

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
1/15/2025	O-1559	RN100211523

Unit ID No.	Registration No.	PBR No.	Registration Date
PLU-FUG	175145	106.261, 106.262	04/12/2024
LOG-HOPPER	175145	106.261, 106.262	04/12/2024
PLU-FUG	175377	106.261	03/08/2024
TEMP-TRAILER	172244	106.261	12/29/2023
PLU-FUG	172244	106.261	12/29/2023
PLU-4	172244	106.261	12/29/2023
PLU-T5505	172244	106.261	12/29/2023
TEMP-TOTE1	172244	106.261	12/29/2023
TEMP-TOTE2	172244	106.261	12/29/2023
VSP-FUG	174457	106.262	11/09/2023
FCC-FUG	174457	106.262	11/09/2023
VSP-1	174351	106.261	11/14/2023
VSP-2	174351	106.261	11/14/2023
VSP-12	174351	106.261	11/14/2023
VSP-13	174351	106.261	11/14/2023
VSP-FUG	172354	106.261, 106.262	04/19/2023
FCC-FUG	172354	106.261, 106.262	04/19/2023
FCC-FUG	171969	106.262	03/17/2023
FCC-FUG	170968	106.262, 106.264	12/01/2022
VSP-FUG	170968	106.262, 106.264	12/01/2022
PLU-FUG	168488	106.261, 106.262	04/21/2022
VSP-FUG	168488	106.261, 106.262	04/21/2022
FCC-75B	166858	106.263	11/08/2021
FCC-46	163660	106.262	01/14/2021
FCC-46	163642	106.262	01/13/2021
FCC-46	163421	106.262	12/17/2020
431-501	163421	106.262	12/17/2020

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Unit ID No.	Registration No.	PBR No.	Registration Date
432-502	163421	106.262	12/17/2020
432-503	163421	106.262	12/17/2020
432-510	163421	106.262	12/17/2020
434-550	163421	106.262	12/17/2020
434-570	163421	106.262	12/17/2020
FCC-46	162906	106.262	10/26/2020
VSP-FUG	162906	106.262	10/26/2020
PLU-FUG	162906	106.262	10/26/2020
FCC-FUG	161695	106.262	06/18/2020
VSP-FUG	161695	106.262	06/18/2020
FCC-113	160822	106.262	04/21/2020
FCC-23	160822	106.262	04/21/2020
FCC-114	160774	106.261, 106.262	04/22/2020
FCC-84	160774	106.261, 106.262	04/22/2020
FCC-FUG	160774	106.261, 106.262	04/22/2020
VSP-FUG	160774	106.261, 106.262	04/22/2020
HPC-FUG	160774	106.261, 106.262	04/22/2020
PLU-FUG	160774	106.261, 106.262	04/22/2020
HPC-12A	160024	106.261, 106.262	02/12/2020
VSP-FUG	156185	106.261, 106.262	04/03/2019
HPC-54	155375	106.261, 106.262	02/12/2019
FCC-FUG	155375	106.261, 106.262	02/12/2019
FCC-FUG	151298	106.262	05/30/2018
VSP-FUG	151298	106.262	05/30/2018
FCC-19	131209	106.262	07/01/2015
FCC-69 (Train A)	131209	106.262	07/01/2015
FCC-69 (Train B)	131209	106.262	07/01/2015

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Unit ID No.	Registration No.	PBR No.	Registration Date
FCC-99A	131209	106.262	07/01/2015
FCC-99B	131209	106.262	07/01/2015
FCC-99	117527	106.261	05/02/2014
FCC-23	115923	106.261, 106.262	03/03/2014
FCC-13.1	115923	106.261, 106.262	03/03/2014
FCC-13.2	115923	106.261, 106.262	03/03/2014
FCC-13.3	115923	106.261, 106.262	03/03/2014
FCC-35	115923	106.261, 106.262	03/03/2014
FCC-90	115923	106.261, 106.262	03/03/2014
FCC-93	115923	106.261, 106.262	03/03/2014
FCC-94	115923	106.261, 106.262	03/03/2014
FCC-95	115923	106.261, 106.262	03/03/2014
FCC-96	115923	106.261, 106.262	03/03/2014
FCC-97	115923	106.261, 106.262	03/03/2014
FCC-98	115923	106.261, 106.262	03/03/2014
FCC WW BLDG	115923	106.261, 106.262	03/03/2014
FCC Cascade	115923	106.261, 106.262	03/03/2014
VSP CASCADE	115923	106.261, 106.262	03/03/2014
HPC-4135-155	115923	106.261, 106.262	03/03/2014
HPC-4135-303	115923	106.261, 106.262	03/03/2014
HPC-Orange	115923	106.261, 106.262	03/03/2014
FCC-FUG	115923	106.261, 106.262	03/03/2014
VSP-FUG	115923	106.261, 106.262	03/03/2014
HPC-FUG	115923	106.261, 106.262	03/03/2014
PLU-FUG	115923	106.261, 106.262	03/03/2014
FCC-86	114642	106.261, 106.262	02/07/2014
FCC-87	114491	106.261, 106.262	02/21/2014

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Unit ID No.	Registration No.	PBR No.	Registration Date
FCC-FUG	114394	106.261, 106.262	01/02/2014
VSP-FUG	114394	106.261, 106.262	01/02/2014
FCC-100	114394	106.261, 106.262	01/02/2014
RSC-1	110529	106.183	07/08/2013
FCC-83	108971	106.262	05/07/2013
FCC-FUG	108971	106.262	05/07/2013
RDL-1	104859	106.262	09/26/2012
RDL-2	104859	106.262	09/26/2012
RDL-7	104859	106.262	09/26/2012
FCC-FUG	104107	106.262	08/22/2012
FCC-84	103969	106.262	08/24/2012
FUG	103969	106.262	08/24/2012
FCC-21	102755	106.261	08/24/2012
Fugitives	102755	106.261	08/24/2012
Pilot Plant	101157	106.262	03/29/2012
FCC-51	96731	106.261	08/09/2011
FCC-53	96731	106.261	08/09/2011
FCC-54	96731	106.261	08/09/2011
Feed Tank	96731	106.261	08/09/2011
Filter	96731	106.261	08/09/2011
Package	96731	106.261	08/09/2011
FUG	95994	106.262	05/18/2011
HPC Unit	80542	106.261, 106.262	01/09/2007
HPC Unit	80147	106.262	10/25/2006
HPC-17	76400	106.261	08/05/2005
RDL-7	45951	106.261, 106.262	01/24/2005
RDL-7	56753	106.262	01/20/2005

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Table B: Claimed (not registered) Permits by Rule (30 TAC Chapter 106) for the Application Area
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Date	Permit Number	Regulated Entity Number
1/15/2025	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date
Sitewide	106.122	09/04/2000
Sitewide	106.124	09/04/2000
Sitewide	106.183	09/04/2000
Sitewide	106.227	03/14/1997
Sitewide	106.261	11/1/2003
Sitewide	106.262	11/1/2003
Sitewide	106.263	11/1/2003
Sitewide	106.264	09/04/2000
Sitewide	106.371	09/04/2000
TEMP-CT	106.371	09/04/2000
PLU-11	106.371	09/04/2000
FCC-CT	106.371	09/04/2000
Sitewide	106.372	09/04/2000
Sitewide	106.373	09/04/2000
Sitewide	106.433	03/14/1997
Sitewide	106.433	09/04/2000
Sitewide	106.452	09/04/2000
UTL-PRT1	106.454	07/08/1998
UTL-PRT2	106.454	07/08/1998
UTL-PRT1	106.454	11/01/2001
UTL-PRT2	106.454	11/01/2001
Sitewide	106.472	09/04/2000
Sitewide	106.473	03/14/1997
UTL-GAS	106.473	03/14/1997
UTL-MERC1	106.473	03/14/1997
UTL-MERC2	106.473	03/14/1997
UTL-SUB	106.473	03/14/1997

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Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
PLU-FUG	106.261, 106.262	04/12/2024	28AVO monitoring program.
LOG-HOPPER	106.261, 106.262	04/12/2024	Emission and distance limitation.
PLU-FUG	106.261	03/08/2024	28AVO monitoring program.
TEMP-TRAILER	106.261	12/29/2023	Emission limitation.
PLU-FUG	106.261	12/29/2023	28AVO monitoring program.
PLU-4	106.261	12/29/2023	Emission limitation.
PLU-T5505	106.261	12/29/2023	Emission limitation.
TEMP-TOTE1	106.261	12/29/2023	Throughput.
TEMP-TOTE2	106.261	12/29/2023	Throughput.
VSP-FUG	106.262	11/09/2023	28AVO monitoring program.
FCC-FUG	106.262	11/09/2023	28AVO monitoring program.
VSP-1	106.261	11/14/2023	Emission limitation.
VSP-2	106.261	11/14/2023	Emission limitation.
VSP-12	106.261	11/14/2023	Emission limitation.
VSP-13	106.261	11/14/2023	Emission limitation.
VSP-FUG	106.261, 106.262	04/19/2023	28AVO monitoring program.
FCC-FUG	106.261, 106.262	04/19/2023	28AVO monitoring program.
FCC-FUG	106.262	03/17/2023	28AVO monitoring program.
FCC-FUG	106.262, 106.264	12/01/2022	28AVO monitoring program.
VSP-FUG	106.262, 106.264	12/01/2022	28AVO monitoring program.
PLU-FUG	106.261, 106.262	04/21/2022	28AVO monitoring program.
VSP-FUG	106.261, 106.262	04/21/2022	28AVO monitoring program.
FCC-75B	106.263	11/08/2021	Date, time, and duration of event is documented.
FCC-46	106.262	01/14/2021	Emission and distance limitation.
FCC-46	106.262	01/13/2021	Emission and distance limitation.
FCC-46	106.262	12/17/2020	Emission and distance limitation.

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Date	Permit Number	Regulated Entity Number
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Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
433-201	106.262	12/17/2020	Emission and distance limitation.
432-502	106.262	12/17/2020	Emission and distance limitation.
432-203	106.262	12/17/2020	Emission and distance limitation.
432-510	106.262	12/17/2020	Emission and distance limitation.
434-550	106.262	12/17/2020	Emission and distance limitation.
434-570	106.262	12/17/2020	Emission and distance limitation.
FCC-46	106.262	10/26/2020	Emission and distance limitation.
VSP-FUG	106.262	10/26/2020	28AVO monitoring program.
PLU-FUG	106.262	10/26/2020	28AVO monitoring program.
FCC-FUG	106.262	06/18/2020	28AVO monitoring program.
VSP-FUG	106.262	06/18/2020	28AVO monitoring program.
FCC-113	106.262	04/21/2020	Emission and distance limitation.
FCC-23	106.262	04/21/2020	Emission and distance limitation.
FCC-114	106.261, 106.262	04/22/2020	Emission and distance limitation.
FCC-84	106.261, 106.262	04/22/2020	Emission and distance limitation.
FCC-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
VSP-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
HPC-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
PLU-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
HPC-12A	106.261, 106.262	02/12/2020	Emission and distance limitation.
VSP-FUG	106.261, 106.262	04/03/2019	28AVO monitoring program.
HPC-54	106.261, 106.262	02/12/2019	Emission and distance limitation.
FCC-FUG	106.261, 106.262	02/12/2019	28AVO monitoring program.
FCC-FUG	106.262	05/30/2018	28AVO monitoring program.
VSP-FUG	106.262	05/30/2018	28AVO monitoring program.
FCC-19	106.262	07/01/2015	Emission and distance limitation.

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Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
FCC-69 (Train A)	106.262	07/01/2015	Emission and distance limitation.
FCC-69 (Train B)	106.262	07/01/2015	Emission and distance limitation.
FCC-99A	106.262	07/01/2015	Emission and distance limitation.
FCC-99B	106.262	07/01/2015	Emission and distance limitation.
FCC-99	106.261	05/02/2014	Emission limitation.
FCC-23	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-13.1	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-13.2	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-13.3	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-35	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-90	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-93	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-94	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-95	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-96	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-97	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-98	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC WW BLDG	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC Cascade	106.261, 106.262	03/03/2014	Emission and distance limitation.
VSP CASCADE	106.261, 106.262	03/03/2014	Emission and distance limitation.
HPC-4135-155	106.261, 106.262	03/03/2014	Emission and distance limitation.
HPC-4135-303	106.261, 106.262	03/03/2014	Emission and distance limitation.
HPC-Orange	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.
VSP-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.
HPC-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.

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Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
PLU-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.
FCC-86	106.261, 106.262	02/07/2014	Emission and distance limitation.
FCC-87	106.261, 106.262	02/21/2014	Emission and distance limitation.
FCC-FUG	106.261, 106.262	01/02/2014	28AVO monitoring program.
VSP-FUG	106.261, 106.262	01/02/2014	28AVO monitoring program.
FCC-100	106.261, 106.262	01/02/2014	Emission and distance limitation.
RSC-1	106.183	07/08/2013	Records of hours of fuel firing and fuel oil purchases.
FCC-83	106.262	05/07/2013	Emission and distance limitation.
FCC-FUG	106.262	05/07/2013	28AVO monitoring program.
RDL-1	106.262	09/26/2012	Emission and distance limitation.
RDL-2	106.262	09/26/2012	Emission and distance limitation.
RDL-7	106.262	09/26/2012	Emission and distance limitation.
FCC-FUG	106.262	08/22/2012	28AVO monitoring program.
FCC-84	106.262	08/24/2012	Emission and distance limitation.
FUG	106.262	08/24/2012	28AVO monitoring program.
FCC-21	106.261	08/24/2012	Emission limitation.
Fugitives	106.261	08/24/2012	28AVO monitoring program.
Pilot Plant	106.262	03/29/2012	Emission and distance limitation.
FCC-51	106.261	08/09/2011	Emission limitation.
FCC-53	106.261	08/09/2011	Emission limitation.
FCC-54	106.261	08/09/2011	Emission limitation.
Feed Tank	106.261	08/09/2011	Emission limitation.
Filter	106.261	08/09/2011	Emission limitation.
Package	106.261	08/09/2011	Emission limitation.
FUG	106.262	05/18/2011	28AVO monitoring program.
HPC Unit	106.261, 106.262	01/09/2007	Emission and distance limitation.

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Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
HPC Unit	106.262	10/25/2006	Emission and distance limitation.
HPC-17	106.261	08/05/2005	Emission limitation.
RDL-7	106.261, 106.262	01/24/2005	Emission and distance limitation.
RDL-7	106.262	01/20/2005	Emission and distance limitation.
FCC-79	106.261, 106.512	01/20/2005	Hours of operation.
FCC-80	106.261, 106.512	01/20/2005	Hours of operation.
RDL-7	106.262	01/20/2005	Emission and distance limitation.
Sitewide	106.122	09/04/2000	Service type.
Sitewide	106.124	09/04/2000	Service type.
Sitewide	106.183	09/04/2000	Records of hours of fuel firing and fuel oil purchases.
Sitewide	106.227	03/14/1997	Records of brazing, soldering or welding activities.
Sitewide	106.261	11/01/2003	Emission limitation.
Sitewide	106.262	11/01/2003	Emission and distance limitation.
Sitewide	106.263	11/01/2003	Emission totals and duration.
Sitewide	106.264	09/04/2000	Replacmenet records.
Sitewide	106.371	09/04/2000	Service type.
TEMP-CT	106.371	09/04/2000	Service type.
PLU-11	106.371	09/04/2000	Service type.
FCC-CT	106.371	09/04/2000	Service type.
Sitewide	106.372	09/04/2000	Service type.
Sitewide	106.373	09/04/2000	Type of refrigerant is documented.
Sitewide	106.433	03/14/1997	Service type.
Sitewide	106.433	09/04/2000	Service type.
Sitewide	106.452	09/04/2000	Operating hours and material usage.
UTL-PRT1	106.454	07/08/1998	Record total solvent makeup.
UTL-PRT2	106.454	07/08/1998	Record total solvent makeup.

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Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
UTL-PRT1	106.454	11/01/2001	Record total solvent makeup.
UTL-PRT2	106.454	11/01/2001	Record total solvent makeup.
Sitewide	106.472	09/04/2000	Service type.
Sitewide	106.473	03/14/1997	Service type, capacity, throughput.
UTL-GAS	106.473	03/14/1997	Service type, capacity, throughput.
UTL-MERC1	106.473	03/14/1997	Service type, capacity, throughput.
UTL-MERC2	106.473	03/14/1997	Service type, capacity, throughput.
UTL-SUB	106.473	03/14/1997	Service type, capacity, throughput.
Sitewide	106.478	09/04/2000	Vapor pressure, throughput, and service type.
Sitewide	106.511	03/14/1997	Hours of operation.
Sitewide	106.511	09/04/2000	Hours of operation.
4002-602	106.511	09/04/2000	Hours of operation.
4017-501A	106.511	09/04/2000	Hours of operation.
4017-501B	106.511	09/04/2000	Hours of operation.
Sitewide	106.512	03/14/1997	Hours of operation.
Sitewide	106.512	09/04/2000	Hours of operation.
4030-F1422B	106.512	09/04/2000	Hours of operation.
4030-F1522B	106.512	09/04/2000	Hours of operation.
433-725E	106.512	09/04/2000	Hours of operation.
Sitewide	106.512	06/13/2001	Hours of operation.
Sitewide	7	09/12/1989	Hours of operation.
CHB-1	7	09/12/1989	Hours of operation.
CHB-2	7	09/12/1989	Hours of operation.
ENG-1	7	09/12/1989	Hours of operation.
RSC-2	7	09/12/1989	Hours of operation.
FCC-FUG	106.262	03/04/1997	28AVO monitoring program.

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

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[illegible]

TECHNICAL REVIEW: AIR PERMIT BY RULE

Permit No.:	166858	Company Name:	Albemarle Corporation	APD Reviewer:	James Qu
Project No.:	334574	Unit Name:	Albemarle Bayport Plant	PBR No(s).:	106.263

GENERAL INFORMATION					
Regulated Entity No.:	RN100211523	Project Type:	Permit by Rule Application		
Customer Reference No.:	CN600129589	Date Received by TCEQ:	October 21, 2021		
City/County:	Pasadena, Harris County	Date Received by Reviewer:	October 22, 2021		
Physical Location:	13000 Baypark Rd				

CONTACT INFORMATION					
Responsible Official/ Primary Contact Name and Title:	Chase Chicola Plant Manager	Phone No.:	(281) 474-0379	Email:	CHASE.CHICOLA@ALBEMARLE.COM
Technical Contact/ Consultant Name and Title:	Preethi Joseph Environmental Manager	Phone No.:	(281) 291-2260	Email:	PREETHI.JOSEPH@ALBEMARLE.COM

GENERAL RULES CHECK	YES	NO	COMMENTS
Is confidential information included in the application?	X		Process description and plot plan.
Has the PBR fee been paid?	X		Application fee: 535531 / 582EA000454308 Surcharge fee: 535532 / 582EA000454308
Is this registration certified?	X		A PI-7 Cert was submitted.
Is this an APWL site?		X	
Are there any upstream or downstream affects associated with this registration?		X	
Is planned MSS included in the registration?		X	
Are there affected NSR or Title V authorizations for the project?	X		If yes, what is the number(s): NSR 9402; O-1559.
Is each PBR > 25/250 tpy?		X	
Are PBR sitewide emissions > 25/250 tpy?	NA	NA	Site has been through public notice.
Are there permit limits on using PBRs at the site?		X	
Is PSD or Nonattainment netting required?		X	
Do NSPS, NESHAP, or MACT standards apply to this registration?		X	
Does NOx Cap and Trade apply to this registration?		X	
Is the facility in compliance with all other applicable rules and regulations?	X		

DESCRIBE OVERALL PROCESS AT THE SITE
Albemarle Corporation (Albemarle) owns and operates the inorganic chemical manufacturing plant, Bayport Plant, in Pasadena, Harris County, Texas. The site is currently authorized under NSR Permit 9402.
The FCC Catalyst is a solid and is heat treated at the calciner. A Venturi/wet scrubber system (FIN: 433-726) draws process gases from product side of the calciner. Gases leaving this wet scrubber are routed to a thermal oxidizer/selective catalytic reduction (TO/SCR) System (EPN: FCC-75) (authorized under NSR permit).
Albemarle is submitting this PBR application to authorize routine maintenance, start-up, shutdown and maintenance facilities for FCC calciner to be routed to Calciner Vent System (MSS emission EPN: FCC-75B). When MSS activities occur, the process is shut down and the emissions are routed to the existing venturi/wet scrubber system and to an atmospheric vent pipe that bypasses the TO/SCR system. This bypass is required to meet the integrity of the equipment and for safety reasons. Criteria pollutant (NOx) and greenhouse gas (N ₂ O), as defined under 30 TAC §101.1 are produced.

DESCRIBE PROJECT AND INVOLVED PROCESS
Albemarle is proposing to authorize routine maintenance, start-up, shutdown and specific maintenance facilities for FCC calciner (FIN: 433-725A) to be routed to the Calciner Vent System (MSS EPN: FCC-75B). This project is related to performing an internal audit under Texas Environmental Health and Safety Audit Privilege Act (Investigation No. 1701364). During the audit, discrepancies in the permit representation were identified and disclosed to TCEQ.
PBR registration 166858 should be incorporated into permit 9402 at the next amendment or renewal.


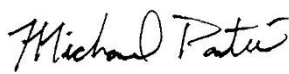

TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES
<u>§106.263 Routine Maintenance, Start-up and Shutdown of Facilities, and Temporary Maintenance Facilities</u>
All MSS activities at the site are authorized under §106.263 and will meet the requirements and limitations of this section. The company will also maintain sufficient records.

TECHNICAL REVIEW: AIR PERMIT BY RULE

Permit No.:	166858	Company Name:	Albemarle Corporation	APD Reviewer:	James Qu
Project No.:	334574	Unit Name:	Albemarle Bayport Plant	PBR No(s).:	106.263

ESTIMATED EMISSIONS														
EPN / Emission Source	VOC		NOx		CO		PM ₁₀		PM _{2.5}		SO ₂		Other	
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
FCC-75B / Calcliner Vent System			4.76	0.06										
TOTAL EMISSIONS (TPY):				0.06										
MAXIMUM OPERATING SCHEDULE:	Hours/Day			Days/Week			Weeks/Year			Hours/Year		8,760		

Compliance History Evaluation - 30 TAC Chapter 60 Rules	
A compliance history report was reviewed on:	October 22, 2021
Site rating & classification:	4.29 / Satisfactory
Company rating & classification:	3.85 / Satisfactory

	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
SIGNATURE:			
PRINTED NAME:	Mr. James Qu	Mr. Michael Partee	Ms. Kristyn Campbell, Manager
DATE:	November 5, 2021	November 5, 2021	November 8, 2021

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 8, 2021

Mr. Chase Chicola
Plant Manager
Albemarle Corporation
13000 Baypark Rd
Pasadena, TX 77507

Permit by Rule Registration Number: 166858
Albemarle Corporation
Project Description/Unit: Albemarle Bayport Plant
City: Pasadena, Harris County
Regulated Entity Number: RN100211523
Customer Reference Number: CN600129589
30 TAC § 106.263
Affected Permit(s): 9402

This is in response to your Permit by Rule (PBR) registration submitted through the online ePermits process for your facility located near Pasadena, Harris County. Based on the information submitted and review completed by the Rule Registration Section, this is an acknowledgement that Albemarle Corporation has certified emissions associated with Albemarle Bayport Plant under the Permit By Rule(s) listed above. For rule information see: www.tceq.texas.gov/permitting/air/nav/numerical_index.html. Records must be maintained in accordance with Title 30 Texas Administrative Code § 106.8 to demonstrate compliance with the claimed PBRs.

As referenced in 30 TAC § 116.116(d)(2), all changes authorized under Chapter 106 to a permitted facility shall be incorporated into the NSR Permit No. 9402 when it is amended or renewed.

As a reminder, regardless of the authorization mechanism, all facilities must be in compliance and operate in accordance with all rules and regulations of the TCEQ and the U.S. Environmental Protection Agency. Facilities not operating in accordance with these rules and regulations, or that misrepresented or failed to fully disclose all relevant facts in obtaining this authorization may be subject to formal enforcement action.

This action is taken under authority delegated by the Executive Director of the TCEQ. If you need further information or have questions, please contact the Rule Registrations Section at (512) 239-1250 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,

Kristyn Campbell, Manager

Rule Registrations Section
Air Permits Division

Texas Commission on Environmental Quality

[Project Number: 334574]

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
1/9/2025	O-1559	RN100211523

Unit ID No.	Registration No.	PBR No.	Registration Date
PLU-FUG	175145	106.261, 106.262	04/12/2024
LOG-HOPPER	175145	106.261, 106.262	04/12/2024
PLU-FUG	175377	106.261	03/08/2024
TEMP-TRAILER	172244	106.261	12/29/2023
PLU-FUG	172244	106.261	12/29/2023
PLU-4	172244	106.261	12/29/2023
PLU-T5505	172244	106.261	12/29/2023
TEMP-TOTE1	172244	106.261	12/29/2023
TEMP-TOTE2	172244	106.261	12/29/2023
VSP-FUG	174457	106.262	11/09/2023
FCC-FUG	174457	106.262	11/09/2023
VSP-1	174351	106.261	11/14/2023
VSP-2	174351	106.261	11/14/2023
VSP-12	174351	106.261	11/14/2023
VSP-13	174351	106.261	11/14/2023
VSP-FUG	172354	106.261, 106.262	04/19/2023
FCC-FUG	172354	106.261, 106.262	04/19/2023
FCC-FUG	171969	106.262	03/17/2023
FCC-FUG	170968	106.262, 106.264	12/01/2022
VSP-FUG	170968	106.262, 106.264	12/01/2022
PLU-FUG	168488	106.261, 106.262	04/21/2022
VSP-FUG	168488	106.261, 106.262	04/21/2022
FCC-75B	166858	106.263	11/08/2021
FCC-46	163660	106.262	01/14/2021
FCC-46	163642	106.262	01/13/2021
FCC-46	163421	106.262	12/17/2020
431-501	163421	106.262	12/17/2020

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
1/9/2025	O-1559	RN100211523

Unit ID No.	Registration No.	PBR No.	Registration Date
432-502	163421	106.262	12/17/2020
432-503	163421	106.262	12/17/2020
432-510	163421	106.262	12/17/2020
434-550	163421	106.262	12/17/2020
434-570	163421	106.262	12/17/2020
FCC-46	162906	106.262	10/26/2020
VSP-FUG	162906	106.262	10/26/2020
PLU-FUG	162906	106.262	10/26/2020
FCC-FUG	161695	106.262	06/18/2020
VSP-FUG	161695	106.262	06/18/2020
FCC-113	160822	106.262	04/21/2020
FCC-23	160822	106.262	04/21/2020
FCC-114	160774	106.261, 106.262	04/22/2020
FCC-84	160774	106.261, 106.262	04/22/2020
FCC-FUG	160774	106.261, 106.262	04/22/2020
VSP-FUG	160774	106.261, 106.262	04/22/2020
HPC-FUG	160774	106.261, 106.262	04/22/2020
PLU-FUG	160774	106.261, 106.262	04/22/2020
HPC-12A	160024	106.261, 106.262	02/12/2020
VSP-FUG	156185	106.261, 106.262	04/03/2019
HPC-54	155375	106.261, 106.262	02/12/2019
FCC-FUG	155375	106.261, 106.262	02/12/2019
FCC-FUG	151298	106.262	05/30/2018
VSP-FUG	151298	106.262	05/30/2018
FCC-19	131209	106.262	07/01/2015
FCC-69 (Train A)	131209	106.262	07/01/2015
FCC-69 (Train B)	131209	106.262	07/01/2015

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
1/9/2025	O-1559	RN100211523

Unit ID No.	Registration No.	PBR No.	Registration Date
FCC-99A	131209	106.262	07/01/2015
FCC-99B	131209	106.262	07/01/2015
FCC-99	117527	106.261	05/02/2014
FCC-23	115923	106.261, 106.262	03/03/2014
FCC-13.1	115923	106.261, 106.262	03/03/2014
FCC-13.2	115923	106.261, 106.262	03/03/2014
FCC-13.3	115923	106.261, 106.262	03/03/2014
FCC-35	115923	106.261, 106.262	03/03/2014
FCC-90	115923	106.261, 106.262	03/03/2014
FCC-93	115923	106.261, 106.262	03/03/2014
FCC-94	115923	106.261, 106.262	03/03/2014
FCC-95	115923	106.261, 106.262	03/03/2014
FCC-96	115923	106.261, 106.262	03/03/2014
FCC-97	115923	106.261, 106.262	03/03/2014
FCC-98	115923	106.261, 106.262	03/03/2014
FCC WW BLDG	115923	106.261, 106.262	03/03/2014
FCC Cascade	115923	106.261, 106.262	03/03/2014
VSP CASCADE	115923	106.261, 106.262	03/03/2014
HPC-4135-155	115923	106.261, 106.262	03/03/2014
HPC-4135-303	115923	106.261, 106.262	03/03/2014
HPC-Orange	115923	106.261, 106.262	03/03/2014
FCC-FUG	115923	106.261, 106.262	03/03/2014
VSP-FUG	115923	106.261, 106.262	03/03/2014
HPC-FUG	115923	106.261, 106.262	03/03/2014
PLU-FUG	115923	106.261, 106.262	03/03/2014
FCC-86	114642	106.261, 106.262	02/07/2014
FCC-87	114491	106.261, 106.262	02/21/2014

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
1/9/2025	O-1559	RN100211523

Unit ID No.	Registration No.	PBR No.	Registration Date
FCC-FUG	114394	106.261, 106.262	01/02/2014
VSP-FUG	114394	106.261, 106.262	01/02/2014
FCC-100	114394	106.261, 106.262	01/02/2014
RSC-1	110529	106.183	07/08/2013
FCC-83	108971	106.262	05/07/2013
FCC-FUG	108971	106.262	05/07/2013
RDL-1	104859	106.262	09/26/2012
RDL-2	104859	106.262	09/26/2012
RDL-7	104859	106.262	09/26/2012
FCC-FUG	104107	106.262	08/22/2012
FCC-84	103969	106.262	08/24/2012
FUG	103969	106.262	08/24/2012
FCC-21	102755	106.261	08/24/2012
Fugitives	102755	106.261	08/24/2012
Pilot Plant	101157	106.262	03/29/2012
FCC-51	96731	106.261	08/09/2011
FCC-53	96731	106.261	08/09/2011
FCC-54	96731	106.261	08/09/2011
Feed Tank	96731	106.261	08/09/2011
Filter	96731	106.261	08/09/2011
Package	96731	106.261	08/09/2011
FUG	95994	106.262	05/18/2011
HPC Unit	80542	106.261, 106.262	01/09/2007
HPC Unit	80147	106.262	10/25/2006
HPC-17	76400	106.261	08/05/2005
RDL-7	45951	106.261, 106.262	01/24/2005
RDL-7	56753	106.262	01/20/2005

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
1/9/2025	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date
Sitewide	106.122	09/04/2000
Sitewide	106.124	09/04/2000
Sitewide	106.183	09/04/2000
Sitewide	106.227	03/14/1997
Sitewide	106.261	11/1/2003
Sitewide	106.262	11/1/2003
Sitewide	106.263	11/1/2003
Sitewide	106.264	09/04/2000
Sitewide	106.371	09/04/2000
TEMP-CT	106.371	09/04/2000
PLU-11	106.371	09/04/2000
FCC-CT	106.371	09/04/2000
Sitewide	106.372	09/04/2000
Sitewide	106.373	09/04/2000
Sitewide	106.433	03/14/1997
Sitewide	106.433	09/04/2000
Sitewide	106.452	09/04/2000
UTL-PRT1	106.454	07/08/1998
UTL-PRT2	106.454	07/08/1998
UTL-PRT1	106.454	11/01/2001
UTL-PRT2	106.454	11/01/2001
Sitewide	106.472	09/04/2000
Sitewide	106.473	03/14/1997
UTL-GAS	106.473	03/14/1997
UTL-MERC1	106.473	03/14/1997
UTL-MERC2	106.473	03/14/1997
UTL-SUB	106.473	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
1/9/2025	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
PLU-FUG	106.261, 106.262	04/12/2024	28AVO monitoring program.
LOG-HOPPER	106.261, 106.262	04/12/2024	Emission and distance limitation.
PLU-FUG	106.261	03/08/2024	28AVO monitoring program.
TEMP-TRAILER	106.261	12/29/2023	Emission limitation.
PLU-FUG	106.261	12/29/2023	28AVO monitoring program.
PLU-4	106.261	12/29/2023	Emission limitation.
PLU-T5505	106.261	12/29/2023	Emission limitation.
TEMP-TOTE1	106.261	12/29/2023	Throughput.
TEMP-TOTE2	106.261	12/29/2023	Throughput.
VSP-FUG	106.262	11/09/2023	28AVO monitoring program.
FCC-FUG	106.262	11/09/2023	28AVO monitoring program.
VSP-1	106.261	11/14/2023	Emission limitation.
VSP-2	106.261	11/14/2023	Emission limitation.
VSP-12	106.261	11/14/2023	Emission limitation.
VSP-13	106.261	11/14/2023	Emission limitation.
VSP-FUG	106.261, 106.262	04/19/2023	28AVO monitoring program.
FCC-FUG	106.261, 106.262	04/19/2023	28AVO monitoring program.
FCC-FUG	106.262	03/17/2023	28AVO monitoring program.
FCC-FUG	106.262, 106.264	12/01/2022	28AVO monitoring program.
VSP-FUG	106.262, 106.264	12/01/2022	28AVO monitoring program.
PLU-FUG	106.261, 106.262	04/21/2022	28AVO monitoring program.
VSP-FUG	106.261, 106.262	04/21/2022	28AVO monitoring program.
FCC-75B	106.263	11/08/2021	Date, time, and duration of event is documented.
FCC-46	106.262	01/14/2021	Emission and distance limitation.
FCC-46	106.262	01/13/2021	Emission and distance limitation.
FCC-46	106.262	12/17/2020	Emission and distance limitation.

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
1/9/2025	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
433-201	106.262	12/17/2020	Emission and distance limitation.
432-502	106.262	12/17/2020	Emission and distance limitation.
432-203	106.262	12/17/2020	Emission and distance limitation.
432-510	106.262	12/17/2020	Emission and distance limitation.
434-550	106.262	12/17/2020	Emission and distance limitation.
434-570	106.262	12/17/2020	Emission and distance limitation.
FCC-46	106.262	10/26/2020	Emission and distance limitation.
VSP-FUG	106.262	10/26/2020	28AVO monitoring program.
PLU-FUG	106.262	10/26/2020	28AVO monitoring program.
FCC-FUG	106.262	06/18/2020	28AVO monitoring program.
VSP-FUG	106.262	06/18/2020	28AVO monitoring program.
FCC-113	106.262	04/21/2020	Emission and distance limitation.
FCC-23	106.262	04/21/2020	Emission and distance limitation.
FCC-114	106.261, 106.262	04/22/2020	Emission and distance limitation.
FCC-84	106.261, 106.262	04/22/2020	Emission and distance limitation.
FCC-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
VSP-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
HPC-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
PLU-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
HPC-12A	106.261, 106.262	02/12/2020	Emission and distance limitation.
VSP-FUG	106.261, 106.262	04/03/2019	28AVO monitoring program.
HPC-54	106.261, 106.262	02/12/2019	Emission and distance limitation.
FCC-FUG	106.261, 106.262	02/12/2019	28AVO monitoring program.
FCC-FUG	106.262	05/30/2018	28AVO monitoring program.
VSP-FUG	106.262	05/30/2018	28AVO monitoring program.
FCC-19	106.262	07/01/2015	Emission and distance limitation.

