coating components manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.100(c)(1) - (6).	☐YES ☐NO
B.	**Subpart C - National Volatile Organic Compound Emission Standards for Consumer Products**	
1.	The application area manufactures consumer products for sale or distribution in the United States.	☐YES ☒NO
2.	The application area imports consumer products manufactured on or after December 10, 1998 and sells or distributes these consumer products in the United States.	☐YES ☒NO
3.	The application area is a distributor of consumer products whose name appears on the label of one or more of the products. *If the responses to Questions V.B.1 - V.B.3 are all "NO," go to Section V.C.*	☐YES ☒NO
4.	All consumer products manufactured, imported, or distributed by the application area meet one or more of the exemptions specified in 40 CFR § 59.201(c)(1) - (7).	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 17			
V.	**Title 40 Code of Federal Regulations Part 59 (40 CFR Part 59) - National Volatile Organic Compound Emission Standards for Consumer and Commercial Products (continued)**		
	C.	**Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings**	
	1.	The application area manufactures or imports architectural coatings for sale or distribution in the United States.	☐YES ☒NO
	2.	The application area manufactures or imports architectural coatings that are registered under the Federal Insecticide, Fungicide, and Rodenticide Act. *If the responses to Questions V.C.1-2 are both "NO," go to Section V.D.*	☐YES ☒NO
	3.	All architectural coatings manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR §59.400(c)(1)-(5).	☐YES ☐NO
	D.	**Subpart E - National Volatile Organic Compound Emission Standards for Aerosol Coatings**	
	1.	The application area manufactures or imports aerosol coating products for sale or distribution in the United States.	☐YES ☒NO
	2.	The application area is a distributor of aerosol coatings for resale or distribution in the United States.	☐YES ☒NO
	E.	**Subpart F - Control of Evaporative Emissions From New and In-Use Portable Fuel Containers**	
	1.	The application area manufactures or imports portable fuel containers for sale or distribution in the United States. *If the response to Question V.E.1 is "NO," go to Section VI.*	☐YES ☒NO
	2.	All portable fuel containers manufactured or imported by the application area meet one or more of the exemptions specified in 40 CFR § 59.605(a) - (c).	☐YES ☐NO
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards**		
	A.	**Applicability**	
♦	1.	The application area includes a unit(s) that is subject to one or more 40 CFR Part 60 subparts. *If the response to Question VI.A.1 is "NO," go to Section VII.*	☒YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 18			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	B.	**Subpart Y - Standards of Performance for Coal Preparation and Processing Plants**	
	1.	The application area is located at a coal preparation and processing plant. *If the response to Question VI.B.1 is "NO," go to Section VI.C.*	☐YES ☒NO
	2.	The coal preparation and processing plant has a design capacity greater than 200 tons per day (tpd). *If the response to Question VI.B.2 is "NO," go to Section VI.C.*	☐YES ☐NO
	3.	The plant has an option to enforceably limit its operating level to less than 200 tpd and is choosing this option. *If the response to Question VI.B.3 is "YES," go to Section VI.C.*	☐YES ☐NO
	4.	The plant contains an open storage pile, as defined in § 60.251, as an affected facility. *If the response to Question VI.B.4 is "NO," go to Section VI.C.*	☐YES ☐NO
	5.	The open storage pile was constructed, reconstructed or modified after May 27, 2009.	☐YES ☐NO
	C.	**Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only)**	
♦	1.	The application area includes one or more stationary gas turbines that have a heat input at peak load greater than or equal to 10 MMBtu/hr (10.7GJ/hr), based on the lower heating value of the fuel fired. *If the response to Question VI.C.1 is "NO" or "N/A," go to Section VI.D.*	☐YES ☐NO ☐N/A
♦	2.	One or more of the affected facilities were constructed, modified, or reconstructed after October 3, 1977 and prior to February 19, 2005. *If the response to Question VI.C.2 is "NO," go to Section VI.D.*	☐YES ☐NO
♦	3.	One or more stationary gas turbines in the application area are using a previously approved alternative fuel monitoring schedule as specified in 40 CFR § 60.334(h)(4).	☐YES ☐NO
♦	4.	The exemption specified in 40 CFR § 60.332(e) is being utilized for one or more stationary gas turbines in the application area.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 19			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	C.	**Subpart GG - Standards of Performance for Stationary Gas Turbines (GOP applicants only) (continued)**	
♦	5.	One or more stationary gas turbines subject to 40 CFR Part 60, Subpart GG in the application area is injected with water or steam for the control of nitrogen oxides.	☐YES ☐NO
	D.	**Subpart XX - Standards of Performance for Bulk Gasoline Terminals**	
	1.	The application area includes bulk gasoline terminal loading racks. *If the response to Question VI.D.1 is "NO," go to Section VI.E.*	☐YES ☒NO ☐N/A
	2.	One or more of the loading racks were constructed or modified after December 17, 1980, and are not subject to 40 CFR Part 63, Subpart CC.	☐YES ☐NO
	E.	**Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO_2) Emissions**	
♦	1.	The application area includes affected facilities identified in 40 CFR § 60.640(a) that process natural gas (onshore). *For SOP applications, if the response to Question VI.E.1 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.1 is "NO" or "N/A," go to Section VI.H.*	☐YES ☒NO
♦	2.	The affected facilities commenced construction or modification after January 20, 1984 and on or before August 23, 2011. *For SOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.2 is "NO," go to Section VI.H.*	☐YES ☐NO
♦	3.	The application area includes a gas sweetening unit with a design capacity greater than or equal to 2 long tons per day (LTPD) of hydrogen sulfide but operates at less than 2 LTPD. *For SOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.3 is "NO," go to Section VI.H.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 20			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	E.	**Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO_2) Emissions (continued)**	
♦	4.	Federally enforceable operating limits have been established in the preconstruction authorization limiting the gas sweetening unit to less than 2 LTPD. *For SOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.F. For GOP applications, if the response to Question VI.E.4. is "NO," go to Section VI.H.*	☐YES ☐NO
♦	5.	Please provide the Unit ID(s) for the gas sweetening unit(s) that have established federally enforceable operating limits in the space provided below.	
	F.	**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants**	
	1.	The application area includes affected facilities identified in 40 CFR § 60.670(a)(1) that are located at a fixed or portable nonmetallic mineral processing plant. *If the response to Question VI.F.1 is "NO," go to Section VI.G.*	☐YES ☒NO
	2.	Affected facilities identified in 40 CFR § 60.670(a)(1) and located in the application area are subject to 40 CFR Part 60, Subpart OOO.	☐YES ☐NO
	G.	**Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems**	
	1.	The application area is located at a petroleum refinery and includes one or more of the affected facilities identified in 40 CFR § 60.690(a)(2) - (4) for which construction, modification, or reconstruction was commenced after May 4, 1987. *If the response to Question VI.G.1 is "NO," go to Section VI.H.*	☐YES ☒NO
	2.	The application area includes storm water sewer systems.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 21			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	G.	**Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems (continued)**	
	3.	The application area includes ancillary equipment which is physically separate from the wastewater system and does not come in contact with or store oily wastewater.	☐YES ☐NO
	4.	The application area includes non-contact cooling water systems.	☐YES ☐NO
	5.	The application area includes individual drain systems. *If the response to Question VI.G.5 is "NO," go to Section VI.H.*	☐YES ☐NO
	6.	The application area includes one or more individual drain systems that meet the exemption specified in 40 CFR § 60.692-2(d).	☐YES ☐NO
	7.	The application area includes completely closed drain systems.	☐YES ☐NO
	H.	**Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004**	
♦	1.	The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator. *If the response to Question VI.H.1. is "N/A," go to Section VI.I. If the response to Question VI.H.1 is "NO," go to Question VI.H.4.*	☐YES ☒NO ☐N/A
♦	2.	The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006.	☐YES ☐NO
♦	3.	The application area includes at least one small municipal waste incineration unit, other than an air curtain incinerator, constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	☐YES ☐NO
♦	4.	The application area includes at least one air curtain incinerator. *If the response to Question VI.H.4 is "NO," go to Section VI.I.*	☐YES ☒NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 22			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	H.	**Subpart AAAA - Standards of Performance for Small Municipal Waste Incineration Units for Which Construction Commenced After August 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 6, 2004 (continued)**	
♦	5.	The application area includes at least one air curtain incinerator constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006. *If the response to Question VI.H.5 is "NO," go to Question VI.H.7.*	☐YES ☐NO
♦	6.	All air curtain incinerators constructed after August 30, 1999 or modified or reconstructed on or after June 6, 2006 combust only yard waste.	☐YES ☐NO
♦	7.	The application area includes at least one air curtain incinerator constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006.	☐YES ☐NO
♦	8.	All air curtain incinerators constructed before August 30, 1999 and not modified or reconstructed on or after June 6, 2006 combust only yard waste.	☐YES ☐NO
	I.	**Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001**	
♦	1.	The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator. *If the response to Question VI.I.1 is "N/A," go to Section VI.J. If the response to Question VI.I.1 is "NO," go to Question VI.I.4.*	☐YES ☒NO ☐N/A
♦	2.	The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 23			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)**		
	I.	**Subpart CCCC - Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Commenced After November 30, 1999 or for Which Modification or Reconstruction Commenced on or After June 1, 2001 (continued)**	
♦	3.	The application area includes at least one commercial or industrial solid waste incineration unit, other than an air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	☐YES ☐NO
♦	4.	The application area includes at least one air curtain incinerator. *If the response to Question VI.I.4 is "NO," go to Section VI.J.*	☐YES ☒NO
♦	5.	The application area includes at least one air curtain incinerator, constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001. *If the response to Question VI.I.5 is "NO," go to VI.I.7.*	☐YES ☐NO
♦	6.	All air curtain incinerators constructed after November 30, 1999 or modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES ☐NO
♦	7.	The application area includes at least one air curtain incinerator, constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001.	☐YES ☐NO
♦	8.	All air curtain incinerators constructed before November 30, 1999 and not modified or reconstructed on or after June 1, 2001 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 24

VI. Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (continued)

J. Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006

♦	1.	The application area includes at least one very small municipal waste incineration unit or institutional incineration unit, other than an air curtain incinerator. *If the response to Question VI.J.1 is "N/A," go to Section VI.K. If the response to Question VI.J.1 is "NO," go to Question VI.J.4.*	☐YES ☒NO ☐N/A
♦	2.	The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006.	☐YES ☐NO
♦	3.	The application area includes at least one very small municipal waste incineration unit, other than an air curtain incinerator, constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	☐YES ☐NO
♦	4.	The application area includes at least one air curtain incinerator. *If the response to Question VI.J.4 is "NO," go to Section VI.K.*	☐YES ☒NO
♦	5.	The application area includes at least one air curtain incinerator constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006. *If the response to Question VI.J.5 is "NO," go to Question VI.J.7.*	☐YES ☐NO
♦	6.	All air curtain incinerators constructed after December 9, 2004 or modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES ☐NO
♦	7.	The application area includes at least one air curtain incinerator constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 25			
VI.	**Title 40 Code of Federal Regulations Part 60 - New Source Performance Standards (NSPS) (continued)**		
	J.	**Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction Commenced After December 9, 2004 or for Which Modification or Reconstruction Commenced on or After June 16, 2006 (continued)**	
♦	8.	All air curtain incinerators constructed before December 9, 2004 and not modified or reconstructed on or after June 16, 2006 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES ☐NO
♦	9.	The air curtain incinerator is located at an institutional facility and is a distinct operating unit of the institutional facility that generated the waste.	☐YES ☐NO
♦	10.	The air curtain incinerator burns less than 35 tons per day of wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES ☐NO
	K.	**Subpart OOOO - Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution**	
♦	1.	The application area includes one or more of the onshore affected facilities listed in 40 CFR § 60.5365(a)-(g) that are subject to 40 CFR Part 60, Subpart OOOO.	☐YES ☒NO
VII.	**Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants**		
	A.	**Applicability**	
♦	1.	The application area includes a unit(s) that is subject to one or more 40 CFR Part 61 subparts. *If the response to Question VII.A.1 is "NO" or "N/A," go to Section VIII.*	☐YES ☒NO ☐N/A
	B.	**Subpart F - National Emission Standard for Vinyl Chloride**	
	1.	The application area is located at a plant which produces ethylene dichloride by reaction of oxygen and hydrogen chloride with ethylene, vinyl chloride by any process, and/or one or more polymers containing any fraction of polymerized vinyl chloride.	☐YES ☐NO
	C.	**Subpart J - National Emission Standard for Benzene Emissions for Equipment Leaks (Fugitive Emission Sources) of Benzene (Complete this section for GOP applications only)**	
♦	1.	The application area includes equipment in benzene service.	☐YES ☐NO ☐N/A

