

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Rio Grande Valley Sugar Growers, Inc.

AUTHORIZING THE OPERATION OF

W. R. Cowley Sugar House

Cane Sugar

LOCATED AT

Hidalgo County, Texas

Latitude 26° 15' 32" Longitude 97° 51' 47"

Regulated Entity Number: RN100825405

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: O995 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. 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.
 - B. 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.
 - C. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- 4. 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)
- 5. 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.
- 6. 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

Additional Monitoring Requirements

- 7. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:
 - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
 - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “CAM 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 in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

- D. The permit holder shall operate the monitoring, identified in the attached “CAM Summary,” in accordance with the provisions of 40 CFR § 64.7.
- E. The permit holder shall comply with either of the following requirements for any particulate matter capture system associated with the control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective action:
 - (i) Once per year the permit holder shall inspect any fan for proper operation and inspect the capture system used in compliance of CAM for cracks, holes, tears, and other defects; or
 - (ii) Once per year, the permit holder shall inspect for fugitive emissions escaping from the capture system in compliance of CAM by performing a visible emissions observation for a period of at least six minutes in accordance with 40 CFR Part 60, Appendix A, Test Method 22.
- F. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

New Source Review Authorization Requirements

- 8. 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
- 9. 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.

10. 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

11. 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.
12. 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)

Protection of Stratospheric Ozone

- 13. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
 - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.
 - B. Any on site servicing, maintenance, and repair of fleet vehicle air conditioning using ozone-depleting refrigerants shall be conducted in accordance with 40 CFR Part 82, Subpart B. Permit holders shall ensure that repairs or refrigerant removal are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart B.

Permit Location

- 14. 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)

- 15. 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

Unit Summary 12

Applicable Requirements Summary13

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
BLR5	Boilers/Steam Generators/Steam Generating Units	N/A	60-Db	40 CFR Part 60, Subpart Db	No changing attributes.
BLR6	Boilers/Steam Generators/Steam Generating Units	N/A	60-Db	40 CFR Part 60, Subpart Db	No changing attributes.
GRPVNT1-4	Emission Points/Stationary Vents/Process Vents	BLR-1, BLR-2, BLR-3, BLR-4	R1151-1	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
GRPVNT1-4	Emission Points/Stationary Vents/Process Vents	BLR-1, BLR-2, BLR-3, BLR-4	1	30 TAC Chapter 111, Visible Emissions	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)
BLR5	EU	60-Db	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)
BLR5	EU	60-Db	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)
BLR5	EU	60-Db	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)
BLR6	EU	60-Db	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)
BLR6	EU	60-Db	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,	None	[G]§ 60.49b(d) § 60.49b(o)	§ 60.49b(a) § 60.49b(a)(1) § 60.49b(a)(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)
						and that has a heat input capacity from fuels combusted in the unit > 29 MW (100 MMBtu/hr).			
GRPVNT1-4	EP	R1151-1	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
GRPVNT1-4	EP	1	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 CAM Summary	None	None

Additional Monitoring Requirements

Compliance Assurance Monitoring Summary 16

CAM Summary

Unit/Group/Process Information	
ID No.: GRPVNT1-4	
Control Device ID No.: CYCLONE	Control Device Type: Cyclone
Control Device ID No.: WETSCRUBBER	Control Device Type: Wet Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: 1
Pollutant: OPACITY	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per day	
Averaging Period: six-minute	
Deviation Limit: Visible emissions > 20% opacity.	
CAM Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period each day, in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9 and 40 CFR § 64.7(c). If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded.	

CAM Summary

Unit/Group/Process Information	
ID No.: GRPVNT1-4	
Control Device ID No.: WETSCRUBBER	Control Device Type: Wet Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-1
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Liquid Supply Pressure	
Minimum Frequency: once per day	
Averaging Period: n/a*	
Deviation Limit: Liquid supply pressure is < 10 psig.	
<p>CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 5% of span; or ± 5% of design liquid supply pressure. 	