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
1/9/2025	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
FCC-69 (Train A)	106.262	07/01/2015	Emission and distance limitation.
FCC-69 (Train B)	106.262	07/01/2015	Emission and distance limitation.
FCC-99A	106.262	07/01/2015	Emission and distance limitation.
FCC-99B	106.262	07/01/2015	Emission and distance limitation.
FCC-99	106.261	05/02/2014	Emission limitation.
FCC-23	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-13.1	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-13.2	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-13.3	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-35	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-90	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-93	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-94	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-95	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-96	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-97	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-98	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC WW BLDG	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC Cascade	106.261, 106.262	03/03/2014	Emission and distance limitation.
VSP CASCADE	106.261, 106.262	03/03/2014	Emission and distance limitation.
HPC-4135-155	106.261, 106.262	03/03/2014	Emission and distance limitation.
HPC-4135-303	106.261, 106.262	03/03/2014	Emission and distance limitation.
HPC-Orange	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.
VSP-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.
HPC-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.

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
1/9/2025	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
PLU-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.
FCC-86	106.261, 106.262	02/07/2014	Emission and distance limitation.
FCC-87	106.261, 106.262	02/21/2014	Emission and distance limitation.
FCC-FUG	106.261, 106.262	01/02/2014	28AVO monitoring program.
VSP-FUG	106.261, 106.262	01/02/2014	28AVO monitoring program.
FCC-100	106.261, 106.262	01/02/2014	Emission and distance limitation.
RSC-1	106.183	07/08/2013	Records of hours of fuel firing and fuel oil purchases.
FCC-83	106.262	05/07/2013	Emission and distance limitation.
FCC-FUG	106.262	05/07/2013	28AVO monitoring program.
RDL-1	106.262	09/26/2012	Emission and distance limitation.
RDL-2	106.262	09/26/2012	Emission and distance limitation.
RDL-7	106.262	09/26/2012	Emission and distance limitation.
FCC-FUG	106.262	08/22/2012	28AVO monitoring program.
FCC-84	106.262	08/24/2012	Emission and distance limitation.
FUG	106.262	08/24/2012	28AVO monitoring program.
FCC-21	106.261	08/24/2012	Emission limitation.
Fugitives	106.261	08/24/2012	28AVO monitoring program.
Pilot Plant	106.262	03/29/2012	Emission and distance limitation.
FCC-51	106.261	08/09/2011	Emission limitation.
FCC-53	106.261	08/09/2011	Emission limitation.
FCC-54	106.261	08/09/2011	Emission limitation.
Feed Tank	106.261	08/09/2011	Emission limitation.
Filter	106.261	08/09/2011	Emission limitation.
Package	106.261	08/09/2011	Emission limitation.
FUG	106.262	05/18/2011	28AVO monitoring program.
HPC Unit	106.261, 106.262	01/09/2007	Emission and distance limitation.

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
1/9/2025	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
HPC Unit	106.262	10/25/2006	Emission and distance limitation.
HPC-17	106.261	08/05/2005	Emission limitation.
RDL-7	106.261, 106.262	01/24/2005	Emission and distance limitation.
RDL-7	106.262	01/20/2005	Emission and distance limitation.
FCC-79	106.261, 106.512	01/20/2005	Hours of operation.
FCC-80	106.261, 106.512	01/20/2005	Hours of operation.
RDL-7	106.262	01/20/2005	Emission and distance limitation.
Sitewide	106.122	09/04/2000	Service type.
Sitewide	106.124	09/04/2000	Service type.
Sitewide	106.183	09/04/2000	Records of hours of fuel firing and fuel oil purchases.
Sitewide	106.227	03/14/1997	Records of brazing, soldering or welding activities.
Sitewide	106.261	11/01/2003	Emission limitation.
Sitewide	106.262	11/01/2003	Emission and distance limitation.
Sitewide	106.263	11/01/2003	Emission totals and duration.
Sitewide	106.264	09/04/2000	Replacmenet records.
Sitewide	106.371	09/04/2000	Service type.
TEMP-CT	106.371	09/04/2000	Service type.
PLU-11	106.371	09/04/2000	Service type.
FCC-CT	106.371	09/04/2000	Service type.
Sitewide	106.372	09/04/2000	Service type.
Sitewide	106.373	09/04/2000	Type of refrigerant is documented.
Sitewide	106.433	03/14/1997	Service type.
Sitewide	106.433	09/04/2000	Service type.
Sitewide	106.452	09/04/2000	Operating hours and material usage.
UTL-PRT1	106.454	07/08/1998	Record total solvent makeup.
UTL-PRT2	106.454	07/08/1998	Record total solvent makeup.

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
1/9/2025	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
UTL-PRT1	106.454	11/01/2001	Record total solvent makeup.
UTL-PRT2	106.454	11/01/2001	Record total solvent makeup.
Sitewide	106.472	09/04/2000	Service type.
Sitewide	106.473	03/14/1997	Service type, capacity, throughput.
UTL-GAS	106.473	03/14/1997	Service type, capacity, throughput.
UTL-MERC1	106.473	03/14/1997	Service type, capacity, throughput.
UTL-MERC2	106.473	03/14/1997	Service type, capacity, throughput.
UTL-SUB	106.473	03/14/1997	Service type, capacity, throughput.
Sitewide	106.478	09/04/2000	Vapor pressure, throughput, and service type.
Sitewide	106.511	03/14/1997	Hours of operation.
Sitewide	106.511	09/04/2000	Hours of operation.
4002-602	106.511	09/04/2000	Hours of operation.
4017-501A	106.511	09/04/2000	Hours of operation.
4017-501B	106.511	09/04/2000	Hours of operation.
Sitewide	106.512	03/14/1997	Hours of operation.
Sitewide	106.512	09/04/2000	Hours of operation.
4030-F1422B	106.512	09/04/2000	Hours of operation.
4030-F1522B	106.512	09/04/2000	Hours of operation.
433-725E	106.512	09/04/2000	Hours of operation.
Sitewide	106.512	06/13/2001	Hours of operation.
Sitewide	7	09/12/1989	Hours of operation.
CHB-1	7	09/12/1989	Hours of operation.
CHB-2	7	09/12/1989	Hours of operation.
ENG-1	7	09/12/1989	Hours of operation.
RSC-2	7	09/12/1989	Hours of operation.
FCC-FUG	106.262	03/04/1997	28AVO monitoring program.

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Ketjen Limited Liability Company

AUTHORIZING THE OPERATION OF
Bayport Plant
Other Basic Inorganic Chemical Manufacturing

LOCATED AT
Harris County, Texas
Latitude 29° 38' 32" Longitude 95° 3' 52"
Regulated Entity Number: RN100211523

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O1559 Issuance Date: _____

For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five-year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subparts ZZZZ and VVVVVV as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter

113, Subchapter C, § 113.1090 and § 113.1945 respectively which incorporate the 40 CFR Part 63 Subpart by reference.

- F. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 101.302 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
 - (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
 - (iv) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)
 - (v) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit
- G. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
- (i) Title 30 TAC § 101.352 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
 - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)
 - (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
 - (v) Title 30 TAC § 101.359 (relating to Reporting)
 - (vi) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
 - (vii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
- H. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
- (i) Title 30 TAC § 101.372 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
 - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
 - (iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
 - (v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
 - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
 - A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972, that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation

of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement.

However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

- (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- D. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- E. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- F. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
 - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
 - (iii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)

- (iv) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
 - A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities specified in 30 TAC Chapter 115, Subchapter C, the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 115.221 (relating to Emission Specifications)
 - (ii) Title 30 TAC § 115.222 (relating to Control Requirements)
 - (iii) Title 30 TAC § 115.223 (relating to Alternate Control Requirements)
 - (iv) Title 30 TAC § 115.224 (relating to Inspection Requirements)
 - (v) Title 30 TAC § 115.225 (relating to Testing Requirements)
 - (vi) Title 30 TAC § 115.226 (relating to Recordkeeping Requirements)
- 5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 6. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
- 7. For each gasoline dispensing facility, with a throughput of less than 10,000 gallons per month as specified in 40 CFR Part 63, Subpart CCCCCC, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1380 incorporated by reference):
 - A. Title 40 CFR § 63.11111(e), for records of monthly throughput
 - B. Title 40 CFR § 63.11111(i), for compliance due to increase of throughput
 - C. Title 40 CFR § 63.11113(c), for compliance due to increase of throughput

- D. Title 40 CFR § 63.11115(a), for operation of the source
 - E. Title 40 CFR § 63.11116(a) and (a)(1) - (4), for work practices
 - F. Title 40 CFR § 63.11116(b), for records availability
 - G. Title 40 CFR § 63.11116(d), for portable gasoline containers
8. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

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 MON DAY, YYYY in the application for project 36882), 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:
- 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).
13. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
 - A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
 - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
 - C. Boiler Standard Permit
 - D. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

Compliance Requirements

14. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months, and the certification must be submitted within 30 days after the end of the period being certified.
15. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
 - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
 - (i) For sources in the Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9020:
 - (1) Title 30 TAC § 117.9020(2)(A), (C), and (D)
 - B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.350(c) and (c)(1).
 - C. The permit holder shall comply with the requirements of 30 TAC § 117.354 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.356 for Revision of Final Control Plan.
16. Use of Emission Credits to comply with applicable requirements:

- A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) Offsets for Title 30 TAC Chapter 116
 - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)
 - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
 - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
17. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Permit Location

- 18. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

- 19. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

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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.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
4002-602	SRIC ENGINES	N/A	R7IC15	30 TAC Chapter 117, Subchapter B	No changing attributes.
4002-602	SRIC ENGINES	N/A	63ZZZZ-005	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
4017-501A	SRIC ENGINES	N/A	R7IC15	30 TAC Chapter 117, Subchapter B	No changing attributes.
4017-501A	SRIC ENGINES	N/A	63ZZZZ-005	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
4017-501B	SRIC ENGINES	N/A	R7IC15	30 TAC Chapter 117, Subchapter B	No changing attributes.
4017-501B	SRIC ENGINES	N/A	63ZZZZ-005	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
4030-F1422B	SRIC ENGINES	N/A	R7IC15	30 TAC Chapter 117, Subchapter B	No changing attributes.
4030-F1422B	SRIC ENGINES	N/A	60JJJJ-001	40 CFR Part 60, Subpart JJJJ	No changing attributes.
4030-F1422B	SRIC ENGINES	N/A	63ZZZZ-004	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
4030-F1522B	SRIC ENGINES	N/A	R7IC15	30 TAC Chapter 117, Subchapter B	No changing attributes.
4030-F1522B	SRIC ENGINES	N/A	60JJJJ-001	40 CFR Part 60, Subpart JJJJ	No changing attributes.
4030-F1522B	SRIC ENGINES	N/A	63ZZZZ-004	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
433-725E	SRIC ENGINES	N/A	R7IC15	30 TAC Chapter 117, Subchapter B	No changing attributes.
433-725E	SRIC ENGINES	N/A	63ZZZZ-006	40 CFR Part 63, Subpart ZZZZ	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
CHB-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
CHB-2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
ENG-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FCC-18	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-21	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FCC-21	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-23	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-27	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FCC-27	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7IC11	30 TAC Chapter 117, Subchapter B	No changing attributes.
FCC-27	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc	40 CFR Part 60, Subpart Dc	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
FCC-27N	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
FCC-27N	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7IC11	30 TAC Chapter 117, Subchapter B	No changing attributes.
FCC-27N	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc	40 CFR Part 60, Subpart Dc	No changing attributes.
FCC-51	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-52	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-58	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-61/FCC-76	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-62	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-63	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-64	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
FCC-65	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-66	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-75	PROCESS HEATERS/FURNACES	N/A	R7ICI	30 TAC Chapter 117, Subchapter B	No changing attributes.
FCC-77	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-80	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-82	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-85	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
FCC-86	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-12A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-12B	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
HPC-18	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-23	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-31	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-35	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-36	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-4135-155	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-4135-303	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-52	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-53	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-54	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
HPC-55	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
HPC-ORANGE	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
PLU-10	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
PLU-2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
PLU-3A	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
PLU-4	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
PLU-5	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
PLU-6	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	63VVVVVV	40 CFR Part 63, Subpart VVVVVV	No changing attributes.
PLU-8	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
RDL-5	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
RSC-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
RSC-2	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
RSC-3	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
UTL-BOILER	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
UTL-BOILER	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7IC16	30 TAC Chapter 117, Subchapter B	No changing attributes.
UTL-BOILER	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc-02	40 CFR Part 60, Subpart Dc	No changing attributes.
UTL-PRT1	SOLVENT DEGREASING MACHINES	N/A	R5412	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
UTL-PRT2	SOLVENT DEGREASING MACHINES	N/A	R5412	30 TAC Chapter 115, Degreasing Processes	No changing attributes.
UTL-SUB	STORAGE TANKS/VESSELS	N/A	R5112	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
VSP-9	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R11111	30 TAC Chapter 111, Visible Emissions	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
VSP-9	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	R7ICI2	30 TAC Chapter 117, Subchapter B	No changing attributes.
VSP-9	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60DB	40 CFR Part 60, Subpart Db	No changing attributes.

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)
4002-602	EU	R7ICI5	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
4002-602	EU	63ZZZZ-005	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
4017-501A	EU	R7ICI5	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10),	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	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)
						117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)			
4017-501A	EU	63ZZZZ-005	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
4017-501B	EU	R7ICI5	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	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)
						on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)			
4017-501B	EU	63ZZZZ-005	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
4030-F1422B	EU	R7IC15	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	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)
						situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)			
4030-F1422B	EU	60JJJJ-001	CO	40 CFR Part 60, Subpart JJJJ	§ 60.4233(a) § 1054.105(a) § 60.4231(a) § 60.4234 § 60.4243(a) [G]§ 60.4243(d) § 60.4243(e) § 60.4243(g)	Owners and operators of stationary SI ICE with a maximum engine power less than or equal to 19 KW and manufactured on or after 07/01/2008 must comply with a CO emission limit of 610 g/KW-hr, as stated in 40 CFR 60.4231(a) and 40 CFR 1054.105(a)-Table 1 and 40 CFR 1054-Appendix I(b)(2)-Table 4.	§ 60.4243(e)	§ 60.4243(a)(1) § 60.4243(e) § 60.4245(a) § 60.4245(a)(2) § 60.4245(a)(3)	None
4030-F1422B	EU	60JJJJ-001	HC and NO _x	40 CFR Part 60, Subpart JJJJ	§ 60.4233(a) § 1054.105(a) § 60.4231(a) § 60.4234 § 60.4243(a) [G]§ 60.4243(d) § 60.4243(e) § 60.4243(g)	Owners and operators of stationary SI ICE with a maximum engine power less than or equal to 19 KW and a displacement of greater than or equal to 225cc and manufactured in the 2011 model year or later must comply with an HC+NO _x emission limit of 8.0 g/KW-hr, as stated in 40 CFR 60.4231(a) and 40 CFR 1054.105(a)-Table 1.	§ 60.4243(e)	§ 60.4243(a)(1) § 60.4243(e) § 60.4245(a) § 60.4245(a)(2) § 60.4245(a)(3)	None
4030-F1422B	EU	63ZZZZ-004	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the	None	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)
						requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.			
4030-F1522B	EU	R7ICI5	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	None
4030-F1522B	EU	60JJJJ-001	CO	40 CFR Part 60, Subpart JJJJ	§ 60.4233(a) § 1054.105(a) § 60.4231(a) § 60.4234 § 60.4243(a) [G]§ 60.4243(d) § 60.4243(e) § 60.4243(g)	Owners and operators of stationary SI ICE with a maximum engine power less than or equal to 19 KW and manufactured on or after 07/01/2008 must comply with a CO emission limit of 610 g/KW-hr, as stated in 40 CFR 60.4231(a) and 40 CFR	§ 60.4243(e)	§ 60.4243(a)(1) § 60.4243(e) § 60.4245(a) § 60.4245(a)(2) § 60.4245(a)(3)	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)
						1054.105(a)-Table 1 and 40 CFR 1054-Appendix I(b)(2)-Table 4.			
4030-F1522B	EU	60JJJJ-001	HC and NO _x	40 CFR Part 60, Subpart JJJJ	§ 60.4233(a) § 1054.105(a) § 60.4231(a) § 60.4234 § 60.4243(a) [G]§ 60.4243(d) § 60.4243(e) § 60.4243(g)	Owners and operators of stationary SI ICE with a maximum engine power less than or equal to 19 KW and a displacement of greater than or equal to 225cc and manufactured in the 2011 model year or later must comply with an HC+NO _x emission limit of 8.0 g/KW-hr, as stated in 40 CFR 60.4231(a) and 40 CFR 1054.105(a)-Table 1.	§ 60.4243(e)	§ 60.4243(a)(1) § 60.4243(e) § 60.4245(a) § 60.4245(a)(2) § 60.4245(a)(3)	None
4030-F1522B	EU	63ZZZZ-004	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None
433-725E	EU	R7ICI5	Exempt	30 TAC Chapter 117, Subchapter B	[G]§ 117.303(a)(11) [G]§ 117.310(f)	Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10),	None	§ 117.340(j) § 117.345(f) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6)	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)
						117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B)			
433-725E	EU	63ZZZZ-006	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.5 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(j) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(4) § 63.6640(f)(4)(i)	For each existing emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE with a site rating greater than 500 HP that operates 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE with a site rating greater than 500 HP that operates 24 hours or less per calendar year, located at an area source, you must comply with the requirements as specified in Table 2d.5.a-c.	§ 63.6625(j) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(j) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
CHB-1	EP	R11111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring 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)
						begun after January 31, 1972.			
CHB-2	EP	R11111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
ENG-1	EP	R11111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
FCC-18	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-21	EP	R11111	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 over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring 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)
FCC-21	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-23	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-27	EP	R11111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
FCC-27	EU	R7IC11	CO	30 TAC Chapter 117, Subchapter B	§ 117.325(a)	Where a person can demonstrate that an affected unit cannot attain the carbon monoxide (CO) specifications of § 117.310(c) of this title the executive director may approve emission specifications different from the CO specifications in	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3)

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)
						§ 117.310(c) of this title for that unit.	§ 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)		§ 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
FCC-27	EU	R7IC11	NO _x	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(B) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 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)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(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)
FCC-27	EU	60Dc	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
FCC-27	EU	60Dc	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)

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)
FCC-27	EU	60Dc	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
FCC-27N	EP	R11111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
FCC-27N	EU	R7IC11	CO	30 TAC Chapter 117, Subchapter B	§ 117.325(a)	Where a person can demonstrate that an affected unit cannot attain the carbon monoxide (CO) specifications of § 117.310(c) of this title the executive director may approve emission specifications different from the CO specifications in § 117.310(c) of this title for that unit.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(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) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
FCC-27N	EU	R7IC11	NO _x	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(B) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101,	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A)

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)
					§ 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 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)(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)
FCC-27N	EU	60Dc	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
FCC-27N	EU	60Dc	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
FCC-27N	EU	60Dc	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
FCC-51	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart

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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)
					equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV		VVVVVV		VVVVVV
FCC-52	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-58	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-61/FCC-76	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-62	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder	The permit holder shall comply with the applicable	The permit holder shall comply with the	The permit holder shall comply with the	The permit holder shall comply with the

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)
					shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	requirements of 40 CFR Part 63, Subpart VVVVVV	applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-63	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-64	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-65	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV

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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)
FCC-66	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-75	EU	R7ICI	CO	30 TAC Chapter 117, Subchapter B	§ 117.325(a)	Where a person can demonstrate that an affected unit cannot attain the carbon monoxide (CO) specifications of § 117.310(c) of this title the executive director may approve emission specifications different from the CO specifications in § 117.310(c) of this title for that unit.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(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) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
FCC-75	EU	R7ICI	NO _x	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(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)

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)
						emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	§ 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)		[G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
FCC-77	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-80	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-82	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-85	EU	63VVVVVV	112(B)	40 CFR Part 63,	§ 63.11494	The permit holder shall	The permit holder shall	The permit holder shall	The permit holder shall

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)
			HAPS	Subpart VVVVVV	The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
FCC-86	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-12A	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-12B	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV

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)
					VVVVVV				
HPC-18	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-23	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-31	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-35	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV

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)
					specification requirements of 40 CFR Part 63, Subpart VVVVVV				
HPC-36	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-4135-155	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-4135-303	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-52	EU	63VVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the	The permit holder shall comply with the applicable requirements of 40 CFR	The permit holder shall comply with the applicable monitoring and	The permit holder shall comply with the applicable recordkeeping	The permit holder shall comply with the applicable reporting

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)
					applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	Part 63, Subpart VVVVVV	testing requirements of 40 CFR Part 63, Subpart VVVVVV	requirements of 40 CFR Part 63, Subpart VVVVVV	requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-53	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-54	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
HPC-55	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV

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)
HPC-ORANGE	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
PLU-10	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
PLU-2	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
PLU-3A	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV

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)
					CFR Part 63, Subpart VVVVVV				
PLU-4	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
PLU-5	EU	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
PLU-6	EP	63VVVVVV	112(B) HAPS	40 CFR Part 63, Subpart VVVVVV	§ 63.11494 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV
PLU-8	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	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	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)
						requirements of this division.			
RDL-5	EP	R11111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
RSC-1	EP	R11111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
RSC-2	EP	R11111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
RSC-3	EP	R11111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
UTL-BOILER	EP	R11111	Opacity	30 TAC Chapter 111, Visible	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not	[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)
				Emissions		exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	Monitoring Summary		
UTL-BOILER	EU	R7ICI6	CO	30 TAC Chapter 117, Subchapter B	§ 117.325(a)	Where a person can demonstrate that an affected unit cannot attain the carbon monoxide (CO) specifications of § 117.310(c) of this title the executive director may approve emission specifications different from the CO specifications in § 117.310(c) of this title for that unit.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(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) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)
UTL-BOILER	EU	R7ICI6	NO _x	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(B) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(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)

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)
						specified in § 117.9800 to comply with § 117.320.	§ 117.8000(c)(6) [G]§ 117.8000(d)		
UTL-BOILER	EU	60Dc-02	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
UTL-BOILER	EU	60Dc-02	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
UTL-BOILER	EU	60Dc-02	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
UTL-PRT1	EU	R5412	VOC	30 TAC Chapter 115, Degreasing Processes	§ 115.412(1) § 115.411(1) § 115.411(2) [G]§ 115.412(1)(A) § 115.412(1)(C) § 115.412(1)(D) [G]§ 115.412(1)(F)	No person shall own or operate a system utilizing a VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F), except as exempted in §115.411.	[G]§ 115.415(1) § 115.415(3) ** See Periodic Monitoring Summary	None	None
UTL-PRT2	EU	R5412	VOC	30 TAC Chapter 115, Degreasing Processes	§ 115.412(1) § 115.411(1) § 115.411(2) [G]§ 115.412(1)(A) § 115.412(1)(C) § 115.412(1)(D)	No person shall own or operate a system utilizing a VOC for the cold solvent cleaning of objects without the controls listed in §115.412(1)(A)-(F), except	[G]§ 115.415(1) § 115.415(3) ** See Periodic Monitoring 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)
					[G]§ 115.412(1)(F)	as exempted in §115.411.			
UTL-SUB	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
VSP-9	EP	R11111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
VSP-9	EU	R7ICI2	CO	30 TAC Chapter 117, Subchapter B	§ 117.325(a)	Where a person can demonstrate that an affected unit cannot attain the carbon monoxide (CO) specifications of § 117.310(c) of this title the executive director may approve emission specifications different from the CO specifications in § 117.310(c) of this title for that unit.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(e) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(7) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(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) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7)

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)
VSP-9	EU	R7ICI2	NO _x	30 TAC Chapter 117, Subchapter B	§ 117.310(d)(3) § 117.310(a) § 117.310(a)(1)(A) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(3)	An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320.	[G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(c) § 117.335(d) § 117.335(f) § 117.335(f)(2) § 117.335(g) § 117.340(a) § 117.340(b)(1) § 117.340(b)(3) § 117.340(c)(1) [G]§ 117.340(c)(3) [G]§ 117.340(g) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.8100(b) § 117.8100(b)(1) [G]§ 117.8100(b)(1)(A) § 117.8100(b)(1)(B) § 117.8100(b)(2) § 117.8100(b)(3) § 117.8100(b)(3)(A) § 117.8100(b)(3)(B) § 117.8100(b)(4) § 117.8100(b)(4)(A) § 117.8100(b)(4)(A)(i) § 117.8100(b)(4)(A)(i)(I) § 117.8100(b)(4)(A)(i)(II) [G]§ 117.8100(b)(4)(A)(ii) [G]§ 117.8100(b)(4)(B) § 117.8100(b)(4)(C) § 117.8100(b)(4)(C)(i) § 117.8100(b)(4)(C)(ii) § 117.8100(b)(4)(C)(iii) § 117.8100(b)(4)(C)(iii)(I) § 117.8100(b)(4)(C)(iii)(II) § 117.8100(b)(4)(C)(iii)(II) (-a-)	§ 117.345(a) § 117.345(f) § 117.345(f)(1) [G]§ 117.345(f)(2) § 117.345(f)(8) § 117.345(f)(9)	§ 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.345(d) § 117.345(d)(3) § 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) [G]§ 117.8010(8) § 117.8100(c)

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)
							§ 117.8100(b)(5) § 117.8100(b)(6)		
VSP-9	EU	60DB	NO _x	40 CFR Part 60, Subpart Db	§ 60.44b(a)(1)(i) § 60.44b(h) § 60.44b(i) § 60.46b(a)	Except as in §60.44b(k), (l), on/after §60.8 test, no facility combusting natural gas and distillate oil (low heat release rate) shall discharge gases containing NO _x in excess of 43 ng/J heat input.	§ 60.46b(c) § 60.46b(f) § 60.48b(g)(2)	[G]§ 60.49b(c) [G]§ 60.49b(d) [G]§ 60.49b(g) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3) § 60.49b(b) [G]§ 60.49b(c) § 60.49b(h) § 60.49b(v) § 60.49b(w)
VSP-9	EU	60DB	PM	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
VSP-9	EU	60DB	PM (Opacity)	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)
VSP-9	EU	60DB	SO ₂	40 CFR Part 60, Subpart Db	§ 60.40b(a)	This subpart applies to each steam generating unit constructed, modified, or reconstructed after 6/19/84, and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(3)

Additional Monitoring Requirements

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Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CHB-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: It is a deviation if opacity is greater than 20%.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CHB-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: It is a deviation if opacity is greater than 20%.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: ENG-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: It is a deviation if opacity is greater than 20%.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: FCC-21	
Control Device ID No.: FABRIC FILTER	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(C)
Monitoring Information	
Indicator: Particulate emissions	
Minimum Frequency: Once per hour	
Averaging Period: N/A	
<p>Deviation Limit: It is a deviation if the signal exceeds 75 and the alarm goes off, or if the baghouse is brought back into service before conducting any repairs, unless the baghouse is shutdown and inspected for possible repairs within 1 hour of alarm event.</p> <p>Periodic Monitoring Text: Monitor and record the bag leak detection signals. Operate, calibrate and maintain bag leak detectors in accordance with detectors manufacturer's guidance and specification. Establish a warning signal to trigger a shutdown of the system if measurement exceeds a specific level. If the measurements have exceeded the specific level they will be considered and reported as a deviation, unless the baghouse is shutdown and inspected for possible repairs within 1 hour of an alarm event. Failure to conduct any necessary repairs before the baghouse is brought back into service shall be reported as a deviation. Records shall be maintained of each bag leak detection alarm event, time of the alarm event, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action taken. Monitoring frequency will be once per hour.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: FCC-27	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: It is a deviation if opacity is greater than 20%.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: FCC-27N	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Opacity greater than 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: RDL-5	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: It is a deviation if opacity is greater than 20%.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: RSC-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: It is a deviation if opacity is greater than 20%.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: RSC-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: It is a deviation if opacity is greater than 20%.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: RSC-3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Opacity greater than 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UTL-BOILER	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: Opacity greater than 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UTL-PRT1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412
Pollutant: VOC	Main Standard: § 115.412(1)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: It is a deviation if any monitoring data indicates that the cold cleaner is not in compliance with the applicable requirements of 30 TAC 115.412(1)(A)-(F).	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: UTL-PRT2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 115, Degreasing Processes	SOP Index No.: R5412
Pollutant: VOC	Main Standard: § 115.412(1)
Monitoring Information	
Indicator: Visual Inspection	
Minimum Frequency: Monthly	
Averaging Period: N/A	
Deviation Limit: It is a deviation if any monitoring data indicates that the cold cleaner is not in compliance with the applicable requirements of 30 TAC 115.412(1)(A)-(F).	
Periodic Monitoring Text: Inspect equipment and record data monthly to ensure compliance with any applicable requirements in § 115.412(1)(A)-(F). Any monitoring data which indicates that the cold cleaner is not in compliance with the applicable requirements of § 115.412(1)(A)-(F) shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: VSP-9	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R11111
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: once per calendar quarter	
Averaging Period: N/A	
Deviation Limit: It is a deviation if opacity is greater than 20%.	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

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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
431-501	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
432-502	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
432-503	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
432-510	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
434-550	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
434-570	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
CHB-1	N/A	30 TAC Chapter 117, Subchapter B	Heat input capacity is less than 2 MMBtu/hr.
CHB-1	N/A	40 CFR Part 60, Subpart Db	Heat input capacity is less than 100 MMBtu/hr.
CHB-1	N/A	40 CFR Part 60, Subpart Dc	Heat input capacity is less than 10 MMBtu/hr.
CHB-1	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler.
CHB-2	N/A	30 TAC Chapter 117, Subchapter B	Heat input capacity is less than 2 MMBtu/hr.
CHB-2	N/A	40 CFR Part 60, Subpart Db	Heat input capacity is less than 100 MMBtu/hr.
CHB-2	N/A	40 CFR Part 60, Subpart Dc	Heat input capacity is less than 10 MMBtu/hr.

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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
CHB-2	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler.
ENG-1	N/A	30 TAC Chapter 117, Subchapter B	Heat input capacity is less than 2 MMBtu/hr.
ENG-1	N/A	40 CFR Part 60, Subpart Db	Heat input capacity is less than 100 MMBtu/hr.
ENG-1	N/A	40 CFR Part 60, Subpart Dc	Heat input capacity is less than 10 MMBtu/hr.
ENG-1	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler.
FCC-10	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-100	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-102	N/A	40 CFR Part 60, Subpart Kb	Unit does not store a VOC.
FCC-102	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-102A	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-109	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-11	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-110	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs

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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
			are not present in the CMPU as feedstock, byproducts or products.
FCC-112	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-113	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-114	N/A	30 TAC Chapter 115, Storage of VOCs	Unit does not store a VOC.
FCC-114	N/A	40 CFR Part 60, Subpart Kb	Unit does not store a VOL.
FCC-115	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-12	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-14	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-15	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-16	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-19	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			are not present in the CMPU as feedstock, byproducts or products.
FCC-20	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-27	N/A	40 CFR Part 60, Subpart D	Heat input capacity is less than 250 MMBtu/hr.
FCC-27	N/A	40 CFR Part 60, Subpart Db	Heat input capacity is less than 100 MMBtu/hr.
FCC-27	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler.
FCC-27	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-27N	N/A	40 CFR Part 60, Subpart D	Heat input capacity is less than 250 MM BTU/hr.
FCC-27N	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler.
FCC-34	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-40	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-41	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-44	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.

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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
FCC-46	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-53	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-54	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-55	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-68	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-69	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-7	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-70	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-71	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.

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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
FCC-74	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-81	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-83	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-84	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-87	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-95	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-96	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-99A	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
FCC-99B	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.

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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
FCC-CT	N/A	40 CFR Part 63, Subpart Q	The unit has not used compounds containing chromium on or after September 8, 1994.
FCC-FUG	N/A	40 CFR Part 60, Subpart VV	This is not a synthetic organic chemical manufacturing industry because the facility does not produce any of the chemicals listed in §60.489.
HPC-16	N/A	30 TAC Chapter 115, Storage of VOCs	The vessel stores something other than a VOC.
HPC-17	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-2	N/A	30 TAC Chapter 115, Storage of VOCs	The vessel stores something other than a VOC.
HPC-24	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-24A	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-24B	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-3	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-30	N/A	30 TAC Chapter 115, Storage of VOCs	Unit does not store a VOC.
HPC-30	N/A	40 CFR Part 60, Subpart Kb	Unit does not store a VOL.
HPC-32	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs

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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
			are not present in the CMPU as feedstock, byproducts or products.
HPC-33	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-34	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-44	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-46	N/A	30 TAC Chapter 115, Storage of VOCs	The vessel stores something other than a VOC.
HPC-48	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-48A	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-56	N/A	30 TAC Chapter 115, Storage of VOCs	The vessel stores something other than a VOC.
HPC-60	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
HPC-FUG	N/A	40 CFR Part 60, Subpart VV	This is not a synthetic organic chemical manufacturing industry because the facility does not produce any of the chemicals listed in §60.489.

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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
LOG-HOPPER	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
PLU-1	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
PLU-11	N/A	40 CFR Part 63, Subpart Q	The unit has not used compounds containing chromium on or after September 8, 1994.
PLU-3B	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
PLU-7	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
PLU-8	N/A	40 CFR Part 60, Subpart Kb	Storage tank has a design capacity less than 75 cubic meters.
PLU-FUG	N/A	40 CFR Part 60, Subpart VV	The facility does not produce any of the chemicals listed in § 60.489, so it is not in the synthetic organic chemicals manufacturing industry.
PLU-T5505	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
RDL-1	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
RDL-2	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs

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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
			are not present in the CMPU as feedstock, byproducts or products.
RDL-3	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
RDL-5	N/A	30 TAC Chapter 117, Subchapter B	Boiler has a maximum rated capacity less than 2 MMBtu/hr.
RDL-5	N/A	40 CFR Part 60, Subpart D	Boiler heat input rate is less than 250 MMBtu/hr.
RDL-5	N/A	40 CFR Part 60, Subpart Db	Boiler heat input is less than 100 MMBtu/hr.
RDL-5	N/A	40 CFR Part 60, Subpart Dc	Boiler heat input is less than 10 MMBtu/hr.
RDL-7	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
RSC-1	N/A	30 TAC Chapter 117, Subchapter B	Heat input capacity is less than 2 MMBtu/hr.
RSC-1	N/A	40 CFR Part 60, Subpart Db	Heat input capacity is less than 100 MMBtu/hr.
RSC-1	N/A	40 CFR Part 60, Subpart Dc	Heat input capacity is less than 10 MMBtu/hr.
RSC-1	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler.
RSC-2	N/A	30 TAC Chapter 117, Subchapter B	Heat input capacity is less than 2 MMBtu/hr.
RSC-2	N/A	40 CFR Part 60, Subpart Db	Heat input capacity is less than 100 MMBtu/hr.
RSC-2	N/A	40 CFR Part 60, Subpart Dc	Heat input capacity is less than 10 MMBtu/hr.
RSC-2	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler.
RSC-3	N/A	30 TAC Chapter 117, Subchapter B	Heat input capacity is less than 2 MMBtu/hr.
RSC-3	N/A	40 CFR Part 60, Subpart Db	Heat input capacity is less than 100 MMBtu/hr.

