

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Ticona Polymers, Inc.

AUTHORIZING THE OPERATION OF
Bishop Facility
Compounding Unit
Industrial Organic Chemicals

LOCATED AT
Nueces County, Texas
Latitude 27° 34' 0" Longitude 97° 49' 36"
Regulated Entity Number: RN101625721

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: O2005 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.
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 either before or 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. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)

- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(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 source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of sources 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 sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source 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)(8) and (a)(8)(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)(8)(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.

- D. 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.
- E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- F. 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)

New Source Review Authorization Requirements

- 4. 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, 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
- 5. 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.
- 6. 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).

Compliance Requirements

7. 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.
8. 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

Permit Location

9. 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)

10. 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

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary 12

Applicable Requirements Summary 13

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
GRP-VENTS1	Emission Points/ Stationary Vents/ Process Vents	BCU-2, BCU-3, NF-004, NF-009, NF-010, NF-012, NF-018, NF-025, NF-050, NF-051, NF-061, NF-108, NF-109, NF-110, NF-111, NF-112, NF-113, NF-114, NF-115, NF-116, NF-117, NF-118, NF-119, NF-120, NF-121, NF-122, NF-123, NF-124, NF-125, NF-127, NF-128, NF-129, NF-130, NF-132, NF-134, NF-135, NF-136, NF-137, NF-138, NF-139, NF-140, NF-141, NF-142, NF-143, NF-144, NF-145, NF-146, NF-147, NF-148, NF-149, NF-150, NF-155, NF-156, NF-158, NF-159, NF-160, NF-161, O-2, SP-010, SP-011, SP-013, SP-091, SP-101, SP-103, SP-105, SP-106, SP-107, SP-111, SP-115, SP-116, SP-118, SP-119, SP-120, SP-121, SP-122, SP-125, SP-126, SP-127, SP-128, SP-129, SP-130, SP-131, SP-16, SP-17, SP-20, SP-22A, SP-22B, SP-23, SP-26, SP-30, SP-31, SP-35, SP-38, SP-39, SP-40, SP-48, SP-49, SP-50, SP-51, SP-52, SP-53, SP-54, SP-55, SP-56, SP-59, SP-60, SP-65, SP-66, SP-71, SP-87, SP-88, SP-89, SP-90	115B-1	30 TAC Chapter 115, Vent Gas Controls	No changing attributes.
NF-063	Emission Points/ Stationary Vents/ Process Vents	N/A	115B-1	30 TAC Chapter 115, Vent Gas Controls	Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg).
NF-063	Emission Points/ Stationary Vents/ Process Vents	N/A	115B-2	30 TAC Chapter 115, Vent Gas Controls	Combined 24-Hour VOC Weight = Combined VOC weight is greater than 100 pounds (45.4 kg).

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)
GRP-VENTS1	EP	115B-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(b)(2)(A) § 115.127(b)(2)	A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2) and (3) of this title equal to or less than 100 pounds in any continuous 24-hour period is exempt from the requirements of §115.121(b) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
NF-063	EP	115B-1	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(b)(2)(A) § 115.127(b)(2)	A vent gas stream having a combined weight of the VOC or classes of compounds specified in §115.121(b)(2) and (3) of this title equal to or less than 100 pounds in any continuous 24-hour period is exempt from the requirements of §115.121(b) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None
NF-063	EP	115B-2	VOC	30 TAC Chapter 115, Vent Gas Controls	§ 115.127(b)(2)(B) § 115.127(b)(2)	A vent gas stream with a concentration of the VOC or classes of compounds specified in §115.121(b)(2) and (3) of this title less than 30,000 ppmv is exempt from the requirements of §115.121(b) of this title.	[G]§ 115.125 § 115.126(2)	§ 115.126 § 115.126(2) § 115.126(4)	None

Permit Shield

Permit Shield 15

Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
BCU-FUG	N/A	40 CFR Part 61, Subpart V	Emission sources do not operate in VHAP service.
GRP-TANKS1	SP-108, SP-117, SP-12, SP-123, SP-18, SP-19, SP-57, SP-58, SP-73, SP-75	30 TAC Chapter 115, Storage of VOCs	Storage tank has a true vapor pressure less than 1.0 psia.
GRP-TANKS1	SP-108, SP-117, SP-12, SP-123, SP-18, SP-19, SP-57, SP-58, SP-73, SP-75	40 CFR Part 60, Subpart Kb	Storage tank does not store a VOL.