*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

CAM Summary

Unit/Group/Process Information	
ID No.: GRPVNT1-4	
Control Device ID No.: WETSCRUBBER	Control Device Type: Wet Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-1
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Liquid Flow Rate	
Minimum Frequency: Once per day	
Averaging Period: n/a*	
Deviation Limit: Liquid flow rate less than 452 gallons per minute.	
CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following: <ul style="list-style-type: none"> ± 2% of span; or ± 5% of design liquid flow rate. 	

*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

Permit Shield

Permit Shield20

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		
GRPTK2A-2D	TK-2A, TK2B, TK2C, TK2D	40 CFR Part 60, Subpart K	Storage capacity is less than 40k gallons.
TK-1	N/A	40 CFR Part 60, Subpart Kb	Storage capacity is less than 10K gallons.

New Source Review Authorization References

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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.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX1024	Issuance Date: 12/12/2013
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.: 114	Issuance Date: 12/12/2013
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.261	Version No./Date: 03/14/1997
Number: 106.263	Version No./Date: 03/14/1997
Number: 106.264	Version No./Date: 03/14/1997
Number: 106.371	Version No./Date: 03/14/1997
Number: 106.412	Version No./Date: 03/14/1997
Number: 106.452	Version No./Date: 03/14/1997
Number: 106.472	Version No./Date: 03/14/1997
Number: 106.473	Version No./Date: 03/14/1997
Number: 106.474	Version No./Date: 09/04/2000
Number: 106.531	Version No./Date: 03/14/1997

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
BLR-1	BAGASSE/NATL GAS FIRED STEAMBOILER	114, PSDTX1024
BLR-2	BAGASSE/NATL GAS FIRED STEAMBOILER	114, PSDTX1024
BLR-3	BAGASSE FIRED STEAMBOILER	114, PSDTX1024
BLR-4	BAGASSE FIRED STEAMBOILER	114, PSDTX1024
BLR5	NATURAL GAS FIRED BOILER	114, PSDTX1024
BLR6	BAGASSE/NATL GAS FIRED STEAMBOILER	114, PSDTX1024
TK-1	UNDERGROUND GASOLINE STORAGE TANK	106.473/03/14/1997
TK-2A	ABOVE GROUND DIESEL FUEL STORAGE TANK	106.472/03/14/1997
TK2B	ABOVE GROUND DIESEL FUEL STORAGE TANK	106.472/03/14/1997
TK2C	ABOVE GROUND DIESEL FUEL STORAGE TANK	106.472/03/14/1997
TK2D	ABOVE GROUND DIESEL FUEL STORAGE TANK	106.472/03/14/1997

Appendix A

Acronym List 25

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
ELP	.....	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

Appendix B

Major NSR Summary Table..... 27

Major NSR Summary Table

Permit Number: 114 / PSDTX1024			Issuance Date: 12 / 12/ 2013				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
E-1	Boiler No. 1 Scrubber Stack (Bagasse Fired Unit)	CO (Normal)	126.27	242.44			
		CO (MSS)	91.06	5.49			
		HAP (Normal)	1.26	3.02			
		NO _x (Normal) (5)	42.91	82.40			
		NO _x (MSS)	219.36	12.05			
		PM (Normal) (5)	17.83	34.22	3		
		PM (MSS)	9.66	0.60	6	5	
		PM ₁₀ (Normal)	17.83	34.22	7	6	6
		PM ₁₀ (MSS)	9.66	0.60	10	7	24
		PM _{2.5} (Normal)	13.87	26.64	11	10	27, 28, 29
		PM _{2.5} (MSS)	8.78	0.54	15	18	31, 32, 33, 34
		SO ₂ (Normal)	0.43	0.83	18	34	
		SO ₂ (MSS)	0.55	0.03	22	35	
		VOC (Normal)	4.21	8.09	26	36	
		VOC (MSS)	5.06	0.29	30		
			34				