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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
RSC-3	N/A	40 CFR Part 60, Subpart Dc	Heat input capacity is less than 10 MMBtu/hr.
RSC-3	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler.
TEMP-CT	N/A	40 CFR Part 63, Subpart Q	The unit has not used compounds containing chromium on or after September 8, 1994.
TEMP-TOTE1	N/A	30 TAC Chapter 115, Storage of VOCs	Storage tank capacity is less than 1,000 gallons.
TEMP-TOTE1	N/A	40 CFR Part 60, Subpart Kb	Storage vessel has a design capacity less than 75 cubic meters.
TEMP-TOTE2	N/A	30 TAC Chapter 115, Storage of VOCs	Storage tank capacity is less than 1,000 gallons.
TEMP-TOTE2	N/A	40 CFR Part 60, Subpart Kb	Storage vessel has a design capacity less than 75 cubic meters.
TEMP-TRAILER	N/A	40 CFR Part 60, Subpart Kb	Storage tank has a design capacity less than 75 cubic meters.
UTL-BOILER	N/A	40 CFR Part 60, Subpart D	Heat input capacity is less than 250 MMBtu/hr.
UTL-BOILER	N/A	40 CFR Part 60, Subpart Db	Heat input capacity is less than 100 MMBtu/hr.
UTL-BOILER	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler.
UTL-BOILER	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPI as feedstock, byproducts or products.
UTL-DSL	N/A	30 TAC Chapter 115, Storage of VOCs	Storage tank capacity is less than 1,000 gallons.
UTL-GAS	N/A	30 TAC Chapter 115, Storage of VOCs	Storage tank capacity is less than 1,000 gallons.
UTL-MERC1	N/A	30 TAC Chapter 115, Storage of VOCs	Storage tank capacity is less than 1,000 gallons.
UTL-MERC2	N/A	30 TAC Chapter 115, Storage of VOCs	Storage tank capacity is less than 1,000 gallons.
UTL-SUB	N/A	40 CFR Part 60, Subpart Kb	Storage tank has a design capacity less than 75

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Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
			cubic meters.
VSP-1	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
VSP-10	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
VSP-11	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
VSP-12	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
VSP-13	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
VSP-2	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
VSP-3	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
VSP-4	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.

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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
VSP-7	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
VSP-8	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
VSP-9	N/A	40 CFR Part 60, Subpart D	Heat input capacity is less than 250 MMBtu/hr.
VSP-9	N/A	40 CFR Part 60, Subpart Dc	Heat input capacity is greater than 100 MMBtu/hr.
VSP-9	N/A	40 CFR Part 63, Subpart JJJJJJ	Unit is a gas fired boiler.
VSP-CASCADE	N/A	40 CFR Part 63, Subpart VVVVVV	40 CFR Part 63 Subpart VVVVVV Table 1 HAPs are not present in the CMPU as feedstock, byproducts or products.
VSP-FUG	N/A	40 CFR Part 60, Subpart VV	This is not a synthetic organic chemical manufacturing industry because the facility does not produce any of the chemicals listed in §60.489.

New Source Review Authorization References

New Source Review Authorization References	80
New Source Review Authorization References by Emission Unit	82

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.

Nonattainment (NA) Permits	
NA Permit No.: N022	Issuance Date: 04/12/2021
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.: 2487	Issuance Date: 12/08/2020
Authorization No.: 9402	Issuance Date: 04/12/2021
Authorization No.: 9626	Issuance Date: 02/05/2021
Authorization No.: 21995	Issuance Date: 05/06/2019
Authorization No.: 76621	Issuance Date: 08/26/2019
Authorization No.: 106291	Issuance Date: 03/01/2024
Authorization No.: 164264	Issuance Date: 03/25/2021
Authorization No.: 171411	Issuance Date: 01/12/2023
Authorization No.: 173721	Issuance Date: 10/04/2023
Authorization No.: 176091	Issuance Date: 05/01/2024
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 7	Version No./Date: 09/12/1989
Number: 106.122	Version No./Date: 09/04/2000
Number: 106.124	Version No./Date: 09/04/2000
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 03/14/1997
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.372	Version No./Date: 09/04/2000
Number: 106.373	Version No./Date: 09/04/2000
Number: 106.433	Version No./Date: 03/14/1997
Number: 106.433	Version No./Date: 09/04/2000
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 07/08/1998
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000

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.

Number: 106.473	Version No./Date: 03/14/1997
Number: 106.478	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 03/14/1997
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 03/14/1997
Number: 106.512	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 06/13/2001

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**
4002-602	EMERGENCY GENERATOR (EMERGENHPC)	106.511/09/04/2000
4017-501A	SUBSTATION GENERATOR (EMERGEN1)	106.511/09/04/2000
4017-501B	SUBSTATION GENERATOR (EMERGEN2)	106.511/09/04/2000
4030-F1422B	BACKUP GENERATOR (14TH ST GEN)	106.512/09/04/2000
4030-F1522B	BACKUP GENERATOR (15TH ST GEN)	106.512/09/04/2000
431-501	FCC 501 BELT FILTER	106.262/11/01/2003 [163421]
432-502	FCC 502 BELT FILTER	106.262/11/01/2003 [163421]
432-503	FCC 503 BELT FILTER	106.262/11/01/2003 [163421]
432-510	FCC 510 BELT FILTER	106.262/11/01/2003 [163421]
433-725E	GENERATOR (FCC GEN)	106.512/09/04/2000
434-550	FCC 550 BELT FILTER	106.262/11/01/2003 [163421]
434-570	FCC 570 BELT FILTER	106.262/11/01/2003 [163421]
CHB-1	CHANGE HOUSE BOILER #1	7/09/12/1989
CHB-2	CHANGE HOUSE BOILER #2	7/09/12/1989
ENG-1	ENGINEERING BUILDING BOILER	7/09/12/1989
FCC-10	2ND MOLSIEVE FLASH DRYER	9402, N022
FCC-100	HCS FILTER CAKE TANK	9402, N022, 106.261/11/01/2003 [114394], 106.262/11/01/2003 [114394]
FCC-102	PHOSPHINIC ACID STORAGE TANK	9402, N022
FCC-102A	FINAL PRODUCT SILO BAGHOUSE	9402, N022
FCC-109	INTERMEDIATES SILO BAGHOUSE	9402, N022

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**
FCC-11	RESLURRY TANK BAG	9402, N022
FCC-110	INTERMEDIATES BAG UNLOADING	9402, N022
FCC-112	TRUCK LOADING BAGHOUSE	9402, N022
FCC-113	PORTACLAY UNLOADING BAGHOUSE	9402, N022, 106.262/11/01/2003 [160822]
FCC-114	MOTHOR LIQUIOR TANK	106.261/11/01/2003 [160774], 106.262/11/01/2003 [160774]
FCC-115	BAGHOUSE	164264
FCC-12	2ND MOLSEIVE CALCINER	9402, N022
FCC-14	RARE EARTH CHLORIDE STORAGE TANK	9402, N022
FCC-15	AMMONIA SCRUBBER	9402, N022
FCC-16	PORTACLAY/RESLURRY VENT BAG FILTER	9402, N022
FCC-18	STRIKE TANKS VENT	9402, N022
FCC-19	KAOLIN DOSING HOPPER BAG FILTER 2	9402, N022, 106.262/11/01/2003 [131209]
FCC-20	C ALUMINA STORAGE SILO BAG FILTER	9402, N022
FCC-21	SPRAY DRYER	9402, N022, 106.261/11/01/2003 [102755]
FCC-23	SEPARATOR FINES BAG FILTER	9402, N022, 106.261/11/01/2003 [115923], 106.262/11/01/2003 [160822, 115923]
FCC-27	BOILER	9402, N022
FCC-27N	FCC BOILER	176091
FCC-34	AMMONIA ABSORBER	9402, N022
FCC-40	KAOLIN UNLOADING BAG FILTER	9402, N022

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**
FCC-41	SULFURIC ACID STORAGE TANK	9402, N022
FCC-44	AMMONIA STORAGE TANK/SCRUBBER	9402, N022
FCC-46	AMMONIA SCRUBBER	9402, N022, 106.262/11/01/2003 [162906, 163660, 163642, 163421]
FCC-51	CRUDE PRODUCT BAG FILTER	9402, N022, 106.261/11/01/2003 [96731]
FCC-52	CRUDE PRODUCT BAG FILTER	9402, N022
FCC-53	CRUDE PRODUCT COLLECTING HOPPER FILTER BAG	9402, N022, 106.261/11/01/2003 [96731]
FCC-54	CRUDE PRODUCT DOSING HIPPER FILTER	9402, N022, 106.261/11/01/2003 [96731]
FCC-55	VENTILATION AIR BAG FILTER	9402, N022
FCC-58	PRODUCT DIST. CONVEYOR BAG FILTER	9402, N022
FCC-61/FCC-76	PRODUCT AIR SLIDE BAG FILTER	9402, N022
FCC-62	PRODUCT AIR SLIDE BAG FILTER	9402, N022
FCC-63	WEIGH SCALE BAG FILTER	9402, N022
FCC-64	BLENDED PRODUCT BAG FILTER	9402, N022
FCC-65	BULK LOADING STATION BAG FILTER	9402, N022
FCC-66	PORTABLE BAG FILTER	9402, N022
FCC-68	KAOLIN SILO BAG FILTER	9402, N022
FCC-69	C ALUMINA DOSING BAG FILTER	9402, N022, 106.262/11/01/2003 [131209]
FCC-7	PHOSPHORIC ACID RAW MATERIAL STORAGE TANK	9402, N022
FCC-70	BOC SILO BAG FILTER	9402, N022
FCC-71	BOC DOSING BAG FILTER	9402, N022

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**
FCC-74	FINAL PRODUCT CALCINER II	9402, N022
FCC-75	SCR SYSTEM (THERMAL OXIDIZER/SCR)	9402, N022
FCC-77	FC BOC STORAGE SILO BAG FILTER	9402, N022
FCC-80	PORTABLE BAG FILTER II	9402, N022, 106.261/11/01/2003 [71389], 106.512/06/13/2001
FCC-81	TOTE BIN BAG FILTER	9402, N022
FCC-82	PORTABLE BAG FILTER	9402, N022
FCC-83	FCC SUMP	106.262/11/01/2003 [108971]
FCC-84	FUNDABAC FILTER FEED TANK	106.261/11/01/2003 [160774], 106.262/11/01/2003 [103969, 160774]
FCC-85	LOGISTICS BAGHOUSE	106291
FCC-86	LOADOUT BAGHOUSE	106291, 106.261/11/01/2003 [114642], 106.262/11/01/2003 [114642]
FCC-87	OPEN DOME TRUCK LOADING	106.261/11/01/2003 [114491], 106.262/11/01/2003 [114491]
FCC-95	VCLA STORAGE TANKS	106.261/11/01/2003 [115923], 106.262/11/01/2003 [115923]
FCC-96	VCLA STORAGE TANKS 2	106.261/11/01/2003 [115923], 106.262/11/01/2003 [115923]
FCC-99A	ALUMINA SUSPENSION TANK 2 TRAIN A	106.262/11/01/2003 [131209]
FCC-99B	ALUMINA SUSPENSION TANK 2 TRAIN B	106.262/11/01/2003 [131209]
FCC-CT	FCC COOLING TOWER	106.371/09/04/2000
FCC-FUG	FCC FUGITIVES	9402, N022, 106.261/11/01/2003 [114394, 115923,

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**
		172354, 160774, 155375], 106.262/11/01/2003 [108971, 104107, 115923, 155375, 151298, 114394, 170968, 161695, 160774, 174457, 172354, 171969], 106.264/09/04/2000 [170968]
HPC-12A	SPRAY DRYER	2487, 106.261/11/01/2003 [160024], 106.262/11/01/2003 [160024]
HPC-12B	NOX SCRUBBER	2487
HPC-16	NICKEL NITRATE TANK	2487
HPC-17	HEPA FILTER FOR MOLOX BIN	2487, 106.261/11/01/2003 [76400]
HPC-18	DUST CONVEYOR BAG FILTER	2487
HPC-2	NITRIC ACID TANK	2487
HPC-23	BELT DRYER	2487
HPC-24	CALCINER 1A BYPASS STACK	2487
HPC-24A	CALCINER 1B BYPASS STACK	2487
HPC-24B	CALCINER 2	2487
HPC-3	BOC SILO BAG FILTER	2487
HPC-30	MIX DOSE TANK 2	2487
HPC-31	BASE STORAGE HOPPER BAG FILTER	2487
HPC-32	BASE BIN A BAG FILTER	2487
HPC-33	BASE BIN B BAG FILTER	2487
HPC-34	BASE BIN C BAG FILTER	2487
HPC-35	DUST BIN A BAG FILTER	2487

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**
HPC-36	DUST BIN B BAG FILTER	2487
HPC-4135-155	MANUAL FEED HOPPER RED	2487
HPC-4135-303	MANUAL FEED HOPPER GREEN	2487
HPC-44	SOLUTION REACTOR	2487
HPC-46	COBALT NITRATE TANK	2487
HPC-48	FINAL PRODUCT LOADOUT BAG FILTER	2487
HPC-48A	FINAL PRODUCT LOADOUT BAG FILTER MAINTENANCE	2487
HPC-52	EXTRUDER FEED HOPPER	2487
HPC-53	MANUAL FEED HOPPER	2487
HPC-54	3RD IMPREG. DRYER BAG FILTER	2487, 106.261/11/01/2003 [155375], 106.262/11/01/2003 [155375]
HPC-55	3RD IMPREG. AREA VENT BAG FILTER	2487
HPC-56	DILUTE NITRIC ACID TANK	2487
HPC-60	PE RECEIVER	2487
HPC-FUG	HPC FUGITIVES	2487, 106.261/11/01/2003 [160774, 115923], 106.262/11/01/2003 [160774, 115923]
HPC-ORANGE	MANUAL FEED HOPPER ORANGE	2487, 106.261/11/01/2003 [115923], 106.262/11/01/2003 [115923]
LOG-HOPPER	FCC LOGISTICS HOPPER	106.261/11/01/2003 [175145], 106.262/11/01/2003 [175145]
PLU-1	HPC FLASH DRYER	76621
PLU-10	METAL SOLS HEPA FILTER	76621

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**
PLU-11	COOLING TOWER	106.371/09/04/2000
PLU-2	DUST SILO BAG/HEPA FILTER	76621
PLU-3A	CALCINER	76621
PLU-3B	CALCINER	76621
PLU-4	DRYER	76621, 106.261/11/01/2003 [172244]
PLU-5	VACUUM SYSTEM HEPA FILTER	76621
PLU-6	HEPA FILTER	76621
PLU-7	HEPA FILTER	76621
PLU-8	ACETIC ACID TANK	76621
PLU-FUG	FUGITIVES	76621, 106.261/11/01/2003 [115923, 168488, 162906, 160774, 175145, 175377, 172244], 106.262/11/01/2003 [115923, 168488, 162906, 160774, 175145, 175377]
PLU-T5505	SOLUTIONS REACTOR	106.261/11/01/2003 [172244], 106.262/11/01/2003 [172244]
RDL-1	SPRAY DRYER NO. 1	9626, 106.262/11/01/2003 [104859]
RDL-2	SPRAY DRYER NO. 2	9626, 106.262/11/01/2003 [104859]
RDL-3	AMMONIA SCRUBBER	9626
RDL-5	BOILER	9626
RDL-5	STEAM BOILER	9626
RDL-7	DUST COLLECTOR SYSTEM	9626, 106.261/11/01/2003 [45951], 106.262/11/01/2003 [104859, 45951, 56753, 70381]

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**
RSC-1	RESEARCH BOILER #1 (RDB-1)	106.183/09/04/2000 [110529]
RSC-2	RESEARCH BOILER #2 (RDB-2)	7/09/12/1989
RSC-2	RESEARCH BOILER #2 RDB-2)	7/09/12/1989
RSC-3	RESEARCH BOILER #3	106.183/09/04/2000
TEMP-CT	TEMPORARY COOLING TOWER	106.371/09/04/2000
TEMP-TOTE1	RESUPPLY TOTE	106.261/11/01/2003 [172244]
TEMP-TOTE2	TEMPORARY STORAGE TOTE	106.261/11/01/2003 [172244]
TEMP-TRAILER	TEMPORARY TRAILER	106.261/11/01/2003 [172244]
UTL-BOILER	BACK-UP BOILER	171411
UTL-DSL	FORKLIFT DIESEL TANK	106.473/03/14/1997
UTL-GAS	FORKLIFT GASOLINE TANK	106.473/03/14/1997
UTL-MERC1	METHYL MERCAPTAN TANK 1	106.473/03/14/1997
UTL-MERC2	METHYL MERCAPTAN TANK 2	106.473/03/14/1997
UTL-PRT1	CENTRAL SHOP PARTS CLEANER	106.454/07/08/1998, 106.454/11/01/2001
UTL-PRT2	SATELLITE SHOP PARTS CLEANER	106.454/07/08/1998, 106.454/11/01/2001
UTL-SUB	SUBSTATION DIESEL TANK	106.473/03/14/1997
VSP-1	F-1421 FLASH DRYER BAG FILTER	21995, 106.261/11/01/2003 [174351]
VSP-10	TANK T-1423	21995
VSP-11	TANK T-1523	21995
VSP-12	F-1422 CALCINER	21995, 106.261/11/01/2003 [174351]
VSP-13	F-1522 CALCINER	21995, 106.261/11/01/2003 [174351]

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**
VSP-2	F-1521 FLASH DRYER BAG FILTER	21995, 106.261/11/01/2003 [174351]
VSP-3	VACUUM VENT	21995
VSP-4	C-1822 AMMONIA STRIPPER VENT SCRUBBER	21995
VSP-7	HCL TANK SCRUBBER	21995
VSP-8	NH3 TANK VENT SCRUBBER	21995
VSP-9	BOILER	21995
VSP-CASCADE	CASCADE REACTOR VENT	21995, 106.261/11/01/2003 [115923], 106.262/11/01/2003 [115923]
VSP-FUG	VSP FUGITIVES	21995, 106.261/11/01/2003 [115923, 114394, 172354, 168488, 160774], 106.262/11/01/2003 [151298, 115923, 114394, 161695, 160774, 156185, 172354, 168488, 162906, 174457, 172354, 170968], 106.264/09/04/2000 [170968]

**This column may include Permit by Rule (PBR) numbers and version dates, PBR Registration numbers in brackets, Standard Permit Registration numbers, Minor NSR permit numbers, and Major NSR permit numbers.

Appendix A

Acronym List 92

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	actual cubic feet per minute
AMOC	alternate means of control
ARP	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA	Beaumont/Port Arthur (nonattainment area)
CAM	Compliance Assurance Monitoring
CD	control device
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
COMS	continuous opacity monitoring system
CVS	closed vent system
D/FW	Dallas/Fort Worth (nonattainment area)
EP	emission point
EPA	U.S. Environmental Protection Agency
EU	emission unit
FCAA Amendments	Federal Clean Air Act Amendments
FOP	federal operating permit
gr/100 scf	grains per 100 standard cubic feet
HAP	hazardous air pollutant
H/G/B	Houston/Galveston/Brazoria (nonattainment area)
H ₂ S	hydrogen sulfide
ID No.	identification number
lb/hr	pound(s) per hour
MACT	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr	Million British thermal units per hour
NA	nonattainment
N/A	not applicable
NADB	National Allowance Data Base
NESHAP	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO _x	nitrogen oxides
NSPS	New Source Performance Standard (40 CFR Part 60)
NSR	New Source Review
ORIS	Office of Regulatory Information Systems
Pb	lead
PBR	Permit By Rule
PEMS	predictive emissions monitoring system
PM	particulate matter
ppmv	parts per million by volume
PRO	process unit
PSD	prevention of significant deterioration
psia	pounds per square inch absolute
SIP	state implementation plan
SO ₂	sulfur dioxide
TCEQ	Texas Commission on Environmental Quality
TSP	total suspended particulate
TVP	true vapor pressure
U.S.C.	United States Code
VOC	volatile organic compound

Appendix B

Major NSR Summary Table 94

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
FCC-10	2 nd Molsieve Flash Dryer	VOC	0.07	0.26	14		
		NO _x	1.94	6.87			
		SO ₂	< 0.01	0.03			
		PM	0.41	1.45			
		PM ₁₀	0.41	1.45			
		PM _{2.5}	0.41	1.45			
		CO	1.13	4.02			
FCC-11	Reslurry Tank Bag Filter	PM	0.04	0.16	14		
		PM ₁₀	0.04	0.16			
		PM _{2.5}	0.04	0.16			
FCC-12	2 nd Molsieve Calciner	VOC	0.03	0.12			
		NO _x	0.69	3.01			
		SO ₂	< 0.01	0.01			
		PM	0.04	0.16			
		PM ₁₀	0.04	0.16			
		PM _{2.5}	0.04	0.16			

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		CO	0.40	1.76			
FCC-14	Rare Earth Chloride Storage Tank	HCl	< 0.01	< 0.01	30	30	30
FCC-15	Ammonia Scrubber	NH ₃	0.17	0.75			
FCC-16	Portaclay/Reslurry Vent Bay Filter	PM	0.02	0.11	14		
		PM ₁₀	0.02	0.11			
		PM _{2.5}	0.02	0.11			
FCC-19	Kaolin Dosing Hopper Bag Filter 2	PM	0.26	1.16	14		
		PM ₁₀	0.26	1.16			
		PM _{2.5}	0.26	1.16			
FCC-20	C Alumina Storage Silo Bag Filter	PM	0.11	0.48	14		
		PM ₁₀	0.11	0.48			
		PM _{2.5}	0.11	0.48			
FCC-21	Spray Dryer Bag Filter	VOC	1.05	4.22			
		NO _x	13.51	54.49			
		SO ₂	0.11	0.46			

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM	7.91	31.54	14, 17	17	17
		PM ₁₀	7.91	31.54			
		PM _{2.5}	7.91	31.54			
		CO	15.98	64.43			
		NH ₃	5.00	21.90			
		HNO ₃	7.50	32.85			
FCC-23	Separator Fines Bag Filter	PM	0.33	1.31	7, 14	7	7
		PM ₁₀	0.33	1.31			
		PM _{2.5}	0.33	1.31			
FCC-27	FCC Boiler	VOC	0.53	2.33	6, 9, 12, 13, 17	6, 9, 12, 13. 19	6, 12, 13, 17
		NO _x	3.57	15.61			
		SO ₂	0.06	0.25			
		PM	0.73	3.22			
		PM ₁₀	0.73	3.22			
		PM _{2.5}	0.73	3.22			
		CO	8.11	35.54			

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
FCC-34	Ammonia Absorber	NH ₃	0.68	2.98			
FCC-40	Kaolin Unloading Bag Filter	PM	0.11	0.24	14		
		PM ₁₀	0.11	0.24			
		PM _{2.5}	0.11	0.24			
FCC-41	Sulfuric Acid Storage Tank	H ₂ SO ₄	< 0.01	< 0.01	30	30	30
		SO ₃	< 0.01	< 0.01			
FCC-44	Ammonia Storage Tank/Scrubber	NH ₃	0.19	0.04	22, 24, 30	22, 24, 30	22, 24, 30
FCC-46	Ammonia Scrubber	NH ₃ (6)	0.07	0.31	17, 23, 24	17, 23, 24, 25	17, 23, 24, 25
		HCl	< 0.01	< 0.01			
FCC-51	Crude Product Bag Filter	PM	0.07	0.28	7, 14	7	7
		PM ₁₀	0.07	0.28			
		PM _{2.5}	0.07	0.28			
FCC-52	Crude Product Bag Filter	PM	0.07	0.28	7, 14	7	7
		PM ₁₀	0.07	0.28			
		PM _{2.5}	0.07	0.28			

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
FCC-53	Crude Product Collecting Hopper Bag Filter	PM	0.01	0.06	14		
		PM ₁₀	0.01	0.06			
		PM _{2.5}	0.01	0.06			
FCC-54	Crude Product Dosing Hopper Bag Filter	PM	0.03	0.11	14		
		PM ₁₀	0.03	0.11			
		PM _{2.5}	0.03	0.11			
FCC-55	Ventilation Air Bag Filter	PM	0.01	0.05	14		
		PM ₁₀	0.01	0.05			
		PM _{2.5}	0.01	0.05			
FCC-58	Product Dist. Conveyor Bag Filter	PM	0.22	0.96	7, 14	7	7
		PM ₁₀	0.22	0.96			
		PM _{2.5}	0.22	0.96			
FCC-61	Product Air Slide Bag Filter I (7)	PM	0.07	0.32	7, 14	7	7
		PM ₁₀	0.07	0.32			
		PM _{2.5}	0.07	0.32			
FCC-62	Product Air Slide Bag	PM	0.08	0.36			

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Filter II	PM ₁₀	0.08	0.36	7, 14	7	7
		PM _{2.5}	0.08	0.36			
FCC-63	Weigh Scale Bag Filter	PM	0.38	1.66	7, 14	7	7
		PM ₁₀	0.38	1.66			
		PM _{2.5}	0.38	1.66			
FCC-64	Blended Product Bag Filter	PM	0.28	1.24	7, 14	7	7
		PM ₁₀	0.28	1.24			
		PM _{2.5}	0.28	1.24			
FCC-65	Bulk Loading Station Bag Filter	PM	0.28	1.21	7, 14	7	7
		PM ₁₀	0.28	1.21			
		PM _{2.5}	0.28	1.21			
FCC-66	Portable Bag Filter	PM	0.09	0.19	7	7	7
		PM ₁₀	0.09	0.19			
		PM _{2.5}	0.09	0.19			
FCC-68	Kaolin Silo Bag Filter	PM	0.11	0.46			
		PM ₁₀	0.11	0.46			

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM _{2.5}	0.11	0.46	14		
FCC-69	C Alumina Dosing Bag Filter	PM	0.14	0.61	14		
		PM ₁₀	0.14	0.61			
		PM _{2.5}	0.14	0.61			
FCC-70	BOC Silo Bag Filter	PM	0.14	0.60	14		
		PM ₁₀	0.14	0.60			
		PM _{2.5}	0.14	0.60			
FCC-71	BOC Dosing Bag Filter	PM	0.21	0.46	14		
		PM ₁₀	0.21	0.46			
		PM _{2.5}	0.21	0.46			
FCC-74	Final Product Calciner II (9)	VOC	0.19	0.82	17	17, 21	17, 21
		NO _x (NA)	2.31	10.12			
		SO ₂	0.02	0.09			
		PM	0.26	1.14			
		PM ₁₀	0.26	1.14			
		PM _{2.5}	0.26	1.14			

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		CO	2.87	12.56			
FCC-75	TO/SCR System	VOC	0.03	0.13	18, 20	18	18
		NO _x (NA)	3.00	13.14			
		SO ₂	0.74	0.66			
		PM	0.04	0.18			
		PM ₁₀	0.04	0.18			
		PM _{2.5}	0.04	0.18			
		CO	0.45	1.97			
		N ₂ O	27.18	119.03			
		NH ₃	0.34	1.48			
FCC-76	Product Air Slide Bag Filter	PM	0.19	0.83	7, 14	7	7
		PM ₁₀	0.19	0.83			
		PM _{2.5}	0.19	0.83			
FCC-77	Storage Silo Bag Filter	PM	0.12	0.51	7, 14	7	7
		PM ₁₀	0.12	0.51			
		PM _{2.5}	0.12	0.51			

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
FCC-79	Diesel Engine II (8)	VOC	0.06	0.03			
		NO _x	1.74	0.87			
		SO ₂	0.30	0.15			
		PM	0.16	0.08			
		PM ₁₀	0.16	0.08			
		PM _{2.5}	0.16	0.08			
		CO	1.19	0.60			
FCC-80	Portable Bag Filter II	PM	0.09	0.19	7	7	7
		PM ₁₀	0.09	0.19			
		PM _{2.5}	0.09	0.19			
FCC-81	Tote Bin Bag Filter	PM	0.02	0.09	14		
		PM ₁₀	0.02	0.09			
		PM _{2.5}	0.02	0.09			
FCC-82	Portable Bag Filter	PM	0.09	0.19	7	7	7
		PM ₁₀	0.09	0.19			
		PM _{2.5}	0.09	0.19			

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
FCC-100	HCS Filter Cake Tank	HNO ₃	< 0.01	< 0.01	30	30	30
FCC-102A	Final Product Silo Baghouse	PM	< 0.01	< 0.01	14		
		PM ₁₀	< 0.01	< 0.01			
		PM _{2.5}	< 0.01	< 0.01			
FCC-109	Intermediate Silo Baghouse	PM	0.10	0.43	14		
		PM ₁₀	0.10	0.43			
		PM _{2.5}	0.10	0.43			
FCC-110	Intermediate Bag Unloading	PM	0.08	0.36	14		
		PM ₁₀	0.08	0.36			
		PM _{2.5}	0.08	0.36			
FCC-112	Truck Loading Baghouse	PM	< 0.01	< 0.01	14		
		PM ₁₀	< 0.01	< 0.01			
		PM _{2.5}	< 0.01	< 0.01			
FCC-113	Portaclay Unloading Baghouse	PM	< 0.01	< 0.01	14		
		PM ₁₀	< 0.01	< 0.01			
		PM _{2.5}	< 0.01	< 0.01			

Major NSR Summary Table

Permit Number 9402 and N022					Issuance Date: April 12, 2021		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
FCC-FUG	Fugitives (5)	HNO ₃	0.01	0.05	10, 11	10, 11	11
		NH ₃	0.02	0.09			
		HCl	0.01	0.04			
		H ₂ SO ₄	0.03	0.13			
PERMITWIDE	Permit Wide	NO _x	-	81.00			

- (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
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - 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
- NH₃ - Ammonia
- HNO₃ - Nitric Acid
- H₂SO₄ - Sulfuric Acid
- SO₃ - Sulfur Trioxide
- N₂O - Nitrous Oxide
- (NA) - Nonattainment Review
- (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) Total emissions of ammonia plus ammonium hydroxide.
- (7) PM, PM₁₀, and PM_{2.5} emissions will happen from either FCC-61 or FCC-76, but not both.
- (8) Emissions are based on 1,000 hours per year operation.
- (9) Final Product Calciner II may be routed through either EPN FCC-74 or EPN FCC-21.

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.: HG-A010-J	RN No.: RN100211523	CN: CN606211746
Permit No: O-1559	Project: 36882	
Area Name: Ketjen Bayport Plant		
Company Name: Ketjen LLC		
II. Unit/Emission Point/Group/Process Information		
Revision No.: 66		
Unit/EPN/Group/Process ID No.: FCC-27N		
Applicable Form: OP-UA6		
III. Applicable Regulatory Requirement		
Name: Chapter 117		
SOP/GOP Index No.: R7ICI1		
Pollutant: CO		
Main Standard: §117.310(c)(1)		
Monitoring Type: PM		
Unit Size:		
Deviation Limit: A fuel flow that exceeds a calculated heat input of 99.9 MMBtu/hr shall be considered and reported as a deviation.		
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: Fuel flow and hours of operation	Minimum Frequency: Monthly	
Averaging Period: N/A		

I. Identifying Information

Periodic Monitoring Text: Measure and record the fuel flow rate when the boiler is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures.

The fuel flow shall be used in conjunction with the permitted CO emission factor to demonstrate compliance with the limitations, which correspond to a CO concentration less than the 30 TAC Chapter 117 CO emission limitation of 400 ppmv.

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.: HG-A010-J	RN No.: RN100211523	CN: CN606211746
Permit No: O-1559		Project: 36882
Area Name: Ketjen Bayport Plant		
Company Name: Ketjen LLC		
II. Unit/Emission Point/Group/Process Information		
Revision No.: 67		
Unit/EPN/Group/Process ID No.: FCC-27		
Applicable Form: OP-UA6		
III. Applicable Regulatory Requirement		
Name: Chapter 117		
SOP/GOP Index No.: R7ICI1		
Pollutant: CO		
Main Standard: §117.310(c)(1)		
Monitoring Type: PM		
Unit Size:		
Deviation Limit: A fuel flow that exceeds a calculated heat input of 99 MMBtu/hr shall be considered and reported as a deviation.		
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: Fuel flow and hours of operation		Minimum Frequency: Monthly
Averaging Period: N/A		

I. Identifying Information

Periodic Monitoring Text: Measure and record the fuel flow rate when the boiler is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures.

The fuel flow shall be used in conjunction with the permitted CO emission factor to demonstrate compliance with the limitations, which correspond to a CO concentration less than the 30 TAC Chapter 117 CO emission limitation of 400 ppmv.

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.: HG-A010-J	RN No.: RN100211523	CN: CN606211746
Permit No: O-1559		Project: 36882
Area Name: Ketjen Bayport Plant		
Company Name: Ketjen LLC		
II. Unit/Emission Point/Group/Process Information		
Revision No.: 68		
Unit/EPN/Group/Process ID No.: UTL-BOILER		
Applicable Form: OP-UA6		
III. Applicable Regulatory Requirement		
Name: Chapter 117		
SOP/GOP Index No.: R7ICI1		
Pollutant: CO		
Main Standard: §117.310(c)(1)		
Monitoring Type: PM		
Unit Size:		
Deviation Limit: A fuel flow that exceeds a calculated heat input of 99.9 MMBtu/hr shall be considered and reported as a deviation.		
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: Fuel flow and hours of operation		Minimum Frequency: Monthly
Averaging Period: N/A		

I. Identifying Information

Periodic Monitoring Text: Measure and record the fuel flow rate when the boiler is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures.

The fuel flow shall be used in conjunction with the permitted CO emission factor to demonstrate compliance with the limitations, which correspond to a CO concentration less than the 30 TAC Chapter 117 CO emission limitation of 400 ppmv.

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.: HG-A010-J	RN No.: RN100211523	CN: CN606211746
Permit No: O-1559		Project: 36882
Area Name: Ketjen Bayport Plant		
Company Name: Ketjen LLC		
II. Unit/Emission Point/Group/Process Information		
Revision No.: 69		
Unit/EPN/Group/Process ID No.: VSP-9		
Applicable Form: OP-UA6		
III. Applicable Regulatory Requirement		
Name: Chapter 117		
SOP/GOP Index No.: R7ICI2		
Pollutant: CO		
Main Standard: §117.310(c)(1)		
Monitoring Type: PM		
Unit Size:		
Deviation Limit: A fuel flow that exceeds a calculated heat input of 126.2 MMBtu/hr shall be considered and reported as a deviation.		
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: Fuel flow and hours of operation		Minimum Frequency: Monthly
Averaging Period: N/A		

I. Identifying Information

Periodic Monitoring Text: Measure and record the fuel flow rate when the boiler is in operation. The monitoring instrumentation shall be maintained, calibrated, and operated in accordance with the manufacturer's specifications or other written procedures.

The fuel flow shall be used in conjunction with the permitted CO emission factor to demonstrate compliance with the limitations, which correspond to a CO concentration less than the 30 TAC Chapter 117 CO emission limitation of 400 ppmv.

From: [Preethi Joseph](#)
To: [Camilla Widenhofer](#)
Cc: [Chase Chicola](#); [Jessica Gamez](#); [Kyle Maxwell](#); [Melanie Faucett](#)
Subject: RE: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)
Date: Tuesday, November 19, 2024 3:02:39 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[OP-2 Additional Revisions 2024 1115.docx](#)
[OP-REQ2 FCC-75 2024 1115.docx](#)
[OP-SUMR Additional Revisions 2024 1115.docx](#)
[OP-UA6 CH 117 FCC-27N FCC-27 UTL-BOILER VSP-9 2024 1115.docx](#)
[OP-UA35 FCC-75 2024 1114.docx](#)

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Good Afternoon Camilla,

After review of the latest draft permit provided, along with the additional request for monitoring requirements for Unit IDs FCC-75, FCC-27, FCC-27N, UTL-BOILER, and VSP-9, Ketjen has updated the attributes with regards to CO emission limitations (FCC-27, FCC-27N, UTL-BOILER, and VSP-9) and applicability for FCC-75. After further assessment of current operations, it was determined that the units comply with requirements under 30 TAC §117.310(c)(1) and an Alternative Case Specific Specification (ACSS), as listed under 30 TAC §117.325(a) is not necessary. Therefore, we kindly request that the applicability for these units is updated. Ketjen has also reviewed applicability for Unit ID FCC-75. This unit has historically been represented as a heater; however, the unit is an incinerator. Therefore, Ketjen is requesting that applicability for this unit is updated as attached in the applicable forms.