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 26

VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)

D. Subpart L - National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants

1.	The application area is located at a coke by-product recovery plant and includes one or more of the affected sources identified in 40 CFR § 61.130(a) - (b). *If the response to Question VII.D.1 is "NO," go to Section VII.E.*	☐YES ☐NO
2.	The application area includes equipment in benzene service as determined by 40 CFR § 61.137(b).	☐YES ☐NO
3.	The application area has elected to comply with the provisions of 40 CFR § 61.243-1 and 40 CFR § 61.243-2.	☐YES ☐NO

E. Subpart M - National Emission Standard for Asbestos

Applicability

1.	The application area includes sources, operations, or activities specified in 40 CFR §§ 61.143, 61.144, 61.146, 61.147, 61.148, or 61.155. *If the response to Question VII.E.1 is "NO," go to Section VII.F.*	☐YES ☐NO

Roadway Construction

2.	The application area includes roadways constructed or maintained with asbestos tailings or asbestos-containing waste material.	☐YES ☐NO

Manufacturing Commercial Asbestos

3.	The application area includes a manufacturing operation using commercial asbestos. *If the response to Question VII.E.3 is "NO," go to Question VII.E.4.*	☐YES ☐NO
	a. Visible emissions are discharged to outside air from the manufacturing operation	☐YES ☐NO
	b. An alternative emission control and waste treatment method is being used that has received prior U.S. Environmental Protection Agency (EPA) approval.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 27			
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)			
E. Subpart M - National Emission Standard for Asbestos (continued)			
***Manufacturing Commercial Asbestos* (continued)**			
	c.	Asbestos-containing waste material is processed into non-friable forms.	☐YES ☐NO
	d.	Asbestos-containing waste material is adequately wetted.	☐YES ☐NO
	e.	Alternative filtering equipment is being used that has received EPA approval.	☐YES ☐NO
	f.	A high efficiency particulate air (HEPA) filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles	☐YES ☐NO
	g.	The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	☐YES ☐NO
Asbestos Spray Application			
4.		The application area includes operations in which asbestos-containing materials are spray applied. *If the response to Question VII.E.4 is "NO," go to Question VII.E.5.*	☐YES ☐NO
	a.	Asbestos fibers are encapsulated with a bituminous or resinous binder during spraying and are not friable after drying. *If the response to Question VII.E.4.a is "YES," go to Question VII.E.5.*	☐YES ☐NO
	b.	Spray-on applications on buildings, structures, pipes, and conduits do not use material containing more than 1% asbestos.	☐YES ☐NO
	c.	An alternative emission control and waste treatment method is being used that has received prior EPA approval.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 28			
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)			
E. Subpart M - National Emission Standard for Asbestos (continued)			
***Asbestos Spray Application* (continued)**			
	d.	Asbestos-containing waste material is processed into non-friable forms.	☐YES ☐NO
	e.	Asbestos-containing waste material is adequately wetted.	☐YES ☐NO
	f.	Alternative filtering equipment is being used that has received EPA approval.	☐YES ☐NO
	g.	A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	☐YES ☐NO
	h.	The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	☐YES ☐NO
Fabricating Commercial Asbestos			
5.		The application area includes a fabricating operation using commercial asbestos. *If the response to Question VII.E.5 is "NO," go to Question VII.E.6.*	☐YES ☐NO
	a.	Visible emissions are discharged to outside air from the manufacturing operation.	☐YES ☐NO
	b.	An alternative emission control and waste treatment method is being used that has received prior EPA approval.	☐YES ☐NO
	c.	Asbestos-containing waste material is processed into non-friable forms.	☐YES ☐NO
	d.	Asbestos-containing waste material is adequately wetted.	☐YES ☐NO
	e.	Alternative filtering equipment is being used that has received EPA approval.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 29		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
E.	**Subpart M - National Emission Standard for Asbestos (continued)**	
	***Fabricating Commercial Asbestos* (continued)**	
	f. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	☐YES ☐NO
	g. The EPA has authorized the use of wet collectors designed to operate with a unit contacting energy of at least 9.95 kilopascals.	☐YES ☐NO
	Non-sprayed Asbestos Insulation	
	6. The application area includes insulating materials (other than spray applied insulating materials) that are either molded and friable or wet-applied and friable after drying.	☐YES ☐NO
	Asbestos Conversion	
	7. The application area includes operations that convert regulated asbestos-containing material and asbestos-containing waste material into nonasbestos (asbestos-free) material.	☐YES ☐NO
F.	**Subpart P - National Emission Standard for Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities**	
	1. The application area is located at a metallic arsenic production plant or at an arsenic trioxide plant that processes low-grade arsenic bearing materials by a roasting condensation process.	☐YES ☐NO
G.	**Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations**	
	1. The application area is located at a benzene production facility and/or bulk terminal. *If the response to Question VII.G.1 is "NO," go to Section VII.H.*	☐YES ☐NO
	2. The application area includes benzene transfer operations at marine vessel loading racks.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 30		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
G.	**Subpart BB - National Emission Standard for Benzene Emissions from Benzene Transfer Operations (continued)**	
3.	The application area includes benzene transfer operations at railcar loading racks.	☐YES ☐NO
4.	The application area includes benzene transfer operations at tank-truck loading racks.	☐YES ☐NO
H.	**Subpart FF - National Emission Standard for Benzene Waste Operations**	
	Applicability	
1.	The application area includes a chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery facility as defined in § 61.341.	☐YES ☐NO
2.	The application area is located at a hazardous waste treatment, storage, and disposal (TSD) facility site as described in 40 CFR § 61.340(b). *If the responses to Questions VII.H.1 and VII.H.2 are both "NO," go to Section VIII.*	☐YES ☐NO
3.	The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates. *If the response to Question VII.H.3 is "YES," go to Section VIII.*	☐YES ☐NO
4.	The application area is located at a site having a total annual benzene quantity from facility waste less than 1 megagram per year (Mg/yr). *If the response to Question VII.H.4 is "YES," go to Section VIII*	☐YES ☐NO
5.	The application area is located at a site having a total annual benzene quantity from facility waste greater than or equal to 1 Mg/yr but less than 10 Mg/yr. *If the response to Question VII.H.5 is "YES," go to Section VIII.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 31		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)		
***Applicability* (continued)**		
6.	The flow-weighted annual average benzene concentration of each waste stream at the site is based on documentation.	☐YES ☐NO
7.	The application area has waste streams with flow-weighted annual average water content of 10% or greater.	☐YES ☐NO
Waste Stream Exemptions		
8.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(2) (the flow-weighted annual average benzene concentration is less than 10 ppmw).	☐YES ☐NO
9.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because process wastewater has a flow rate less than 0.02 liters per minute or an annual wastewater quantity less than 10 Mg/yr.	☐YES ☐NO
10.	The application area has waste streams that meet the exemption specified in 40 CFR § 61.342(c)(3) because the total annual benzene quantity is less than or equal to 2 Mg/yr.	☐YES ☐NO
11.	The application area transfers waste off-site for treatment by another facility.	☐YES ☐NO
12.	The application area is complying with 40 CFR § 61.342(d).	☐YES ☐NO
13.	The application area is complying with 40 CFR § 61.342(e). *If the response to Question VII.H.13 is "NO," go to Question VII.H.15.*	☐YES ☐NO
14.	The application area has facility waste with a flow weighted annual average water content of less than 10%.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 32		
VII. Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)		
H. Subpart FF - National Emission Standard for Benzene Waste Operations (continued)		
Container Requirements		
15.	The application area has containers, as defined in 40 CFR § 61.341, that receive non-exempt benzene waste. *If the response to Question VII.H.15 is "NO," go to Question VII.H.18.*	☐YES ☐NO
16.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. *If the response to Question VII.H.16 is "YES," go to Question VII.H.18.*	☐YES ☐NO
17.	Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO
Individual Drain Systems		
18.	The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage non-exempt benzene waste. *If the response to Question VII.H.18 is "NO," go to Question VII.H.25.*	☐YES ☐NO
19.	The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. *If the response to Question VII.H.19 is "YES," go to Question VII.H.25.*	☐YES ☐NO
20.	The application area has individual drain systems complying with 40 CFR § 61.346(a). *If the response to Question VII.H.20 is "NO," go to Question VII.H.22.*	☐YES ☐NO
21.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 33			
VII.	**Title 40 Code of Federal Regulations Part 61 - National Emission Standards for Hazardous Air Pollutants (continued)**		
	H.	**Subpart FF - National Emission Standard for Benzene Waste Operations (continued)**	
		***Individual Drain Systems* (continued)**	
	22.	The application area has individual drain systems complying with 40 CFR § 61.346(b). *If the response to Question VII.H.22 is "NO," go to Question VII.H.25.*	☐YES ☐NO
	23.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	☐YES ☐NO
	24.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	☐YES ☐NO
		Remediation Activities	
	25.	Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF.	☐YES ☐NO
VIII.	**Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories**		
	A.	**Applicability**	
♦	1.	The application area includes a unit(s) that is subject to one or more 40 CFR Part 63 subparts other than subparts made applicable by reference under subparts in 40 CFR Part 60, 61 or 63. *See instructions for 40 CFR Part 63 subparts made applicable only by reference.*	☒YES ☐NO
	B.	**Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry**	
	1.	The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). *If the response to Question VIII.B.1 is "NO," go to Section VIII.D.*	☒YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 34