New Source Review Authorization References

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New Source Review Authorization References by Emission Unit 18

New Source Review Authorization References

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

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 38105	Issuance Date: 06/14/2016
Authorization No.: 5361	Issuance Date: 12/09/2015
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 12/24/1998

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
BCU-2	VACUUM PUMP VENT	5361
BCU-3	VACUUM BLOWER VENT	5361
BCU-FUG	AREA FUGITIVES	5361
NF-004	V-1515 FLAKE FEED STORAGE VESSEL	5361, 106.261/11/01/2003
NF-009	MS-544 SINGLE SCREW EXTRUDER	5361, 106.261/11/01/2003
NF-010	MS-545 SINGLE SCREW EXTRUDER	5361, 106.261/11/01/2003
NF-012	MS-131 TWIN SCREW EXTRUDER	5361, 106.261/11/01/2003
NF-018	C-460 PELLET DRYER VENT	5361
NF-025	V-2015 PROCESS WATER SURGE TANK	5361
NF-050	V-2016 FINISHED PELLET STORAGE TANK	5361, 106.261/11/01/2003
NF-051	V-2017 FINISHED PELLET STORAGE TANK	5361, 106.261/11/01/2003
NF-061	T-129/T-136 EXTRUDER VENT PORT SCRUBBER	5361
NF-063	SILO VENT HEADER	5361, 106.261/11/01/2003
NF-108	MX-643 FINISHED PELLET BLENDER TANK	5361
NF-109	MX-745 FINISHED PELLET BLENDER TANK	5361
NF-110	V-1045 FINISHED PRODUCT PELLET PACKAGING TANK	5361
NF-111	V-1051A FINISHED PRODUCT PELLET STORAGE TANK	5361
NF-112	V-1051B FINISHED PRODUCT PELLET STORAGE TANK	5361
NF-113	V-1052A FINISHED PRODUCT PELLET STORAGE TANK	5361

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
NF-114	V-1052B EXTRUDER FINISHED PELLET STORAGE	5361
NF-115	V-1162 VENT A EXTRUDER RERUN PELLET TANK	5361
NF-116	V-1162 VENT B EXTRUDER RERUN PELLET TANK	5361
NF-117	V-1165 A PELLET STORAGE	5361
NF-118	V-1165 B PELLET STORAGE	5361
NF-119	V-1165 C PELLET STORAGE	5361
NF-120	V-1166 A VENT A1 PELLET STORAGE	5361
NF-121	V-1166 A VENT A2 PELLET STORAGE	5361
NF-122	V-1166 B VENT B1 PELLET STORAGE	5361
NF-123	V-1166 B VENT B2 PELLET STORAGE	5361
NF-124	V-1166 C VENT C1 PELLET STORAGE	5361
NF-125	V-1166 C VENT C2 PELLET STORAGE	5361
NF-127	V-1289 A PELLET STABILIZER FOR EXTRUDER	5361, 106.261/11/01/2003
NF-128	V-1289 B PELLET STABILIZER FOR EXTRUDER	5361, 106.261/11/01/2003
NF-129	V-1289 C RERUN PELLETS FOR EXTRUDER	5361, 106.261/11/01/2003
NF-130	V-1289 D RERUN PELLETS FOR EXTRUDER	5361, 106.261/11/01/2003
NF-132	V-1289 F DUST COLLECTOR VENT	5361, 106.261/11/01/2003
NF-134	V-1517 A FINISHED PRODUCT PELLET STORAGE TANK VENT	5361
NF-135	V-1517 B FINISHED PRODUCT PELLET STORAGE TANK VENT	5361

New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
NF-136	V-1517 C FINISHED PRODUCT PELLETS STORAGE TANK VENT	5361
NF-137	V-1519 RERUN PELLETS FOR EXTRUDER	5361
NF-138	V-1522 A FINISHED PRODUCT PELLETS STORAGE	5361
NF-139	V-1522 B FINISHED PRODUCT PELLETS STORAGE	5361
NF-140	V-1522 C FINISHED PRODUCT PELLETS STORAGE	5361
NF-141	V-1621 A STABILIZER PELLETS STORAGE	5361
NF-142	V-1621 B EXTRUDER RERUN PELLETS STORAGE	5361
NF-143	V-1621 C EXTRUDER RERUN PELLETS STORAGE	5361
NF-144	V-1621 D STABILIZER PELLETS STORAGE	5361
NF-145	V-1622 A FINISHED PELLETS STORAGE	5361
NF-146	V-1622 B FINISHED PELLETS STORAGE	5361
NF-147	V-1622 C FINISHED PELLETS STORAGE	5361
NF-148	V-1623 A FINISHED PELLETS STORAGE	5361
NF-149	V-1623 B FINISHED PELLETS STORAGE	5361
NF-150	V-1623 C FINISHED PELLETS STORAGE	5361
NF-155	PK-30142 RAILCAR LOADING FINES VACUUM	5361
NF-156	MS-30810 FINES FILTER	5361
NF-158	MS-31825 STARTUP DRYER VENT	5361
NF-159	V-30716 FLAKE STORAGE TANK VENT	106.261/11/01/2003