To document the changes, the following forms are provided:

1. OP-SUMR: listing the units to be updated per this submittal.
2. OP-2: listing the changes requested for each of the units.
3. OP-UA6: updating applicability to Chapter 117 for Unit IDs FCC-27, FCC-27N, UTL-BOILER, and VSP-9.
4. OP-UA35: providing attributes for Unit ID FCC-75 as an incinerator.
5. OP-REQ2: providing justification for inclusion of Unit ID: FCC-75 into the permit shield.

If you have any additional questions, please let me know.

Thanks,

Preethi

Preethi Joseph  **Ketjen** | Environmental Manager I
13000 Bay Park Road
Pasadena, TX 77507, USA
☎: +1.281.291.2260 | 📠: +1.713.402.8583
Preethi.joseph@ketjen.com | www.ketjen.com

From: Camilla Widenhofer <camilla.widenhofer@tceq.texas.gov>
Sent: Tuesday, November 19, 2024 8:40 AM
To: Preethi Joseph <Preethi.Joseph@ketjen.com>
Cc: Chase Chicola <chase.chicola@ketjen.com>; Jessica Gamez <JGamez@trinityconsultants.com>; Kyle Maxwell <kyle.maxwell@ketjen.com>; Melanie Faucett <melanie.faucett@ketjen.com>
Subject: RE: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)

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Hello Preethi,

In addition to periodic monitoring for 30 TAC Chapter 117 for CO for FCC-75, If found that units FCC-27, FCC-27N, UTL-BOILER, and VSP-9 also require additional periodic monitoring for 30 TAC Chapter 117 for CO. Please include form OP-MON for those units along with your response on November 21st.

-Camilla

Camilla Widenhofer
TCEQ Air Permits Division
P.O. Box 13087, MC 163
Austin, TX 78753
Phone: (512)239-1028
Fax: (512)239-1300
camilla.widenhofer@tceq.texas.gov

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

From: Camilla Widenhofer
Sent: Tuesday, November 12, 2024 4:56 PM
To: Preethi Joseph <Preethi.Joseph@ketjen.com>
Cc: Chase Chicola <chase.chicola@ketjen.com>; Jessica Gamez <JGamez@trinityconsultants.com>; Kyle Maxwell <kyle.maxwell@ketjen.com>; Melanie Faucett <melanie.faucett@ketjen.com>
Subject: RE: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)

I will look forward to hearing from you on November 21st.

-Camilla

Camilla Widenhofer
TCEQ Air Permits Division
P.O. Box 13087, MC 163
Austin, TX 78753
Phone: (512)239-1028
Fax: (512)239-1300
camilla.widenhofer@tceq.texas.gov

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

From: Preethi Joseph <Preethi.Joseph@ketjen.com>
Sent: Tuesday, November 12, 2024 11:58 AM
To: Camilla Widenhofer <camilla.widenhofer@tceq.texas.gov>
Cc: Chase Chicola <chase.chicola@ketjen.com>; Jessica Gamez <JGamez@trinityconsultants.com>; Kyle Maxwell <kyle.maxwell@ketjen.com>; Melanie Faucett <melanie.faucett@ketjen.com>
Subject: RE: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)


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Good Morning Camilla,

We are working on the forms and during the review process we identified couple more changes. I would like to request an extension for November 21st to provide the response. If you need any additional information, please let me know.

Thank you,

Preethi

Preethi Joseph  **Ketjen** | Environmental Manager I
13000 Bay Park Road
Pasadena, TX 77507, USA
☎: +1.281.291.2260 | 📠: +1.713.402.8583
Preethi.joseph@ketjen.com | www.ketjen.com

From: Camilla Widenhofer <camilla.widenhofer@tceq.texas.gov>
Sent: Wednesday, November 6, 2024 1:38 PM
To: Preethi Joseph <Preethi.Joseph@ketjen.com>
Cc: Chase Chicola <chase.chicola@ketjen.com>; Jessica Gamez <JGamez@trinityconsultants.com>; Kyle Maxwell <kyle.maxwell@ketjen.com>; Melanie Faucett <melanie.faucett@ketjen.com>
Subject: RE: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)

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Hello Preethi,

After further review, I found that unit FCC-75 requires additional periodic monitoring for 30 TAC Chapter 117.325(a) for CO. The pre-approved option is PM-C-001. Please include form OP-MON in addition to OP-PBRSUP requested earlier today by November 13, 2024.

-Camilla

Camilla Widenhofer
TCEQ Air Permits Division
P.O. Box 13087, MC 163
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Fax: (512)239-1300
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How are we doing? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Camilla Widenhofer
Sent: Wednesday, November 6, 2024 10:12 AM
To: Preethi Joseph <Preethi.Joseph@ketjen.com>
Cc: Chase Chicola <chase.chicola@ketjen.com>; Jessica Gamez <JGamez@trinityconsultants.com>; Kyle Maxwell <kyle.maxwell@ketjen.com>; Melanie Faucett <melanie.faucett@ketjen.com>
Subject: RE: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)

Hello Preethi,

I made the corrections you requested below in Items 1-3; however, form OP-PBRSUP, Table A shows that 106.512 is registered under PBR registration number 71389 for FCC-79 and FCC-80. Please re-submit form OP-PBRSUP with FCC-79 and FCC-80 on Table A for 106.261 with registration number 71389, and on Table B for 106.512. You will need to re-date the table as well.

Unit ID No.	Registration No.	PBR No.	Registration Date
FCC-79	71389	106.261, 106.512	01/20/2005
FCC-80	71389	106.261, 106.512	01/20/2005

Please review the updated draft permit and submit any comments along with the OP-PBRSUP by **November 13, 2024**.

-Camilla

Camilla Widenhofer
TCEQ Air Permits Division
P.O. Box 13087, MC 163
Austin, TX 78753
Phone: (512)239-1028
Fax: (512)239-1300
camilla.widenhofer@tceq.texas.gov

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Cc: Chase Chicola <chase.chicola@ketjen.com>; Jessica Gamez <JGamez@trinityconsultants.com>; Kyle Maxwell <kyle.maxwell@ketjen.com>; Melanie Faucett <melanie.faucett@ketjen.com>
Subject: RE: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)

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Good Afternoon Ms. Widenhofer,

Please see the response in the table below to address removal of the EPN FCC-9A (item#1). Two additional comments were identified during our draft permit review and are listed under item #2 and item#3. If you have any additional questions, please let me know.

Item #1	<p>Per Item #1 of the "Additional Comments from Draft Permit Review" in the Draft Permit Review Response submitted to TCEQ on October 22, 2024, as well as Revision #3 of the original application,</p> <p>Unit ID FCC-9A should be removed and not Unit ID FCC-99A. Per the latest permit draft, Unit ID FCC-9A was not removed and Unit ID FCC-99A was</p>
----------------	--

	removed instead. Please remove Unit ID FCC-9A and include FCC-99A back into the permit. An updated Form OP-PBR SUP is not required since FCC-99A should not be removed.
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Thanks.

Preethi

Preethi Joseph  **Ketjen** | Environmental Manager I

13000 Bay Park Road

Pasadena, TX 77507, USA

☎: +1.281.291.2260 | 📞: +1.713.402.8583

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Please see the updated draft permit and send any additional comments no later than **November 6, 2024**.

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Texas Commission on Environmental Quality**

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Good Afternoon,

Please see the attached response to Title V O-1559 renewal technical review as requested on September 25, 2024. If you have any additional questions, please let me know.

Thanks,

Preethi

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Subject: RE: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)

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Thanks,

Preethi

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From: Camilla Widenhofer <camilla.widenhofer@tceq.texas.gov>
Sent: Wednesday, September 25, 2024 7:21 AM
To: Preethi Joseph <preethi.joseph@ketjen.com>
Subject: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)

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-

Please note the following items:

- OP-REQ1.XII.B.2. should be “NO” since there are no Air Quality Standard Permits authorized under 30 TAC 116.617;
- Permit shields are not needed for 40 CFR 63, Subpart DDDDD since the facility is not a major source of HAPs, however Industrial, commercial, or institutional boilers located at area sources of HAP are potentially applicable to 40 CFR 63, Subpart JJJJJJ. Please provide documentation for any sources that are potentially subject to that rule.
- OP-UA15, Table 1 was received for RSC-3 and ULT-BOILER for 30 TAC Chapter 111.111(a)(1)(B) requirements, but form OP-MON is also needed if you want to include those units. Instead, you may opt comply with the area wide requirements for that rule. Please either submit form OP-MON

or let me know whether you agree to comply with the area-wide requirements;

- Units CHB-1, CHB-2, ENG-1, FCC-27, RDL-5, RSC-1, RSC-2, and VSP-9 all have unit-specific requirements for 30 TAC 111.111(a)(1)(B) with additional periodic monitoring; however, you may opt to remove the unit-specific requirements and comply with the same area wide requirements for that rule. Please let me know whether you agree with the removal of the unit-specific requirements for 30 TAC 111.111(a)(1)(B).
- The following preconstruction authorizations have been removed since they are not found elsewhere in the permit and they were not included on form OP-PBRSUP:

Number: 5	Version No./Date: 04/05/1995
Number: 38	Version No./Date: 05/05/1976
Number: 75	Version No./Date: 11/25/1985
Number: 101	Version No./Date: 11/25/1985
Number: 103	Version No./Date: 11/25/1985
Number: 106.144	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.262	Version No./Date: 03/14/1997
Number: 106.262	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 03/14/1997

In addition, for all units subject to 40 CFR 63, Subpart VVVVVV, I wanted to let you know that EPA has, on occasion, objected to Title V permits having high level terms in the SOP Applicable Requirement Summary Table. The high-level terms are sometimes used in SOPs when unit attribute forms have not yet been updated due to regulatory amendments.

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](#).

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 and application update procedures. 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,

-Camilla

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From: [Camilla Widenhofer](#)
To: [Preethi Joseph](#)
Cc: [Chase Chicola](#); [Jessica Gamez](#); [Kyle Maxwell](#); [Melanie Faucett](#)
Subject: RE: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)
Date: Wednesday, November 6, 2024 1:38:00 PM
Attachments: [image003.png](#)
[image004.png](#)
[image005.png](#)

Hello Preethi,

After further review, I found that unit FCC-75 requires additional periodic monitoring for 30 TAC Chapter 117.325(a) for CO. The pre-approved option is PM-C-001. Please include form OP-MON in addition to OP-PBRSUP requested earlier today by November 13, 2024.

-Camilla

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Unit ID No.	Registration No.	PBR No.	Registration Date
FCC-79	71389	106.261, 106.512	01/20/2005
FCC-80	71389	106.261, 106.512	01/20/2005

Please review the updated draft permit and submit any comments along with the OP-PBRSUP by **November 13, 2024.**

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Thanks.

Preethi



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Permits By Rule Supplemental Table
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Number: 103	Version No./Date: 11/25/1985
Number: 106.144	Version No./Date: 09/04/2000
Number:	Version No./Date:

106.261	12/24/1998
Number: 106.261	Version No./Date: 09/04/2000
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Attachments: [image001.png](#)
[image002.png](#)
[SOP - O1559 Ketjen Limited Liability Company \(Renewal, 36882\).docx](#)

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Pasadena, TX 77507, USA
☎: +1.281.291.2260 | 📞: +1.713.402.8583
Preethi.joseph@ketjen.com | www.ketjen.com


From: Preethi Joseph <preethi.joseph@ketjen.com>
Sent: Wednesday, September 25, 2024 1:11 PM
To: Camilla Widenhofer <camilla.widenhofer@tceq.texas.gov>
Cc: Chase Chicola <chase.chicola@ketjen.com>
Subject: RE: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)

Hi Camilla,

Thank you for the email. We will review the below questions and work on providing the response by October 23, 2024. If you require any additional information in the meantime, please let me know.

Thanks,

Preethi

Preethi Joseph  **Ketjen** | Environmental Manager I
13000 Bay Park Road
Pasadena, TX 77507, USA
☎: +1.281.291.2260 | 📞: +1.713.402.8583
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From: Camilla Widenhofer <camilla.widenhofer@tceq.texas.gov>
Sent: Wednesday, September 25, 2024 7:21 AM
To: Preethi Joseph <preethi.joseph@ketjen.com>
Subject: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)

WARNING: This message was sent from an **EXTERNAL** email address. Be cautious of links and attachments, and do not enter your ID or password.
Report any suspicious content.

Hello Preethi,

I have conducted a technical review of the application and an electronic copy of the Working Draft Permit

(WDP) is attached for your review. This WDP contains the TCEQ determination of applicable requirements based on the information submitted in your application, and any updates provided. Please review the WDP and submit to me any comments you have on the working draft permit by **October 23, 2024**. Please submit a written response by this deadline, even if you are not making any comments on the content of the WDP.

Please note the following items:

- OP-REQ1.XII.B.2. should be “NO” since there are no Air Quality Standard Permits authorized under 30 TAC 116.617;
- Permit shields are not needed for 40 CFR 63, Subpart DDDDD since the facility is not a major source of HAPs, however Industrial, commercial, or institutional boilers located at area sources of HAP are potentially applicable to 40 CFR 63, Subpart JJJJJ. Please provide documentation for any sources that are potentially subject to that rule.
- OP-UA15, Table 1 was received for RSC-3 and ULT-BOILER for 30 TAC Chapter 111.111(a)(1)(B) requirements, but form OP-MON is also needed if you want to include those units. Instead, you may opt comply with the area wide requirements for that rule. Please either submit form OP-MON or let me know whether you agree to comply with the area-wide requirements;
- Units CHB-1, CHB-2, ENG-1, FCC-27, RDL-5, RSC-1, RSC-2, and VSP-9 all have unit-specific requirements for 30 TAC 111.111(a)(1)(B) with additional periodic monitoring; however, you may opt to remove the unit-specific requirements and comply with the same area wide requirements for that rule. Please let me know whether you agree with the removal of the unit-specific requirements for 30 TAC 111.111(a)(1)(B).
- The following preconstruction authorizations have been removed since they are not found elsewhere in the permit and they were not included on form OP-PBRSUP:

Number: 5	Version No./Date: 04/05/1995
Number: 38	Version No./Date: 05/05/1976
Number: 75	Version No./Date: 11/25/1985
Number: 101	Version No./Date: 11/25/1985
Number: 103	Version No./Date: 11/25/1985
Number: 106.144	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.262	Version No./Date: 03/14/1997
Number:	Version No./Date:

106.262	09/04/2000
Number: 106.371	Version No./Date: 03/14/1997

In addition, for all units subject to 40 CFR 63, Subpart VVVVVV, I wanted to let you know that EPA has, on occasion, objected to Title V permits having high level terms in the SOP Applicable Requirement Summary Table. The high-level terms are sometimes used in SOPs when unit attribute forms have not yet been updated due to regulatory amendments.

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](#).

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 and application update procedures. 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,

-Camilla

Camilla Widenhofer
TCEQ Air Permits Division
P.O. Box 13087, MC 163
Austin, TX 78753
Phone: (512)239-1028
Fax: (512)239-1300
camilla.widenhofer@tceq.texas.gov

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

October 23, 2024

Camilla Widenhofer, MC 163
Texas Commission on Environmental Quality
Air Permits Division
P.O. Box 13087
Austin, Texas 78711-3087

Subject: TV Permit O-1559; Project Number 36882
Bayport Facility
Ketjen LLC - Pasadena, Texas
Account No. HG-A010-J

Dear Ms. Widenhofer:

Ketjen LLC (Ketjen) is submitting this letter and its attachments in response to the review of the Working Draft Permit (WDP) Title V O-1559 received on September 25, 2024. The following sections contain Ketjen's requests for the permit.

Along with this letter, you will find the following attachments:

- **Attachment 1:** OP-REQ1 Page 85
- **Attachment 2:** OP-REQ2
- **Attachment 3:** OP-MON
- **Attachment 4:** OP-2
- **Attachment 5:** OP-SUMR
- **Attachment 6:** OP-UA6

If you have any comments and/or concerns regarding this submittal or require additional information, please do not hesitate to contact me at (281) 291-2260 or Preethi.Joseph@ketjen.com.

Sincerely,

Preethi Joseph
Environmental Manager

Response to Comments in Email

Item #1:	OP-REQ1.XII.B.2. should be "NO" since there are no Air Quality Standard Permits authorized under 30 TAC 116.617.
✓ Response #1:	Attachment 1 contains an updated page 85 of OP-REQ 1 with the response to XII.B.2 as "NO". The five active Standard Permits for the site are Pollution Control Projects (6001) and Air Quality Standard Permit for Boilers (6011).
Item #2:	Permit shields are not needed for 40 CFR 63, Subpart DDDDD since the facility is not a major source of HAPs, however Industrial, commercial, or institutional boilers located at area sources of HAP are potentially applicable to 40 CFR 63, Subpart JJJJJJ. Please provide documentation for any sources that are potentially subject to that rule.
✓ Response #2:	Per §63.11195(e) gas-fired boilers are not subject to this subpart. The boilers included in this permit are natural gas fired; documentation can be provided upon request. The negative applicability has been updated for OP-REQ2 and is being submitted as Attachment 2.
Item #3:	OP-UA15, Table 1 was received for RSC-3 and UTL-BOILER for 30 TAC Chapter 111.111(a)(1)(B) requirements, but form OP-MON is also needed if you want to include those units. Instead, you may opt comply with the area wide requirements for that rule. Please either submit form OP-MON or let me know whether you agree to comply with the area-wide requirements.
✓ Response #3:	Ketjen has opted to include OP-MON for Unit IDs RSC-3 and UTL-BOILER and is including these as Attachment 3.
Item #4:	Units CHB-1, CHB-2, ENG-1, FCC-27, RDL-5, RSC-1, RSC-2, and VSP-9 all have unit-specific requirements for 30 TAC 111.111(a)(1)(B) with additional periodic monitoring; however, you may opt to remove the unit-specific requirements and comply with the same area wide requirements for that rule. Please let me know whether you agree with the removal of the unit-specific requirements for 30 TAC 111.111(a)(1)(B).
✓ Response #4:	Ketjen has opted to keep periodic monitoring for Units IDs CHB-1, CHB-2, ENG-1, FCC-27, RDL-5, RSC-1, RSC-2, and VSP-9 and requests that these requirements are kept as is in the Title V.

Item #5:	<p>The following preconstruction authorizations have been removed since they are not found elsewhere in the permit and they were not included on form OP-PBRSUP:</p> <table border="1" data-bbox="586 333 1273 894"> <tr><td>Number: 5</td><td>Version No./Date: 04/05/1995</td></tr> <tr><td>Number: 38</td><td>Version No./Date: 05/05/1976</td></tr> <tr><td>Number: 75</td><td>Version No./Date: 11/25/1985</td></tr> <tr><td>Number: 101</td><td>Version No./Date: 11/25/1985</td></tr> <tr><td>Number: 103</td><td>Version No./Date: 11/25/1985</td></tr> <tr><td>Number: 106.144</td><td>Version No./Date: 09/04/2000</td></tr> <tr><td>Number: 106.261</td><td>Version No./Date: 12/24/1998</td></tr> <tr><td>Number: 106.261</td><td>Version No./Date: 09/04/2000</td></tr> <tr><td>Number: 106.262</td><td>Version No./Date: 03/14/1997</td></tr> <tr><td>Number: 106.262</td><td>Version No./Date: 09/04/2000</td></tr> <tr><td>Number: 106.371</td><td>Version No./Date: 03/14/1997</td></tr> </table>	Number: 5	Version No./Date: 04/05/1995	Number: 38	Version No./Date: 05/05/1976	Number: 75	Version No./Date: 11/25/1985	Number: 101	Version No./Date: 11/25/1985	Number: 103	Version No./Date: 11/25/1985	Number: 106.144	Version No./Date: 09/04/2000	Number: 106.261	Version No./Date: 12/24/1998	Number: 106.261	Version No./Date: 09/04/2000	Number: 106.262	Version No./Date: 03/14/1997	Number: 106.262	Version No./Date: 09/04/2000	Number: 106.371	Version No./Date: 03/14/1997
Number: 5	Version No./Date: 04/05/1995																						
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Number: 103	Version No./Date: 11/25/1985																						
Number: 106.144	Version No./Date: 09/04/2000																						
Number: 106.261	Version No./Date: 12/24/1998																						
Number: 106.261	Version No./Date: 09/04/2000																						
Number: 106.262	Version No./Date: 03/14/1997																						
Number: 106.262	Version No./Date: 09/04/2000																						
Number: 106.371	Version No./Date: 03/14/1997																						
✓ Response #5:	Ketjen agrees with the assessment; these preconstruction authorizations do not need to be included in the permit as the newer versions are included in the OP-PBRSUP Form.																						

Additional Comments from Draft Permit Review

✓ Item #1	Per Revision #3, Ketjen requests that Unit ID FCC-9A should be removed from the permit.
✓ Item #2	Unit IDs TEMP-TOTE1 and TEMP-TOTE2 are included in the permit shield for regulation 40 CFR Part 60, Subpart Ka. Please note, that based on the construction date, the regulation should be 40 CFR Part 60, Subpart Kb.
✓ Item #3	Per Revision #27, please update unit description name for Unit ID FCC-102A to "Final Product Silo Baghouse"; an updated OP-2 Table 2 is included as Attachment 4 to document this request.
✓ Item #4	Per Revision #28, please update unit description name for Unit ID FCC-102 to "Phosphinic Acid Storage Tank"; an updated OP-2 Table 2 is included as Attachment 4 to document this request. Additionally, the negative applicability used in the Permit Shield should be updated to NSPS Kb; Attachment 2 includes OP-REQ2 for this change.
✓ Item #5	The New Source Review Authorization for Unit ID PLU-T5505 in the "New Source Review Authorization References by Emissions Unit" included in the Draft Permit received, has the PBR Registration "1722441". Please note, the PBR Registration should be "172244".

<p>✓ Item #6</p>	<p>Ketjen received approval for Standard Permit 176091 on May 1, 2024 for the FCC-Boiler, Unit ID FCC-27N, which will be constructed within the next 12 months. Hence, per this response, Ketjen is requesting to add this unit to the Title V. The following forms are provided for applicability determination:</p> <ul style="list-style-type: none"> • Attachment 2: OP-REQ2 • Attachment 3: OP-MON • Attachment 4: OP-2 Table 2 • Attachment 5: OP-SUMR • Attachment 6: Form OP-UA6
<p>✓ Item #7</p>	<p>Ketjen requests to add Unit ID TEMP-TRAILER to the TV with negative applicability to NSPS Kb. The following forms are provided to document the negative applicability:</p> <ul style="list-style-type: none"> • Attachment 2: OP-REQ2 • Attachment 4: OP-2 Table 2 • Attachment 5: OP-SUMR

Attachment 1
OP-REQ1 Page 85

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	July 21, 2024
Permit No.:	O-1559
RN No.:	RN100211523

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. <i>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.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	2. The application area includes at least one "State Pollution Control Project" Air Quality Standard Permit NSR authorization under 30 TAC § 116.617.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	3. The application area includes at least one non-rule Air Quality Standard Permit for Pollution Control Projects NSR authorization.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	6. The application area includes at least one "Municipal Solid Waste Landfill" Air Quality Standard Permit NSR authorization under 30 TAC § 116.621.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	8. The application area includes at least one "Concrete Batch Plant" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	9. The application area includes at least one "Concrete Batch Plant with Enhanced Controls" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	10. The application area includes at least one "Hot Mix Asphalt Plant" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Attachment 2
OP-REQ2

Form OP-REQ2
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
10/23/2024	O-1559	RN100211523

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
	33	CHB-1	OP-REQ2	MACT JJJJJ	§63.11195(e)	Unit is a gas fired boiler.
	34	CHB-2	OP-REQ2	MACT JJJJJ	§63.11195(e)	Unit is a gas fired boiler.
	35	ENG-1	OP-REQ2	MACT JJJJJ	§63.11195(e)	Unit is a gas fired boiler.
	36	FCC-27	OP-REQ2	MACT JJJJJ	§63.11195(e)	Unit is a gas fired boiler.
	37	VSP-9	OP-REQ2	MACT JJJJJ	§63.11195(e)	Unit is a gas fired boiler.
	38	RSC-1	OP-REQ2	MACT JJJJJ	§63.11195(e)	Unit is a gas fired boiler.
	39	RSC-2	OP-REQ2	MACT JJJJJ	§63.11195(e)	Unit is a gas fired boiler.
✓	A	40	RSC-3	OP-UA6	MACT JJJJJ	Unit is a gas fired boiler.
✓	A	41	UTL-BOILER	OP-UA6	MACT JJJJJ	Unit is a gas fired boiler.
	28	FCC-102	OP-SUMR	NSPS Kb	§60.110b(a)	Unit does not store a VOC.
✓	A	63	FCC-27N	OP-UA6	MACT JJJJJ	Unit is a gas fired boiler.
✓	A	63	FCC-27N	OP-UA6	NSPS D	Heat input capacity is less than 250 MMBtu/hr.

Form OP-REQ2 *(continued)*
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
10/23/2024	O-1559	RN100211523

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	63	FCC-27N	OP-UA6	NSPS Db	§60.40b	Heat input capacity is less than 100 MMBtu/hr.
✓ A	64	TEMP-TRAILER	OP-SUMR	NSPS Kb	§60.110b(a)	Vessel does not have a design capacity greater than 75 m ³ .

Attachment 3

OP-MON

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.: HG-A010-J	RN No.: RN100211523	CN: CN606211746
Permit No: O-1559	Project: 36882	
Area Name: Ketjen Bayport Plant		
Company Name: Ketjen LLC		
II. Unit/Emission Point/Group/Process Information		
Revision No.: 40		
Unit/EPN/Group/Process ID No.: RSC-3		
Applicable Form: OP-UA15		
III. Applicable Regulatory Requirement		
Name: Chapter 111		
SOP/GOP Index No.: R11111		
Pollutant: Opacity		
Main Standard: §111.111(a)(1)(B)		
Monitoring Type: PM		
Unit Size:		
Deviation Limit: Opacity greater than 20%		
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: Visible Emissions	Minimum Frequency: One per calendar quarter	
Averaging Period: N/A		

I. Identifying Information

Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.

If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report 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.: HG-A010-J	RN No.: RN100211523	CN: CN606211746
Permit No: O-1559		Project: 36882
Area Name: Ketjen Bayport Plant		
Company Name: Ketjen LLC		
II. Unit/Emission Point/Group/Process Information		
Revision No.: 41		
Unit/EPN/Group/Process ID No.: UTL-BOILER		
Applicable Form: OP-UA15		
III. Applicable Regulatory Requirement		
Name: Chapter 111		
SOP/GOP Index No.: R11111		
Pollutant: Opacity		
Main Standard: §111.111(a)(1)(B)		
Monitoring Type: PM		
Unit Size:		
Deviation Limit: Opacity greater than 20%		
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: Visible Emissions		Minimum Frequency: One per calendar quarter
Averaging Period: N/A		

I. Identifying Information

Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.

If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report 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.: HG-A010-J	RN No.: RN100211523	CN: CN606211746
Permit No: O-1559		Project: 36882
Area Name: Ketjen Bayport Plant		
Company Name: Ketjen LLC		
II. Unit/Emission Point/Group/Process Information		
Revision No.: 63		
Unit/EPN/Group/Process ID No.: FCC-27N		
Applicable Form: OP-2		
III. Applicable Regulatory Requirement		
Name: Chapter 111		
SOP/GOP Index No.: R11111		
Pollutant: Opacity		
Main Standard: §111.111(a)(1)(B)		
Monitoring Type: PM		
Unit Size:		
Deviation Limit: Opacity greater than 20%		
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: Visible Emissions		Minimum Frequency: One per calendar quarter
Averaging Period: N/A		

I. Identifying Information

Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.

If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.

Attachment 4

OP-2 Table 2

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

Date: 10/23/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen LLC

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

Revision No.	Revision Code	New Unit	Unit/Group	Process	NSR Authorization	Description of Change and Provisional Terms and Conditions
			ID No.	Applicable Form		
27	MS-C	NO	FCC-102A	OP-SUMR	9402	Update unit description to “Final Product Silo Baghouse”.
28	MS-C	NO	FCC-102	OP-SUMR	9402	Update unit description to “Phosphinic Acid Storage Tank”.
63	MS-C	YES	FCC-27N	OP-UA6	176091	Add to permit with applicability to Chapters 111 and 117, 40 CFR Part 60 Subpart Dc, and negative applicability to 40 CFR Part 60 Subparts D and Db, and 40 CFR Part 63 Subpart JJJJJ.
64	MS-C	YES	TEMP-TRAILER	OP-SUME	172244	Add new unit to permit shield with negative applicability to NSPS Kb.

Attachment 5
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.
10/23/2024	O-1559	RN100211523

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	63	FCC-27N	OP-UA6	FCC Boiler		176091	
✓ A	64	TEMP-TRAILER	OP-SUMR OP-REQ2	Temporary Trailer		172244	

Attachment 6

OP-UA6

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 1)
Federal Operating Permit Program
Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart D: Standards of Performance for Fossil Fuel-Fired Steam Generators
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
10/23/2024	O-1559	RN100211523

Unit ID No.	SOP Index No.	Construction/Modification Date	Covered Under Subpart Da or KKKK	Changes to Existing Affected Facility	Heat Input Rate	Alternate 42C	PM CEMS	Opacity Monitoring	Gas/Liquid Fuel	Fuels with 0.33 % or Less Sulfur	Specific Site
✓ FCC-27N	60D	78+	NO	NO	250-						

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 6)
Federal Operating Permit Program
Table 3a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
10/23/2024	0-1559	RN100211523

Unit ID No.	SOP Index No.	Construction/Modification Date	Heat Input Capacity	Subpart Da	Changes to Existing Affected Facility	Subpart Ea, Eb, or AAAA	Subpart KKKK	Subpart Cb or BBBB
✓ FCC-27N	60Db	05+M	100-					

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.
10/23/2024	0-1559	RN100211523

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
✓ FCC-27N	60Dc	05+	10-100	NONE	75-100	NG			OTHR	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 Steam Generating Units
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
10/23/2024	0-1559	RN100211523

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
✓ FCC-27N	60Dc	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.
10/23/2024	0-1559	RN100211523

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
✓ FCC-27N	R7ICI1	ICIB	40-100			NG			28+

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.
10/23/2024	0-1559	RN100211523

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
✓ FCC-27N	R7ICI1	310D				NO	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.
10/23/2024	0-1559	RN100211523

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
✓ FCC-27N	R7IC11		MERT	X40A	ACSS	OTHER		

From: [Camilla Widenhofer](#)
To: [Preethi Joseph](#)
Subject: Technical Review O1559 - Ketjen Limited Liability Company (Renewal, 36882)
Date: Wednesday, September 25, 2024 7:21:00 AM
Attachments: [SOP - O1559 Ketjen Limited Liability Company \(Renewal, 36882\).docx](#)

Hello Preethi,

I have conducted a technical review of the application and an electronic copy of the Working Draft Permit (WDP) is attached for your review. This WDP contains the TCEQ determination of applicable requirements based on the information submitted in your application, and any updates provided. Please review the WDP and submit to me any comments you have on the working draft permit by **October 23, 2024**. Please submit a written response by this deadline, even if you are not making any comments on the content of the WDP.

Please note the following items:

- OP-REQ1.XII.B.2. should be “NO” since there are no Air Quality Standard Permits authorized under 30 TAC 116.617;
- Permit shields are not needed for 40 CFR 63, Subpart DDDDD since the facility is not a major source of HAPs, however Industrial, commercial, or institutional boilers located at area sources of HAP are potentially applicable to 40 CFR 63, Subpart JJJJJ. Please provide documentation for any sources that are potentially subject to that rule.
- OP-UA15, Table 1 was received for RSC-3 and ULT-BOILER for 30 TAC Chapter 111.111(a)(1)(B) requirements, but form OP-MON is also needed if you want to include those units. Instead, you may opt comply with the area wide requirements for that rule. Please either submit form OP-MON or let me know whether you agree to comply with the area-wide requirements;
- Units CHB-1, CHB-2, ENG-1, FCC-27, RDL-5, RSC-1, RSC-2, and VSP-9 all have unit-specific requirements for 30 TAC 111.111(a)(1)(B) with additional periodic monitoring; however, you may opt to remove the unit-specific requirements and comply with the same area wide requirements for that rule. Please let me know whether you agree with the removal of the unit-specific requirements for 30 TAC 111.111(a)(1)(B).
- The following preconstruction authorizations have been removed since they are not found elsewhere in the permit and they were not included on form OP-PBRUP:

Number: 5	Version No./Date: 04/05/1995
Number: 38	Version No./Date: 05/05/1976
Number: 75	Version No./Date:

	11/25/1985
Number: 101	Version No./Date: 11/25/1985
Number: 103	Version No./Date: 11/25/1985
Number: 106.144	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.262	Version No./Date: 03/14/1997
Number: 106.262	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 03/14/1997

In addition, for all units subject to 40 CFR 63, Subpart VVVVV, I wanted to let you know that EPA has, on occasion, objected to Title V permits having high level terms in the SOP Applicable Requirement Summary Table. The high-level terms are sometimes used in SOPs when unit attribute forms have not yet been updated due to regulatory amendments.

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](#).

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 and application update procedures. 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,

-Camilla

Camilla Widenhofer
TCEQ Air Permits Division
P.O. Box 13087, MC 163
Austin, TX 78753
Phone: (512)239-1028
Fax: (512)239-1300
camilla.widenhofer@tceq.texas.gov

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


From: [Preethi Joseph](#)
To: [Camilla Widenhofer](#)
Cc: [Chase Chicola](#)
Subject: RE: FOP Application O1559 - Ketjen Limited Liability Company (Renewal, 36882)
Date: Thursday, August 22, 2024 8:19:49 AM
Attachments: [image001.png](#)

Caution: This email may contain suspicious content. Please take care when clicking links or opening attachments. When in doubt, contact the TCEQ Help Desk.

Good Morning,

Thank you for the details. If you need any information from me as you review the application. Please let me know.

Preethi

Preethi Joseph  **Ketjen** | Environmental Manager I
13000 Bay Park Road
Pasadena, TX 77507, USA
📞: +1.281.291.2260 | 📠: +1.713.402.8583
Preethi.joseph@ketjen.com | www.ketjen.com

From: Camilla Widenhofer <camilla.widenhofer@tceq.texas.gov>
Sent: Thursday, August 22, 2024 7:45 AM
To: Preethi Joseph <preethi.joseph@ketjen.com>
Subject: FOP Application O1559 - Ketjen Limited Liability Company (Renewal, 36882)

WARNING: This message was sent from an **EXTERNAL** email address. Be cautious of links and attachments, and do not enter your ID or password. Report any suspicious content.

I have been assigned to the Federal Operating Permit (FOP) renewal application of Permit No. O1559 for Ketjen Limited Liability Company/Ketjen Bayport Plant. This application has been assigned Project No. 36882. 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.

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.

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](#).

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 and application update procedures. 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,

-Camilla

Camilla Widenhofer
TCEQ Air Permits Division
P.O. Box 13087, MC 163
Austin, TX 78753
Phone: (512)239-1028
Fax: (512)239-1300
camilla.widenhofer@tceq.texas.gov

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

From: [Camilla Widenhofer](#)
To: preethi.joseph@ketjen.com
Subject: FOP Application O1559 - Ketjen Limited Liability Company (Renewal, 36882)
Date: Thursday, August 22, 2024 7:44:00 AM

I have been assigned to the Federal Operating Permit (FOP) renewal application of Permit No. O1559 for Ketjen Limited Liability Company/Ketjen Bayport Plant. This application has been assigned Project No. 36882. 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.

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.

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](#).

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 and application update procedures. 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,

-Camilla

Camilla Widenhofer
TCEQ Air Permits Division
P.O. Box 13087, MC 163
Austin, TX 78753
Phone: (512)239-1028
Fax: (512)239-1300
camilla.widenhofer@tceq.texas.gov

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

Carolyn Thomas

From: eNotice TCEQ
Sent: Monday, July 22, 2024 8:02 AM
To: mayes.middleton@senate.texas.gov; Dennis.paul@house.texas.gov
Subject: TCEQ Notice - Permit Number O1559
Attachments: TCEQ Notice - O1559_36882.pdf

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

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

Questions regarding this email may be submitted either by replying directly to this email or by calling Mr. Jesse Chacon, P.E. with the Air Permits Division at (512) 239-5759.