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

B. Subpart F - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry (continued)

2.	The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii). *If the response to Question VIII.B.2 is "NO," go to Section VIII.D.*	☐YES ☒NO
3.	The application area is located at a site that includes at least one chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	☐YES ☐NO
4.	The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and uses as a reactant or manufactures as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F.	☐YES ☐NO
5.	The application area includes a chemical manufacturing process unit, as defined in 40 CFR § 63.101, that manufactures as a primary product one or more of the chemicals listed in 40 CFR § 63.100(b)(1)(i) or (b)(1)(ii) and does not use as a reactant or manufacture as a product, or co-product, one or more of the organic hazardous air pollutants listed in table 2 of 40 CFR Part 63, Subpart F. *If the response to Questions VIII.B.3, B.4 and B.5 are all "NO," go to Section VIII.D.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 35		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater		
Applicability		
1.	The application area is located at a site that is subject to 40 CFR 63, Subpart F and the application area includes process vents, storage vessels, transfer racks, or waste streams associated with a chemical manufacturing process subject to 40 CFR 63, Subpart F. *If the response to Question VIII.C.1 is "NO," go to Section VIII.D.*	☐YES ☐NO
2.	The application area includes fixed roofs, covers, and/or enclosures that are required to comply with 40 CFR § 63.148.	☐YES ☐NO
3.	The application area includes vapor collection systems or closed-vent systems that are required to comply with 40 CFR § 63.148. *If the response to Question VIII.C.3 is "NO," go to Question VIII.C.8.*	☐YES ☐NO
4.	The application area includes vapor collection systems or closed-vent systems that are constructed of hard-piping.	☐YES ☐NO
5.	The application area includes vapor collection systems or closed-vent systems that contain bypass lines that could divert a vent stream away from a control device and to the atmosphere. *If the response to Question VIII.C.5 is "NO," go to Question VIII.C.8.*	☐YES ☐NO
Vapor Collection and Closed Vent Systems		
6.	Flow indicators are installed, calibrated, maintained, and operated at the entrances to bypass lines in the application area.	☐YES ☐NO
7.	Bypass lines in the application area are secured in the closed position with a car-seal or a lock-and-key type configuration.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 36		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)		
Reloading or Cleaning of Railcars, Tank Trucks, or Barges		
8.	The application area includes reloading and/or cleaning of railcars, tank trucks, or barges that deliver HAPs to a storage tank. *If the response to Question VIII.C.8 is "NO," go to Question VIII.C.11.*	☐YES ☐NO
9.	The application area includes operations that are complying with § 63.119(g)(6) through the use of a closed-vent system with a control device used to reduce inlet emissions of HAPs by at least 95 percent by weight or greater.	☐YES ☐NO
10.	The application area includes operations that are complying with § 63.119(g)(6) through the use of a vapor balancing system.	☐YES ☐NO
Transfer Racks		
11.	The application area includes Group 1 transfer racks that load organic HAPs.	☐YES ☐NO
Process Wastewater Streams		
12.	The application area includes process wastewater streams. *If the response to Question VIII.C.12 is "NO," go to Question VIII.C.34.*	☐YES ☐NO
13.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart FF. *If the response to Question VIII.C.13 is "NO," go to Question VIII.C.15.*	☐YES ☐NO
14.	The application area includes process wastewater streams that are complying with 40 CFR §§ 63.110(e)(1)(i) and (e)(1)(ii).	☐YES ☐NO
15.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart F. *If the response to Question VIII.C.15 is "NO," go to Question VIII.C.17.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 37		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)		
***Process Wastewater Streams* (continued)**		
16.	The application area includes process wastewater streams utilizing the compliance option specified in 40 CFR § 63.110(f)(4)(ii).	☐YES ☐NO
17.	The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Parts 260 through 272. *If the response to Question VIII.C.17 is "NO," go to Question VIII.C.20.*	☐YES ☐NO
18.	The application area includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(i).	☐YES ☐NO
19.	The application are includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(ii).	☐YES ☐NO
20.	The application area includes process wastewater streams, located at existing sources, that are designated as Group 1; are required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 9 compounds.	☐YES ☐NO
21.	The application area includes process wastewater streams, located at existing sources that are Group 2.	☐YES ☐NO
22.	The application area includes process wastewater streams, located at new sources, that are designated as Group 1; required to be treated as Group 1 under 40 CFR § 63.110; or are determined to be Group 1 for Table 8 or Table 9 compounds.	☐YES ☐NO
23.	The application area includes process wastewater streams, located at new sources that are Group 2 for both Table 8 and Table 9 compounds.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 38		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)		
***Process Wastewater Streams* (continued)**		
24.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.C.24 is "YES," go to Question VIII.C.34.*	☐YES ☐NO
25.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.C.25 is "NO," go to Question VIII.C.27.*	☐YES ☐NO
26.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES ☐NO
27.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES ☐NO
28.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. *If the responses to Questions VIII.C.27 - VIII.C.28 are both "NO," go to Question VIII.C.30.*	☐YES ☐NO
29.	The application area includes waste management units that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	☐YES ☐NO
30.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 39

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

C. Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (continued)

Drains

31.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream. *If the response to Question VIII.C.31 is "NO," go to Question VIII.C.34.*	☐YES ☐NO
32.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES ☐NO
33.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES ☐NO
34.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). *If the response to Question VIII.C.34 is "NO," go to Question VIII.C.39.*	☐YES ☐NO
35.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). *If the response to Question VIII.C.35 is "NO," go to Question VIII.C.39.*	☐YES ☐NO
36.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at any flow rate.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 40		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
C.	**Subpart G-National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operation, and Wastewater (continued)**	
	***Drains* (continued)**	
37.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 9, at an annual average flow rate greater than or equal to 10 liters per minute.	☐YES ☐NO
38.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.100(l)(1) or (l)(2); and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds listed in 40 CFR Part 63 Subpart G, Table 8, at an average annual flow rate greater than or equal to 0.02 liter per minute.	☐YES ☐NO
	Gas Streams	
39.	The application area includes gas streams meeting the characteristics of 40 CFR § 63.107(b) - (h) or the criteria of 40 CFR § 63.113(i) and are transferred to a control device not owned or operated by the applicant.	☐YES ☐NO
40.	The applicant is unable to comply with 40 CFR §§ 63.113 - 63.118 for one or more reasons described in 40 CFR § 63.100(q)(1), (3), or (5).	☐YES ☐NO
D.	**Subpart N - National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks**	
1.	The application area includes chromium electroplating or chromium anodizing tanks located at hard chromium electroplating, decorative chromium electroplating, and/or chromium anodizing operations.	☐YES ☒NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 41		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
E.	**Subpart O - Ethylene Oxide Emissions Standards for Sterilization Facilities**	
1.	The application area includes sterilization facilities where ethylene oxide is used in the sterilization or fumigation of materials. *If the response to Question VIII.E.1 is "NO," go to Section VIII.F.*	☐YES ☒NO
2.	Sterilization facilities located in the application area are subject to 40 CFR Part 63, Subpart O. *If the response to Question VIII.E.2 is "NO," go to Section VIII.F.*	☐YES ☐NO
3.	The sterilization source has used less than 1 ton (907 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.	☐YES ☐NO
4.	The sterilization source has used less than 10 tons (9070 kg) of ethylene oxide within all consecutive 12-month periods after December 6, 1996.	☐YES ☐NO
F.	**Subpart Q - National Emission Standards for Industrial Process Cooling Towers**	
1.	The application area includes industrial process cooling towers. *If the response to Question VIII.F.1 is "NO," go to Section VIII.G.*	☒YES ☐NO
2.	Chromium-based water treatment chemicals have been used on or after September 8, 1994.	☐YES ☒NO
G.	**Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)**	
1.	The application area includes a bulk gasoline terminal.	☐YES ☒NO
2.	The application area includes a pipeline breakout station. *If the responses to Questions VIII.G.1 and VIII.G.2 are both "NO," go to Section VIII.H.*	☐YES ☒NO
3.	The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with another bulk gasoline terminal or a pipeline breakout station. *If the response to Question VIII.G.3 is "YES," go to Question VIII.G.10.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 42		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
G. Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (continued)		
4.	The bulk gasoline terminal or pipeline breakout station is located within a contiguous area and under common control with sources, other than bulk gasoline terminals or pipeline breakout stations that emit or have the potential to emit HAPs. *If the response to Question VIII.G.4 is "YES," go to Question VIII.G.10.*	☐YES ☐NO
5.	An emissions screening factor was calculated for the bulk gasoline terminal or pipeline breakout station. *If the response to Question VIII.G.5 is "NO," go to Question VIII.G.10.*	☐YES ☐NO
6.	The value 0.04(OE) is less than 5% of the value of the bulk gasoline terminal emissions screening factor (ET) or the pipeline breakout station emissions screening factor (Ep). *If the response to Question VIII.G.6 is "NO," go to Question VIII.G.10.*	☐YES ☐NO
7.	Emissions screening factor less than 0.5 (ET or EP < 0.5). *If the response to Question VIII.G.7 is "YES," go to Section VIII.H.*	☐YES ☐NO
8.	Emissions screening factor greater than or equal to 0.5, but less than 1.0 (0.5 ≤ ET or EP < 1.0). *If the response to Question VIII.G.8 is "YES," go to Section VIII.H.*	☐YES ☐NO
9.	Emissions screening factor greater than or equal to 1.0 (ET or EP ≥ 1.0). *If the response to Question VIII.G.9 is "YES," go to Question VIII.G.11.*	☐YES ☐NO
10.	The site at which the application area is located is a major source of HAP. *If the response to Question VIII.G.10 is "NO," go to Section VIII.H.*	☐YES ☐NO
11.	The application area is using an alternative leak monitoring program as described in 40 CFR § 63.424(f).	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 43		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
H. Subpart S - National Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry		
1.	The application area includes processes that produce pulp, paper, or paperboard and are located at a plant site that is a major source of HAPs as defined in 40 CFR § 63.2. *If the response to Question VIII.H.1 is "NO," go to Section VIII.I.*	☐YES ☒NO
2.	The application area uses processes and materials specified in 40 CFR § 63.440(a)(1) - (3). *If the response to Question VIII.H.2 is "NO," go to Section VIII.I.*	☐YES ☐NO
3.	The application area includes one or more sources subject to 40 CFR Part 63, Subpart S that are existing sources. *If the response to Question VIII.H.3 is "NO," go to Section VIII.I.*	☐YES ☐NO
4.	The application area includes one or more kraft pulping systems that are existing sources.	☐YES ☐NO
5.	The application area includes one or more dissolving-grade bleaching systems that are existing sources at a kraft or sulfite pulping mill.	☐YES ☐NO
6.	The application area includes bleaching systems that are existing sources and are complying with the Voluntary Advanced Technology Incentives Program for Effluent Limitation Guidelines in 40 CFR § 430.24. *If the response to Question VIII.H.6 is "NO," go to Section VIII.I.*	☐YES ☐NO
7.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(i).	☐YES ☐NO
8.	The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(ii).	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 44

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

I. Subpart T - National Emission Standards for Halogenated Solvent Cleaning

1.	The application area includes an individual batch vapor, in-line vapor, in-line cold, and/or batch cold solvent cleaning machine that uses a hazardous air pollutant (HAP) solvent, or any combination of halogenated HAP solvents, in a total concentration greater than 5% by weight, as a cleaning and/or drying agent.	☐YES ☒NO
2.	The application area is located at a major source and includes solvent cleaning machines, qualifying as affected facilities, that use perchloroethylene, trichloroethylene or methylene chloride.	☐YES ☒NO
3.	The application area is located at an area source and includes solvent cleaning machines, other than cold batch cleaning machines, that use perchloroethylene, trichloroethylene or methylene chloride.	☐YES ☒NO

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins

1.	The application area includes elastomer product process units and/or wastewater streams and wastewater operations that are associated with elastomer product process units. *If the response to Question VIII.J.1 is "NO," go to Section VIII.K.*	☐YES ☒NO
2.	Elastomer product process units and/or wastewater streams and wastewater operations located in the application area are subject to 40 CFR Part 63, Subpart U. *If the response to Question VIII.J.2 is "NO," go to Section VIII.K.*	☐YES ☐NO
3.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.482.	☐YES ☐NO
4.	The application area includes process wastewater streams that are Group 2 for organic HAPs as defined in 40 CFR § 63.482.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 45

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)