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
NF-160	C-30437 EXTRUDER PRODUCT SPINAWAY DRYER BLOWER	106.261/11/01/2003
NF-161	C-30438 EXTRUDER STARTUP SPINAWAY DRYER BLOWER	106.261/11/01/2003
O-2	PK-30182 CLEANING OVEN VENT	38105
SP-010	V-1625 PELLET STORAGE TANK VENT	38105
SP-011	V-1636 PELLET STORAGE TANK VENT	38105
SP-013	MS-30945 EXTRUDER VENT	38105, 106.261/11/01/2003
SP-091	PK-30229 EXTRUDER VENT PORTS	106.262/12/24/1998
SP-101	PELLET RECEIVER VENT	38105
SP-103	RERUN PELLET TANK VENT	38105
SP-105	FUME REMOVAL VENT	38105
SP-106	VENT PORT	38105
SP-107	DRYER/COOLER CYCLONE VENT	38105
SP-108	PRODUCT CONVEYING SECONDARY CYCLONE	38105
SP-111	DUST COLLECTOR	38105
SP-115	VENT PORT	38105
SP-116	DRYER/COOLER CYCLONE VENT	38105
SP-117	PRODUCT CONVEYING SECONDARY CYCLONE	38105
SP-118	DUST COLLECTOR	38105
SP-119	RERUN PELLET TANK VENT	38105

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
SP-120	RERUN PELLET TANK VENT	38105
SP-121	VENT PORT	38105
SP-122	DRYER/COOLER CYCLONE VENT	38105
SP-123	PRODUCT CONVEYING SECONDARY CYCLONE	38105
SP-125	DUST COLLECTOR	38105
SP-126	PRODUCT DRYER BLOWER VENT	38105
SP-127	STARTUP DRYER BLOWER VENT	38105
SP-128	PRODUCT DRYER BLOWER VENT	38105
SP-129	STARTUP DRYER BLOWER VENT	38105
SP-12	PELLET STORAGE TANK	38105
SP-130	PRODUCT DRYER BLOWER VENT	38105
SP-131	STARTUP DRYER BLOWER VENT	38105
SP-16	GRAVITY BLENDER VENT	38105
SP-17	GRAVITY BLENDER VENT	38105
SP-18	PELLET STORAGE TANK	38105
SP-19	PELLET STORAGE TANK	38105
SP-20	VENT PORT VACUUM PUMP	38105
SP-22A	FLAKE TANK VENT	38105
SP-22B	FLAKE TANK VENT	38105

New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
SP-23	FLAKE TANK VENT	38105
SP-26	VENT PORT VACUUM PUMP	38105
SP-30	FLAKE TANK VENT	38105
SP-31	FLAKE FEED HOPPER VENT	38105
SP-35	VENT PORT VACUUM PUMP	38105
SP-38	VENT PORT VACUUM PUMP	38105
SP-39	RERUN PELLET FEEDER TANK VENT	38105
SP-40	RERUN PELLET FEEDER TANK VENT	38105
SP-48	PELLET FEED TANK VENT	38105
SP-49	PELLET FEED TANK VENT	38105
SP-50	PELLET FEED TANK VENT	38105
SP-51	PELLET FEED TANK VENT	38105
SP-52	PELLET FEED TANK VENT	38105
SP-53	PELLET FEED TANK VENT	38105
SP-54	PELLET FEED TANK VENT	38105
SP-55	PELLET FEED TANK VENT	38105
SP-56	PELLET FEED TANK VENT	38105
SP-57	FLAKE STORAGE TANK	38105
SP-58	FLAKE STORAGE TANK	38105

New Source Review Authorization References by Emissions Unit

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Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
SP-59	PELLET FEED TANK VENT	38105
SP-60	PELLET FEED TANK VENT	38105
SP-65	PELLET FEED TANK VENT	38105
SP-66	EXHAUST BLOWER VENT	38105
SP-71	EXHAUST BLOWER VENT	38105
SP-73	PELLET STORAGE TANK	38105
SP-75	PELLET STORAGE TANK	38105
SP-87	PELLET BLENDER VENT	38105
SP-88	PELLET BLENDER VENT	38105
SP-89	PELLET BLENDER VENT	38105
SP-90	PELLET BLENDER VENT	38105

Appendix A

Acronym List 26

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
COMS	continuous opacity monitoring system
CVS	closed-vent system
D/FW	Dallas/Fort Worth (nonattainment area)
DR	Designated Representative
EIP	El Paso (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
GF	grandfathered
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
MMBtu/hr	Million British thermal units per hour
MRRT	monitoring, recordkeeping, reporting, and testing
NA	nonattainment
N/A	not applicable
NADB	National Allowance Data Base
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
PM	particulate matter
ppmv	parts per million by volume
PSD	prevention of significant deterioration
RO	Responsible Official
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