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

Carolyn Thomas

From: Carolyn Thomas
Sent: Monday, July 22, 2024 8:03 AM
To: 'Preethi.joseph@ketjen.com'; Chase Chicola
Subject: Page Numbering on Req 1

Good morning,

Some applicants are using their version of OP-REQ1, which makes it difficult for us to capture the correct page numbers for data entry.

For instance, they indicate "Page 1 of the REQ 1 numbering list 4-3." In the future, if the footer has been changed you will be asked to resubmit the REQ1 for completion.

Thank you,
Carolyn Thomas
Air Permits Initial Review Team
Air Permits Division, MC 161
Office of Air Texas Commission on Environmental Quality
Phone: (512) 239-5127
Fax: (512) 233-0973
E-mail: carolyn.thomas@tceq.texas.gov
Web site: www.tceq.texas.gov
Please consider whether it is necessary to print this e-mail.
How are we doing? www.tceq.texas.gov/customersurvey

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

July 22, 2024

THE HONORABLE MAYES MIDDLETON
TEXAS SENATE
PO BOX 12068
AUSTIN TX 78711-2068

Re: Accepted Federal Operating Permit Renewal Application
Project Number: 36882
Permit Number: O1559
Ketjen Limited Liability Company
Bayport Plant
Pasadena, Harris County
Regulated Entity Number: RN100211523
Customer Reference Number: CN606211746

Dear Senator Middleton:

This letter notifies you that the Texas Commission on Environmental Quality has received a federal operating permit (FOP) renewal application for a site located in your district. As part of this permitting process, the applicant is required to publish a formal newspaper public notice. The notice will inform the public of their right to make comments or request a public hearing. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.064444,29.642222&level=13>.


The FOP program regulates both new and existing major sources of emissions. The goal of the program is to improve air quality in Texas through increased compliance by codifying existing applicable regulatory requirements into the FOP. The FOP provides the applicant authorization to operate the equipment at the site. The FOP identifies and codifies air emission requirements (known as applicable requirements) that apply to the emission units at the site. The FOP does not authorize construction of emission units or emissions from those units. The New Source Review (NSR) permit is the mechanism for these authorizations.

The Honorable Mayes Middleton
Page 2
July 22, 2024

Re: Accepted Federal Operating Permit Renewal Application

This letter is being sent to you for information only and no action is required. If you need further information, please contact me at (512) 239-1250.

Sincerely,

A handwritten signature in black ink, appearing to read 'Samuel Short', followed by a long horizontal line extending to the right.

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

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

July 22, 2024

THE HONORABLE DENNIS PAUL
TEXAS HOUSE OF REPRESENTATIVES
PO BOX 2910
AUSTIN TX 78768-2910

Re: Accepted Federal Operating Permit Renewal Application
Project Number: 36882
Permit Number: O1559
Ketjen Limited Liability Company
Bayport Plant
Pasadena, Harris County
Regulated Entity Number: RN100211523
Customer Reference Number: CN606211746

Dear Representative Paul:

This letter notifies you that the Texas Commission on Environmental Quality has received a federal operating permit (FOP) renewal application for a site located in your district. As part of this permitting process, the applicant is required to publish a formal newspaper public notice. The notice will inform the public of their right to make comments or request a public hearing. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For exact location, refer to application. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.064444,29.642222&level=13>.

The FOP program regulates both new and existing major sources of emissions. The goal of the program is to improve air quality in Texas through increased compliance by codifying existing applicable regulatory requirements into the FOP. The FOP provides the applicant authorization to operate the equipment at the site.

This letter is being sent to you for information only and no action is required. If you need further information, please contact me at (512) 239-1250.

Sincerely,

A handwritten signature in black ink, appearing to read "Samuel Short", followed by a long horizontal line.

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

TITLE V RENEWAL APPLICATION

Ketjen LLC/ Bayport Plant

TV Permit No. O-1559

Prepared By:

TRINITY CONSULTANTS

1800 West Loop South
Suite 1000
Houston, Texas 77027
(713) 552-1371

July 2024

Project 244402.0130



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1. EXECUTIVE SUMMARY

Ketjen LLC (Ketjen) owns and operates the Bayport Plant in Pasadena, Harris County, Texas. The Ketjen Bayport Plant currently operates under Texas Commission on Environmental Quality (TCEQ) Central Registry Regulated Entity No. RN100211523 and Central Registry Customer No. CN606211746. Additionally, the Bayport Plant is registered under account number HG-A010-J and operates under the Federal Operating Permit (SOP) No. O1559. The site is an existing major source of nitrogen oxides (NO_x) located in the Houston-Galveston-Brazoria (HGB) area.

The plant includes four different processes:

- The Fluidized Cracking Catalyst (FCC) Manufacturing Process, authorized under NSR Permit 9402;
- The Zeolite Plant Process (VSP), authorized under NSR Permit 21995;
- The Hydroprocessing Catalyst (HPC) Process, authorized under NSR Permits 2487 and 76621; and
- The Research and Development (RDL) Process, authorized under NSR Permit 9626.

In accordance with 30 TAC §122.241(a), a permit renewal is required every five years. Per 30 TAC §122.133(2) a renewal application must be submitted six to 18 months before the permit's expiration date. The expiration date of TV O-1559 is January 22, 2025, therefore a complete application must be submitted before July 22, 2024. Ketjen is submitting this application to comply with the requirements for renewal.

Ketjen is requesting the following Title V updates as part of the Renewal Application:

- Updates to NSR Authorization;
- Updates to unit names and descriptions;
- Removal of units from the permit; and
- Addition of new units to the permit.

The required supporting documentation for this renewal is provided in this application and includes the following forms:

General Administration Forms:

- OP-1: Site Information Summary
- OP-2: Application for Permit Revision/Renewal
- OP-CRO1: Certification by Responsible Official
- OP-SUMR: Individual Unit Summary for Revisions
- OP-PBRSUP: Permits By Rule Supplemental Table

Unit Attribute Forms:

- OP-UA3: Storage Tank Vessel Attributes
- OP-UA6: Boiler/Steam Generator/Steam Generating Unit Attributes
- OP-UA13: Industrial Process Cooling Tower Attributes
- OP-UA15: Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes

Applicability Determination Forms:

- OP-REQ1: Application Area-wide Applicability Determinations and General Information
- OP-REQ2: Negative Applicable Requirement Determinations
- OP-REQ3: Applicable Requirements Summary

Compliance Certification Forms

- OP-ACPS: Application Compliance Plan and Schedule
- Major NSR Summary Table

2. GENERAL ADMINISTRATION FORMS

OP-1: Site Information Summary

OP-2: Application for Permit Revision/Renewal

OP-CRO1: Certification by Responsible Official

OP-SUMR: Individual Unit Summary for Revisions

OP-PBRSUP: Permits By Rule Supplemental Table

2.1 OP-1: Site Information Summary

**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) 239-1250 or 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: Ketjen LLC
B. Customer Reference Number (CN): CN606211746
C. Submittal Date (mm/dd/yyyy): 07/21/2024
II. Site Information
A. Site Name: Ketjen Bayport Plant
B. Regulated Entity Reference Number (RN): RN100211523
C. Indicate affected state(s) required to review permit application: <i>(Check the appropriate box[es].)</i>
<input type="checkbox"/> AR <input type="checkbox"/> CO <input type="checkbox"/> KS <input type="checkbox"/> LA <input type="checkbox"/> NM <input type="checkbox"/> OK <input checked="" type="checkbox"/> N/A
D. Indicate all pollutants for which the site is a major source based on the site's potential to emit: <i>(Check the appropriate box[es].)</i>
<input type="checkbox"/> VOC <input checked="" type="checkbox"/> NO _x <input type="checkbox"/> SO ₂ <input type="checkbox"/> PM ₁₀ <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> HAPS
Other:
E. Is the site a non-major source subject to the Federal Operating Permit Program? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
F. Is the site within a local program area jurisdiction? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
G. Will emissions averaging be used to comply with any Subpart of 40 CFR Part 63? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
H. Indicate the 40 CFR Part 63 Subpart(s) that will use emissions averaging:
III. Permit Type
A. Type of Permit Requested: <i>(Select only one response)</i>
<input checked="" type="checkbox"/> Site Operating Permit (SOP) <input type="checkbox"/> Temporary Operating Permit (TOP) <input type="checkbox"/> 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 <i>(Complete for Initial Issuance Applications Only.)</i>
A. Is this submittal an abbreviated or a full application? <input type="checkbox"/> Abbreviated <input type="checkbox"/> Full
B. If this is a full application, is the submittal a follow-up to an abbreviated application? <input type="checkbox"/> YES <input type="checkbox"/> NO
C. If this is an abbreviated application, is this an early submittal for a combined SOP and Acid Rain permit? <input type="checkbox"/> YES <input type="checkbox"/> 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.) <input type="checkbox"/> YES <input type="checkbox"/> NO
E. Has the required Public Involvement Plan been included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO
V. Confidential Information
A. Is confidential information submitted in conjunction with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
VI. Responsible Official (RO) Identifying Information
RO Name Prefix: (<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)
RO Full Name: Chase Chicola
RO Title: Plant Manager
Employer Name: Ketjen LLC
Mailing Address: 13000 Bay Park Rd
City: Pasadena
State: TX
ZIP Code: 77507
Territory:
Country: USA
Foreign Postal Code:
Internal Mail Code:
Telephone No.: 281-474-0379
Fax No.:
Email: Chase.Chicola@ketjen.com

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 3)
Texas Commission on Environmental Quality**

VII. Technical Contact Identifying Information <i>(Complete if different from RO.)</i>
Technical Contact Name Prefix: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input checked="" type="checkbox"/> Ms. <input type="checkbox"/> Dr.)
Technical Contact Full Name: Preethi Joseph
Technical Contact Title: Environmental Manager
Employer Name: Ketjen LLC
Mailing Address: 13000 Bay Park Rd
City: Pasadena
State: TX
ZIP Code: 77507
Territory:
Country: USA
Foreign Postal Code:
Internal Mail Code:
Telephone No.: 281-291-2260
Fax No.:
Email: Preethi.Joseph@ketjen.com
VIII. Reference Only Requirements <i>(For reference only.)</i>
A. State Senator: Mayer Middleton
B. State Representative: Dennis Paul
C. Has the applicant paid emissions fees for the most recent agency fiscal year (Sept. 1 - August 31)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
D. Is the site subject to bilingual notice requirements pursuant to 30 TAC § 122.322? <input checked="" type="checkbox"/> YES <input type="checkbox"/> 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 <i>(Optional for applicants requesting to hold the FOP and records at an off-site location.)</i>
A. Office/Facility Name:
B. Physical Address:
City:
State:
ZIP Code:
Territory:
Country:
Foreign Postal Code:
C. Physical Location:
D. Contact Name Prefix: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.)
Contact Full Name:
E. Telephone No.:
X. Application Area Information
A. Area Name: Bayport Plant
B. Physical Address: 13000 Bay Park Rd
City: Pasadena
State: TX
ZIP Code: 77507
C. Physical Location:
D. Nearest City: Pasadena
E. State: TX
F. ZIP Code: 77507

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 5)
Texas Commission on Environmental Quality**

X. Application Area Information (continued)
G. Latitude (nearest second): 029:38:32
H. Longitude (nearest second): 095:03:52
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? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
J. Indicate the estimated number of emission units in the application area: 161
K. Are there any emission units in the application area subject to the Acid Rain Program? <input type="checkbox"/> YES <input checked="" type="checkbox"/> 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: La Porte Branch Library
B. Physical Address: 600 South Broadway
City: La Porte
ZIP Code: 77571
C. Contact Person (Someone who will answer questions from the public during the public notice period):
Contact Name Prefix: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input checked="" type="checkbox"/> Ms. <input type="checkbox"/> Dr.):
Contact Person Full Name: Preethi Joseph
Contact Mailing Address: 13000 Bay Park Rd
City: Pasadena
State: TX
ZIP Code: 77507
Territory:
Country: USA
Foreign Postal Code:
Internal Mail Code:
Telephone No.: 281-291-2260

**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: (<input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> 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:

**Federal Operating Permit Program
Site Information Summary
Form OP-1 (Page 7)
Texas Commission on Environmental Quality**

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:

2.2 OP-2: Application for Permit Revision/Renewal

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

Date: 07/21/2024	
Permit No.: O-1559	
Regulated Entity No.: RN100211523	
Company Name: Ketjen LLC	
For Submissions to EPA	
Has an electronic copy of this application been submitted (or is being submitted) to EPA? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
I. Application Type	
Indicate the type of application:	
<input checked="" type="checkbox"/> Renewal	
<input type="checkbox"/> Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)	
<input type="checkbox"/> Significant Revision	
<input type="checkbox"/> Revision Requesting Prior Approval	
<input type="checkbox"/> Administrative Revision	
<input type="checkbox"/> Response to Reopening	
II. Qualification Statement	
For SOP Revisions Only	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
For GOP Revisions Only	<input type="checkbox"/> YES <input type="checkbox"/> 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 ☐ SO₂ ☐ PM₁₀ ☐ 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.

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

Date: 07/21/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen 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		
1	MS-C	NO	FCC-103A	OP-SUMR	9402	Remove unit from permit.
2	MS-C	NO	FCC-103B	OP-SUMR	9402	Remove unit from permit.
3	MS-C	NO	FCC-9A	OP-SUMR	9402	Remove unit from permit.
4	MS-C	NO	HPC-61	OP-SUMR	2487	Remove unit from permit.
5	MS-C	NO	HPC-62	OP-SUMR	2487	Remove unit from permit.
6	MS-C	NO	PLU-1A	OP-SUMR	76621	Remove unit from permit.
7	MS-C	NO	PLU-1B	OP-SUMR	76621	Remove unit from permit.
8	MS-A	NO	FCC-83	OP-SUMR	108971	Update NSR Authorization to PBR 108971.
9	MS-A	NO	FCC-84	OP-SUMR	103969	Update NSR Authorization to PBR 103969.
10	MS-A	NO	FCC-85	OP-SUMR	106291	Update NSR Authorization to Standard Permit 106291.



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

Date: 07/21/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen 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		
11	MS-A	NO	FCC-86	OP-SUMR	106291, 114642	Update NSR Authorization to Standard Permit 106291 and PBR 114642.
12	MS-A	NO	FCC-95	OP-SUMR	115923	Update NSR Authorization to PBR 115923.
13	MS-A	NO	FCC-96	OP-SUMR	115923	Update NSR Authorization to PBR 115923.
14	MS-A	NO	FCC-99A	OP-SUMR	131209	Update NSR Authorization to PBR 131209.
15	MS-A	NO	FCC-99B	OP-SUMR	131209	Update NSR Authorization to PBR 131209.
16	MS-A	NO	FCC-CT	OP-SUMR	106.371	Update NSR Authorization to §106.371.
17	MS-A	NO	HPC-4135-155	OP-SUMR	2487	Update NSR Authorization to NSR 2487.
18	MS-A	NO	HPC-4135-303	OP-SUMR	2487	Update NSR Authorization to NSR 2487.
19	MS-A	NO	HPC-ORANGE	OP-SUMR	2487	Update NSR Authorization to NSR 2487.
20	MS-A	NO	PLU-11	OP-SUMR	106.371	Update NSR Authorization to §106.371.

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

Date: 07/21/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen 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		
21	MS-C	NO	4002-602	OP-SUMR	106.511	Update NSR authorization and unit description to “Emergency Generator (EMERGENHPC)”.
22	MS-C	NO	4017-501A	OP-SUMR	106.511	Update NSR authorization and unit description to “Substation Generator (EMERGEN1)”.
23	MS-C	NO	4017-501B	OP-SUMR	106.511	Update NSR authorization and unit description to “Substation Generator (EMERGEN2)”.
24	MS-C	NO	4030-F1422B	OP-SUMR	106.512	Update unit description to “Backup Generator (14 th St Gen)”.
25	MS-C	NO	4030-F1522B	OP-SUMR	106.512	Update unit description to “Backup Generator (15 th St Gen)”.
26	MS-C	NO	433-725E	OP-SUMR	106.512	Update unit description to “Generator (FCC GEN)”.
27	MS-C	NO	FCC-102A	OP-SUMR	9402	Update unit description to “Final Product Calciner”

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

Date: 07/21/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen 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		
28	MS-C	NO	FCC-102	OP-SUMR	9402	Update unit description to “Phosphinic Storage Tank”.
29	SIG-E	YES	HPC-30	OP-UA3	2487	Add to permit with negative applicability to 30 TAC Chapter 115 and 40 CFR Part 60 Subpart Kb.
30	SIG-E	YES	FCC-114	OP-UA3	160774	Add to permit with negative applicability to 30 TAC Chapter 115 and 40 CFR Part 60 Subpart Kb.
31	SIG-E	YES	TEMP-TOTE1	OP-UA3	172244	Add to permit with negative applicability to 30 TAC Chapter 115 and 40 CFR Part 60 Subpart Kb.
32	SIG-E	YES	TEMP-TOTE1	OP-UA3	172244	Add to permit with negative applicability to 30 TAC Chapter 115 and 40 CFR Part 60 Subpart Kb.

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

Date: 07/21/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen 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		
33	SIG-E	NO	CHB-1	OP-REQ2	7	Add negative applicability to 40 CFR Part 63 Subpart DDDDD.
34	SIG-E	NO	CHB-2	OP-REQ2	7	Add negative applicability to 40 CFR Part 63 Subpart DDDDD.
35	SIG-E	NO	ENG-1	OP-REQ2	7	Add negative applicability to 40 CFR Part 63 Subpart DDDDD.
36	SIG-E	NO	FCC-27	OP-REQ2	9402	Add negative applicability to 40 CFR Part 63 Subpart DDDDD.
37	SIG-E	NO	VSP-9	OP-REQ2	21995	Add negative applicability to 40 CFR Part 63 Subpart DDDDD.

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

Date: 07/21/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen 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		
38	SIG-E	NO	RSC-1	OP-REQ2	106.183	Update unit description to “Research Boiler #1 (RDB-1)” and add negative applicability to 40 CFR Part 63 Subpart DDDDD.
39	SIG-E	NO	RSC-2	OP-REQ2	106.183	Update unit description to “Research Boiler #2 (RDB-2)” and add negative applicability to 40 CFR Part 63 Subpart DDDDD.
40	SIG-E	YES	RSC-3	OP-UA6 OP-UA15	106.183	sAdd to permit with applicability to 30 TAC Chapter 111 and negative applicability to 30 TAC Chapter 117, 40 CFR Part 60 Subparts Db and Dc, and 40 CFR Part 63 Subpart DDDDD.
41	SIG-E	YES	UTL-BOILER	OP-UA6 OP-UA15	171411	Add to permit with applicability to 30 TAC Chapters 111, 117 and 40 CFR Part 60 Subpart Dc. Also, add negative applicability to 40 CFR 60 Subparts D and Db and 40 CFR Part 63 Subparts DDDDD and VVVVVV.

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

Date: 07/21/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen 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		
42	SIG-E	YES	TEMP-CT	OP-UA13	106.371	Add to permit with negative applicability to 40 CFR Part 63 Subpart Q.
43	SIG-E	YES	HPC-52	OP-REQ3	2487	Add to permit with applicability 40 CFR Part 63 Subpart VVVVVV.
44	SIG-E	YES	FCC-112	OP-REQ2	9402	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
45	SIG-E	YES	FCC-113	OP-REQ2	9402	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
46	SIG-E	YES	FCC-19	OP-REQ2	9402	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
47	SIG-E	YES	FCC-53	OP-REQ2	9402	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.

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

Date: 07/21/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen 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		
48	SIG-E	YES	FCC-54	OP-REQ2	9402	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
49	SIG-E	YES	FCC-55	OP-REQ2	9402	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
50	SIG-E	YES	HPC-3	OP-REQ2	2487	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
51	SIG-E	YES	PLU-1	OP-REQ2	76621	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
52	SIG-E	YES	VSP-CASCADE	OP-REQ2	21995	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
53	SIG-E	YES	FCC-115	OP-REQ2	164264	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.

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

Date: 07/21/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen 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		
54	SIG-E	YES	PLU-T5505	OP-REQ2	172244	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
55	SIG-E	YES	LOG-HOPPER	OP-REQ2	175145	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
56	SIG-E	YES	431-501	OP-REQ2	163421	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
57	SIG-E	YES	432-502	OP-REQ2	163421	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
58	SIG-E	YES	432-503	OP-REQ2	163421	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
59	SIG-E	YES	432-510	OP-REQ2	163421	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.

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

Date: 07/21/2024
Permit No.: O-1559
Regulated Entity No.: RN100211523
Company Name: Ketjen 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		
60	SIG-E	YES	434-550	OP-REQ2	163421	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
61	SIG-E	YES	434-570	OP-REQ2	163421	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.
62	SIG-E	YES	FCC-87	OP-REQ2	114491	Add to permit with negative applicability 40 CFR Part 63 Subpart VVVVVV.

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3
Texas Commission on Environmental Quality**

Date: 07/21/2024	
Permit No.: O-1559	
Regulated Entity No.: RN100211523	
Company Name: Ketjen LLC	
I. Significant Revision <i>(Complete this section if you are submitting a significant revision application or a renewal application that includes a significant revision.)</i>	
A.	Is the site subject to bilingual requirements pursuant to 30 TAC § 122.322? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
B.	Indicate the alternate language(s) in which public notice is required: Spanish
C.	Will, there be a change in air pollutant emissions as a result of the significant revision? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

**Federal Operating Permit Program
Application for Permit Revision/Renewal
Form OP-2-Table 3
Texas Commission on Environmental Quality**

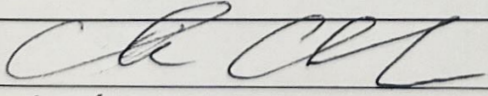
Using the table below, indicate the air pollutant(s) that will be changing and include a brief description of the change in pollutant emissions for each pollutant:

Pollutant	Description of the Change in Pollutant Emissions

2.3 OP-CR01: Certification by Responsible Official

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: RN100211523		CN: CN606211746		Account No.: HGA010J	
Permit No.: O-1559			Project No.:		
Area Name: Bayport Plant			Company Name: Ketjen LLC		
II. Certification Type <i>(Please mark the appropriate box)</i>					
<input checked="" type="checkbox"/> Responsible Official			<input type="checkbox"/> Duly Authorized Representative		
III. Submittal Type <i>(Please mark the appropriate box) (Only one response can be accepted per form)</i>					
<input type="checkbox"/> SOP/TOP Initial Permit Application		<input type="checkbox"/> Update to Permit Application			
<input type="checkbox"/> GOP Initial Permit Application		<input checked="" type="checkbox"/> Permit Revision, Renewal, or Reopening			
<input type="checkbox"/> Other: _____					
IV. Certification of Truth					
This certification does not extend to information which is designated by the TCEQ as information for reference only.					
I, <u>Chase Chicola</u> certify that I am the <u>RO</u> <i>(Certifier Name printed or typed)</i> <i>(RO or DAR)</i>					
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:					
<i>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).</i>					
Time Period: From _____ to _____ <i>Start Date</i> <i>End Date</i>					
Specific Dates: <u>07/21/2024</u> _____ <i>Date 1</i> <i>Date 2</i> <i>Date 3</i> <i>Date 4</i> <i>Date 5</i> <i>Date 6</i>					
Signature: <u></u> Signature Date: <u>7/17/24</u>					
Title: <u>plant manager</u>					

2.4 OP-SUMR: Individual Unit Summary for Revisions

**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.
07/21/2024	O-1559	RN100211523

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	1	FCC-103A	OP-SUMR	Molsieve Suspension Tank 1 Train A		9402	N022	✓
D	2	FCC-103B	OP-SUMR	Molsieve Suspension Tank 1 Train B		9402	N022	✓
D	3	FCC-9A	OP-SUMR	Final Product Bag Filter		9402	N022	DNE
D	4	HPC-61	OP-SUMR	New Mix Baghouse		2487		✓
D	5	HPC-62	OP-SUMR	Mixer Feed Hopper 4133-311		2487		✓
D	6	PLU-1A	OP-SUMR	Heat Recuperation Tower		76621		✓
D	7	PLU-1B	OP-SUMR	Flash Dryer to Bypass		76621		✓
	8	FCC-83	OP-SUMR	FCC Sump		106.262/11/01/2003[108971]		✓
	9	FCC-84	OP-SUMR	Fundabac Filter Feed Tank		106.262/11/01/2003[103969]		✓
	10	FCC-85	OP-SUMR	Logistics Baghouse		106291		✓

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)*

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
	11	FCC-86	OP-SUMR	Loadout Baghouse		106291	
						106.261/11/01/2003[114642]	
						106.262/11/01/2003[114642]	
	12	FCC-95	OP-SUMR	VCLA Storage Tanks		106.261/11/01/2003[115923]	
						106.262/11/01/2003[115923]	
	13	FCC-96	OP-SUMR	VCLA Storage Tanks 2		106.261/11/01/2003[115923]	
						106.262/11/01/2003[115923]	
	14	FCC-99A	OP-SUMR	Alumina Suspension Tank 2 Train A		106.262/11/01/2003[131209]	
	15	FCC-99B	OP-SUMR	Alumina Suspension Tank 2 Train B		106.262/11/01/2003[131209]	
	16	FCC-CT	OP-SUMR	FCC Cooling Tower		106.371/09/04/2000	

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR (continued)**

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
	17	HPC-4135-155	OP-SUMR	Manual Feed Hopper Red		2487	
	18	HPC-4135-303	OP-SUMR	Manual Feed Hopper Green		2487	
	19	HPC-ORANGE	OP-SUMR	Manual Feed Hopper Orange		2487	
	20	PLU-11	OP-SUMR	Cooling Tower		106.371/09/04/2000	
	21	4002-602	OP-SUMR	Emergency Generator (EMERGENHPC)		106.511/09/04/2000	
	22	4017-501A	OP-SUMR	Substation Generator (EMERGEN1)		106.511/09/04/2000	
	23	4017-501B	OP-SUMR	Substation Generator (EMERGEN2)		106.511/09/04/2000	
	24	4030-F1422B	OP-SUMR	Backup Generator (14 th St Gen)		106.512/09/04/2000	
	25	4030-F1522B	OP-SUMR	Backup Generator (15th St Gen)		106.512/09/04/2000	



**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)***

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
	26	433-725E	OP-SUMR	Generator (FCC GEN)		106.512/09/04/2000	
	27	FCC-102A	OP-SUMR	Final Product Calciner		9402	N022
	28	FCC-102	OP-SUMR	Phosphinic Storage Tank		9402	N022
A	29	HPC-30	OP-UA3	Mix Dose Tank 2		2487	
A	30	FCC-114	OP-UA3	Mother Liquor Tank		106.261/11/01/2003[160774]	
						106.262/11/01/2003[160774]	
A	31	TEMP-TOTE1	OP-UA3	Resupply Tote		106.261/11/01/2003[172244]	
A	32	TEMP-TOTE2	OP-UA3	Temporary Storage Tote		106.261/11/01/2003[172244]	
	33	CHB-1	OP-REQ2	Change House Boiler #1		7/09/12/1989	
	34	CHB-2	OP-REQ2	Change House Boiler #2		7/09/12/1989	



**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR (continued)**

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
	35	ENG-1	OP-REQ2	Engineering Building Boiler		7/09/12/1989	
	36	FCC-27	OP-REQ2	Boiler		9402	N022
	37	VSP-9	OP-REQ2	Boiler		21995	
	38	RSC-1	OP-REQ2	Research Boiler #1 (RDB-1)		106.183/09/04/2000	
	39	RSC-2	OP-REQ2	Research Boiler #2 (RDB-2)		106.183/09/04/2000	
A	40	RSC-3	OP-UA6 OP-UA15	Research Boiler #3		106.183/09/04/2000	
A	41	UTL-BOILER	OP-UA6 OP-UA15	Back-up Boiler		171411	
A	42	TEMP-CT	OP-UA13	Temporary Cooling Tower		106.371/09/04/2000	
A	43	HPC-52	OP-REQ3	Extruder Feed Hopper		2487	



**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR (continued)**

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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	44	FCC-112	OP-REQ2	Truck Loading Baghouse		9402	N022
A	45	FCC-113	OP-REQ2	Portaclay Unloading Baghouse		9402	N022
A	46	FCC-19	OP-REQ2	Kaolin Dosing Hopper Bag Filter 2		9402	N022
A	47	FCC-53	OP-REQ2	Crude Product Collecting Hopper Bag Filter		9402	N022
A	48	FCC-54	OP-REQ2	Crude Product Dosing Hopper Filter		9402	N022
A	49	FCC-55	OP-REQ2	Ventilation Air Bag Filter		9402	N022
A	50	HPC-3	OP-REQ2	BOC Silo Bag Filter		2487	
A	51	PLU-1	OP-REQ2	HPC Flash Dryer		76621	
A	52	VSP-CASCADE	OP-REQ2	Cascade Reactor Vent		21995	
A	53	FCC-115	OP-REQ2	Baghouse		164264	



**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR (continued)**

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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	54	PLU-T5505	OP-REQ2	Solutions Reactor		106.261/11/01/2003[172244]	
						106.262/11/01/2003[172244]	
A	55	LOG-HOPPER	OP-REQ2	FCC Logistics Hopper		106.261/11/01/2003[175145]	
						106.262/11/01/2003[175145]	
A	56	431-501	OP-REQ2	FCC 501 Belt Filter		106.262/11/01/2003[163421]	
A	57	432-502	OP-REQ2	FCC 502 Belt Filter		106.262/11/01/2003[163421]	
A	58	432-503	OP-REQ2	FCC 503 Belt Filter		106.262/11/01/2003[163421]	
A	59	432-510	OP-REQ2	FCC 510 Belt Filter		106.262/11/01/2003[163421]	
A	60	434-550	OP-REQ2	FCC 550 Belt Filter		106.262/11/01/2003[163421]	
A	61	434-570	OP-REQ2	FCC 570 Belt Filter		106.262/11/01/2003[163421]	



**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR (continued)**

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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	62	FCC-87	OP-REQ2	Open Dome Truck Loading		106.261/11/01/2003[114491]	
						106.262/11/01/2003[114491]	
		FCC-100	OP-SUMR	HCS Filter Cake Tank		9402	N022
		FCC-10	OP-SUMR	2nd Molsieve Flash Dryer		9402	N022
		FCC-109	OP-SUMR	Intermediates Silo Baghouse		9402	N022
		FCC-110	OP-SUMR	Intermediates Bag Unloading		9402	N022
		FCC-11	OP-SUMR	Reslurry Tank Bag		9402	N022
		FCC-12	OP-SUMR	2nd Molsieve Calciner		9402	N022
		FCC-14	OP-SUMR	Rare Earth Chloride Storage Tank		9402	N022
		FCC-15	OP-SUMR	Ammonia Scrubber		9402	N022

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**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)***

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
		FCC-16	OP-SUMR	Portaclay/Reslurry Vent Bag Filter		9402	N022
		FCC-18	OP-SUMR	Strike Tanks Vent		9402	N022
		FCC-20	OP-SUMR	C Alumina Storage Silo Bag Filter		9402	N022
		FCC-21	OP-SUMR	Spray Dryer		9402	N022
		FCC-23	OP-SUMR	Separator Fines Bag Filter		9402	N022
		FCC-34	OP-SUMR	Ammonia Absorber		9402	N022
		FCC-40	OP-SUMR	Kaolin Unloading Bag Filter		9402	N022
		FCC-41	OP-SUMR	Sulfuric Acid Storage Tank		9402	N022
		FCC-44	OP-SUMR	Ammonia Storage Tank/Scrubber		9402	N022
		FCC-46	OP-SUMR	Ammonia Scrubber		9402	N022

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)***

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
		FCC-51	OP-SUMR	Crude Product Bag Filter		9402	N022
		FCC-52	OP-SUMR	Crude Product Bag Filter		9402	N022
		FCC-58	OP-SUMR	Product Dist. Conveyor Bag Filter		9402	N022
		FCC-61/FCC-76	OP-SUMR	Product Air Slide Bag Filter		9402	N022
		FCC-62	OP-SUMR	Product Air Slide Bag Filter		9402	N022
		FCC-63	OP-SUMR	Weight Scale Bag Filter		9402	N022
		FCC-64	OP-SUMR	Blended Product Bag Filter		9402	N022
		FCC-65	OP-SUMR	Bulk Loading Station Bag Filter		9402	N022
		FCC-66	OP-SUMR	Portable Bag Filter		9402	N022
		FCC-68	OP-SUMR	Kaolin Silo Bag Filter		9402	N022

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)***

[Table 1](#)

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
		FCC-69	OP-SUMR	C Alumina Dosing Bag Filter		9402	N022
		FCC-70	OP-SUMR	BOC Silo Bag Filter		9402	N022
		FCC-71	OP-SUMR	BOC Dosing Bag Filter		9402	N022
		FCC-74	OP-SUMR	Final Product Calciner II		9402	N022
		FCC-75	OP-SUMR	SCR System (Thermal Oxidizer/SCR)		9402	N022
		FCC-77	OP-SUMR	FC BOC Storage Silo Bag Filter		9402	N022
		FCC-7	OP-SUMR	Phosphoric Acid raw Material Storage Tank		9402	N022
		FCC-80	OP-SUMR	Portable Bag Filter II		9402	N022
		FCC-81	OP-SUMR	Tote Bien Bag Filter		9402	N022
		FCC-82	OP-SUMR	Portable Bag Filter		9402	N022

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)***

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
		FCC-FUG	OP-SUMR	FCC Fugitives		9402	N022
		HPC-12A	OP-SUMR	Spray Dryer		2487	
		HPC-12B	OP-SUMR	NOx Scrubber		2487	
		HPC-16	OP-SUMR	Nickel Nitrate Tank		2487	
		HPC-17	OP-SUMR	HEPA Filter for Molox Bin		2487	
		HPC-18	OP-SUMR	Dust Conveyor Bag Filter		2487	
		HPC-23	OP-SUMR	Belt Dryer		2487	
		HPC-24A	OP-SUMR	Calciner 1B Bypass Stack		2487	
		HPC-24B	OP-SUMR	Calciner 2		2487	
		HPC-24	OP-SUMR	Calcine 1A Bypass Stack		2487	

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)***

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
		HPC-2	OP-SUMR	Nitric Acid Tank		2487	
		HPC-31	OP-SUMR	Base Storage Hopper Bag Filter		2487	
		HPC-32	OP-SUMR	Base Bin A Bag Filter		2487	
		HPC-33	OP-SUMR	Base Bin B Bag Filter		2487	
		HPC-34	OP-SUMR	Base Bin C Bag Filter		2487	
		HPC-35	OP-SUMR	Dust Bin A Bag Filter		2487	
		HPC-36	OP-SUMR	Dust Bin B Bag Filter		2487	
		HPC-44	OP-SUMR	Solution Reactor		2487	
		HPC-46	OP-SUMR	Cobalt Nitrate Tank		2487	
		HPC-48A	OP-SUMR	Final Product Loadout Bag Filter Maintenance		2487	

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)***

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
		HPC-48	OP-SUMR	Final Product Loadout Bag Filter		2487	
		HPC-53	OP-SUMR	Manual Feed Hopper		2487	
		HPC-54	OP-SUMR	3rd Impreg. Dryer Bag Filter		2487	
		HPC-55	OP-SUMR	3rd Impreg. Area Vent Bag Filter		2487	
		HPC-56	OP-SUMR	Dilute Nitric Acid Tank		2487	
		HPC-60	OP-SUMR	PE Receiver		2487	
		HPC-FUG	OP-SUMR	HPC Fugitives		2487	
		PLU-10	OP-SUMR	Metal Sols HEPA Filter		76621	
		PLU-2	OP-SUMR	Dust Silo Bag/HEPA Filter		76621	
		PLU-3A	OP-SUMR	Calciner		76621	