5.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.J.5 is "YES," go to Question VIII.J.15.*	☐YES ☐NO
6.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.J.6 is "NO," go to Question VIII.J.8.*	☐YES ☐NO
7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES ☐NO
8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES ☐NO
9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. *If the responses to Questions VIII.J.8 - VIII.J.9 are both "NO," go to Question VIII.J.11.*	☐YES ☐NO
10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 46		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
J. Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)		
Containers		
11.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES ☐NO
Drains		
12.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. *If the response to Question VIII.J.12 is "NO," go to Question VIII.J.15.*	☐YES ☐NO
13.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES ☐NO
14.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES ☐NO
15.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an elastomer product process unit. *If the response to Question VIII.J.15 is "NO," go to Section VIII.K.*	☐YES ☐NO
16.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.501(a)(12). *If the response to Question VIII.J.16 is "NO," go to Section VIII.K.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 47		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
J.	**Subpart U - National Emission Standards for Hazardous Air Pollutant Emissions: Group 1 Polymers and Resins (continued)**	
	***Drains* (continued)**	
17.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at any flow rate.	☐YES ☐NO
18.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an annual average flow rate greater than or equal to 10 liters per minute.	☐YES ☐NO
19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an elastomer product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.482, at an average annual flow rate greater than or equal to 0.02 liter per minute.	☐YES ☐NO
K.	**Subpart W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-nylon Polyamides Production**	
1.	The manufacture of basic liquid epoxy resins (BLR) and/or manufacture of wet strength resins (WSR) is conducted in the application area. *If the response to Question VIII.K.1 is "NO" or "N/A," go to Section VIII.L.*	☐YES ☒NO ☐N/A
2.	The application area includes a BLR and/or WSR research and development facility.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 48		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
L.	**Subpart X - National Emission Standards for Hazardous Air Pollutants from Secondary Lead Smelting**	
1.	The application area includes one or more of the affected sources in 40 CFR § 63.541(a) that are located at a secondary lead smelter. *If the response to Question VIII.L.1 is "NO" or "N/A," go to Section VIII.M.*	☐YES ☒NO ☐N/A
2.	The application area is using and approved alternate to the requirements of § 63.545(c)(1)-(5) for control of fugitive dust emission sources.	☐YES ☐NO
M.	**Subpart Y - National Emission Standards for Marine Tank Vessel Loading Operations**	
1.	The application area includes marine tank vessel loading operations that are specified in 40 CFR § 63.560 and located at an affected source as defined in 40 CFR § 63.561.	☐YES ☒NO
N.	**Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries**	
	Applicability	
1.	The application area includes petroleum refining process units and/or related emission points that are specified in 40 CFR § 63.640(c)(1) - (c)(7). *If the response to Question VIII.N.1 is "NO," go to Section VIII.O.*	☐YES ☒NO
2.	All petroleum refining process units/and or related emission points within the application area are specified in 40 CFR § 63.640(g)(1) - (g)(7). *If the response to Question VIII.N.2 is "YES," go to Section VIII.O.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 49		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
N. Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)		
***Applicability* (continued)**		
3.	The application area is located at a plant site that is a major source as defined in the Federal Clean Air Act § 112(a). *If the response to Question VIII.N.3 is "NO," go to Section VIII.O.*	☐YES ☐NO
4.	The application area is located at a plant site which emits or has equipment containing/contacting one or more of the HAPs listed in table 1 of 40 CFR Part 63, Subpart CC. *If the response to Question VIII.N.4 is "NO," go to Section VIII.O.*	☐YES ☐NO
5.	The application area includes Group 1 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	☐YES ☐NO
6.	The application area includes Group 2 wastewater streams that are not conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section.	☐YES ☐NO
7.	The application area includes Group 1 or Group 2 wastewater streams that are conveyed, stored, or treated in a wastewater stream management unit that also receives streams subject to the provisions of 40 CFR §§ 63.133 - 63.147 of Subpart G wastewater provisions section. *If the response to Question VIII.N.7 is "NO," go to Section VIII.O.*	☐YES ☐NO
8.	The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(i).	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 50		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
N.	**Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (continued)**	
	***Applicability* (continued)**	
9.	The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(ii). *If the response to Question VIII.N.9 is "NO," go to Section VIII.O.*	☐YES ☐NO
10.	The application area includes Group 2 wastewater streams or organic streams whose benzene emissions are subject to control through the use of one or more treatment processes or waste management units under the provisions of 40 CFR Part 61, Subpart FF on or after December 31, 1992.	☐YES ☐NO
	Containers, Drains, and other Appurtenances	
11.	The application area includes containers that are subject to the requirements of 40 CFR § 63.135 as a result of complying with 40 CFR § 63.640(o)(2)(ii).	☐YES ☐NO
12.	The application area includes individual drain systems that are subject to the requirements of 40 CFR § 63.136 as a result of complying with 40 CFR § 63.640(o)(2)(ii).	☐YES ☐NO
O.	**Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations**	
1.	The application area receives material that meets the criteria for off-site material as specified in 40 CFR § 63.680(b)(1). *If the response to Question VIII.O.1 is "NO" or "N/A," go to Section VIII.P*	☐YES ☒NO ☐N/A
2.	Materials specified in 40 CFR § 63.680(b)(2) are received at the application area.	☐YES ☐NO
3.	The application area has a waste management operation receiving off-site material and is regulated under 40 CFR Part 264 or Part 265.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 51		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)		
4.	The application area has a waste management operation treating wastewater which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(6) or 265.1(c)(10).	☐YES ☐NO
5.	The application area has an operation subject to Clean Water Act, § 402 or § 307(b) but is not owned by a "state" or "municipality."	☐YES ☐NO
6.	The predominant activity in the application area is the treatment of wastewater received from off-site.	☐YES ☐NO
7.	The application area has a recovery operation that recycles or reprocesses hazardous waste which is an off-site material and is exempted under 40 CFR §§ 264.1(g)(2) or 265.1(c)(6).	☐YES ☐NO
8.	The application area has a recovery operation that recycles or reprocesses used solvent which is an off-site material and is not part of a chemical, petroleum, or other manufacturing process that is required to use air emission controls by another subpart of 40 CFR Part 63 or Part 61.	☐YES ☐NO
9.	The application area has a recovery operation that re-refines or reprocesses used oil which is an off-site material and is regulated under 40 CFR Part 279, Subpart F (Standards for Used Oil Processors and Refiners).	☐YES ☐NO
10.	The application area is located at a site where the total annual quantity of HAPs in the off-site material is less than 1 megagram per year. *If the response to Question VIII.O.10 is "YES," go to Section VIII.P.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 52		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
O. Subpart DD - National Emission Standards for Off-site Waste and Recovery Operations (continued)		
11.	The application area receives offsite materials with average VOHAP concentration less than 500 ppmw at the point of delivery that are not combined with materials having a VOHAP concentration of 500 ppmw or greater. *If the response to Question VIII.O.11 is "NO," go to Question VIII.O.14.*	☐YES ☐NO
12.	VOHAP concentration is determined by direct measurement.	☐YES ☐NO
13.	VOHAP concentration is based on knowledge of the off-site material.	☐YES ☐NO
14.	The application area includes an equipment component that is a pump, compressor, and agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector or instrumentation system. *If the response to Question VIII.O.14 is "NO," go to Question VIII.O.17.*	☐YES ☐NO
15.	An equipment component in the application area contains or contacts off-site material with a HAP concentration greater than or equal to 10% by weight.	☐YES ☐NO
16.	An equipment component in the application area is intended to operate 300 hours or more during a 12-month period.	☐YES ☐NO
17.	The application area includes containers that manage non-exempt off-site material.	☐YES ☐NO
18.	The application area includes individual drain systems that manage non-exempt off-site materials.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 53			
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
	P.	**Subpart GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities**	
	1.	The application area includes facilities that manufacture or rework commercial, civil, or military aerospace vehicles or components. *If the response to Question VIII.P.1 is "NO" or "N/A," go to Section VIII.Q.*	☐YES ☒NO ☐N/A
	2.	The application area includes one or more of the affected sources specified in 40 CFR § 63.741(c)(1) - (7).	☐YES ☐NO
	Q.	**Subpart HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities.**	
♦	1.	The application area contains facilities that process, upgrade or store hydrocarbon liquids that are located at oil and natural gas production facilities prior to the point of custody transfer.	☐YES ☒NO
♦	2.	The application area contains facilities that process, upgrade or store natural gas prior to the point at which natural gas enters the natural gas transmission and storage source category or is delivered to a final end user. *For SOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.R.* *For GOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.Z.*	☐YES ☒NO
♦	3.	The application area contains only facilities that exclusively process, store or transfer black oil as defined in § 63.761. *For SOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.R.* *For GOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.Z.*	☐YES ☐NO
♦	4.	The application area is located at a site that is a major source of HAP. *If the response to Question VIII.Q.4 is "NO," go to Question VIII.Q.6.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 54

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

Q. Subpart - HH - National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities (continued)

♦	5.	The application area contains only a facility, prior to the point of custody transfer, with facility-wide actual annual average natural gas throughput less than 18.4 thousand standard cubic meters (649,789.9 ft^3) per day and a facility-wide actual annual average hydrocarbon liquid throughput less than 39,700 liters (10,487.6 gallons) per day. *For SOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.R.* *For GOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.Z.* *For all applications, if the response to Question VIII.Q.5 is "NO," go to Question VIII.Q.9.*	☐YES ☐NO
♦	6.	The application area includes a triethylene glycol (TEG) dehydration unit. *For SOP applications, f the answer to Question VIII.Q.6 is "NO," go to Section VIII.R. For GOP applications, if the response to Question VIII.Q.6 is "NO," go to Section VIII.Z.*	☐YES ☐NO
♦	7.	The application area is located at a site that is within the boundaries of UA plus offset or a UC, as defined in 40 CFR § 63.761.	☐YES ☐NO
♦	8.	The site has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP.	☐YES ☐NO
♦	9.	Emissions for major source determination are being estimated based on the maximum natural gas or hydrocarbon liquid throughput as calculated in § 63.760(a)(1)(i)-(iii).	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 55