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements	
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.	
E-2	Boiler No. 2 Scrubber Stack (Bagasse Fired Unit)	CO (Normal)	166.22	319.15				
		CO (MSS)	99.94	6.14				
		HAP	0.82	1.98				
		NO _x (Normal) (5)	33.52	64.36				
		NO _x (MSS)	217.45	11.89				
		PM (Normal) (5)	23.09	44.33				3
		PM (MSS)	10.83	0.69				6
		PM ₁₀ (Normal)	23.09	44.33				7
		PM ₁₀ (MSS)	10.83	0.69				10
		PM _{2.5} (Normal)	22.38	42.97				11
		PM _{2.5} (MSS)	10.67	0.68				15
		SO ₂ (Normal)	0.52	1.00				18
		SO ₂ (MSS)	0.56	0.03				22
		VOC (Normal)	16.33	31.35				26
		VOC (MSS)	7.75	0.49				30
			34					
			5					
			6					
			7					
			10					
			34					
			35					
			36					
			6					
			24					
			27, 28, 29					
			31, 32, 33, 34					

Permit Number: 114 / PSDTX1024

Issuance Date: 12 / 12/ 2013

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
E-3	Boiler No. 3 Scrubber Stack (Bagasse Fired Unit)	CO (Normal)	69.09	132.65			
		CO (MSS)	17.27	1.24			
		HAP	0.94	2.26			
		NO _x (Normal) (5)	31.32	60.14			
		NO _x (MSS)	7.83	0.56			
		PM (Normal) (5)	12.28	23.58			
		PM (MSS)	3.07	0.22			
		PM ₁₀ (Normal)	12.28	23.58			
		PM ₁₀ (MSS)	3.07	0.22			
		PM _{2.5} (Normal)	11.21	21.52			
		PM _{2.5} (MSS)	0.28	0.20			
		SO ₂ (Normal)	1.14	2.18			
		SO ₂ (MSS)	0.57	0.02			
		VOC (Normal)	10.95	21.03			
VOC (MSS)	2.74	0.20					

Permit Number: 114 / PSDTX1024

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements	
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.	
E-4	Boiler No. 4 Scrubber Stack (Bagasse Fired Unit)	CO (Normal)	83.87	161.03				
		CO (MSS)	20.97	1.51				
		HAP	0.94	2.25				
		NO _x (Normal) (5)	33.64	64.59				
		NO _x (MSS)	8.41	0.61				
		PM (Normal) (5)	14.77	28.36				3
		PM (MSS)	3.69	0.27				6
		PM ₁₀ (Normal)	14.77	28.36				7
		PM ₁₀ (MSS)	3.69	0.27				10
		PM _{2.5} (Normal)	12.73	24.44				11
		PM _{2.5} (MSS)	3.18	0.23				15
		SO ₂ (Normal)	1.43	2.74				18
		SO ₂ (MSS)	0.36	0.03				22
		VOC (Normal)	10.90	20.92				26
		VOC (MSS)	2.72	0.20				30
			34					
			5					
			6					
			7					
			10					
			34					
			35					
			36					
			6					
			24					
			27, 28, 29					
			31, 32, 33, 34					

Permit Number: 114 / PSDTX1024

Issuance Date: 12 / 12 / 2013

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
E-5	Boiler No. 5 Scrubber Stack (Bagasse Fired Unit)	CO (Normal)	18.38	8.05			
		CO (MSS)	9.20	0.22			
		HAP	0.42	0.19			
		NO _x (Normal) (5)	61.28	26.84			
		NO _x (MSS)	10.95	0.26			
		PM (Normal) (5)	1.66	0.73			
		PM (MSS)	0.83	0.02			
		PM ₁₀ (Normal)	1.66	0.73			
		PM ₁₀ (MSS)	0.83	0.02			
		PM _{2.5} (Normal)	1.66	0.73			
		PM _{2.5} (MSS)	0.83	0.02			
		SO ₂ (Normal)	0.13	0.06			
		SO ₂ (MSS)	0.07	0.01			
		VOC (Normal)	1.20	0.53			
		VOC (MSS)	0.06	0.01			