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)***

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
		PLU-3B	OP-SUMR	Calciner		76621	
		PLU-4	OP-SUMR	Dryer		76621	
		PLU-5	OP-SUMR	Vacuum System HEPA Filter		76621	
		PLU-6	OP-SUMR	HEPA Filter		76621	
		PLU-7	OP-SUMR	HEPA Filter		76621	
		PLU-8	OP-SUMR	Acetic Acid Tank		76621	
		PLU-FUG	OP-SUMR	Fugitives		76621	
		RDL-1	OP-SUMR	Spray Dryer No. 1		9626	
		RDL-2	OP-SUMR	Spray Dryer No. 2		9626	
		RDL-3	OP-SUMR	Ammonia Scrubber		9626	

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)***

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
		RDL-5	OP-SUMR	Boiler		9626	
		RDL-5	OP-SUMR	Steam Boiler		9626	
		RDL-7	OP-SUMR	Dust Collector System		9626	
		UTL-DSL	OP-SUMR	Forklift Diesel Tank		106.183/09/04/2000	
		UTL-GAS	OP-SUMR	Forklift Gasoline Tank		106.473/03/14/1997	
		UTL-MERC1	OP-SUMR	Methyl Mercaptan Tank 1		106.473/03/14/1997	
		UTL-MERC2	OP-SUMR	Methyl Mercaptan Tank 2		106.473/03/14/1997	
		UTL-PRT1	OP-SUMR	Central Shop Parts Cleaner		106.454/07/08/1998	
		UTL-PRT2	OP-SUMR	Satellite Shop Parts Cleaner		106.454/07/08/1998	
		UTL-SUB	OP-SUMR	Substation Diesel Tank		106.473/03/14/1997	

**Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR *(continued)***

Table 1

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
		VSP-10	OP-SUMR	Tank T-1423		21995	
		VSP-11	OP-SUMR	Tank T-1523		21995	
		VSP-12	OP-SUMR	F-1422 Calciner		21995	
		VSP-13	OP-SUMR	F-1522 Calciner		21995	
		VSP-1	OP-SUMR	F-1421 Flash Dryer Bag Filter		21995	
		VSP-2	OP-SUMR	F-1521 Flash Dryer Bag Filter		21995	
		VSP-3	OP-SUMR	Vacuum Vent		21995	
		VSP-4	OP-SUMR	C-1822 Ammonia Stripper Vent Scrubber		21995	
		VSP-7	OP-SUMR	HCl Tank Scrubber		21995	
		VSP-8	OP-SUMR	NH ₃ Tank Vent Scrubber		21995	

Texas Commission on Environmental Quality
Federal Operating Permit Program
Individual Unit Summary for Revisions
Form OP-SUMR (*continued*)

[Table 1](#)

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
		VSP-FUG	OP-SUMR	VSP Fugitives		21995	

2.5 OP-PBRSUP: Permits By Rule Supplemental Table

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
7/21/2024	O-1559	RN100211523

Unit ID No.	Registration No.	PBR No.	Registration Date
✓ PLU-FUG	175145	106.261, 106.262	04/12/2024
LOG-HOPPER	175145	106.261, 106.262	04/12/2024
✓ PLU-FUG	175377	106.261	03/08/2024
TEMP-TRAILER	172244	106.261	12/29/2023
✓ PLU-FUG	172244	106.261	12/29/2023
✓ PLU-4	172244	106.261	12/29/2023
✓ PLU-T5505	172244	106.261	12/29/2023
✓ TEMP-TOTE1	172244	106.261	12/29/2023
✓ TEMP-TOTE2	172244	106.261	12/29/2023
✓ VSP-FUG	174457	106.262	11/09/2023
✓ FCC-FUG	174457	106.262	11/09/2023
✓ VSP-1	174351	106.261	11/14/2023
✓ VSP-2	174351	106.261	11/14/2023
✓ VSP-12	174351	106.261	11/14/2023
✓ VSP-13	174351	106.261	11/14/2023
✓ VSP-FUG	172354	106.261, 106.262	04/19/2023
✓ FCC-FUG	172354	106.261, 106.262	04/19/2023
✓ FCC-FUG	171969	106.262	03/17/2023
✓ FCC-FUG	170968	106.262, 106.264	12/01/2022
✓ VSP-FUG	170968	106.262, 106.264	12/01/2022
✓ PLU-FUG	168488	106.261, 106.262	04/21/2022
✓ VSP-FUG	168488	106.261, 106.262	04/21/2022
FCC-75B	166858	106.263	11/08/2021
✓ FCC-46	163660	106.262	01/14/2021
✓ FCC-46	163642	106.262	01/13/2021
✓ FCC-46	163421	106.262	12/17/2020
433-201	163421	106.262	12/17/2020

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
7/21/2024	O-1559	RN100211523

Unit ID No.	Registration No.	PBR No.	Registration Date
✓ 432-502	163421	106.262	12/17/2020
✓ 432-203	163421	106.262	12/17/2020
✓ 432-510	163421	106.262	12/17/2020
✓ 434-550	163421	106.262	12/17/2020
✓ 434-570	163421	106.262	12/17/2020
✓ FCC-46	162906	106.262	10/26/2020
✓ VSP-FUG	162906	106.262	10/26/2020
✓ PLU-FUG	162906	106.262	10/26/2020
✓ FCC-FUG	161695	106.262	06/18/2020
✓ VSP-FUG	161695	106.262	06/18/2020
✓ FCC-113	160822	106.262	04/21/2020
✓ FCC-23	160822	106.262	04/21/2020
✓ FCC-114	160774	106.261, 106.262	04/22/2020
✓ FCC-84	160774	106.261, 106.262	04/22/2020
✓ FCC-FUG	160774	106.261, 106.262	04/22/2020
✓ VSP-FUG	160774	106.261, 106.262	04/22/2020
✓ HPC-FUG	160774	106.261, 106.262	04/22/2020
✓ PLU-FUG	160774	106.261, 106.262	04/22/2020
✓ HPC-12A	160024	106.261, 106.262	02/12/2020
✓ VSP-FUG	156185	106.261, 106.262	04/03/2019
✓ FCC-54	155375	106.261, 106.262	02/12/2019
✓ FCC-FUG	155375	106.261, 106.262	02/12/2019
✓ FCC-FUG	151298	106.262	05/30/2018
✓ VSP-FUG	151298	106.262	05/30/2018
✓ FCC-19	131209	106.262	07/01/2015
✓ FCC-69 (Train A)	131209	106.262	07/01/2015
✓ FCC-69 (Train B)	131209	106.262	07/01/2015

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
7/21/2024	O-1559	RN100211523

Unit ID No.	Registration No.	PBR No.	Registration Date
✓ FCC-99A	131209	106.262	07/01/2015
✓ FCC-99B	131209	106.262	07/01/2015
FCC-99	117527	106.261	05/02/2014
✓ FCC-23	115923	106.261, 106.262	03/03/2014
FCC-13.1	115923	106.261, 106.262	03/03/2014
FCC-13.2	115923	106.261, 106.262	03/03/2014
FCC-13.3	115923	106.261, 106.262	03/03/2014
FCC-35	115923	106.261, 106.262	03/03/2014
FCC-90	115923	106.261, 106.262	03/03/2014
FCC-93	115923	106.261, 106.262	03/03/2014
FCC-94	115923	106.261, 106.262	03/03/2014
FCC-95	115923	106.261, 106.262	03/03/2014
FCC-96	115923	106.261, 106.262	03/03/2014
FCC-97	115923	106.261, 106.262	03/03/2014
FCC-98	115923	106.261, 106.262	03/03/2014
FCC WW BLDG	115923	106.261, 106.262	03/03/2014
FCC Cascade	115923	106.261, 106.262	03/03/2014
✓ SP CASCADE	115923	106.261, 106.262	03/03/2014
HPC-4135-155	115923	106.261, 106.262	03/03/2014
HPC-4135-303	115923	106.261, 106.262	03/03/2014
✓ HPC-Orange	115923	106.261, 106.262	03/03/2014
✓ FCC-FUG	115923	106.261, 106.262	03/03/2014
✓ SP-FUG	115923	106.261, 106.262	03/03/2014
✓ HPC-FUG	115923	106.261, 106.262	03/03/2014
✓ PLU-FUG	115923	106.261, 106.262	03/03/2014
✓ FCC-86	114642	106.261, 106.262	02/07/2014
✓ FCC-87	114491	106.261, 106.262	02/21/2014

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
7/21/2024	O-1559	RN100211523

Unit ID No.	Registration No.	PBR No.	Registration Date
✓FCC-FUG	114394	106.261, 106.262	01/02/2014
✓SP-FUG	114394	106.261, 106.262	01/02/2014
✓FCC-100	114394	106.261, 106.262	01/02/2014
✓RSC-1	110529	106.183	07/08/2013
✓FCC-83	108971	106.262	05/07/2013
✓FCC-FUG	108971	106.262	05/07/2013
✓RDL-1	104859	106.262	09/26/2012
✓RDL-2	104859	106.262	09/26/2012
✓RDL-7	104859	106.262	09/26/2012
✓FCC-FUG	104107	106.262	08/22/2012
✓FCC-84	103969	106.262	08/24/2012
✓FUG	103969	106.262	08/24/2012
✓FCC-21	102755	106.261	08/24/2012
Fugitives	102755	106.261	08/24/2012
Pilot Plant	101157	106.262	03/29/2012
✓FCC-51	96731	106.261	08/09/2011
✓FCC-53	96731	106.261	08/09/2011
✓FCC-54	96731	106.261	08/09/2011
Feed Tank	96731	106.261	08/09/2011
Filter	96731	106.261	08/09/2011
Package	96731	106.261	08/09/2011
FUG	95994	106.262	05/18/2011
HPC Unit	80542	106.261, 106.262	01/09/2007
HPC Unit	80147	106.262	10/25/2006
✓HPC-17	76400	106.261	08/05/2005
✓RDL-7	45951	106.261, 106.262	01/24/2005
✓RDL-7	56753	106.262	01/20/2005

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
7/21/2024	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date
Sitewide	106.122	09/04/2000
Sitewide	106.124	09/04/2000
Sitewide	106.183	09/04/2000
Sitewide	106.227	03/14/1997
Sitewide	106.261	11/1/2003
Sitewide	106.262	11/1/2003
Sitewide	106.263	11/1/2003
Sitewide	106.264	09/04/2000
Sitewide	106.371	09/04/2000
TEMP-CT	106.371	09/04/2000
PLU-11	106.371	09/04/2000
FCC-CT	106.371	09/04/2000
Sitewide	106.372	09/04/2000
Sitewide	106.373	09/04/2000
Sitewide	106.433	03/14/1997
Sitewide	106.433	09/04/2000
Sitewide	106.452	09/04/2000
UTL-PRT1	106.454	07/08/1998
UTL-PRT2	106.454	07/08/1998
UTL-PRT1	106.454	11/01/2001
UTL-PRT2	106.454	11/01/2001
Sitewide	106.472	09/04/2000
Sitewide	106.473	03/14/1997
UTL-GAS	106.473	03/14/1997
UTL-MERC1	106.473	03/14/1997
UTL-MERC2	106.473	03/14/1997
UTL-SUB	106.473	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
7/21/2024	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
PLU-FUG	106.261, 106.262	04/12/2024	28AVO monitoring program.
LOG-HOPPER	106.261, 106.262	04/12/2024	Emission and distance limitation.
PLU-FUG	106.261	03/08/2024	28AVO monitoring program.
TEMP-TRAILER	106.261	12/29/2023	Emission limitation.
PLU-FUG	106.261	12/29/2023	28AVO monitoring program.
PLU-4	106.261	12/29/2023	Emission limitation.
PLU-T5505	106.261	12/29/2023	Emission limitation.
TEMP-TOTE1	106.261	12/29/2023	Throughput.
TEMP-TOTE2	106.261	12/29/2023	Throughput.
VSP-FUG	106.262	11/09/2023	28AVO monitoring program.
FCC-FUG	106.262	11/09/2023	28AVO monitoring program.
VSP-1	106.261	11/14/2023	Emission limitation.
VSP-2	106.261	11/14/2023	Emission limitation.
VSP-12	106.261	11/14/2023	Emission limitation.
VSP-13	106.261	11/14/2023	Emission limitation.
VSP-FUG	106.261, 106.262	04/19/2023	28AVO monitoring program.
FCC-FUG	106.261, 106.262	04/19/2023	28AVO monitoring program.
FCC-FUG	106.262	03/17/2023	28AVO monitoring program.
FCC-FUG	106.262, 106.264	12/01/2022	28AVO monitoring program.
VSP-FUG	106.262, 106.264	12/01/2022	28AVO monitoring program.
PLU-FUG	106.261, 106.262	04/21/2022	28AVO monitoring program.
VSP-FUG	106.261, 106.262	04/21/2022	28AVO monitoring program.
FCC-75B	106.263	11/08/2021	Date, time, and duration of event is documented.
FCC-46	106.262	01/14/2021	Emission and distance limitation.
FCC-46	106.262	01/13/2021	Emission and distance limitation.
FCC-46	106.262	12/17/2020	Emission and distance limitation.

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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
7/21/2024	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
433-201	106.262	12/17/2020	Emission and distance limitation.
432-502	106.262	12/17/2020	Emission and distance limitation.
432-203	106.262	12/17/2020	Emission and distance limitation.
432-510	106.262	12/17/2020	Emission and distance limitation.
434-550	106.262	12/17/2020	Emission and distance limitation.
434-570	106.262	12/17/2020	Emission and distance limitation.
FCC-46	106.262	10/26/2020	Emission and distance limitation.
VSP-FUG	106.262	10/26/2020	28AVO monitoring program.
PLU-FUG	106.262	10/26/2020	28AVO monitoring program.
FCC-FUG	106.262	06/18/2020	28AVO monitoring program.
VSP-FUG	106.262	06/18/2020	28AVO monitoring program.
FCC-113	106.262	04/21/2020	Emission and distance limitation.
FCC-23	106.262	04/21/2020	Emission and distance limitation.
FCC-114	106.261, 106.262	04/22/2020	Emission and distance limitation.
FCC-84	106.261, 106.262	04/22/2020	Emission and distance limitation.
FCC-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
VSP-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
HPC-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
PLU-FUG	106.261, 106.262	04/22/2020	28AVO monitoring program.
HPC-12A	106.261, 106.262	02/12/2020	Emission and distance limitation.
VSP-FUG	106.261, 106.262	04/03/2019	28AVO monitoring program.
HPC-54	106.261, 106.262	02/12/2019	Emission and distance limitation.
FCC-FUG	106.261, 106.262	02/12/2019	28AVO monitoring program.
FCC-FUG	106.262	05/30/2018	28AVO monitoring program.
VSP-FUG	106.262	05/30/2018	28AVO monitoring program.
FCC-19	106.262	07/01/2015	Emission and distance limitation.

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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
7/21/2024	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
FCC-69 (Train A)	106.262	07/01/2015	Emission and distance limitation.
FCC-69 (Train B)	106.262	07/01/2015	Emission and distance limitation.
FCC-99A	106.262	07/01/2015	Emission and distance limitation.
FCC-99B	106.262	07/01/2015	Emission and distance limitation.
FCC-99	106.261	05/02/2014	Emission limitation.
FCC-23	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-13.1	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-13.2	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-13.3	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-35	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-90	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-93	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-94	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-95	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-96	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-97	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-98	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC WW BLDG	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC Cascade	106.261, 106.262	03/03/2014	Emission and distance limitation.
VSP CASCADE	106.261, 106.262	03/03/2014	Emission and distance limitation.
HPC-4135-155	106.261, 106.262	03/03/2014	Emission and distance limitation.
HPC-4135-303	106.261, 106.262	03/03/2014	Emission and distance limitation.
HPC-Orange	106.261, 106.262	03/03/2014	Emission and distance limitation.
FCC-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.
VSP-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.
HPC-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.

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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
7/21/2024	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
PLU-FUG	106.261, 106.262	03/03/2014	28AVO monitoring program.
FCC-86	106.261, 106.262	02/07/2014	Emission and distance limitation.
FCC-87	106.261, 106.262	02/21/2014	Emission and distance limitation.
FCC-FUG	106.261, 106.262	01/02/2014	28AVO monitoring program.
VSP-FUG	106.261, 106.262	01/02/2014	28AVO monitoring program.
FCC-100	106.261, 106.262	01/02/2014	Emission and distance limitation.
RSC-1	106.183	07/08/2013	Records of hours of fuel firing and fuel oil purchases.
FCC-83	106.262	05/07/2013	Emission and distance limitation.
FCC-FUG	106.262	05/07/2013	28AVO monitoring program.
RDL-1	106.262	09/26/2012	Emission and distance limitation.
RDL-2	106.262	09/26/2012	Emission and distance limitation.
RDL-7	106.262	09/26/2012	Emission and distance limitation.
FCC-FUG	106.262	08/22/2012	28AVO monitoring program.
FCC-84	106.262	08/24/2012	Emission and distance limitation.
FUG	106.262	08/24/2012	28AVO monitoring program.
FCC-21	106.261	08/24/2012	Emission limitation.
Fugitives	106.261	08/24/2012	28AVO monitoring program.
Pilot Plant	106.262	03/29/2012	Emission and distance limitation.
FCC-51	106.261	08/09/2011	Emission limitation.
FCC-53	106.261	08/09/2011	Emission limitation.
FCC-54	106.261	08/09/2011	Emission limitation.
Feed Tank	106.261	08/09/2011	Emission limitation.
Filter	106.261	08/09/2011	Emission limitation.
Package	106.261	08/09/2011	Emission limitation.
FUG	106.262	05/18/2011	28AVO monitoring program.
HPC Unit	106.261, 106.262	01/09/2007	Emission and distance limitation.

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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
7/21/2024	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
HPC Unit	106.262	10/25/2006	Emission and distance limitation.
HPC-17	106.261	08/05/2005	Emission limitation.
RDL-7	106.261, 106.262	01/24/2005	Emission and distance limitation.
RDL-7	106.262	01/20/2005	Emission and distance limitation.
FCC-79	106.261, 106.512	01/20/2005	Hours of operation.
FCC-80	106.261, 106.512	01/20/2005	Hours of operation.
RDL-7	106.262	01/20/2005	Emission and distance limitation.
Sitewide	106.122	09/04/2000	Service type.
Sitewide	106.124	09/04/2000	Service type.
Sitewide	106.183	09/04/2000	Records of hours of fuel firing and fuel oil purchases.
Sitewide	106.227	03/14/1997	Records of brazing, soldering or welding activities.
Sitewide	106.261	11/01/2003	Emission limitation.
Sitewide	106.262	11/01/2003	Emission and distance limitation.
Sitewide	106.263	11/01/2003	Emission totals and duration.
Sitewide	106.264	09/04/2000	Replacmenet records.
Sitewide	106.371	09/04/2000	Service type.
TEMP-CT	106.371	09/04/2000	Service type.
PLU-11	106.371	09/04/2000	Service type.
FCC-CT	106.371	09/04/2000	Service type.
Sitewide	106.372	09/04/2000	Service type.
Sitewide	106.373	09/04/2000	Type of refrigerant is documented.
Sitewide	106.433	03/14/1997	Service type.
Sitewide	106.433	09/04/2000	Service type.
Sitewide	106.452	09/04/2000	Operating hours and material usage.
UTL-PRT1	106.454	07/08/1998	Record total solvent makeup.
UTL-PRT2	106.454	07/08/1998	Record total solvent makeup.

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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
7/21/2024	O-1559	RN100211523

Unit ID No.	PBR No.	Version No./Date Or Registration No.	Monitoring Requirement
UTL-PRT1	106.454	11/01/2001	Record total solvent makeup.
UTL-PRT2	106.454	11/01/2001	Record total solvent makeup.
Sitewide	106.472	09/04/2000	Service type.
Sitewide	106.473	03/14/1997	Service type, capacity, throughput.
UTL-GAS	106.473	03/14/1997	Service type, capacity, throughput.
UTL-MERC1	106.473	03/14/1997	Service type, capacity, throughput.
UTL-MERC2	106.473	03/14/1997	Service type, capacity, throughput.
UTL-SUB	106.473	03/14/1997	Service type, capacity, throughput.
Sitewide	106.478	09/04/2000	Vapor pressure, throughput, and service type.
Sitewide	106.511	03/14/1997	Hours of operation.
Sitewide	106.511	09/04/2000	Hours of operation.
4002-602	106.511	09/04/2000	Hours of operation.
4017-501A	106.511	09/04/2000	Hours of operation.
4017-501B	106.511	09/04/2000	Hours of operation.
Sitewide	106.512	03/14/1997	Hours of operation.
Sitewide	106.512	09/04/2000	Hours of operation.
4030-F1422B	106.512	09/04/2000	Hours of operation.
4030-F1522B	106.512	09/04/2000	Hours of operation.
433-725E	106.512	09/04/2000	Hours of operation.
Sitewide	106.512	06/13/2001	Hours of operation.
Sitewide	7	09/12/1989	Hours of operation.
CHB-1	7	09/12/1989	Hours of operation.
CHB-2	7	09/12/1989	Hours of operation.
ENG-1	7	09/12/1989	Hours of operation.

3. UNIT ATTRIBUTE FORMS

OP-UA3: Storage Tank Vessel Attributes

OP-UA6: Boiler/Steam Generator/Steam Generating Unit Attributes

OP-UA13: Industrial Process Cooling Tower Attributes

**OP-UA15: Emission Point/Stationary Vent/Distillation
Operation/Process Vent Attributes**

3.1 OP-UA3: Storage Tank Vessel Attributes

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.
07/21/2024	O-1559	RN100211523

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.
HPC-30	63Kb-01	OTHER								
FCC-114	63Kb-01	OTHER								
TEMP-TOTE1	63Kb-02	VOL	10K-							
TEMP-TOTE1	63Kb-02	VOL	10K-							

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.
07/21/2024	0-1559	RN100211523

✓

Unit ID No.	SOP/GOP Index No.	Alternate Control Requirement	ACR ID No.	Product Stored	Storage Capacity	Throughput	Potential to Emit	Uncontrolled Emissions
HPC-30	R5112-01	NO		OTHER1				
FCC-114	R5112-01	NO		OTHER1				
TEMP-TOTE1	R5112-02	NO		VOC1	A1K-			
TEMP-TOTE1	R5112-02	NO		VOC1	A1K-			

3.2 OP-UA6: Boiler/Steam Generator/Steam Generating Unit Attributes

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 1)
Federal Operating Permit Program
Table 1a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart D: Standards of Performance for Fossil Fuel-Fired Steam Generators
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

Unit ID No.	SOP Index No.	Construction/Modification Date	Covered Under Subpart Da or KKKK	Changes to Existing Affected Facility	Heat Input Rate	Alternate 42C	PM CEMS	Opacity Monitoring	Gas/Liquid Fuel	Fuels with 0.33 % or Less Sulfur	Specific Site
UTL-BOILER	60D	78+	NO	NO	250-						

Boiler/Steam Generator/Steam Generating Unit Attributes
Form OP-UA6 (Page 6)
Federal Operating Permit Program
Table 3a: Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60)
Subpart Db: Standards of Performance for Industrial-Commercial Steam Generating Units
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
07/21/2024	0-1559	RN100211523

✓

Unit ID No.	SOP Index No.	Construction/Modification Date	Heat Input Capacity	Subpart Da	Changes to Existing Affected Facility	Subpart Ea, Eb, or AAAA	Subpart KKKK	Subpart Cb or BBBB
RSC-3	60Db-01	05+M	100-					
UTL-BOILER	60Db-01	05+M	100-					

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.
07/21/2024	0-1559	RN100211523

✓

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
RSC-3	60Dc-01	05+	10-								
UTL-BOILER	60Dc-02	05+	10-100	NONE	75-100	NG			OTHR	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 Steam Generating Units
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
07/21/2024	0-1559	RN100211523

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
RSC-3	60Dc-01						
✓ UTL-BOILER	60Dc-02	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.
07/21/2024	0-1559	RN100211523

✓

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
RSC-3	R7ICI-01	ICIB	2-						
UTL-BOILER	R7ICI6	ICIB	40-100			NG			22+

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.
07/21/2024	0-1559	RN100211523

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
RSC-3	R7ICI-01								
✓ UTL-BOILER	R7ICI6	310D				NO	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.
07/21/2024	0-1559	RN100211523

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
RSC-3	R7ICI-01							
✓ UTL-BOILER	R7ICI6		MERT	X40A	ACSS	OTHER		

3.3 OP-UA13: Industrial Process Cooling Tower Attributes

Texas Commission on Environmental Quality

Cooling Tower Attributes

Form OP-UA13 (Page 1)

Federal Operating Permit Program

Table 1: Title 40 Code of Federal Regulations Part 63 (40 CFR Part 63)

Subpart Q: National Emission Standards for Hazardous Air Pollutants (HAPs) for Industrial Process Cooling Towers

Date	Permit No.:	Regulated Entity No.
07/21/2024	0-1559	RN100211523

✓	Unit ID No.	SOP Index No.	Used Compounds Containing Chromium on or After September 8, 1994	Initial Start-up Date
	TEMP-CT	63Q	NO	

3.4 OP-UA15: Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes

**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.
07/21/2024	0-1559	RN100211523

✓	Emission Point ID No.	SOP/GOP Index No.	Alternate Opacity Limitation	AOL ID No.	Vent Source	Opacity Monitoring System	Construction Date	Effluent Flow Rate
	RSC-3	R11111	NO		OTHER	NONE	72+	100-
✓	UTL-BOILER	R7ICI1	NO		OTHER	NONE	72+	100-

4. APPLICABILITY IDENTIFICATION FORMS

**OP-REQ1: Application Area-wide Applicability Determinations and
General Information**

OP-REQ2: Negative Applicable Requirement Determinations

OP-REQ3: Applicable Requirements Summary

4.1 OP-REQ1: Application Area-wide Applicability Determinations and General Information

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

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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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The application area includes stationary vents constructed after January 31, 1972. <i>If the responses to Questions I.A.1 and I.A.2 are both "NO," go to Question I.A.6.</i> <i>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.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. All stationary vents are addressed on a unit specific basis.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	6. The application area includes structures subject to 30 TAC § 111.111(a)(7)(A).	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	8. Emissions from units in the application area include contributions from uncombined water.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

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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.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	b. The application area is located within the Fort Bliss Military Reservation, except areas specified in 30 TAC § 111.141.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	c. The application area is located in the portion of Harris County inside the loop formed by Beltway 8.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>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.</i>	
2. Items a - d determine the specific applicability of these requirements.	
◆	a. The application area is subject to 30 TAC § 111.143.
	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	b. The application area is subject to 30 TAC § 111.145.
	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	c. The application area is subject to 30 TAC § 111.147.
	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	d. The application area is subject to 30 TAC § 111.149.
	<input type="checkbox"/> YES <input type="checkbox"/> NO
C. Emissions Limits on Nonagricultural Processes	
◆	1. The application area includes a nonagricultural process subject to 30 TAC § 111.151.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2. The application area includes a vent from a nonagricultural process that is subject to additional monitoring requirements.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If the response to Question I.C.2 is "NO," go to Question I.C.4.</i>	
	3. All vents from nonagricultural process in the application area are subject to additional monitoring requirements.
	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
5. The application area includes oil or gas fuel-fired steam generators that are subject to additional monitoring requirements. <i>If the response to Question I.C.5 is "NO," go to Question I.C.7.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
6. All oil or gas fuel-fired steam generators in the application area are subject to additional monitoring requirements.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area includes solid fossil fuel-fired steam generators subject to 30 TAC §§ 111.153(a) and 111.153(b).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
8. The application area includes solid fossil fuel-fired steam generators that are subject to additional monitoring requirements. <i>If the response to Question I.C.8 is "NO," go to Section I.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
9. All solid fossil fuel-fired steam generators in the application area are subject to additional monitoring requirements.	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Emissions Limits on Agricultural Processes	
1. The application area includes agricultural processes subject to 30 TAC § 111.171.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
E. Outdoor Burning	
◆ 1. Outdoor burning is conducted in the application area. <i>If the response to Question I.E.1 is "NO," go to Section II.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. Fire training is conducted in the application area and subject to the exception provided in 30 TAC § 111.205.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. Disposal fires are used in the application area and subject to the exception provided in 30 TAC § 111.209.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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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.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	6. Hydrocarbon burning is used in the application area and subject to the exception provided in 30 TAC § 111.213.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	7. The application area has received the TCEQ Executive Director approval of otherwise prohibited outdoor burning according to 30 TAC § 111.215.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>See instructions for inclusive counties. If the response to Question III.A.1 is "NO," go to Section IV.</i>
	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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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. <i>If the response to Question III.C.1 is "NO" or "N/A," go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
2. The application area is located at a petroleum refinery in the Beaumont/Port Arthur or Houston/Galveston/Brazoria area. <i>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.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question III.C.3 is "YES," go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question III.C.4 is "YES," go to Section III.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Loading and Unloading of VOCs	
◆ 1. The application area includes VOC loading operations.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 2. The application area includes VOC transport vessel unloading operations. <i>For GOP applications, if the responses to Questions III.D.1 - D.2 are "NO," go to Section III.E.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question III.E.1 is "NO," go to Section III.F.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question III.E.2 and/or E.3 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 4. The application area is located in a covered attainment county as defined in 30 TAC § 115.10. <i>If the response to Question III.E.4 is "NO," go to Question III.E.9.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 5. Stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons are located at the facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 6. Stationary gasoline storage containers with a nominal capacity greater than 1,000 gallons are located at the facility.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question III.E.7 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question III.E.8 is "YES," go to Section III.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

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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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> 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. <i>If the response to Question III.G.1 is "NO" or "N/A," go to Section III.H.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	2. The application area includes facilities that began construction on or after November 15, 1992 and prior to May 16, 2012.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	3. The application area includes facilities that began construction prior to November 15, 1992. <i>If the responses to Questions III.G.2 and Question III.G.3 are both "NO," go to Section III.H.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes only facilities that have a monthly throughput of less than 10,000 gallons of gasoline.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

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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. <i>If the response to Question III.H.1 is "NO" or "N/A," go to Section III.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes a motor vehicle fuel dispensing facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area includes stationary tanks, reservoirs, or other containers holding gasoline and having a nominal capacity of 500 gallons or less.	<input type="checkbox"/> YES <input type="checkbox"/> NO
I. Process Unit Turnaround and Vacuum-Producing Systems in Petroleum Refineries	
1. The application area is located at a petroleum refinery.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

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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. <i>If the response to Question III.K.1 is "N/A," go to Section III.L.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
3. Asphalt emulsion is used or produced within the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area is using an alternate control requirement as specified in 30 TAC § 115.513. <i>If the response to Question III.K.4 is "NO," go to Section III.L.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area uses, applies, sells, or offers for sale cutback asphalt that is used solely as a penetrating prime coat.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The applicant using cutback asphalt is a state, municipal, or county agency.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question III.L.1 is "NO" or "N/A," go to Section III.M.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. Degassing of only ocean-going, self-propelled VOC marine vessels is performed in the application area. <i>If the response to Question III.L.2 is "YES," go to Section III.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

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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.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> 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 \geq 0.5 psia that have sustained damage as specified in 30 TAC § 115.547(5) is performed in the application area.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
M. Petroleum Dry Cleaning Systems		
	1. The application area contains one or more petroleum dry cleaning facilities that use petroleum based solvents.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

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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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area includes one or more flares that emit or have the potential to emit HRVOC. <i>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.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the responses to Questions III.N.3 and III.N.4 are both "NO," go to Section III.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area contains pressure relief valves that are not controlled by a flare.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area has at least one vent stream which has no potential to emit HRVOC.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area has vent streams from a source described in 30 TAC § 115.727(c)(3)(A) - (H).	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

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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. <i>For SOP applications, if the response to Question IV.A.1 is "YES," complete Sections IV.B - IV.F and IV.H.</i> <i>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.</i> <i>For GOP applications for GOP 517, if the response to Question IV.A.1 is "YES," complete Sections IV.C and IV.F.</i> <i>For GOP applications, if the response to Question IV.A.1 is "NO," go to Section VI.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. The application area is located in Bexar, Comal, Ellis, Hays, or McLennan County and includes a cement kiln. <i>If the response to Question IV.A.2 is "YES," go to Question IV.H.1.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes a utility electric generator in an east or central Texas county. <i>See instructions for a list of counties included.</i> <i>If the response to Question IV.A.3 is "YES," go to Question IV.G.1.</i> <i>If the responses to Questions IV.A.1 - 3 are all "NO," go to Question IV.H.1.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question IV.B.1 is "NO," go to Question IV.C.1.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is complying with a System Cap in 30 TAC §§ 117.1020 or 117.1220.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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IV. Title 30 TAC Chapter 117 - Control of Air Pollution from Nitrogen Compounds (continued)		
C. Commercial, Institutional, and Industrial Sources in Ozone Nonattainment Areas		
◆	<div>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.</div> <div><i>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.</i></div>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	2. The application area is located at a site that was a major source of NO _x before November 15, 1992.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	3. The application area includes an electric generating facility required to comply with the System Cap in 30 TAC § 117.320.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
D. Adipic Acid Manufacturing		
	1. The application area is located at, or part of, an adipic acid production unit.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
E. Nitric Acid Manufacturing - Ozone Nonattainment Areas		
	1. The application area is located at, or part of, a nitric acid production unit.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
F. Combustion Control at Minor Sources in Ozone Nonattainment Areas - Boilers, Process Heaters, Stationary Engines and Gas Turbines		
◆	<div>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).</div> <div><i>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.</i></div>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The application area has units subject to the emission specifications under 30 TAC §§ 117.2010 or 30 TAC § 117.2110.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question IV.F.6 is "NO," go to Section IV.G.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
	7. An ACSS for carbon monoxide (CO) has been approved?	<input type="checkbox"/> YES <input type="checkbox"/> NO
	8. An ACSS for ammonia (NH ₃) has been approved?	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question IV.G.1 is "NO," go to Question IV.H.1.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2. The application area is complying with the System Cap in 30 TAC § 117.3020.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to question IV.H.1 is "NO," go to Section V.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	2. All water heaters, boilers or process heaters manufactured, distributed, retailed or installed qualify for an exemption under 30 TAC § 117.3203.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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 refinishing coatings or coating components and sells or distributes these coatings or coating components in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area imports automobile refinishing coatings or coating components, manufactured on or after January 11, 1999, and sells or distributes these coatings or coating components in the United States. <i>If the responses to Questions V.A.1 and V.A.2 are both "NO," go to Section V.B.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. All automobile refinishing 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area is a distributor of consumer products whose name appears on the label of one or more of the products. <i>If the responses to Questions V.B.1 - V.B.3 are all "NO," go to Section V.C.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area manufactures or imports architectural coatings that are registered under the Federal Insecticide, Fungicide, and Rodenticide Act. <i>If the responses to Questions V.C.1-2 are both "NO," go to Section V.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is a distributor of aerosol coatings for resale or distribution in the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question V.E.1 is "NO," go to Section VI.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VI.A.1 is "NO," go to Section VII.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VI.B.1 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The coal preparation and processing plant has a design capacity greater than 200 tons per day (tpd). <i>If the response to Question VI.B.2 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The plant has an option to enforceably limit its operating level to less than 200 tpd and is choosing this option. <i>If the response to Question VI.B.3 is "YES," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The plant contains an open storage pile, as defined in § 60.251, as an affected facility. <i>If the response to Question VI.B.4 is "NO," go to Section VI.C.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The open storage pile was constructed, reconstructed or modified after May 27, 2009.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VI.C.1 is "NO" or "N/A," go to Section VI.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> 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. <i>If the response to Question VI.C.2 is "NO," go to Section VI.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
D. Subpart XX - Standards of Performance for Bulk Gasoline Terminals		
	1. The application area includes bulk gasoline terminal loading racks. <i>If the response to Question VI.D.1 is "NO," go to Section VI.E.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
E. Subpart LLL - Standards of Performance for Onshore Natural Gas Processing: Sulfur Dioxide (SO₂) Emissions		
◆	1. The application area includes affected facilities identified in 40 CFR § 60.640(a) that process natural gas (onshore). <i>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.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The affected facilities commenced construction or modification after January 20, 1984 and on or before August 23, 2011. <i>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.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>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.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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 (SO₂) Emissions (continued)		
◆	<p>4. Federally enforceable operating limits have been established in the preconstruction authorization limiting the gas sweetening unit to less than 2 LTPD.</p> <p><i>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.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	<p>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.</p>	
F. Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants		
	<p>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.</p> <p><i>If the response to Question VI.F.1 is "NO," go to Section VI.G.</i></p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	<p>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.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
G. Subpart QQQ - Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems		
	<p>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.</p> <p><i>If the response to Question VI.G.1 is "NO," go to Section VI.H.</i></p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	<p>2. The application area includes storm water sewer systems.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area includes non-contact cooling water systems.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5.	The application area includes individual drain systems. <i>If the response to Question VI.G.5 is "NO," go to Section VI.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
6.	The application area includes one or more individual drain systems that meet the exemption specified in 40 CFR § 60.692-2(d).	<input type="checkbox"/> YES <input type="checkbox"/> NO
7.	The application area includes completely closed drain systems.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>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.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4.	The application area includes at least one air curtain incinerator. <i>If the response to Question VI.H.4 is "NO," go to Section VI.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VI.H.5 is "NO," go to Question VI.H.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>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.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.I.4 is "NO," go to Section VI.J.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VI.I.5 is "NO," go to VI.I.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>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.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	4. The application area includes at least one air curtain incinerator. <i>If the response to Question VI.J.4 is "NO," go to Section VI.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VI.J.5 is "NO," go to Question VI.J.7.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.
	<input type="checkbox"/> YES <input type="checkbox"/> 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.
	<input type="checkbox"/> YES <input type="checkbox"/> 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.
	<input type="checkbox"/> YES <input type="checkbox"/> 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.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question VII.A.1 is "NO" or "N/A," go to Section VIII.</i>
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.
	<input type="checkbox"/> YES <input type="checkbox"/> 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.
	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