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

R.	**Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating)**		
	1.	The application area includes shipbuilding or ship repair operations. *If the response to Question VIII.R.1 is "NO," go to Section VIII.S.*	☐YES ☒NO
	2.	Shipbuilding or ship repair operations located in the application area are subject to 40 CFR Part 63, Subpart II.	☐YES ☐NO
S.	**Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations**		
	1.	The application area includes wood furniture manufacturing operations and/or wood furniture component manufacturing operations. *If the response to Question VIII.S.1 is "NO" or "N/A," go to Section VIII.T.*	☐YES ☒NO ☐N/A
	2.	The application area meets the definition of an "incidental wood manufacturer" as defined in 40 CFR § 63.801.	☐YES ☐NO
T.	**Subpart KK - National Emission Standards for the Printing and Publishing Industry**		
	1.	The application area includes publication rotogravure, product and packaging rotogravure, or wide-web flexographic printing presses.	☐YES ☒NO ☐N/A
U.	**Subpart PP - National Emission Standards for Containers**		
	1.	The application area includes containers for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart PP for the control of air emissions. *If the response to Question VIII.U.1 is "NO," go to Section VIII.V.*	☐YES ☒NO
	2.	The application area includes containers using Container Level 1 controls.	☐YES ☐NO
	3.	The application area includes containers using Container Level 2 controls.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 56			
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
U.	**Subpart PP - National Emission Standards for Containers (continued)**		
	4.	The application area includes containers using Container Level 3 controls.	☐YES ☐NO
V.	**Subpart RR - National Emission Standards for Individual Drain Systems**		
	1.	The application area includes individual drain systems for which another 40 CFR Part 60, 61, or 63 subpart references the use of 40 CFR Part 63, Subpart RR for the control of air emissions.	☐YES ☒NO
W.	**Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards**		
	1.	The application area includes an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process.	☐YES ☒NO
	2.	The application area includes process wastewater streams generated from an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process. *If the responses to Questions VIII.W.1 and VIII.W.2 are both "NO," go to Question VIII.W.20.*	☐YES ☒NO
	3.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 under the requirements of 40 CFR § 63.132(c).	☐YES ☐NO
	4.	The application area includes process wastewater streams that are determined to be Group 2 under the requirements of 40 CFR § 63.132(c).	☐YES ☐NO
	5.	All Group 1 wastewater streams at the site are determined to have a total source mass flow rate of less than 1 MG/yr.	☐YES ☐NO
	6.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.W.6 is "NO," go to Question VIII.W.8.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 57		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
7.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES ☐NO
8.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES ☐NO
9.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. *If the responses to Questions VIII.W.8 and W.9 are both "NO," go to Question VIII.W.11.*	☐YES ☐NO
10.	The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	☐YES ☐NO
11.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES ☐NO
12.	The application area includes individual drain systems that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. *If the response to Question VIII.W.12 is "NO," go to Question VIII.W.15.*	☐YES ☐NO
13.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of covers and, if vented, closed vent systems and control devices.	☐YES ☐NO
14.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 58		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
15.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an acetal resins production process unit; an acrylic and modacrylic fiber production process unit complying with 40 CFR § 63.1103(b)(3)(i); or an existing polycarbonate production process unit. *If the response to Question VIII.W.15 is "NO," go to Question VIII.W.20.*	☐YES ☐NO
16.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.1106(c)(1) - (3). *If the response to Question VIII.W.16 is "NO," go to Question VIII.W.20.*	☐YES ☐NO
17.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at any flow rate.	☐YES ☐NO
18.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an annual average flow rate greater than or equal to 10 liters per minute.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 59		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an acrylic resins or acrylic and modacrylic fiber production process unit that is part of a new affected source or is a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 ppmw of compounds meeting the definition of organic HAP in Table 9 to 40 CFR Part 60, Subpart G, at an average annual flow rate greater than or equal to 0.02 liter per minute.	☐YES ☐NO
20.	The application area includes an ethylene production process unit.	☐YES ☒NO ☐N/A
21.	The application area includes waste streams generated from an ethylene production process unit. *If the responses to Questions VIII.W.20 and VIII.W.21 are both "NO" or "N/A," go to Question VIII.W.54.*	☐YES ☒NO ☐N/A
22.	The waste stream(s) contains at least one of the chemicals listed in 40 CFR § 63.1103(e), Table 7(g)(1). *If the response to Question VIII.W.22 is "NO," go to Question VIII.W.54.*	☐YES ☐NO
23.	Waste stream(s) are transferred off-site for treatment. *If the response to Question VIII.W.23 is "NO," go to Question VIII.W.25.*	☐YES ☐NO
24.	The application area has waste management units that treat or manage waste stream(s) prior to transfer off-site for treatment. *If the response to Question VIII.W.24 is "NO," go to Question VIII.W.54.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 60		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
25.	The total annual benzene quantity from waste at the site is less than 10 Mg/yr as determined according to 40 CFR § 61.342(a).	☐YES ☐NO
26.	The application area contains at least one waste stream that is a continuous butadiene waste stream as defined in 40 CFR § 63.1082(b). *If the response to Question VIII.W.26 is "NO," go to Question VIII.W.43.*	☐YES ☐NO
27.	The waste stream(s) contains at least 10 ppmw 1, 3-butadiene at a flow rate of 0.02 liters per minute or is designated for control. *If the response to Question VIII.W.27 is "NO," go to Question VIII.W.43.*	☐YES ☐NO
28.	The control requirements of 40 CFR Part 63, Subpart G for process wastewater as specified in 40 CFR § 63.1095(a)(2) are selected for control of the waste stream(s). *If the response to Question VIII.W.28 is "NO," go to Question VIII.W.33.*	☐YES ☐NO
29.	The application area includes containers that receive, manage, or treat a continuous butadiene waste stream.	☐YES ☐NO
30.	The application area includes individual drain systems that receive, manage, or treat a continuous butadiene waste stream. *If the response to Question VIII.W.30 is "NO," go to Question VIII.W.43.*	☐YES ☐NO
31.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 61	
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)	
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)	
32. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs. *If the response to Question VIII.W.32 is required, go to Question VIII.W.43.*	☐YES ☐NO
33. The application area has containers, as defined in 40 CFR § 61.341, that receive a continuous butadiene waste stream. *If the response to Question VIII.W.33 is "NO," go to Question VIII.W.36.*	☐YES ☐NO
34. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. *If the response to Question VIII.W.34 is "YES," go to Question VIII.W.36.*	☐YES ☐NO
35. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO
36. The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a continuous butadiene waste stream. *If the response to Question VIII.W.36 is "NO," go to Question VIII.W.43.*	☐YES ☐NO
37. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. *If the response to Question VIII.W.37 is "YES," go to Question VIII.W.43.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 62		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
38.	The application area has individual drain systems complying with 40 CFR § 61.346(a). *If the response to Question VIII.W.38 is "NO," go to Question VIII.W.40.*	☐YES ☐NO
39.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO
40.	The application area has individual drain systems complying with 40 CFR § 61.346(b). *If the response to Question VIII.W.40 is "NO," go to Question VIII.W.43.*	☐YES ☐NO
41.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	☐YES ☐NO
42.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	☐YES ☐NO
43.	The application area has at least one waste stream that contains benzene. *If the response to Question VIII.W.43 is "NO," go to Question VIII.W.54.*	☐YES ☐NO
44.	The application area has containers, as defined in 40 CFR § 61.341, that receive a waste stream containing benzene. *If the response to Question VIII.W.44 is "NO," go to Question VIII.W.47.*	☐YES ☐NO
45.	The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. *If the response to Question VIII.W.45 is "YES," go to Question VIII.W.47.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 63		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W. Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)		
46.	Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO
47.	The application area has individual drain systems, as defined in 40 CFR § 61.341, that receive or manage a waste stream containing benzene. *If the response to Question VIII.W.47 is "NO," go to Question VIII.W.54.*	☐YES ☐NO
48.	The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. *If the response to Question VIII.W.48 is "YES," go to Question VIII.W.54.*	☐YES ☐NO
49.	The application area has individual drain systems complying with 40 CFR § 61.346(a). *If the response to Question VIII.W.49 is "NO," go to Question VIII.W.51.*	☐YES ☐NO
50.	Covers and closed-vent systems used for individual drain systems operate such that the individual drain system is maintained at a pressure less than atmospheric pressure.	☐YES ☐NO
51.	The application area has individual drain systems complying with 40 CFR § 61.346(b). *If the response to Question VIII.W.51 is "NO," go to Question VIII.W.54.*	☐YES ☐NO
52.	Junction boxes in the individual drain systems are equipped with a system to prevent the flow of organic vapors from the junction box vent pipe to the atmosphere during normal operation.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 64		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
W.	**Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories - Generic Maximum Achievable Control Technology Standards (continued)**	
53.	Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	☐YES ☐NO
54.	The application area contains a cyanide chemicals manufacturing process. *If the response to Question VIII.W.54 is "NO," go to Section VIII.X.*	☐YES ☒NO
55.	The cyanide chemicals manufacturing process generates maintenance wastewater containing hydrogen cyanide or acetonitrile.	☐YES ☐NO
X.	**Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins**	
1.	The application area includes thermoplastic product process units, and/or their associated affected sources specified in 40 CFR § 63.1310(a)(1) - (5), that are subject to 40 CFR Part 63, Subpart JJJ. *If the response to Question VIII.X.1 is "NO," go to Section VIII.Y.*	☐YES ☒NO
2.	The application area includes thermoplastic product process units and/or wastewater streams and wastewater operations that are associated with thermoplastic product process units. *If the response to Question VIII.X.2 is "NO," go to Section VIII.Y.*	☐YES ☐NO
3.	All process wastewater streams generated or managed in the application area are from sources producing polystyrene. *If the response to Question VIII.X.3 is "YES," go to Section VIII.Y.*	☐YES ☐NO
4.	All process wastewater streams generated or managed in the application area are from sources producing ASA/AMSAN. *If the response to Question VIII.X.4 is "YES," go to Section VIII.Y.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 65		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)		
5.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for organic HAPs as defined in 40 CFR § 63.1312.	☐YES ☐NO
6.	The application area includes process wastewater streams, located at existing sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	☐YES ☐NO
7.	The application area includes process wastewater streams, located at new sources, that are Group 2 for organic HAPs as defined in 40 CFR § 63.1312.	☐YES ☐NO
8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.X.8 is "YES," go to Question VIII.X.18.*	☐YES ☐NO
9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.X.9 is "NO," go to Question VIII.X.11.*	☐YES ☐NO
10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES ☐NO
11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES ☐NO
12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. *If the responses to Questions VIII.X.11 - VIII.X.12 are both "NO," go to Question VIII.X.14.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 66		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)		
	13. The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	☐YES ☐NO
	Containers	
	14. The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES ☐NO
	Drains	
	15. The application area includes individual drain systems that receive or manage a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream. *If the response to Question VIII.X.15 is "NO," go to Question VIII.X.18.*	☐YES ☐NO
	16. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES ☐NO
	17. The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES ☐NO
	18. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an thermoplastic product process unit. *If the response to Question VIII.X.18 is "NO," go to Section VIII.Y.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 67		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
X. Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions: Group IV Polymers and Resins (continued)		
***Drains* (continued)**		
19.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that meet the criteria listed in 40 CFR § 63.149(d) and § 63.1330(b)(12). *If the response to Question VIII.X.19 is "NO," go to Section VIII.Y.*	☐YES ☐NO
20.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration greater than or equal to 10,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at any flow rate.	☐YES ☐NO
21.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration greater than or equal to 1,000 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an annual average flow rate greater than or equal to 10 liters per minute.	☐YES ☐NO
22.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of an thermoplastic product process unit that is a new affected source or part of a new affected source and the equipment conveys water with a total annual average concentration greater than or equal to 10 parts per million by weight of compounds meeting the definition of organic HAP in 40 CFR § 63.1312, at an average annual flow rate greater than or equal to 0.02 liter per minute	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 68			
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)			
	Y.	**Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.**	
	1.	The application area is subject to 40 CFR Part 63, Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic reforming Units, and Sulfur Recovery Units.	☐YES ☒NO
	Z.	**Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste (MSW) Landfills.**	
♦	1.	The application area is subject to 40 CFR Part 63, Subpart AAAA - National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills.	☐YES ☒NO
	AA.	**Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON)**	
	1.	The application area is located at a site that includes process units that manufacture as a primary product one or more of the chemicals listed in 40 CFR § 63.2435(b)(1).	☐YES ☒NO
	2.	The application area is located at a plant site that is a major source as defined in FCAA § 112(a).	☒YES ☐NO
	3.	The application area is located at a site that includes miscellaneous chemical manufacturing process units (MCPU) that process, use or generate one or more of the organic hazardous air pollutants listed in § 112(b) of the Clean Air Act or hydrogen halide and halogen HAP. *If the response to Question VIII.AA.1, AA.2 or AA.3 is "NO," go to Section VIII.BB.*	☐YES ☒NO
	4.	The application area includes process vents, storage vessels, transfer racks, or waste streams associated with a miscellaneous chemical manufacturing process subject to 40 CFR 63, Subpart FFFF. *If the response to Question VIII.AA.4 is "NO," go to Section VIII.BB.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 69		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)		
5.	The application area includes process wastewater streams. *If the response to Question VIII.AA.5 is "NO," go to Question VIII.AA.18.*	☐YES ☐NO
6.	The application area includes process wastewater streams that are designated as Group 1 or are determined to be Group 1 for compounds listed in Table 8 of 40 CFR Part 63, Subpart G or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	☐YES ☐NO
7.	The application area includes process wastewater streams that are Group 2 for compounds listed in Table 8 or Table 8 and Table 9, as appropriate, of 40 CFR Part 63, Subpart FFFF.	☐YES ☐NO
8.	All Group 1 wastewater streams at the site are demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.AA.8 is "YES," go to Section VIII.AA.22.*	☐YES ☐NO
9.	The site has untreated and/or partially treated Group 1 wastewater streams demonstrated to have a total source mass flow rate of less than 1 MG/yr. *If the response to Question VIII.AA.9 is "NO," go to Question VIII.AA.11.*	☐YES ☐NO
10.	The application area includes waste management units that receive or manage a partially treated Group 1 wastewater stream prior to or during treatment.	☐YES ☐NO
11.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an on-site treatment operation that is not owned or operated by the owner or operator of the source generating the waste stream or residual.	☐YES ☐NO
12.	Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. *If the responses to Questions VIII.AA.11 and VIII.AA.12 are both "NO," go to Question VIII.AA.18.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 70		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)		
13.	Group 1 wastewater streams are transferred to an offsite treatment facility meeting the requirements of 40 CFR § 63.138(h). *If the response to Question VIII.AA.13 is "NO," go to Question VIII.AA.15.*	☐YES ☐NO
14.	The option to document in the notification of compliance status report that the wastewater will be treated in a facility meeting the requirements of 40 CFR § 63.138(h) is elected.	☐YES ☐NO
15.	Group 1 wastewater streams or residuals with a total annual average concentration of compounds in Table 8 of 40 CFR Part 63, Subpart FFFF less than 50 ppmw are transferred offsite. *If the response to Question VIII.AA.15 is "NO," go to Question VIII.AA.17.*	☐YES ☐NO
16.	The transferor is demonstrating that less than 5 percent of the HAP in Table 9 of 40 CFR Part 63, Subpart FFFF is emitted from waste management units up to the activated sludge unit.	☐YES ☐NO
17.	The application area includes waste management units that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream prior to shipment or transport.	☐YES ☐NO
18.	The application area includes containers that receive, manage, or treat a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream.	☐YES ☐NO
19.	The application area includes individual drain systems that receive or manage a Group 1 wastewater stream, or a residual removed from a Group 1 wastewater stream. *If the response to Question VIII.AA.19 is "NO," go to Question VIII.AA.22.*	☐YES ☐NO
20.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of cover and, if vented, closed vent systems and control devices.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 71		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)		
21.	The application area includes individual drain systems that are complying with 40 CFR § 63.136 through the use of water seals or tightly fitting caps or plugs.	☐YES ☐NO
22.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of a chemical manufacturing process unit that meets the criteria of 40 CFR § 63.100(b). *If the response to Question VIII.AA.22 is "NO," go to Section VIII.BB.*	☐YES ☐NO
23.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes (that are part of a miscellaneous chemical manufacturing process unit) that meet the criteria listed in 40 CFR § 63.149(d). *If the response to Question VIII.AA.23 is "NO," go to Section VIII.BB.*	☐YES ☐NO
24.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 10,000 ppmw at any flow rate, and the total annual load of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 200 lb/yr.	☐YES ☐NO
25.	The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that convey water with a total annual average concentration of compounds in table 8 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flow rate is greater than or equal to 1 liter per minute.	☐YES ☐NO
26.	The application area includes drains, drain hubs, manholes, lift stations, trenches or pipes that are part of a chemical manufacturing process unit that is subject to the new source requirements of 40 CFR § 63.2445(a); and the equipment conveys water with a combined total annual average concentration of compounds in tables 8 and 9 of 40 CFR Part 63, Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 72		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
AA. Subpart FFFF - National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Production and Processes (MON) (continued)		
BB. Subpart GGGG - National Emission Standards for Hazardous Air Pollutants for: Solvent Extractions for Vegetable Oil Production.		
1.	The application area includes a vegetable oil production process that: is by itself a major source of HAP emissions or, is collocated within a plant site with other sources that are individually or collectively a major source of HAP emissions.	☐YES ☒NO
CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation		
1.	The application area includes a facility at which a site remediation is conducted. *If the answer to Question VIII.CC.1 is "NO," go to Section VIII.DD.*	☐YES ☒NO
2.	The application area is located at a site that is a major source of HAP. *If the answer to Question VIII.CC.2 is "NO," go to Section VIII.DD.*	☐YES ☐NO
3.	All site remediation's qualify for one of the exemptions contained in 40 CFR § 63.7881(b)(1) through (6). *If the answer to Question VIII.CC.3 is "YES," go to Section VIII.DD.*	☐YES ☐NO
4.	Prior to beginning site remediation activities it was determined that the total quantity of HAP listed in Table 1 of Subpart GGGGG that will be removed during all site remediations will be less than 1 Mg/yr. *If the answer to Question VIII.CC.4 is "YES," go to Section VIII.DD.*	☐YES ☐NO
5.	The site remediation will be completed within 30 consecutive calendar days.	☐YES ☐NO
6.	No site remediation will exceed 30 consecutive calendar days. *If the answer to Question VIII.CC.6 is "YES," go to Section VIII.DD.*	☐YES ☐NO
7.	Site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility.	☐YES ☐NO
8.	All site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility. *If the answer to Question VIII.CC.8 is "YES," go to Section VIII.DD.*	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 73		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
CC. Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation (continued)		
9.	The application area includes containers that manage site remediation materials subject to 40 CFR Part 63, Subpart GGGGG. *If the response to Question VIII.CC.9 is "NO," go to Question VIII.CC.14.*	☐YES ☐NO
10.	The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b).	☐YES ☐NO
11.	The application area includes containers with a capacity greater than 0.46 m^3 that meet the requirements of 40 CFR § 63.7900(b)(3)(i) and (ii).	☐YES ☐NO
12.	The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b).	☐YES ☐NO
13.	The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b).	☐YES ☐NO
14.	The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962.	☐YES ☐NO
DD. Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area/Sources: Electric Arc Furnace Steelmaking Facilities		
1.	The application area includes an electric arc furnace (EAF) steelmaking facility, and the site is an area source of hazardous air pollutant (HAP) emissions. *If the response to Question VIII.DD.1 is "NO," go to Section VIII.EE.*	☐YES ☒NO
2.	The EAF steelmaking facility is a research and development facility. *If the response to Question VIII.DD.2 is "YES," go to Section VIII.EE.*	☐YES ☐NO
3.	Metallic scrap is utilized in the EAF.	☐YES ☐NO
4.	Scrap containing motor vehicle scrap is utilized in the EAF.	☐YES ☐NO
5.	Scrap not containing motor vehicle scrap is utilized in the EAF.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 74		
VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)		
EE. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities		
1.	The application area is located at a site that is an area source of HAPs. *If the answer to Question EE.1 is "NO," go to Section VIII.FF.*	☐YES ☒NO
2.	The application area includes a pipeline breakout station, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R.	☐YES ☐NO
3.	The application area includes a pipeline pumping station as defined in 40 CFR Part 63, Subpart BBBBBB.	☐YES ☐NO
4.	The application area includes a bulk gasoline plant as defined in 40 CFR Part 63, Subpart BBBBBB. *If the answer to Question VIII.EE.4 is "NO," go to Question VIII.EE.6.*	☐YES ☐NO
5.	The bulk gasoline plant was operating, prior to January 10, 2010, in compliance with an enforceable State, local or tribal rule or permit that requires submerged fill as specified in 40 CFR § 63.11086(a).	☐YES ☐NO
6.	The application area includes a bulk gasoline terminal, as defined in 40 CFR Part 63, Subpart BBBBBB, not subject to the control requirements of 40 CFR Part 63, Subpart R or Subpart CC. *If the answer to Question VIII.EE.6 is "NO," go to Section VIII.FF.*	☐YES ☐NO
7.	The bulk gasoline terminal has throughput of less than 250,000 gallons per day. *If the answer to Question VIII.EE.7 is "YES," go to Section VIII.FF.*	☐YES ☐NO
8.	The bulk gasoline terminal loads gasoline into gasoline cargo tanks other than railcar cargo tanks.	☐YES ☐NO
9.	The bulk gasoline terminal loads gasoline into railcar cargo tanks. *If the answer to Question VIII.EE.9 is "NO," go to Section VIII.FF.*	☐YES ☐NO
10.	The bulk gasoline terminal loads gasoline into railcar cargo tanks which do not collect vapors from a vapor balance system.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 75