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Issuance Date: 12 / 12/ 2013

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
E-6	Boiler No. 6 Scrubber Stack (Bagasse Fired Unit)	CO (Normal)	43.36	83.25			
		CO (MSS)	45.66	2.66			
		HAP	2.58	6.19			
		NO _x (Normal) (5)	113.09	217.13			
		NO _x (MSS)	107.46	6.31			
		PM (Normal) (5)	15.75	30.24	3		
		PM (MSS)	100.70	5.51	4	4	
		PM ₁₀ (Normal)	15.75	30.24	5	5	
		PM ₁₀ (MSS)	100.70	5.51	6	6	4
		PM _{2.5} (Normal)	15.75	30.24	7	7	6
		PM _{2.5} (MSS)	100.70	5.51	10	10	24
		SO ₂ (Normal)	22.62	43.44	15	14	27, 28, 29
		SO ₂ (MSS)	6.53	0.45	18, 19, 20	34	31, 32, 33, 34
		VOC (Normal)	2.41	4.62	22	35	
		VOC (MSS)	2.87	0.17	26	36	

Permit Number: 114 / PSDTX1024			Issuance Date: 12 / 12/ 2013				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hr	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
E-8	Shredded Bagasse Storage and Handling (6)	PM	0.15	0.35	8	8	
		PM ₁₀	0.15	0.35			
		PM _{2.5}	0.02	0.05			

Footnotes:

(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) CO - carbon monoxide

HAP- hazardous air pollutant as listed in §112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

NO_x – total oxides of nitrogen

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

SO₂ – sulfur dioxide

VOC – volatile organic compounds as defined in Title 30 Texas Administrative Code §101.1

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) PSD pollutant

(6) Fugitive emissions are an estimate only.

(7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AIR QUALITY PERMIT



A Permit Is Hereby Issued To
Rio Grande Valley Sugar Growers, Inc.
Authorizing the Construction and Operation of
Sugarcane Processing Mill
Located at **Santa Rosa, Hidalgo County, Texas**
Latitude 26° 16' 16" Longitude 97° 52' 00"

Permit: 114 and PSDTX1024

Amendment Date : December 12, 2013

Renewal Date: December 12, 2023


For the Commission

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

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

Special Conditions

Permit Numbers 114 and PSDTX1024

Emission Limitations

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

Fuel Specifications

2. Fuel for the boilers during normal operation, planned startup, and shutdown shall be limited to the following:
 - A. Boilers No. 1, 2, and 6 (Emission Point Nos. [EPNs] E-1, E-2, and E-6) shall be limited to bagasse supplemented with pipeline-quality natural gas.
 - B. Boilers No. 3 and 4 (EPNs E-3 and E-4) shall be limited to bagasse.
 - C. Boiler No. 5 (EPN E-5) shall be limited to pipeline-quality natural gas.

The bagasse feed shall cease with the commencement of the planned shutdown for Boiler Nos. 1, 2, 3, 4, and 6. Use of any other fuel will require prior approval of the Executive Director of the Texas Commission on Environmental Quality (TCEQ).

3. Upon request by the Executive Director of the TCEQ or the TCEQ Regional Director or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuels used in these facilities or shall allow air pollution control program representatives to obtain a sample for analysis.

Federal Applicability

4. These facilities (Boilers No. 5 and 6 [EPNs E-5 and E-6]) shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) Regulations on Standards of Performance for New Stationary Sources in Title 40 Code of Federal Regulations (40 CFR) Part 60, specifically the following:
 - A. Subpart A - General Provisions; and
 - B. Subpart Db - Industrial-Commercial-Institutional Steam Generating Units

If any condition of this permit is more stringent than the regulations so incorporated, the permit shall govern and be the standard by which compliance shall be demonstrated.