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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). <i>If the response to Question VII.D.1 is "NO," go to Section VII.E.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
2. The application area includes equipment in benzene service as determined by 40 CFR § 61.137(b).	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area has elected to comply with the provisions of 40 CFR § 61.243-1 and 40 CFR § 61.243-2.	<input type="checkbox"/> YES <input type="checkbox"/> NO
E. Subpart M - National Emission Standard for Asbestos	
<i>Applicability</i>	
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. <i>If the response to Question VII.E.1 is "NO," go to Section VII.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Roadway Construction</i>	
2. The application area includes roadways constructed or maintained with asbestos tailings or asbestos-containing waste material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Manufacturing Commercial Asbestos</i>	
3. The application area includes a manufacturing operation using commercial asbestos. <i>If the response to Question VII.E.3 is "NO," go to Question VII.E.4.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
a. Visible emissions are discharged to outside air from the manufacturing operation	<input type="checkbox"/> YES <input type="checkbox"/> NO
b. An alternative emission control and waste treatment method is being used that has received prior U.S. Environmental Protection Agency (EPA) approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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)	
<i>Manufacturing Commercial Asbestos (continued)</i>	
c. Asbestos-containing waste material is processed into non-friable forms.	<input type="checkbox"/> YES <input type="checkbox"/> NO
d. Asbestos-containing waste material is adequately wetted.	<input type="checkbox"/> YES <input type="checkbox"/> NO
e. Alternative filtering equipment is being used that has received EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> 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	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Asbestos Spray Application</i>	
4. The application area includes operations in which asbestos-containing materials are spray applied. <i>If the response to Question VII.E.4 is "NO," go to Question VII.E.5.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
a. Asbestos fibers are encapsulated with a bituminous or resinous binder during spraying and are not friable after drying. <i>If the response to Question VII.E.4.a is "YES," go to Question VII.E.5.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
b. Spray-on applications on buildings, structures, pipes, and conduits do not use material containing more than 1% asbestos.	<input type="checkbox"/> YES <input type="checkbox"/> NO
c. An alternative emission control and waste treatment method is being used that has received prior EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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)	
<i>Asbestos Spray Application (continued)</i>	
d. Asbestos-containing waste material is processed into non-friable forms.	<input type="checkbox"/> YES <input type="checkbox"/> NO
e. Asbestos-containing waste material is adequately wetted.	<input type="checkbox"/> YES <input type="checkbox"/> NO
f. Alternative filtering equipment is being used that has received EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO
g. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Fabricating Commercial Asbestos</i>	
5. The application area includes a fabricating operation using commercial asbestos. <i>If the response to Question VII.E.5 is "NO," go to Question VII.E.6.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
a. Visible emissions are discharged to outside air from the manufacturing operation.	<input type="checkbox"/> YES <input type="checkbox"/> NO
b. An alternative emission control and waste treatment method is being used that has received prior EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO
c. Asbestos-containing waste material is processed into non-friable forms.	<input type="checkbox"/> YES <input type="checkbox"/> NO
d. Asbestos-containing waste material is adequately wetted.	<input type="checkbox"/> YES <input type="checkbox"/> NO
e. Alternative filtering equipment is being used that has received EPA approval.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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)	
<i>Fabricating Commercial Asbestos (continued)</i>	
f. A HEPA filter is being used that is certified to be at least 99.97% efficient for 0.3 micron particles.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Non-sprayed Asbestos Insulation</i>	
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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Asbestos Conversion</i>	
7. The application area includes operations that convert regulated asbestos-containing material and asbestos-containing waste material into nonasbestos (asbestos-free) material.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VII.G.1 is "NO," go to Section VII.H.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
2. The application area includes benzene transfer operations at marine vessel loading racks.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes benzene transfer operations at tank-truck loading racks.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the responses to Questions VII.H.1 and VII.H.2 are both "NO," go to Section VIII.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area is located at a site that has no benzene onsite in wastes, products, byproducts, or intermediates. <i>If the response to Question VII.H.3 is "YES," go to Section VIII.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VII.H.4 is "YES," go to Section VIII</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VII.H.5 is "YES," go to Section VIII.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area has waste streams with flow-weighted annual average water content of 10% or greater.	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
11. The application area transfers waste off-site for treatment by another facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. The application area is complying with 40 CFR § 61.342(d).	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. The application area is complying with 40 CFR § 61.342(e). <i>If the response to Question VII.H.13 is "NO," go to Question VII.H.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area has facility waste with a flow weighted annual average water content of less than 10%.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VII.H.15 is "NO," go to Question VII.H.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VII.H.16 is "YES," go to Question VII.H.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VII.H.18 is "NO," go to Question VII.H.25.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
19. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VII.H.19 is "YES," go to Question VII.H.25.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
20. The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VII.H.20 is "NO," go to Question VII.H.22.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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)	
<i>Individual Drain Systems (continued)</i>	
22. The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VII.H.22 is "NO," go to Question VII.H.25.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
24. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Remediation Activities</i>	
25. Remediation activities take place at the application area subject to 40 CFR Part 61, Subpart FF.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>See instructions for 40 CFR Part 63 subparts made applicable only by reference.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VIII.B.1 is "NO," go to Section VIII.D.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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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)	
<p>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).</p> <p><i>If the response to Question VIII.B.2 is "NO," go to Section VIII.D.</i></p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<p>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.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>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.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>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 <u>not</u> 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.</p> <p><i>If the response to Questions VIII.B.3, B.4 and B.5 are all "NO," go to Section VIII.D.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.C.1 is "NO," go to Section VIII.D.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
2.	The application area includes fixed roofs, covers, and/or enclosures that are required to comply with 40 CFR § 63.148.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.	The application area includes vapor collection systems or closed-vent systems that are required to comply with 40 CFR § 63.148. <i>If the response to Question VIII.C.3 is "NO," go to Question VIII.C.8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4.	The application area includes vapor collection systems or closed-vent systems that are constructed of hard-piping.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.C.5 is "NO," go to Question VIII.C.8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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)	
<i>Reloading or Cleaning of Railcars, Tank Trucks, or Barges</i>	
8. The application area includes reloading and/or cleaning of railcars, tank trucks, or barges that deliver HAPs to a storage tank. <i>If the response to Question VIII.C.8 is "NO," go to Question VIII.C.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
10. The application area includes operations that are complying with § 63.119(g)(6) through the use of a vapor balancing system.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Transfer Racks</i>	
11. The application area includes Group 1 transfer racks that load organic HAPs.	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>Process Wastewater Streams</i>	
12. The application area includes process wastewater streams. <i>If the response to Question VIII.C.12 is "NO," go to Question VIII.C.34.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart FF. <i>If the response to Question VIII.C.13 is "NO," go to Question VIII.C.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area includes process wastewater streams that are complying with 40 CFR §§ 63.110(e)(1)(i) and (e)(1)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Part 61, Subpart F. <i>If the response to Question VIII.C.15 is "NO," go to Question VIII.C.17.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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)	
<i>Process Wastewater Streams (continued)</i>	
16. The application area includes process wastewater streams utilizing the compliance option specified in 40 CFR § 63.110(f)(4)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes process wastewater streams that are also subject to the provisions of 40 CFR Parts 260 through 272. <i>If the response to Question VIII.C.17 is "NO," go to Question VIII.C.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO
19. The application are includes process wastewater streams complying with 40 CFR § 63.110(e)(2)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
21. The application area includes process wastewater streams, located at existing sources that are Group 2.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.C.24 is "YES," go to Question VIII.C.34.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.C.25 is "NO," go to Question VIII.C.27.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
28. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.C.27 - VIII.C.28 are both "NO," go to Question VIII.C.30.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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)	
<i>Drains</i>	
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. <i>If the response to Question VIII.C.31 is "NO," go to Question VIII.C.34.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VIII.C.34 is "NO," go to Question VIII.C.39.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VIII.C.35 is "NO," go to Question VIII.C.39.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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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. <i>If the response to Question VIII.E.1 is "NO," go to Section VIII.F.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Sterilization facilities located in the application area are subject to 40 CFR Part 63, Subpart O. <i>If the response to Question VIII.E.2 is "NO," go to Section VIII.F.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
F. Subpart Q - National Emission Standards for Industrial Process Cooling Towers	
1. The application area includes industrial process cooling towers. <i>If the response to Question VIII.F.1 is "NO," go to Section VIII.G.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. Chromium-based water treatment chemicals have been used on or after September 8, 1994.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes a pipeline breakout station. <i>If the responses to Questions VIII.G.1 and VIII.G.2 are both "NO," go to Section VIII.H.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question VIII.G.3 is "YES," go to Question VIII.G.10.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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)	
<p>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. <i>If the response to Question VIII.G.4 is "YES," go to Question VIII.G.10.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>5. An emissions screening factor was calculated for the bulk gasoline terminal or pipeline breakout station. <i>If the response to Question VIII.G.5 is "NO," go to Question VIII.G.10.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>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). <i>If the response to Question VIII.G.6 is "NO," go to Question VIII.G.10.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>7. Emissions screening factor less than 0.5 (ET or EP < 0.5). <i>If the response to Question VIII.G.7 is "YES," go to Section VIII.H.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>8. Emissions screening factor greater than or equal to 0.5, but less than 1.0 (0.5 ≤ ET or EP < 1.0). <i>If the response to Question VIII.G.8 is "YES," go to Section VIII.H.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>9. Emissions screening factor greater than or equal to 1.0 (ET or EP ≥ 1.0). <i>If the response to Question VIII.G.9 is "YES," go to Question VIII.G.11.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>10. The site at which the application area is located is a major source of HAP. <i>If the response to Question VIII.G.10 is "NO," go to Section VIII.H.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>11. The application area is using an alternative leak monitoring program as described in 40 CFR § 63.424(f).</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.H.1 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area uses processes and materials specified in 40 CFR § 63.440(a)(1) - (3). <i>If the response to Question VIII.H.2 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes one or more sources subject to 40 CFR Part 63, Subpart S that are existing sources. <i>If the response to Question VIII.H.3 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes one or more kraft pulping systems that are existing sources.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The application area includes one or more dissolving-grade bleaching systems that are existing sources at a kraft or sulfite pulping mill.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.H.6 is "NO," go to Section VIII.I.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO
8. The application area includes bleaching systems that are complying with 40 CFR § 63.440(d)(3)(ii).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question VIII.J.1 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question VIII.J.2 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. The application area includes process wastewater streams that are Group 2 for organic HAPs as defined in 40 CFR § 63.482.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.J.5 is "YES," go to Question VIII.J.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.J.6 is "NO," go to Question VIII.J.8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.J.8 - VIII.J.9 are both "NO," go to Question VIII.J.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.J.12 is "NO," go to Question VIII.J.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
15. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an elastomer product process unit. <i>If the response to Question VIII.J.15 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VIII.J.16 is "NO," go to Section VIII.K.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.K.1 is "NO" or "N/A," go to Section VIII.L.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area includes a BLR and/or WSR research and development facility.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.L.1 is "NO" or "N/A," go to Section VIII.M.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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). <i>If the response to Question VIII.N.1 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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). <i>If the response to Question VIII.N.2 is "YES," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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). <i>If the response to Question VIII.N.3 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.N.4 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.N.7 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
8. The application area includes Group 1 or Group 2 wastewater streams that are complying with 40 CFR § 63.640(o)(2)(i).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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). <i>If the response to Question VIII.N.9 is "NO," go to Section VIII.O.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VIII.O.1 is "NO" or "N/A," go to Section VIII.P</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. Materials specified in 40 CFR § 63.680(b)(2) are received at the application area.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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).	<input type="checkbox"/> YES <input type="checkbox"/> 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.”	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The predominant activity in the application area is the treatment of wastewater received from off-site.	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.O.10 is “YES,” go to Section VIII.P.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.O.11 is "NO," go to Question VIII.O.14.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. VOHAP concentration is determined by direct measurement.	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. VOHAP concentration is based on knowledge of the off-site material.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.O.14 is "NO," go to Question VIII.O.17.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
16. An equipment component in the application area is intended to operate 300 hours or more during a 12-month period.	<input type="checkbox"/> YES <input type="checkbox"/> NO
17. The application area includes containers that manage non-exempt off-site material.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes individual drain systems that manage non-exempt off-site materials.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.P.1 is "NO" or "N/A," go to Section VIII.Q.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area includes one or more of the affected sources specified in 40 CFR § 63.741(c)(1) - (7).	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>For SOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.R.</i> <i>For GOP applications, if the responses to Questions VIII.Q.1 and VIII.Q.2 are both "NO," go to Section VIII.Z.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆ 3. The application area contains only facilities that exclusively process, store or transfer black oil as defined in § 63.761. <i>For SOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.R.</i> <i>For GOP applications, if the response to Question VIII.Q.3 is "YES," go to Section VIII.Z.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆ 4. The application area is located at a site that is a major source of HAP. <i>If the response to Question VIII.Q.4 is "NO," go to Question VIII.Q.6.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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)		
◆	<p>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 ft³) per day and a facility-wide actual annual average hydrocarbon liquid throughput less than 39,700 liters (10,487.6 gallons) per day.</p> <p><i>For SOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.R.</i></p> <p><i>For GOP applications, if the response to Question VIII.Q.5 is "YES," go to Section VIII.Z.</i></p> <p><i>For all applications, if the response to Question VIII.Q.5 is "NO," go to Question VIII.Q.9.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	<p>6. The application area includes a triethylene glycol (TEG) dehydration unit.</p> <p><i>For SOP applications, if 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.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	<p>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.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	<p>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.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	<p>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).</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.R.1 is "NO," go to Section VIII.S.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Shipbuilding or ship repair operations located in the application area are subject to 40 CFR Part 63, Subpart II.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.S.1 is "NO" or "N/A," go to Section VIII.T.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
2. The application area meets the definition of an "incidental wood manufacturer" as defined in 40 CFR § 63.801.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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. <i>If the response to Question VIII.U.1 is "NO," go to Section VIII.V.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes containers using Container Level 1 controls.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. The application area includes containers using Container Level 2 controls.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the responses to Questions VIII.W.1 and VIII.W.2 are both "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.W.6 is "NO," go to Question VIII.W.8.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.W.8 and W.9 are both "NO," go to Question VIII.W.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.W.12 is "NO," go to Question VIII.W.15.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.W.15 is "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VIII.W.16 is "NO," go to Question VIII.W.20.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
20. The application area includes an ethylene production process unit.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
21. The application area includes waste streams generated from an ethylene production process unit. <i>If the responses to Questions VIII.W.20 and VIII.W.21 are both "NO" or "N/A," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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). <i>If the response to Question VIII.W.22 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
23. Waste stream(s) are transferred off-site for treatment. <i>If the response to Question VIII.W.23 is "NO," go to Question VIII.W.25.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
24. The application area has waste management units that treat or manage waste stream(s) prior to transfer off-site for treatment. <i>If the response to Question VIII.W.24 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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).	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VIII.W.26 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.W.27 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VIII.W.28 is "NO," go to Question VIII.W.33.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
29. The application area includes containers that receive, manage, or treat a continuous butadiene waste stream.	<input type="checkbox"/> YES <input type="checkbox"/> NO
30. The application area includes individual drain systems that receive, manage, or treat a continuous butadiene waste stream. <i>If the response to Question VIII.W.30 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.W.32 is required, go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
33. The application area has containers, as defined in 40 CFR § 61.341, that receive a continuous butadiene waste stream. <i>If the response to Question VIII.W.33 is "NO," go to Question VIII.W.36.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
34. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VIII.W.34 is "YES," go to Question VIII.W.36.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
35. Covers and closed-vent systems used for containers operate such that the container is maintained at a pressure less than atmospheric pressure.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.W.36 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
37. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VIII.W.37 is "YES," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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). <i>If the response to Question VIII.W.38 is "NO," go to Question VIII.W.40.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
40. The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VIII.W.40 is "NO," go to Question VIII.W.43.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
42. Junction box vent pipes in the individual drain systems are connected to a closed-vent system and control device.	<input type="checkbox"/> YES <input type="checkbox"/> NO
43. The application area has at least one waste stream that contains benzene. <i>If the response to Question VIII.W.43 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
44. The application area has containers, as defined in 40 CFR § 61.341, that receive a waste stream containing benzene. <i>If the response to Question VIII.W.44 is "NO," go to Question VIII.W.47.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
45. The application area is an alternate means of compliance to meet the 40 CFR § 61.345 requirements for containers. <i>If the response to Question VIII.W.45 is "YES," go to Question VIII.W.47.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.W.47 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
48. The application area is using an alternate means of compliance to meet the 40 CFR § 61.346 requirements for individual drain systems. <i>If the response to Question VIII.W.48 is "YES," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
49. The application area has individual drain systems complying with 40 CFR § 61.346(a). <i>If the response to Question VIII.W.49 is "NO," go to Question VIII.W.51.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
51. The application area has individual drain systems complying with 40 CFR § 61.346(b). <i>If the response to Question VIII.W.51 is "NO," go to Question VIII.W.54.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
54. The application area contains a cyanide chemicals manufacturing process. <i>If the response to Question VIII.W.54 is "NO," go to Section VIII.X.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
55. The cyanide chemicals manufacturing process generates maintenance wastewater containing hydrogen cyanide or acetonitrile.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.X.1 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question VIII.X.2 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. All process wastewater streams generated or managed in the application area are from sources producing polystyrene. <i>If the response to Question VIII.X.3 is "YES," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. All process wastewater streams generated or managed in the application area are from sources producing ASA/AMSAN. <i>If the response to Question VIII.X.4 is "YES," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.X.8 is "YES," go to Question VIII.X.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.X.9 is "NO," go to Question VIII.X.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.X.11 - VIII.X.12 are both "NO," go to Question VIII.X.14.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.X.15 is "NO," go to Question VIII.X.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
18. The application area includes drains, drain hubs, manholes, lift stations, trenches, or pipes that are part of an thermoplastic product process unit. <i>If the response to Question VIII.X.18 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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). <i>If the response to Question VIII.X.19 is "NO," go to Section VIII.Y.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is located at a plant site that is a major source as defined in FCAA § 112(a).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question VIII.AA.1, AA.2 or AA.3 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question VIII.AA.4 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.AA.5 is "NO," go to Question VIII.AA.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.AA.8 is "YES," go to Section VIII.AA.22.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.AA.9 is "NO," go to Question VIII.AA.11.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. Group 1 wastewater streams or residual removed from Group 1 wastewater streams are transferred to an off-site treatment operation. <i>If the responses to Questions VIII.AA.11 and VIII.AA.12 are both "NO," go to Question VIII.AA.18.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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)	
<p>13. Group 1 wastewater streams are transferred to an offsite treatment facility meeting the requirements of 40 CFR § 63.138(h). <i>If the response to Question VIII.AA.13 is "NO," go to Question VIII.AA.15.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>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.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>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. <i>If the response to Question VIII.AA.15 is "NO," go to Question VIII.AA.17.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>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.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>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.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>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.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>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. <i>If the response to Question VIII.AA.19 is "NO," go to Question VIII.AA.22.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>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.</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VIII.AA.22 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question VIII.AA.23 is "NO," go to Section VIII.BB.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the answer to Question VIII.CC.1 is "NO," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area is located at a site that is a major source of HAP. <i>If the answer to Question VIII.CC.2 is "NO," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. All site remediation's qualify for one of the exemptions contained in 40 CFR § 63.7881(b)(1) through (6). <i>If the answer to Question VIII.CC.3 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the answer to Question VIII.CC.4 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. The site remediation will be completed within 30 consecutive calendar days.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. No site remediation will exceed 30 consecutive calendar days. <i>If the answer to Question VIII.CC.6 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. Site remediation materials subject to 40 CFR Part 63, Subpart GGGGG are transferred from the application area to an off-site facility.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the answer to Question VIII.CC.8 is "YES," go to Section VIII.DD.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question VIII.CC.9 is "NO," go to Question VIII.CC.14.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10. The application area includes containers using Container Level 1 controls as specified in 40 CFR § 63.922(b).	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. The application area includes containers using Container Level 2 controls as specified in 40 CFR § 63.923(b).	<input type="checkbox"/> YES <input type="checkbox"/> NO
13. The application area includes containers using Container Level 3 controls as specified in 40 CFR § 63.924(b).	<input type="checkbox"/> YES <input type="checkbox"/> NO
14. The application area includes individual drain systems complying with the requirements of 40 CFR § 63.962.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question VIII.DD.1 is "NO," go to Section VIII.EE.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The EAF steelmaking facility is a research and development facility. <i>If the response to Question VIII.DD.2 is "YES," go to Section VIII.EE.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. Metallic scrap is utilized in the EAF.	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. Scrap containing motor vehicle scrap is utilized in the EAF.	<input type="checkbox"/> YES <input type="checkbox"/> NO
5. Scrap not containing motor vehicle scrap is utilized in the EAF.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the answer to Question EE.1 is "NO," go to Section VIII.FF.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area includes a pipeline pumping station as defined in 40 CFR Part 63, Subpart BBBBBB.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4. The application area includes a bulk gasoline plant as defined in 40 CFR Part 63, Subpart BBBBBB. <i>If the answer to Question VIII.EE.4 is "NO," go to Question VIII.EE.6.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the answer to Question VIII.EE.6 is "NO," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
7. The bulk gasoline terminal has throughput of less than 250,000 gallons per day. <i>If the answer to Question VIII.EE.7 is "YES," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
8. The bulk gasoline terminal loads gasoline into gasoline cargo tanks other than railcar cargo tanks.	<input type="checkbox"/> YES <input type="checkbox"/> NO
9. The bulk gasoline terminal loads gasoline into railcar cargo tanks. <i>If the answer to Question VIII.EE.9 is "NO," go to Section VIII.FF.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
10. The bulk gasoline terminal loads gasoline into railcar cargo tanks which do not collect vapors from a vapor balance system.	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the answer to Question VIII.FF.1 is "NO," go to Section VIII.GG.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. The application area includes at least one gasoline dispensing facility as defined in 40 CFR § 63.11132. <i>If the answer to Question VIII.FF.2 is "NO," go to Section VIII.GG.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆ 3. The application area includes at least one gasoline dispensing facility with a monthly throughput of less than 10,000 gallons.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>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.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆ 2. Provide the Subpart designation (i.e. Subpart EEE) in the space provided below. Subpart VVVVVV	

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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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
D. Subpart D - Federal Procurement	
◆ 1. The application area is owned/operated by a department, agency, or instrumentality of the United States.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆ 2. The application area is a manufacturer, importer, wholesaler, distributor, or retailer of products containing a Class I or Class II substance.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

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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.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. Disposal of appliances (including motor vehicle air conditioners) or refrigerant or non-exempt substitute reclamation occurs in the application area.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆	3. The application area manufactures appliances or refrigerant recycling and recovery equipment.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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. <i>If the response to Question X.G.1 is "NO" or "N/A," go to Section X.H.</i>
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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).
	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> 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.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
◆	2. Disposal of halons or manufacturing of halon blends is conducted in the application area.
	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.
	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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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. <i>If the response to Question XI.B.1 is "NO" or "N/A," go to Section XI.C.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> 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. <div style="text-align: center;">40 CFR 63 Subpart VVVVVV</div>	
C. Emission Limitation Certifications	
◆ 1. The application area includes units for which federally enforceable emission limitations have been established by certification.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes units located at the site that are subject to a site-specific requirement of the SIP.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question XI.D.3 is "YES," please include a copy of the approval document with the application.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question XI.D.4 is "YES," please include a copy of the approval document with the application.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. The application area includes emission units qualifying for the new unit exemption under 40 CFR § 72.7.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. The application area includes emission units qualifying for the retired unit exemption under 40 CFR § 72.8.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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. <i>If the response to Question XI.F.1 is "NO," go to Question XI.F.7.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
7. The application area includes emission units that qualify for the CSAPR NO _x Ozone Season Group 2 retired unit exemption.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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XI. Miscellaneous (continued)	
G. 40 CFR Part 97, Subpart FFFFF - Texas SO₂ Trading Program	
1. The application area includes emission units complying with the requirements of the Texas SO ₂ Trading Program. <i>If the response to Question XI.G.1 is "NO," go to Question XI.G.6.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
6. The application area includes emission units that qualify for the Texas SO ₂ Trading Program retired unit exemption.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
J. Title 30 TAC Chapter 101, Subchapter H		
◆	1. The application area is located in a nonattainment area. <i>If the response to Question XI.J.1 is "NO," go to question XI.J.3.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	2. The applicant has or will generate emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
◆	3. The applicant has or will generate discrete emission reductions to be credited in the TCEQ Emissions Banking and Trading Program.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

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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 .	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	5. The application area includes an electric generating facility permitted under 30 TAC Chapter 116, Subchapter I.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The permit currently contains at least one periodic monitoring requirement. <i>If the responses to Questions XI.K.1 and XI.K.2 are both "NO," go to Section XI.L.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. All periodic monitoring requirements are being removed from the permit with this application.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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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. <i>If the response to Question XI.L.1 is "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	2. The unit or units defined by XI.L.1 are using a control device to comply with an applicable requirement. <i>If the response to Question XI.L.2 is "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The permit holder has submitted a CAM proposal on Form OP-MON in a previous application.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the responses to Questions XI.L.3 and XI.L.4 are both "NO," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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).	<input type="checkbox"/> YES <input type="checkbox"/> 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). <i>If the response to Question XI.L.8 is "YES," go to Section XI.M.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO

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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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	12. The control device in the CAM proposal as described by question XI.L.3 or XI.L.4 has a bypass.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to Question XI.M.1 is "NO," or "N/A," go to Section XII.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input type="checkbox"/> 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. <i>If the response to XII.A.1 is "YES," include the waste permit numbers and issuance date in Section XII.J.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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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. <i>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.</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	2. The application area includes at least one "State Pollution Control Project" Air Quality Standard Permit NSR authorization under 30 TAC § 116.617.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	3. The application area includes at least one non-rule Air Quality Standard Permit for Pollution Control Projects NSR authorization.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	6. The application area includes at least one "Municipal Solid Waste Landfill" Air Quality Standard Permit NSR authorization under 30 TAC § 116.621.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	8. The application area includes at least one "Concrete Batch Plant" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	9. The application area includes at least one "Concrete Batch Plant with Enhanced Controls" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	10. The application area includes at least one "Hot Mix Asphalt Plant" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Texas Commission on Environmental Quality
Application Area-Wide Applicability Determinations and General Information
Form OP-REQ1
Federal Operating Permit Program

Date:	July 21, 2024
Permit No.:	O-1559
RN No.:	RN100211523

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.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	12. The application area includes at least one "Electric Generating Unit" Air Quality Standard Permit NSR authorization. <i>If the response to XII.B.12 is "NO," go to Question XII.B.15.</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
◆	13. For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the East Texas Region.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	14. For purposes of "Electric Generating Unit" Air Quality Standard Permit, the application area is located in the West Texas Region.	<input type="checkbox"/> YES <input type="checkbox"/> NO
◆	15. The application area includes at least one "Boiler" Air Quality Standard Permit NSR authorization.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
◆	16. The application area includes at least one "Sawmill" Air Quality Standard Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
C. Flexible Permits		
	1. The application area includes at least one Flexible Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
D. Multiple Plant Permits		
	1. The application area includes at least one Multi-Plant Permit NSR authorization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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Application Area-Wide Applicability Determinations and General Information
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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):	
<i>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.</i>			
F. Nonattainment (NA) Permits and NA Major Pollutants			
NA Permit No.: N022	Issuance Date: 12/09/2019	Pollutant(s): NO_x	
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
NA Permit No.:	Issuance Date:	Pollutant(s):	
<i>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.</i>			
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:
◆ 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.: 2487	Issuance Date: 02/08/2020	Authorization No.: 106291	Issuance Date: 02/19/2024
Authorization No.: 21995	Issuance Date: 05/06/2019	Authorization No.: 164264	Issuance Date: 03/25/2021
Authorization No.: 76621	Issuance Date: 08/26/2019	Authorization No.: 171411	Issuance Date: 01/12/2023
Authorization No.: 9626	Issuance Date: 02/05/2021	Authorization No.: 173721	Issuance Date: 10/04/2023
Authorization No.: 9402	Issuance Date: 12/09/2019	Authorization No.:	Issuance Date:

Texas Commission on Environmental Quality
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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	
<i>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.</i>	
PBR No.: 106.122	Version No./Date: 09/04/2000
PBR No.: 106.124	Version No./Date: 09/04/2000
PBR No.: 106.183	Version No./Date: 09/04/2000
PBR No.: 106.227	Version No./Date: 03/14/1997
PBR No.: 106.261	Version No./Date: 12/24/1998
PBR No.: 106.261	Version No./Date: 09/04/2000
PBR No.: 106.261	Version No./Date: 11/01/2003
PBR No.: 106.262	Version No./Date: 03/14/1997
PBR No.: 106.262	Version No./Date: 09/04/2000
PBR No.: 106.262	Version No./Date: 11/01/2003
PBR No.: 106.263	Version No./Date: 11/01/2003
PBR No.: 106.264	Version No./Date: 09/04/2000
PBR No.: 106.371	Version No./Date: 09/04/2000
PBR No.: 106.372	Version No./Date: 09/04/2000
PBR No.: 106.373	Version No./Date: 09/04/2000
PBR No.: 106.433	Version No./Date: 03/14/1997
◆ J. Municipal Solid Waste and Industrial Hazardous Waste Permits With an Air Addendum	
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:
Permit No.:	Issuance Date:

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For SOP applications, answer ALL questions unless otherwise directed.

◆ *For GOP applications, answer ONLY these questions unless otherwise directed.*

Form OP-REQ1: Page 88 (continued)	
XII. NSR Authorizations (Attach additional sheets if necessary for sections E-J)	
I. Permits by Rule (30 TAC Chapter 106) for the Application Area	
<i>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.</i>	
PBR No.: 106.433	Version No./Date: 09/04/2000
PBR No.: 106.452	Version No./Date: 09/04/2000
PBR No.: 106.454	Version No./Date: 07/08/1998
PBR No.: 106.454	Version No./Date: 11/01/2001
PBR No.: 106.472	Version No./Date: 09/04/2000
PBR No.: 106.473	Version No./Date: 03/14/1997
PBR No.: 106.478	Version No./Date: 09/04/2000
PBR No.: 106.511	Version No./Date: 03/14/1997
PBR No.: 106.511	Version No./Date: 09/04/2000
PBR No.: 106.512	Version No./Date: 03/14/1997
PBR No.: 106.512	Version No./Date: 09/04/2000
PBR No.: 106.512	Version No./Date: 06/13/2001
PBR No.: 7	Version No./Date: 09/12/1989
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:
PBR No.:	Version No./Date:

4.2 OP-REQ2: Negative Applicable Requirement Determinations

Form OP-REQ2
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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	29	HPC-30	OP-UA3	NSPS Kb	§60.110b(a)	Unit does not store a VOC.
A	29	HPC-30	OP-UA3	Chapter 115, Storage of VOCs	§115.110(a)(5)	Unit does not store a VOC.
A	30	FCC-114	OP-UA3	NSPS Kb	§60.110b(a)	Unit does not store a VOC.
A	30	FCC-114	OP-UA3	Chapter 115, Storage of VOCs	§115.110(a)(5)	Unit does not store a VOC.
A	31	TEMP-TOTE1	OP-UA3	NSPS Kb	§60.110b(a)	Vessel does not have a design capacity greater than 75 m ³ .
A	31	TEMP-TOTE1	OP-UA3	Chapter 115, Storage of VOCs	§115.111(a)(8)	Vessel does not have a design capacity greater than 1,000 gallons.
A	32	TEMP-TOTE1	OP-UA3	NSPS Kb	§60.110b(a)	Vessel does not have a design capacity greater than 75 m ³ .
A	32	TEMP-TOTE1	OP-UA3	Chapter 115, Storage of VOCs	§115.111(a)(8)	Vessel does not have a design capacity greater than 1,000 gallons.
	33	✗CHB-1	OP-REQ2	MACT DDDDD	§63.7485	Unit is not located at a major source of HAP.
	34	✗CHB-2	OP-REQ2	MACT DDDDD	§63.7485	Unit is not located at a major source of HAP.

Form OP-REQ2 *(continued)*
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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
	35	✗ ENG-1	OP-REQ2	MACT DDDDD	§63.7485	Unit is not located at a major source of HAP.
	36	✗ FCC-27	OP-REQ2	MACT DDDDD	§63.7485	Unit is not located at a major source of HAP.
	37	✗ VSP-9	OP-REQ2	MACT DDDDD	§63.7485	Unit is not located at a major source of HAP.
	38	✗ RSC-1	OP-REQ2	MACT DDDDD	§63.7485	Unit is not located at a major source of HAP.
	39	✗ RSC-2	OP-REQ2	MACT DDDDD	§63.7485	Unit is not located at a major source of HAP.
✓ A	40	✗ RSC-3	OP-UA6	MACT DDDDD	§63.7485	Unit is not located at a major source of HAP.
A	40	RSC-3	OP-UA6	NSPS Db	§60.40b	Heat input capacity is less than 100 MMBtu/hr.
A	40	RSC-3	OP-UA6	NSPS Dc	§60.40c	Heat input capacity is less than 10 MMBtu/hr.
A	40	RSC-3	OP-UA6	Chapter 117	§117.303(a)(9)	Heat input capacity is less than 2 MMBtu/hr.