VIII. Title 40 Code of Federal Regulations Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories (continued)

EE. Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants and Pipeline Facilities (continued)

	11.	The bulk gasoline terminal loads gasoline into railcar cargo tanks which collect vapors from a vapor balance system and that system complies with a Federal, State, local, tribal rule or permit.	☐YES ☐NO

FF. Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

♦	1.	The application area is located at a site that is an area source of hazardous air pollutants. *If the answer to Question VIII.FF.1 is "NO," go to Section VIII.GG.*	☐YES ☒NO
♦	2.	The application area includes at least one gasoline dispensing facility as defined in 40 CFR § 63.11132. *If the answer to Question VIII.FF.2 is "NO," go to Section VIII.GG.*	☐YES ☐NO
♦	3.	The application area includes at least one gasoline dispensing facility with a monthly throughput of less than 10,000 gallons.	☐YES ☐NO
♦	4.	The application area includes at least one gasoline dispensing facility where gasoline is dispensed from a fixed gasoline storage tank into a portable gasoline tank for the on-site delivery and subsequent dispensing into other gasoline-fueled equipment.	☐YES ☐NO

GG. Recently Promulgated 40 CFR Part 63 Subparts

♦	1.	The application area is subject to one or more promulgated 40 CFR Part 63 subparts not addressed on this form. *If the response to Question VIII.GG.1 is "NO," go to Section IX. A list of promulgated 40 CFR Part 63 subparts not otherwise addressed on OP-REQ1 is included in the instructions.*	☒YES ☐NO
♦	2.	Provide the Subpart designation (i.e. Subpart EEE) in the space provided below. **Subpart NNN, Subpart JJJJ**	

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 76			
IX.	**Title 40 Code of Federal Regulations Part 68 (40 CFR Part 68) - Chemical Accident Prevention Provisions**		
	A.	**Applicability**	
♦	1.	The application area contains processes subject to 40 CFR Part 68, Chemical Accident Prevention Provisions, and specified in 40 CFR § 68.10.	☐YES ☒NO
X.	**Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone**		
	A.	**Subpart A - Production and Consumption Controls**	
♦	1.	The application area is located at a site that produces, transforms, destroys, imports, or exports a controlled substance or product.	☐YES ☒NO ☐N/A
	B.	**Subpart B - Servicing of Motor Vehicle Air Conditioners**	
♦	1.	Servicing, maintenance, and/or repair of fleet vehicle air conditioning systems using ozone-depleting refrigerants is conducted in the application area.	☐YES ☒NO
	C.	**Subpart C - Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances**	
♦	1.	The application area sells or distributes one or more nonessential products (which release a Class I or Class II substance) that are subject to 40 CFR Part 82, Subpart C.	☐YES ☒NO ☐N/A
	D.	**Subpart D - Federal Procurement**	
♦	1.	The application area is owned/operated by a department, agency, or instrumentality of the United States.	☐YES ☒NO ☐N/A
	E.	**Subpart E - The Labeling of Products Using Ozone Depleting Substances**	
♦	1.	The application area includes containers in which a Class I or Class II substance is stored or transported prior to the sale of the Class I or Class II substance to the ultimate consumer.	☐YES ☒NO ☐N/A
♦	2.	The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products containing a Class I or Class II substance.	☐YES ☒NO ☐N/A
♦	3.	The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products manufactured with a process that uses a Class I or Class II substance.	☐YES ☒NO ☐N/A

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 77				
X.	**Title 40 Code of Federal Regulations Part 82 (40 CFR Part 82) - Protection of Stratospheric Ozone (continued)**			
	F.	**Subpart F - Recycling and Emissions Reduction**		
♦	1.	Servicing, maintenance, and/or repair on refrigeration and non-motor vehicle air condition appliances using ozone-depleting refrigerants or non-exempt substitutes is conducted in the application area.	☒YES ☐NO	
♦	2.	Disposal of appliances (including motor vehicle air conditioners) or refrigerant or non-exempt substitute reclamation occurs in the application area.	☐YES ☒NO ☐N/A	
♦	3.	The application area manufactures appliances or refrigerant recycling and recovery equipment.	☐YES ☒NO ☐N/A	
	G.	**Subpart G - Significant New Alternatives Policy Program**		
♦	1.	The application area manufactures, formulates, or creates chemicals, product substitutes, or alternative manufacturing processes that are intended for use as a replacement for a Class I or Class II compound. *If the response to Question X.G.1 is "NO" or "N/A," go to Section X.H.*	☐YES ☒NO ☐N/A	
♦	2.	All substitutes produced by the application area meet one or more of the exemptions in 40 CFR § 82.176(b)(1) - (7).	☐YES ☐NO ☐N/A	
	H.	**Subpart H -Halon Emissions Reduction**		
♦	1.	Testing, servicing, maintaining, repairing, or disposing of equipment containing halons is conducted in the application area.	☐YES ☒NO ☐N/A	
♦	2.	Disposal of halons or manufacturing of halon blends is conducted in the application area.	☐YES ☒NO ☐N/A	
XI.	**Miscellaneous**			
	A.	**Requirements Reference Tables (RRT) and Flowcharts**		
	1.	The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed an RRT and flowchart.	☒YES ☐NO	

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 78

XI. Miscellaneous (continued)

B. Forms

♦	1.	The application area contains units that are potentially subject to a regulation for which the TCEQ has not developed a unit attribute form. *If the response to Question XI.B.1 is "NO" or "N/A," go to Section XI.C.*	☒YES ☐NO ☐N/A
♦	2.	Provide the Part and Subpart designation for the federal rule(s) or the Chapter, Subchapter, and Division designation for the State regulation(s) in the space provided below. **MACT Subpart NNN, MACT Subpart JJJJ**	

C. Emission Limitation Certifications

♦	1.	The application area includes units for which federally enforceable emission limitations have been established by certification.	☒YES ☐NO

D. Alternative Means of Control, Alternative Emission Limitation or Standard, or Equivalent Requirements

	1.	The application area is located at a site that is subject to a site-specific requirement of the state implementation plan (SIP).	☐YES ☒NO
	2.	The application area includes units located at the site that are subject to a site-specific requirement of the SIP.	☐YES ☒NO
	3.	The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the EPA Administrator. *If the response to Question XI.D.3 is "YES," please include a copy of the approval document with the application.*	☐YES ☒NO
	4.	The application area includes units which demonstrate compliance by using an alternative means of control, alternative emission limitation or standard or equivalent requirements approved by the TCEQ Executive Director. *If the response to Question XI.D.4 is "YES," please include a copy of the approval document with the application.*	☐YES ☒NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 79			
XI.	**Miscellaneous (continued)**		
	E.	**Title IV - Acid Rain Program**	
	1.	The application area includes emission units subject to the Acid Rain Program (ARP), including the Opt-In Program.	☐YES ☒NO
	2.	The application area includes emission units qualifying for the new unit exemption under 40 CFR § 72.7.	☐YES ☒NO
	3.	The application area includes emission units qualifying for the retired unit exemption under 40 CFR § 72.8.	☐YES ☒NO
	F.	**40 CFR Part 97, Subpart EEEEE - Cross-State Air Pollution Rule (CSAPR) NO_X Ozone Season Group 2 Trading Program**	
	1.	The application area includes emission units subject to the requirements of the CSAPR NO_X Ozone Season Group 2 Trading Program. *If the response to Question XI.F.1 is "NO," go to Question XI.F.7.*	☐YES ☒NO
	2.	The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO_X and heat input.	☐YES ☐NO
	3.	The application area includes gas or oil-fired units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart H for NO_X, and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.	☐YES ☐NO
	4.	The application area includes gas or oil-fired peaking units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix E for NO_X, and the monitoring requirements of 40 CFR Part 75, Appendix D for heat input.	☐YES ☐NO
	5.	The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for NO_X and heat input.	☐YES ☐NO
	6.	The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for NO_X and heat input.	☐YES ☐NO
	7.	The application area includes emission units that qualify for the CSAPR NO_X Ozone Season Group 2 retired unit exemption.	☐YES ☒NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 80			
XI.	**Miscellaneous (continued)**		
	G.	**40 CFR Part 97, Subpart FFFFF - Texas SO_2 Trading Program**	
	1.	The application area includes emission units complying with the requirements of the Texas SO_2 Trading Program. *If the response to Question XI.G.1 is "NO," go to Question XI.G.6.*	☐YES ☒NO
	2.	The application area includes units that are complying with the CEMS requirements of 40 CFR Part 75, Subpart B for SO_2 and 40 CFR Part 75, Subpart H for heat input.	☐YES ☐NO
	3.	The application area includes gas or oil-fired units that are complying with the monitoring requirements of 40 CFR Part 75, Appendix D for SO_2 and heat input.	☐YES ☐NO
	4.	The application area includes gas or oil-fired units that are complying with the Low Mass Emissions monitoring requirements of 40 CFR § 75.19 for SO_2 and heat input.	☐YES ☐NO
	5.	The application area includes units that are complying with EPA-approved alternative monitoring system requirements of 40 CFR Part 75, Subpart E for SO_2 and heat input.	☐YES ☐NO
	6.	The application area includes emission units that qualify for the Texas SO_2 Trading Program retired unit exemption.	☐YES ☒NO
	H.	**Permit Shield (SOP Applicants Only)**	
	1.	A permit shield for negative applicability entries on Form OP-REQ2 (Negative Applicable Requirement Determinations) is being requested or already exists in the permit.	☒YES ☐NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 81			
XI.	**Miscellaneous (continued)**		
	I.	**GOP Type (Complete this section for GOP applications only)**	
♦	1.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 511 - Oil and Gas General Operating Permit for Brazoria, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Montgomery, Orange, Parker, Rockwall, Tarrant, Waller, and Wise Counties.	☐YES ☐NO
♦	2.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 512 - Oil and Gas General Operating Permit for Gregg, Nueces, and Victoria Counties.	☐YES ☐NO
♦	3.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 513 - Oil and Gas General Operating Permit for Aransas, Bexar, Calhoun, Matagorda, San Patricio, and Travis Counties.	☐YES ☐NO
♦	4.	The application area is applying for initial issuance, revision, or renewal of an oil and gas general operating permit under GOP No. 514 - Oil and Gas General Operating Permit for All Texas Counties Except Aransas, Bexar, Brazoria, Calhoun, Chambers, Collin, Dallas, Denton, El Paso, Ellis, Fort Bend, Galveston, Gregg, Hardin, Harris, Jefferson, Johnson, Kaufman, Liberty, Matagorda, Montgomery, Nueces, Orange, Parker, Rockwall, San Patricio, Tarrant, Travis, Victoria, Waller, and Wise County.	☐YES ☐NO
♦	5.	The application area is applying for initial issuance, revision, or renewal of a solid waste landfill general operating permit under GOP No. 517 - Municipal Solid Waste Landfill general operating permit.	☐YES ☐NO
	J.	**Title 30 TAC Chapter 101, Subchapter H**	
♦	1.	The application area is located in a nonattainment area. *If the response to Question XI.J.1 is "NO," go to question XI.J.3.*	☒YES ☐NO
♦	2.	The applicant has or will generate emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	☒YES ☐NO ☐N/A
♦	3.	The applicant has or will generate discrete emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	☒YES ☐NO ☐N/A

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 82			
XI.	**Miscellaneous (continued)**		
	J.	**Title 30 TAC Chapter 101, Subchapter H (continued)**	
♦	4.	The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area where the facilities have a collective uncontrolled design capacity to emit 10 tpy or more of NO_X.	☐YES ☒NO
♦	5.	The application area includes an electric generating facility permitted under 30 TAC Chapter 116, Subchapter I.	☐YES ☒NO
♦	6.	The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area and the site has a potential to emit more than 10 tpy of highly-reactive volatile organic compounds (HRVOC) from facilities covered under 30 TAC Chapter 115, Subchapter H, Divisions 1 and 2.	☐YES ☒NO
♦	7.	The application area is located at a site in the Houston/Galveston/Brazoria nonattainment area, the site has a potential to emit 10 tpy or less of HRVOC from covered facilities and the applicant is opting to comply with the requirements of 30 TAC Chapter 101, Subchapter H, Division 6, Highly Reactive VOC Emissions Cap and Trade Program.	☐YES ☒NO
	K.	**Periodic Monitoring**	
♦	1.	The applicant or permit holder is submitting at least one periodic monitoring proposal described on Form OP-MON in this application.	☐YES ☒NO
♦	2.	The permit currently contains at least one periodic monitoring requirement. *If the responses to Questions XI.K.1 and XI.K.2 are both "NO," go to Section XI.L.*	☒YES ☐NO
♦	3.	All periodic monitoring requirements are being removed from the permit with this application.	☐YES ☒NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 83			
XI.	**Miscellaneous (continued)**		
	L.	**Compliance Assurance Monitoring**	
♦	1.	The application area includes at least one unit that does not meet the CAM exemptions in 40 CFR § 64.2(b) for all applicable requirements that it is subject to, and the unit has a pre-control device potential to emit greater than or equal to the amount in tons per year required in a site classified as a major source. *If the response to Question XI.L.1 is "NO," go to Section XI.M.*	☒YES ☐NO
♦	2.	The unit or units defined by XI.L.1 are using a control device to comply with an applicable requirement. *If the response to Question XI.L.2 is "NO," go to Section XI.M.*	☒YES ☐NO
♦	3.	The permit holder has submitted a CAM proposal on Form OP-MON in a previous application.	☒YES ☐NO
♦	4.	The owner/operator or permit holder is submitting a CAM proposal on Form OP-MON according to the deadlines for submittals in 40 CFR § 64.5 in this application. *If the responses to Questions XI.L.3 and XI.L.4 are both "NO," go to Section XI.M.*	☐YES ☒NO
	5.	The owner/operator or permit holder is submitting a CAM implementation plan and schedule to be incorporated as enforceable conditions in the permit.	☐YES ☒NO
	6.	Provide the unit identification numbers for the units for which the applicant is submitting a CAM implementation plan and schedule in the space below.	
♦	7.	At least one unit defined by XI.L.1 and XI.L.2 is using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2).	☐YES ☒NO
♦	8.	All units defined by XI.L.1 and XI.L.2 are using a CEMS, COMS or PEMS meeting the requirements of 40 CFR § 64.3(d)(2). *If the response to Question XI.L.8 is "YES," go to Section XI.M.*	☐YES ☒NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 84				
XI.	**Miscellaneous (continued)**			
	L.	**Compliance Assurance Monitoring (continued)**		
♦	9.	At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses particulate matter, and the emission unit has a capture system as defined in 40 CFR §64.1.	☒YES ☐NO	
♦	10.	At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses VOC, and the emission unit has a capture system as defined in 40 CFR §64.1.	☐YES ☒NO	
♦	11.	At least one of the CAM proposals as described by question XI.L.3 or XI.L.4 addresses a regulated pollutant other than particulate matter or VOC, and the emission unit has a capture system as defined in 40 CFR §64.1.	☐YES ☒NO	
♦	12.	The control device in the CAM proposal as described by question XI.L.3 or XI.L.4 has a bypass.	☐YES ☒NO	
	M.	**Title 30 TAC Chapter 113, Subchapter D, Division 5 - Emission Guidelines and Compliance Times**		
♦	1.	The application area includes at least one air curtain incinerator that commenced construction on or before December 9, 2004. *If the response to Question XI.M.1 is "NO," or "N/A," go to Section XII.*	☐YES ☒NO ☐N/A	
♦	2.	All air curtain incinerators constructed on or before December 9, 2004 combust only wood waste, clean lumber, or yard waste or a mixture of these materials.	☐YES ☐NO	
XII.	**New Source Review (NSR) Authorizations**			
	A.	**Waste Permits with Air Addendum**		
♦	1.	The application area includes a Municipal Solid Waste Permit or an Industrial Hazardous Waste with an Air Addendum. *If the response to XII.A.1 is "YES," include the waste permit numbers and issuance date in Section XII.J.*	☐YES ☒NO	