Form OP-REQ2 (continued)
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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	41	✗ UTL-BOILER	OP-UA6	MACT DDDDD	§63.7485	Unit is not located at a major source of HAP.
A	41	UTL-BOILER	OP-UA6	NSPS D	§60.40(a)	Heat input capacity is less than 250 MMBtu/hr.
A	41	UTL-BOILER	OP-UA6	NSPS Db	§60.40b	Heat input capacity is less than 100 MMBtu/hr.
A	41	UTL-BOILER	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	42	✗ TEMP-CT	OP-UA13	MACT Q	§63.400(a)	The cooling tower is not a major source of HAPS.
A	44	FCC-112	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	45	FCC-113	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	46	FCC-19	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	47	FCC-53	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	48	FCC-54	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.

Form OP-REQ2 (continued)
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

✓

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	49	FCC-55	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	50	HPC-3	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	51	PLU-1	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	52	VSP-CASCADE	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	53	FCC-115	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	54	PLU-T5505	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	55	LOG-HOPPER	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	56	431-501	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	57	432-502	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	58	432-503	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.

Form OP-REQ2 *(continued)*
Negative Applicable/Superseded Requirement Determinations
Texas Commission on Environmental Quality

Date	Permit No.	Regulated Entity No.
07/21/2024	O-1559	RN100211523

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	59	432-510	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	60	434-550	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	61	434-570	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.
A	62	FCC-87	OP-REQ2	MACT VVVVVV	§63.11494(a)(2)	Unit does not emit Table 1 HAPS.

4.3 OP-REQ3: Applicable Requirements Summary

**Applicable Requirements Summary
Form OP-REQ3 (Page 1)
Federal Operating Permit Program**

Table 1a: Additions

Date: 07/21/2024	Regulated Entity No.: RN100211523	Permit No.: O-1559
Company Name: Ketjen LLC	Area Name: Bayport Plant	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
40	RSC-3	OP-UA6 OP-UA15	R11111	PM	Chapter 111	§111.111(a)(1)(B) §111.111(a)(1)(E)
41	UTL-BOILER	OP-UA6 OP-UA15	R11111	PM	Chapter 111	§111.111(a)(1)(B) §111.111(a)(1)(E)
41	UTL-BOILER	OP-UA6 OP-UA15	60Dc-02	SO ₂	NSPS 60	§60.40c(a)
41	UTL-BOILER	OP-UA6 OP-UA15	60Dc-02	PM	NSPS 60	§60.40c(a)
41	UTL-BOILER	OP-UA6 OP-UA15	60Dc-02	PM (Opacity)	NSPS 60	§60.40c(a)

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

Date: 07/21/2024	Regulated Entity No.: RN100211523	Permit No.: O-1559
Company Name: Ketjen LLC	Area Name: Bayport Plant	

Revision No.	Unit/Group/Process ID No.	Unit/Group/Process Applicable Form	SOP/GOP Index No	Pollutant	Applicable Regulatory Requirement Name	Applicable Regulatory Requirement Standard(s)
41	UTL-BOILER	OP-UA6 OP-UA15	R7ICI6	NOX	Chapter 117	§117.310(d)(3) §117.310(a) §117.310(b) [G]§117.310(e)(1) §117.310(e)(2) [G]§117.310(e)(3) §117.310(e)(4) §117.340(l)(2) §117.340(p)(1) §117.310(p)(3) §117.310(a)(1)(B) §117.340(p)(2)(C)
41	UTL-BOILER	OP-UA6 OP-UA15	R7ICI6	CO	Chapter 117	§117.325(a) 1
43	HPC-52	OP-REQ3	63VVVVVV	HAPS	MACT VVVVVV	The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart VVVVVV.

**Applicable Requirements Summary
Form OP-REQ3 (Page 2)
Federal Operating Permit Program**

Table 1b: Additions

Date: 07/21/2024	Regulated Entity No.: RN100211523	Permit No.: O-1559
Company Name: Ketjen LLC	Area Name: Bayport Plant	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
40	RSC-3	R11111	PM	[G]§111.111(a)(1)(F)	None.	None.
41	UTL-BOILER	R11111	PM	[G]§111.111(a)(1)(F)	None.	None.
41	UTL-BOILER	60Dc-02	SO ₂	None.	§60.48c(g)(1) §60.48c(g)(2) §60.48c(g)(3) §60.48c(i)	[G]§60.48c(a)
41	UTL-BOILER	60Dc-02	PM	None.	§60.48c(g)(1) §60.48c(g)(2) §60.48c(g)(3) §60.48c(i)	[G]§60.48c(a)
41	UTL-BOILER	60Dc-02	PM (Opacity)	None.	§60.48c(g)(1) §60.48c(g)(2) §60.48c(g)(3) §60.48c(i)	[G]§60.48c(a)

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

Date: 07/21/2024	Regulated Entity No.: RN100211523	Permit No.: O-1559
Company Name: Ketjen LLC	Area Name: Bayport Plant	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
41	UTL-BOILER	R7ICI6	NOX	[G]§117.335(a)(1) §117.335(a)(4) §117.335(b) §117.335(d) §117.335(g) §117.340(l)(2) §117.340(o)(1) §117.340(p)(1) §117.335(e) §117.340(p)(2)(A) §117.340(p)(2)(B) §117.340(p)(2)(C) §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) §117.340(a)	§117.345(a) §117.345(f) §117.345(f)(9) §117.345(f)(1)	§117.335(b) §117.335(g) [G]§117.345(b) [G]§117.345(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) §117.340(p)(2)(D)

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

Date: 07/21/2024	Regulated Entity No.: RN100211523	Permit No.: O-1559
Company Name: Ketjen LLC	Area Name: Bayport Plant	

Revision No.	Unit/Group/Process ID No.	SOP/GOP Index No.	Pollutant	Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
41	UTL-BOILER	R7ICI6	CO	[G]§117.335(a)(1) §117.335(a)(4) §117.335(b) §117.335(d) §117.335(g) §117.335(e) §117.8000(b) §117.8000(c) §117.8000(c)(2) §117.8000(c)(3) §117.8000(c)(5) §117.8000(c)(6) [G]§117.8000(d) §117.340(a)	§117.345(a) §117.345(f) §117.345(f)(9) §117.345(f)(1)	§117.335(b) §117.335(g) [G]§117.345(b) [G]§117.345(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) [G]§117.8010(5) §117.8010(6) [G]§117.8010(7)
43	HPC-52	63VVVVVV	HAPS	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart VVVVVV.	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart VVVVVV.	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart VVVVVV.

5. COMPLIANCE CERTIFICATION FORMS

5.1 OP-ACPS: Application Compliance Plan and Schedule

Texas Commission on Environmental Quality
Form OP-ACPS
Application Compliance Plan and Schedule

Date: 07/21/2024	Regulated Entity No.: RN100211523	Permit No.: O-1559
Company Name: Ketjen LLC		Area Name: Bayport 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	
<p>The <i>Responsible Official</i> 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.</p>	
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?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. Are there any non-compliance situations addressed in the Compliance Schedule Section of this form (Part 2)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. If the response to Item B.2, above, is "Yes," indicate the total number of Part 2 attachments included in this submittal. <i>(For reference only)</i>	
<p><small>* 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.</small></p> <p><small>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.</small></p>	

5.2 Major NSR Summary Table

Major NSR Summary Table

Permit Number: 9402 (N022)			Issuance Date: 12/09/2019				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
FCC-10	2nd Molsieve Flash Drier	VOC	0.07	0.26	14		
		NO _x	1.94	6.87			
		SO ₂	<0.01	0.03			
		PM	0.41	1.45			
		PM ₁₀	0.41	1.45			
		PM _{2.5}	0.41	1.45			
		CO	1.13	4.02			
FCC-11	Reslurry Tank Bag Filter	PM	0.04	0.16	14		
		PM ₁₀	0.04	0.16			
		PM _{2.5}	0.04	0.16			
FCC-12	2nd Molsieve Calciner	VOC	0.03	0.12			
		NO _x	0.69	3.01			
		SO ₂	<0.01	0.01			
		PM	0.04	0.16			
		PM ₁₀	0.04	0.16			
		PM _{2.5}	0.04	0.16			
		CO	0.40	1.76			
FCC-14	Rare Earth Chloride Storage Tank	HCl	<0.01	<0.01	30	30	30
FCC-15	Ammonia Scrubber	NH ₃	0.17	0.75			
FCC-16	Portaclay/Reslurry Vent Bag Filter	PM	0.02	0.11	14		
		PM ₁₀	0.02	0.11			
		PM _{2.5}	0.02	0.11			
FCC-19	Kaolin Dosing Bag Hopper	PM	0.26	1.16	14		
		PM ₁₀	0.26	1.16			
		PM _{2.5}	0.26	1.16			
FCC-20	C Alumina Storage Silo Bag Filter	PM	0.11	0.48	14		
		PM ₁₀	0.11	0.48			
		PM _{2.5}	0.11	0.48			

Major NSR Summary Table

Permit Number: 9402 (N022)			Issuance Date: 12/09/2019				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
FCC-21	Spray Dryer Bag Filter	VOC	1.05	4.22	14, 17	17	17
		NO _x	13.51	54.59			
		SO ₂	0.11	0.46			
		PM	7.91	31.54			
		PM ₁₀	7.91	31.54			
		PM _{2.5}	7.91	31.54			
		CO	15.98	64.43			
		NH ₃	5.00	21.90			
		HNO ₃	7.50	32.85			
FCC-23	Separator Fines Bag Filter	PM	0.33	1.31	7, 14	7	7
		PM ₁₀	0.33	1.31			
		PM _{2.5}	0.33	1.31			
FCC-27	FCC Boiler	VOC	0.53	2.33	6, 9, 12, 13, 17	6, 9, 12, 13, 17	6,12, 13, 17
		NO _x	3.57	15.61			
		SO ₂	0.06	0.25			
		PM	0.73	3.22			
		PM ₁₀	0.73	3.22			
		PM _{2.5}	0.73	3.22			
		CO	8.11	35.54			
FCC-34	Ammonia Absorber	NH ₃	0.68	2.98			
FCC-40	Kaolin Unloading Bag Filter	PM	0.11	0.24	14		
		PM ₁₀	0.11	0.24			
		PM _{2.5}	0.11	0.24			
FCC-41	Sulfuric Acid Storage Tank	H ₂ SO ₄	<0.01	<0.01	30	30	30
		SO ₃	<0.01	<0.01			
FCC-44	Ammonia Storage Tank/Scrubber	NH ₃	0.19	0.04	22, 24, 30	22, 24, 30	22, 24, 30
FCC-46	Ammonia Scrubber	NH ₃ (6)	0.07	0.31	17, 23, 24	17, 23, 24, 25	17, 23, 24, 25
		HCl	<0.01	<0.01			

Major NSR Summary Table

Permit Number: 9402 (N022)			Issuance Date: 12/09/2019				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
FCC-51	Crude Product Bag Filter	PM	0.07	0.28	7, 14	7	7
		PM ₁₀	0.07	0.28			
		PM _{2.5}	0.07	0.28			
FCC-52	Crude Product Bag Filter	PM	0.07	0.28	7, 14	7	7
		PM ₁₀	0.07	0.28			
		PM _{2.5}	0.07	0.28			
FCC-53	Crude Product Bag Filter	PM	0.01	0.06	14		
		PM ₁₀	0.01	0.06			
		PM _{2.5}	0.01	0.06			
FCC-54	Crude Product Bag Filter	PM	0.03	0.11	14		
		PM ₁₀	0.03	0.11			
		PM _{2.5}	0.03	0.11			
FCC-55	Ventilation Air Bag Filter	PM	0.01	0.05	14		
		PM ₁₀	0.01	0.05			
		PM _{2.5}	0.01	0.05			
FCC-58	Product Dist. Conveyor Filter	PM	0.22	0.96	7, 14	7	7
		PM ₁₀	0.22	0.96			
		PM _{2.5}	0.22	0.96			
FCC-61	Product Air Slide Bag Filter (7)	PM	0.07	0.32	7, 14	7	7
		PM ₁₀	0.07	0.32			
		PM _{2.5}	0.07	0.32			
FCC-62	Product Air Slide Bag Filter II	PM	0.08	0.36	7, 14	7	7
		PM ₁₀	0.08	0.36			
		PM _{2.5}	0.08	0.36			
FCC-63	Weigh Scale Bag Filter	PM	0.38	1.66	7, 14	7	7
		PM ₁₀	0.38	1.66			
		PM _{2.5}	0.38	1.66			
FCC-64	Blended Product Bag Filter	PM	0.28	1.24	7, 14	7	7
		PM ₁₀	0.28	1.24			

Major NSR Summary Table

Permit Number: 9402 (N022)			Issuance Date: 12/09/2019				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
FCC-65	Bulk Loading Station Bag Filter	PM _{2.5}	0.28	1.24	7, 14	7	7
		PM	0.28	1.21			
		PM ₁₀	0.28	1.21			
		PM _{2.5}	0.28	1.21			
FCC-66	Portable Bag Filter	PM	0.09	0.19	7	7	7
		PM ₁₀	0.09	0.19			
		PM _{2.5}	0.09	0.19			
FCC-68	Kaolin Silo Bag Filter	PM	0.11	0.46	14		
		PM ₁₀	0.11	0.46			
		PM _{2.5}	0.11	0.46			
FCC-69	C Alumina Dosing Bag Filter	PM	0.14	0.61	14		
		PM ₁₀	0.14	0.61			
		PM _{2.5}	0.14	0.61			
FCC-70	BOC Silo Bag Filter	PM	0.14	0.61	14		
		PM ₁₀	0.14	0.61			
		PM _{2.5}	0.14	0.61			
FCC-71	BOC Dosing Bag Filter	PM	0.21	0.46	14		
		PM ₁₀	0.21	0.46			
		PM _{2.5}	0.21	0.46			
FCC-74	Final Product Calciner II (9)	VOC	0.19	0.82	17	17, 21	17, 21
		NO _x (NA)	2.31	10.12			
		SO ₂	0.02	0.09			
		PM	0.26	1.14			
		PM ₁₀	0.26	1.14			
		PM _{2.5}	0.26	1.14			
		CO	2.87	12.56			
FCC-75	TO/SCR System	VOC	0.03	0.13	18, 20	18	18
		NO _x (NA)	3.00	13.14			
		SO ₂	0.74	0.66			

Major NSR Summary Table

Permit Number: 9402 (N022)			Issuance Date: 12/09/2019				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
		PM	0.04	0.18			
		PM ₁₀	0.04	0.18			
		PM _{2.5}	0.04	0.18			
		CO	0.45	1.97			
		N ₂ O	27.18	119.03			
		NH ₃	0.34	1.48			
FCC-76		PM	0.19	0.83	7, 14	7	7
		PM ₁₀	0.19	0.83			
		PM _{2.5}	0.19	0.83			
FCC-77	FC BOC Storage Silo Bag Filter	PM	0.12	0.51	7, 14	7	7
		PM ₁₀	0.12	0.51			
		PM _{2.5}	0.12	0.51			
FCC-79	Diesel Engine II (8)	VOC	0.06	0.03			
		NO _x	1.74	0.87			
		SO ₂	0.30	0.15			
		PM	0.16	0.08			
		PM ₁₀	0.16	0.08			
		PM _{2.5}	0.16	0.08			
		CO	1.19	0.60			
FCC-80	Portable Bag Filter II	PM	0.09	0.19	7	7	7
		PM ₁₀	0.09	0.19			
		PM _{2.5}	0.09	0.19			
FCC-81	Tote Bin Bag Filter	PM	0.02	0.09	14		
		PM ₁₀	0.02	0.09			
		PM _{2.5}	0.02	0.09			
FCC-82	Portable Bag Filter	PM	0.02	0.09	7	7	7
		PM ₁₀	0.02	0.09			
		PM _{2.5}	0.02	0.09			

Major NSR Summary Table

Permit Number: 9402 (N022)			Issuance Date: 12/09/2019				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY**	Spec. Cond.	Spec. Cond.	Spec. Cond.
FCC-100	HCS Filter Cake Tank	HNO ₃	<0.01	<0.01	30	30	30
FCC-102A	Final Product Silo Baghouse	PM	<0.01	<0.01	14		
		PM ₁₀	<0.01	<0.01			
		PM _{2.5}	<0.01	<0.01			
FCC-109	Intermediate Silo Baghouse	PM	0.10	0.43	14		
		PM ₁₀	0.10	0.43			
		PM _{2.5}	0.10	0.43			
FCC-110	Intermediate Bag Unloading	PM	0.08	0.36	14		
		PM ₁₀	0.08	0.36			
		PM _{2.5}	0.08	0.36			
FCC-112	Truck Loading Baghouse	PM	<0.01	<0.01	14		
		PM ₁₀	<0.01	<0.01			
		PM _{2.5}	<0.01	<0.01			
FCC-113	Portaclay Unloading Baghouse	PM	<0.01	<0.01	14		
		PM ₁₀	<0.01	<0.01			
		PM _{2.5}	<0.01	<0.01			
FCC-FUG	Fugitives (5)	HNO ₃	0.01	0.05	10, 11	10, 11	11
		NH ₃	0.02	0.09			
		HCl	0.01	0.04			
		H ₂ SO ₄	0.03	0.13			
Permit Wide		NO _x	-	81.00			

(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

NOX - total oxides of nitrogen

SO2 - sulfur dioxide

PM – total particulate matter, suspended in the atmosphere, including PM10 and PM2.5, as represented

PM10 - total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented

PM2.5 - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

SO₃ – sulfur trioxide

NH₃- ammonia

HCl – hydrogen chloride

H₂SO₄ – sulfuric acid

Ni – Nickel

N₂O – nitrous oxide

H₃PO₄ – phosphoric acid

HNO₃ – nitric acid

(NA) – Nonattainment review

(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) Total emissions of ammonia plus ammonium hydroxide.

(7) PM, PM₁₀, and PM_{2.5} emissions will happen from either FCC-61 or FCC-76, but not both.

(8) Emissions are based on 1,000 hours per year operation.

(9) Final Product Calciner II may be routed through either EPN FCC-74 or EPN FCC-21.

Texas Commission on Environmental Quality

Title V Existing

1559

Site Information (Regulated Entity)

What is the name of the permit area to be authorized?	ALBEMARLE BAYPORT PLANT
Does the site have a physical address?	Yes
Physical Address	
Number and Street	13000 BAYPARK RD
City	PASADENA
State	TX
ZIP	77507
County	HARRIS
Latitude (N) (##.#####)	29.642222
Longitude (W) (-###.#####)	95.064444
Primary SIC Code	2819
Secondary SIC Code	
Primary NAICS Code	325180
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100211523
What is the name of the Regulated Entity (RE)?	KETJEN
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	13000 BAYPARK RD
City	PASADENA
State	TX
ZIP	77507
County	HARRIS
Latitude (N) (##.#####)	29.64
Longitude (W) (-###.#####)	-95.065
Facility NAICS Code	
What is the primary business of this entity?	EURECAT AND ZEOLITE PLANTS

Customer (Applicant) Information

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	CN600129589
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Albemarle Corporation
Texas SOS Filing Number	9875306
Federal Tax ID	
State Franchise Tax ID	15416921185
State Sales Tax ID	

Local Tax ID	
DUNS Number	825080096
Number of Employees	251-500
Independently Owned and Operated?	

Responsible Official Contact

Person TCEQ should contact for questions about this application:

Organization Name	ALBEMARLE CORPORATION
Prefix	MR
First	CHASE
Middle	
Last	CHICOLA
Suffix	
Credentials	
Title	PLANT MANAGER
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	13000 BAYPARK RD
Routing (such as Mail Code, Dept., or Attn:)	
City	PASADENA
State	TX
ZIP	77507
Phone (###-###-####)	2814740379
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Chase.Chicola@albemarle.com

Technical Contact

Person TCEQ should contact for questions about this application:

Select existing TC contact or enter a new contact.	PREETHI JOSEPH(ALBEMARLE CORPO...)
Organization Name	ALBEMARLE CORPORATION
Prefix	MS
First	PREETHI
Middle	
Last	JOSEPH
Suffix	
Credentials	
Title	ENVIRONMENTAL PROFESSIONAL IV
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	13000 BAYPARK RD

Routing (such as Mail Code, Dept., or Attn:)

City

PASADENA

State

TX

ZIP

77507

Phone (###-###-####)

2812912260

Extension

Alternate Phone (###-###-####)

Fax (###-###-####)

E-mail

Preethi.Joseph@Albemarle.com

Title V General Information - Existing

1) Permit Type:	SOP
2) Permit Latitude Coordinate:	29 Deg 38 Min 32 Sec
3) Permit Longitude Coordinate:	95 Deg 3 Min 52 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) 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	FINAL Ketjen TV O1559 Renewal 2024 0716.pdf
Hash	D97BDC97C4CB0A3235580783E0F4DF77520EB466B29CE89BAA0D7214B3E3BAE6
MIME-Type	application/pdf

[File Properties]

File Name	Ketjen Cover letter.pdf
Hash	FFE7FA8C2CA75F77A40DFC9B47B2A470942B16F582FF87085F5FBFE1C3F139E3
MIME-Type	application/pdf

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

[File Properties]

File Name	2024_Ketjen_TV_Ownership_Change_Signed.pdf
Hash	55D0679D80EDB5171D28AFCD92CC7B5DD7E78BA2E59B67830FD5BE7ACC2890DB
MIME-Type	application/pdf

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 Responsible Official 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 Chase N Chicola, the owner of the STEERS account ER078638.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Title V Existing 1559.
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: Chase N Chicola OWNER OPERATOR

Account Number:	ER078638
Signature IP Address:	12.196.187.18
Signature Date:	2024-07-17
Signature Hash:	DF58E7F0F007330036A3B7C71E1783414444B7A3F0BD46E549908537A2A4CA3C
Form Hash Code at time of Signature:	B59CBC7417B694E38CF8381589D945F1F3BD326F706D5B18355248E8A502CD1B

Submission

Reference Number:	The application reference number is 667674
Submitted by:	The application was submitted by ER078638/Chase N Chicola
Submitted Timestamp:	The application was submitted on 2024-07-17 at 10:09:26 CDT
Submitted From:	The application was submitted from IP address 12.196.187.18
Confirmation Number:	The confirmation number is 551489
Steers Version:	The STEERS version is 6.79
Permit Number:	The permit number is 1559

Additional Information

Application Creator: This account was created by Preethi C Joseph

April 30, 2024

Submitted via CERTIFIED MAIL

Air Permits Initial Review Team (APIRT), MC 161
P.O. Box 13087
Austin, Texas 78711-3087

Re: Ketjen LLC – Bayport Plant
RN100211523; CN606211746; Account# HG-A010-J
Title V Permit O1559
Change in Ownership

To Whom it May Concern,

On January 1, 2024, Albemarle Corporation (“Albemarle”) transformed its Catalysts business to a wholly owned subsidiary named Ketjen Limited Liability Company (Ketjen LLC). Ketjen LLC will operate under a separate legal structure from Albemarle, therefore the ownership of the Bayport Plant will be transferred from Albemarle Corporation to Ketjen LLC.

In accordance with Title 30 Texas Administrative Code Chapter 122, the facility is providing the necessary forms and permit revision application to reflect this change.

If you have any questions and/or concerns about this submittal, please contact Preethi Joseph at 281-291-2260 or Preethi.joseph@ketjen.com.

Sincerely,



Chase Chicola
Plant Manager

Enclosures

Cc: EPA Region 6 – R6AirPermitsTX@epa.gov

TITLE V ADMINISTRATIVE REVISION

**Ketjen LLC/ Bayport Facility
Change of Ownership**

Prepared By:

TRINITY CONSULTANTS

1800 West Loop South
Suite 1000
Houston, Texas 77027
(713) 552-1371

April 2024



TABLE OF CONTENTS

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1. EXECUTIVE SUMMARY

Albemarle Corporation (Albemarle) transformed its Catalyst business, recently branded as "Ketjen", to a while owned subsidiary names Ketjen Corporation effective January 1, 2024. Ketjen Corporation will operate under a separate legal structure from Albemarle, therefore the ownership of the Bayport Manufacturing Plant (Bayport Facility) will be transferred from Albemarle Corporation to Ketjen Limited Liability Company (Ketjen LLC) effective January 1, 2024. Please note, Ketjen LLC is fully owned by Albemarle Corporation.

With this Title V Administrative Revision, the Bayport Facility is submitting supporting documentation of change in company name. This application contains the Core Data Form (TCEQ Form# 10400), the Change of Name/Ownership Form (TCEQ Form# 20405) and the SOP Administrative Revision Form (TCEQ Form# 10059 OP-2).

2. TCEQ FORMS

**TCEQ Core Data Form
Change of Name/Ownership Form
SOP Administrative Revision Form**

TCEQ Core Data Form



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 606211746		RN 100211523

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		1/1/2024	
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Ketjen Limited Liability Company				Albemarle Corporation	
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0804803653		32087070283		88-4253232	11-907-1852
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
12. Number of Employees				13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:					
13000 Baypark Rd.					
City: Pasadena State: TX ZIP: 77507 ZIP + 4: 1104					
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.) <input type="checkbox"/> New Regulated Entity <input checked="" type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.) Ketjen Bayport Plant								
23. Street Address of the Regulated Entity: <u>(No PO Boxes)</u>		13000 Baypark Rd.						
		City	Pasadena	State	TX	ZIP	77507	ZIP + 4
24. County		Harris						

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

25. Description to Physical Location:								
26. Nearest City					State		Nearest ZIP Code	
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>								
27. Latitude (N) In Decimal:			28. Longitude (W) In Decimal:					
Degrees	Minutes		Seconds		Degrees	Minutes		Seconds
29. Primary SIC Code		30. Secondary SIC Code		31. Primary NAICS Code		32. Secondary NAICS Code		
(4 digits)		(4 digits)		(5 or 6 digits)		(5 or 6 digits)		
2819		2869		325180		325188		
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) Eurecat and Zeolite Plants								
34. Mailing Address:		13000 Baypark Rd.						
		City	Pasadena	State	TX	ZIP	77507	ZIP + 4
35. E-Mail Address:								
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)		
() -						() -		

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


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input checked="" type="checkbox"/> Emissions Inventory Air	<input checked="" type="checkbox"/> Industrial Hazardous Waste
			HG-A010-J	TXDO73920399
<input type="checkbox"/> Municipal Solid Waste	<input checked="" type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
	See Attachment 1			
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input checked="" type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
		O-1559		
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input checked="" type="checkbox"/> Other: Pollution Prevention
				Plan-P00008
				Tier II - TXT2 #67435

SECTION IV: Preparer Information

40. Name:	Kyle Maxwell	41. Title:	Environmental Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(281) 474-2864		() -	kyle.maxwell@ketjen.com

SECTION V: Authorized Signature

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

Company:	Ketjen Limited Liability Company	Job Title:	Plant Manager
Name (In Print):	Chase Chicola	Phone:	(281) 474-0379
Signature:		Date:	4/18/24

Change of Name/Ownership Forms

Change of Name/Ownership Form
Air Permits Division
Texas Commission on Environmental Quality

I. Application Type	
<input type="checkbox"/> Change in Ownership	<input checked="" type="checkbox"/> Change in Company Name
II. Name of the New Owner or Operator of the Facilities or Equipment (Legal Entity Name of the new permittee)	
A. Customer Name: Ketjen Limited Liability Company	
B. Customer Reference Number (CN) (if issued): CN606211746	
C. Submittal Date: 02/01/2024	
D. Effective Date of Change: 01/01/2024	
E. Is the new owner an affiliate of the previous owner? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
III. Responsible Official (RO) Contact Information	
Name Prefix: (<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.):	
Full Name: Chase Chicola	
Title: Plant Manager	
Company Name: Ketjen Limited Liability Company	
Mailing Address: 13000 Baypark Rd	
City: Pasadena	
State: TX	
Zip Code: 77507-1104	
Telephone No.: 281-474-0379	
Fax No.:	
Email Address: chase.chicola@ketjen.com	

Change of Name/Ownership Form
Air Permits Division
Texas Commission on Environmental Quality

IV. Technical Contact Information	
Name Prefix: (<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Dr.):	
Full Name: Preethi Joseph	
Title: Environmental Manager	
Company Name: Ketjen Limited Liability Company	
Mailing Address: 13000 Baypark Rd	
City: Pasadena	
State: TX	
Zip Code: 77507	
Telephone No.: 281-291-2260	
Fax No.:	
Email Address: preethi.joseph@ketjen.com	
V. Site Information	
A. Site Name: Ketjen Bayport Plant	
B. Regulated Entity Number (RN) (if issued): RN100211523	
C. Account Number (if issued): HG-A010-J	
D.	If action is transfer of ownership, is the change for the entire site <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
E.	If action is transfer of ownership for a portion of the existing site, will the new site be a major source? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
F. To the right of each pollutant below select "YES" for which the site is classified as a major source based on the site's potential to emit. Select "NO" for which the site is not a major source.	
Pollutant: VOC	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Pollutant: NO _x	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Pollutant: SO ₂	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Pollutant: PM ₁₀	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Pollutant: CO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Pollutant: PB	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Pollutant: HAPS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Other Pollutant:	

Change of Name/Ownership Form
Air Permits Division
Texas Commission on Environmental Quality

VI.	Air Authorizations That Are Affected By This Action
A.	List all NSR authorizations (including PBR, SE, and standard permit registrations, and NSR permits), as applicable:
	See Attachment 1.
B.	List all FOPs (including SOPs and ATOs under GOPs), as applicable:
	O-1559
VII.	NSR Conditions for Change of Ownership under 30 TAC § 116.110(e)
	<ul style="list-style-type: none">• The new owner agrees to be bound by all the permit conditions and all representations made in the permit and any amendments and alterations.• The new owner asserts there will be no change in the type of pollutants emitted.• The new owner asserts there will be no increase in the quantity emitted.

Change of Name/Ownership Form
Air Permits Division
Texas Commission on Environmental Quality

VIII. FOP Conditions for Change of Ownership

- For SOP holders:
Pursuant to 30 TAC § 122.210 and § 122.211, the permit holder (new owner) is required to submit a permit revision application for a change to the permit identification of ownership or operational control of a site. The change must be facilitated by a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the old and new permit holder. This written agreement is maintained with the permit.
- For GOP holders:
Pursuant to 30 TAC § 122.503, the permit holder (new owner) is required to submit (before the change is operated) an application for a new authorization to operate for a change to the permit identification of ownership or operational control of a site. The change must be facilitated by a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the old and new permit holder. This written agreement is maintained with the permit.

- A. Are any other changes needed for the FOP? ☐ YES ☒ NO
(If YES, submit the information as explained in the instructions.)
- B. Is there an Acid Rain permit or Cross-State Air Pollution Rule (CSAPR) requirements included in the SOP? ☐ YES ☒ NO
(If YES, submit the information as explained in the instructions.)

IX. Authorization

I, Chase Chicola

certify that I am the responsible official 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.

Signature: 

Signature Date: 4/18/24

Title: Plant Manager

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

Date: 04/30/2024
Permit No.: O1559
Regulated Entity No.: RN100211523
Company Name: Ketjen LLC
For Submissions to EPA
Has an electronic copy of this application been submitted (or is being submitted) to EPA? <div style="text-align: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</div>
I. Application Type
Indicate the type of application:
<input type="checkbox"/> Renewal
<input type="checkbox"/> Streamlined Revision (Must include provisional terms and conditions as explained in the instructions.)
<input type="checkbox"/> Significant Revision
<input type="checkbox"/> Revision Requesting Prior Approval
<input checked="" type="checkbox"/> Administrative Revision
<input type="checkbox"/> Response to Reopening
II. Qualification Statement
For SOP Revisions Only <div style="text-align: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</div>
For GOP Revisions Only <div style="text-align: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</div>

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).)	
<input type="checkbox"/> VOC	<input checked="" type="checkbox"/> NO _x
<input type="checkbox"/> SO ₂	<input type="checkbox"/> PM ₁₀
<input type="checkbox"/> CO	<input type="checkbox"/> Pb
<input type="checkbox"/> 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)?	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> 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.	

Attachment 1 NSR Registrations

List of Standard Exemptions, PBR Registrations, and Standard Permit Registration Numbers at the Site

Registration Type	Registration Number	Project Complete Date	Effective Date
Standard Exemption	34867	02/08/2008	06/07/1996
PBR Registration	37604	02/08/2008	03/29/2001
PBR Registration	45951	02/08/2008	03/29/2001
PBR Registration	54632	02/08/2008	03/29/2001
PBR Registration	56753	02/08/2008	03/29/2001
PBR Registration	70381	02/08/2008	03/29/2001
PBR Registration	71389	02/08/2008	03/29/2001
PBR Registration	72717	02/08/2008	03/29/2001
PBR Registration	72739	02/08/2008	03/29/2001
PBR Registration	76400	02/08/2008	03/29/2001
PBR Registration	78935	02/08/2008	03/29/2001
PBR Registration	80147	02/08/2008	03/29/2001
PBR Registration	80542	02/08/2008	03/29/2001
PBR Registration	95994	05/18/2011	11/01/2003
PBR Registration	96731	08/09/2011	11/01/2003
PBR Registration	101157	03/29/2012	11/01/2003
PBR Registration	102755	08/24/2012	11/01/2003
PBR Registration	103969	08/24/2012	11/01/2003
PBR Registration	104107	08/22/2012	11/01/2003
PBR Registration	104859	09/26/2012	11/01/2003
PBR Registration	108971	05/07/2014	11/01/2003
PBR Registration	110529	07/08/2014	09/04/2000
PBR Registration	114394	01/02/2014	11/01/2003
PBR Registration	114642	02/07/2014	11/01/2003
PBR Registration	114491	02/21/2014	11/01/2003
PBR Registration	115923	03/03/2014	11/01/2003
PBR Registration	117527	05/02/2014	11/01/2003
PBR Registration	131209	07/01/2015	11/01/2003
PBR Registration	131246	04/10/2015	09/04/2000
PBR Registration	134767	09/28/2015	09/04/2000
PBR Registration	135658	10/12/2015	11/01/2003
PBR Registration	138845	03/14/2016	11/01/2003
PBR Registration	139251	04/14/2016	11/01/2003
PBR Registration	140059	06/08/2016	11/01/2003

Registration Type	Registration Number	Project Complete Date	Effective Date
PBR Registration	141407	08/15/2016	11/01/2003
PBR Registration	144043	12/16/2016	11/01/2003
PBR Registration	151298	05/30/2018	11/01/2003
PBR Registration	154314	12/13/2018	11/01/2003
PBR Registration	155375	02/12/2019	11/01/2003
PBR Registration	156185	04/03/2019	11/01/2003
PBR Registration	160024	02/12/2020	11/01/2003
PBR Registration	160774	04/22/2020	11/01/2003
PBR Registration	160822	04/21/2020	11/01/2003
PBR Registration	161695	06/18/2020	11/01/2003
PBR Registration	162906	10/26/2020	11/01/2003
PBR Registration	163421	12/17/2020	11/01/2003
PBR Registration	163642	01/13/2021	11/01/2003
PBR Registration	163660	01/14/2021	11/01/2003
PBR Registration	166858	11/08/2021	11/01/2003
PBR Registration	168488	04/21/2022	11/01/2003
PBR Registration	170968	12/01/2022	11/01/2003 09/04/2000
PBR Registration	171969	03/17/2023	11/01/2003
PBR Registration	172244	04/19/2023	11/01/2003
PBR Registration	172354	04/19/2023	11/01/2003
PBR Registration	174351	11/14/2023	11/01/2003
PBR Registration	174457	11/09/2023	11/01/2003
Standard Permit	164264	03/25/2021	02/09/2011
Standard Permit	171411	01/12/2023	11/03/2006
Standard Permit	173721	10/04/2023	02/09/2011
Standard Permit	106291	03/01/2024	02/09/2011

List of NSR Permits

Registration Type	Registration Number	Renewal Date
NSR Permit	21995	9/13/2026
NSR Permit	9402	12/9/2029
NSR Permit	9626	1/18/2021
NSR Permit	2487	02/15/2027
NSR Permit	76621	8/26/2029