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 85			
XII. New Source Review (NSR) Authorizations (continued)			
	B.	**Air Quality Standard Permits**	
♦	1.	The application area includes at least one Air Quality Standard Permit NSR authorization. *If the response to XII.B.1 is "NO," go to Section XII.C. If the response to XII.B.1 is "YES," be sure to include the standard permit's registration numbers in Section XII.H and answer XII.B.2 - B.16 as appropriate.*	☐YES ☒NO
♦	2.	The application area includes at least one "State Pollution Control Project" Air Quality Standard Permit NSR authorization under 30 TAC § 116.617.	☐YES ☐NO
♦	3.	The application area includes at least one non-rule Air Quality Standard Permit for Pollution Control Projects NSR authorization.	☐YES ☐NO
♦	4.	The application area includes at least one "Installation and/or Modification of Oil and Gas Facilities" Air Quality Standard Permit NSR authorization under 30 TAC § 116.620.	☐YES ☐NO
♦	5.	The application area includes at least one non-rule Air Quality Standard Permit for Oil and Gas Handling and Production Facilities NSR authorization.	☐YES ☐NO
♦	6.	The application area includes at least one "Municipal Solid Waste Landfill" Air Quality Standard Permit NSR authorization under 30 TAC § 116.621.	☐YES ☐NO
♦	7.	The application area includes at least one "Municipal Solid Waste Landfill Facilities and Transfer Stations" Standard Permit authorization under 30 TAC Chapter 330, Subchapter U.	☐YES ☐NO
	8.	The application area includes at least one "Concrete Batch Plant" Air Quality Standard Permit NSR authorization.	☐YES ☐NO
♦	9.	The application area includes at least one "Concrete Batch Plant with Enhanced Controls" Air Quality Standard Permit NSR authorization.	☐YES ☐NO
♦	10.	The application area includes at least one "Hot Mix Asphalt Plant" Air Quality Standard Permit NSR authorization.	☐YES ☐NO

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 86			
XII. New Source Review (NSR) Authorizations (continued)			
	B.	**Air Quality Standard Permits (continued)**	
♦	11.	The application area includes at least one "Rock Crusher" Air Quality Standard Permit NSR authorization.	☐YES ☐NO
♦	12.	The application area includes at least one "Electric Generating Unit" Air Quality Standard Permit NSR authorization. *If the response to XII.B.12 is "NO," go to Question XII.B.15.*	☐YES ☐NO
♦	13.	For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the East Texas Region.	☐YES ☐NO
♦	14.	For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the West Texas Region.	☐YES ☐NO
♦	15.	The application area includes at least one "Boiler" Air Quality Standard Permit NSR authorization.	☐YES ☐NO
♦	16.	The application area includes at least one "Sawmill" Air Quality Standard Permit NSR authorization.	☐YES ☐NO
	C.	**Flexible Permits**	
	1.	The application area includes at least one Flexible Permit NSR authorization.	☐YES ☒NO
	D.	**Multiple Plant Permits**	
	1.	The application area includes at least one Multi-Plant Permit NSR authorization.	☐YES ☒NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 87

XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)

E. PSD Permits and PSD Major Pollutants

PSD Permit No.:	Issuance Date:	Pollutant(s):
PSD Permit No.:	Issuance Date:	Pollutant(s):
PSD Permit No.:	Issuance Date:	Pollutant(s):
PSD Permit No.:	Issuance Date:	Pollutant(s):

If PSD Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.

F. Nonattainment (NA) Permits and NA Major Pollutants

NA Permit No.:	Issuance Date:	Pollutant(s):
NA Permit No.:	Issuance Date:	Pollutant(s):
NA Permit No.:	Issuance Date:	Pollutant(s):
NA Permit No.:	Issuance Date:	Pollutant(s):

If NA Permits are held for the application area, please complete the Major NSR Summary Table located under the Technical Forms heading at: www.tceq.texas.gov/permitting/air/titlev/site/site_experts.html.

G. NSR Authorizations with FCAA § 112(g) Requirements

NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:
NSR Permit No.:	Issuance Date:	NSR Permit No.:	Issuance Date:

♦ **H. Title 30 TAC Chapter 116 Permits, Special Permits, Standard Permits, Other Authorizations (Other Than Permits By Rule, PSD Permits, NA Permits) for the Application Area**

Authorization No.: 6093	Issuance Date: 06/01/2021	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:
Authorization No.:	Issuance Date:	Authorization No.:	Issuance Date:

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 88	
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)	
♦ I. Permits by Rule (30 TAC Chapter 106) for the Application Area	
A list of selected Permits by Rule (previously referred to as standard exemptions) that are required to be listed in the FOP application is available in the instructions.	
PBR No.:106.102	Version No./Date: 09/04/2000
PBR No.:106.103	Version No./Date: 03/14/1997
PBR No.:106.122	Version No./Date: 03/14/1997
PBR No.:106.183	Version No./Date: 06/18/1997, 09/04/2000
PBR No.:106.227	Version No./Date: 03/14/1997, 09/04/2000
PBR No.:106.261	Version No./Date: 09/04/2000, 11/01/2003
PBR No.:106.262	Version No./Date: 11/01/2003
PBR No.:106.263	Version No./Date: 03/14/1997, 11/01/2001
PBR No.:106.264	Version No./Date: 03/14/1997
PBR No.:106.265	Version No./Date: 09/04/2000
PBR No.:106.266	Version No./Date: 03/14/1997
PBR No.:106.371	Version No./Date: 03/14/1997
PBR No.:106.372	Version No./Date: 03/14/1997
PBR No.:106.373	Version No./Date: 03/14/1997
PBR No.:106.412	Version No./Date: 03/14/1997
PBR No.:106.418	Version No./Date: 03/14/1997, 09/04/2000
PBR No.:106.433	Version No./Date: 03/14/1997
PBR No.:106.452	Version No./Date: 03/14/1997
PBR No.: 106.453	Version No./Date: 9/4/2000
PBR No.:106.454	Version No./Date: 03/14/1997, 11/1/2001
PBR No.:106.472	Version No./Date: 03/14/1997, 09/04/2000

Date:	08/04/2023
Permit No.:	O-1094
RN No.:	RN100223585

For SOP applications, answer ALL questions unless otherwise directed.
♦ *For GOP applications, answer ONLY these questions unless otherwise directed.*

PBR No.106.473	Version No./Date: 03/14/1997
PBR No.106.476	Version No./Date: 09/04/2000
PBR No.:106.511	Version No./Date: 03/14/1997, 09/04/2000
PBR No.:106.532	Version No./Date: 03/14/1997, 09/04/2000
PBR No.:7	Version No./Date: 11/05/1986
♦ **J. Municipal Solid Waste and Industrial Hazardous Waste Permits With an Air Addendum**	
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:

19. TCEQ FORM OP-ACPS

Texas Commission on Environmental Quality
Form OP-ACPS
Application Compliance Plan and Schedule

Date: 08/04/2023	Regulated Entity No.: RN100223585	Permit No.: O-1094
Company Name: Owens Corning Insulating Systems, LLC	**Area Name:** Waxahachie Plant	

- Part 1 of this form must be submitted with all initial FOP applications and renewal applications.
- The Responsible Official must use Form OP-CRO1 (Certification by Responsible Official) to certify information contained in this form in accordance with 30 TAC § 122.132(d)(8).

Part 1

A.	**Compliance Plan — Future Activity Committal Statement**	
The *Responsible Official* commits, utilizing reasonable effort, to the following: As the responsible official it is my intent that all emission units shall continue to be in compliance with all applicable requirements they are currently in compliance with, and all emission units shall be in compliance by the compliance dates with any applicable requirements that become effective during the permit term.		
B.	**Compliance Certification - Statement for Units in Compliance* (Indicate response by entering an "X" in the appropriate column)**	
1.	With the exception of those emission units listed in the Compliance Schedule section of this form (Part 2, below), and based, at minimum, on the compliance method specified in the associated applicable requirements, are all emission units addressed in this application in compliance with all their respective applicable requirements as identified in this application?	☒ YES ☐ NO
2.	Are there any non-compliance situations addressed in the Compliance Schedule Section of this form (Part 2)?	☐ YES ☒ NO
3.	If the response to Item B.2, above, is "Yes," indicate the total number of Part 2 attachments included in this submittal. *(For reference only)*	
*	*For Site Operating Permits (SOPs), the complete application should be consulted for applicable requirements and their corresponding emission units when assessing compliance status.* *For General Operating Permits (GOPs), the application documentation, particularly Form OP-REQ1 should be consulted as well as the requirements contained in the appropriate General Permits portion of 30 TAC Chapter 122.* *Compliance should be assessed based, at a minimum, on the required monitoring, testing, record keeping, and/or reporting requirements, as appropriate, associated with the applicable requirement in question.*	

20. TCEQ PUBLIC INVOLVEMENT PLAN FORM FOR PERMIT AND REGISTRATION APPLICATIONS

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

☐ New Permit or Registration Application

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

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

Section 2. Secondary Screening

☒ Requires public notice,

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

☒ Located within any of the following geographical locations:

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

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

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

The site has not received comments from the public on any permit application, therefore, there is no history of significant public interest.

Section 3. Application Information

Type of Application (check all that apply):

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

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

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

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

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

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

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

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

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

(City)

(County)

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

☐ City ☐ County ☐ Census Tract

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

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

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

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

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If Yes, please describe.

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

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

☐ Yes ☐ No

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

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

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

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

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

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)