5. The company shall keep appropriate records of steam production and natural gas usage for Boilers No. 5 and 6 (EPNs E-5 and E-6) to demonstrate that the annual capacity factor will not exceed 10 percent in order to keep these units from being subject to the NO_x limitations and continuous emissions monitoring requirements specified in 40 CFR Part 60, Subpart Db. The annual fuel usage rates specified in the permit limitations reflect the 10 percent annual capacity limitation.
6. These permitted facilities shall comply with all applicable requirements of the EPA Regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63, specifically the following:
 - A. Subpart A - General Provisions; and
 - B. Subpart JJJJJJ- National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

Opacity/Visible Emission Limitations

7. Opacity of particulate matter emissions from the Boilers No. 1-4 Scrubber Stacks (EPNs E-1, E-2, E-3, and E-4) and the Boiler No. 6 Electrostatic Precipitator (ESP) Stack (EPN E-6) shall not exceed 15 percent. Determination of compliance with this requirement shall be made by first observing for visible emissions during normal plant operations. Observations shall be made at least 15 feet and no more than 0.25 miles from the emissions point. If visible emissions are observed from the emission point, opacity shall be determined using 40 CFR Part 60, Appendix A, Test Method (TM) 9. Contributions from uncombined water vapor shall not be included in determining compliance with this condition. Determination of compliance with this requirement shall be performed and the results recorded quarterly.
8. There shall be no visible fugitive emissions leaving the property from the outdoor bagasse storage area (EPN E-8). Observations for visible emissions shall be performed and recorded quarterly. The visible emissions determination shall be made during normal plant operations. Observations shall be made on the downwind property line for a minimum of six minutes. If visible emissions are observed, an evaluation must be accomplished in accordance with the EPA 40 CFR Part 60, Appendix A, TM 22, using the criteria that visible emissions shall not exceed a cumulative 30 seconds in duration in any six-minute period. If visible emissions exceed the TM 22 criteria, corrective action to eliminate the excessive visible emissions shall be taken promptly and documented within 24 business hours of first observing the visible emissions.

Operational Limitations, Work Practices, and Plant Design

9. Emission rates are based on and the facilities are limited to the following bagasse consumption rates at a moisture content of 50 percent:

<u>EPN</u>	<u>Source Name</u>	<u>Maximum Hourly Consumption (Tons)</u>	<u>Maximum Annual Consumption (Tons)</u>
E-1	Boiler No. 1	37.5	144,000
E-2	Boiler No. 2	37.5	144,000
E-3	Boiler No. 3	31.3	120,000
E-4	Boiler No. 4	31.3	120,000
E-6	Boiler No. 6	75.0	288,000

Emissions rates for Boiler No. 5 (EPN E-5) are based on and the facilities are limited to a maximum hourly fuel consumption of 219,000 cubic feet and a maximum annual fuel consumption of 192,000,000 cubic feet of natural gas.

Emissions rates for Boiler No. 6 (EPN E-6) are based on and the facilities are limited to a maximum hourly fuel consumption of 213,360 cubic feet and a maximum annual fuel consumption of 25,000,000 cubic feet of natural gas.

No changes shall be made to the above limitations without prior approval of the Executive Director of the TCEQ.

10. Hours of operation for Boilers No. 1 through 6 (EPNs E-1 through E-6) shall each not exceed 4800 hours per rolling twelve months.
11. Multiclone dust collectors followed by wet scrubbers, properly installed and in good working order, shall control emissions from Boilers No. 1-4 (EPNs E-1, E-2, E-3, and E-4) when this equipment is in operation. All scrubbers shall be equipped with pressure gauges and maintained at a minimum of 10 pounds per square inch (psi) water pressure at the spray nozzles around the scrubbers and at a minimum of 10 psi water pressure at the spray nozzles on top of the eliminator vanes.
12. Multiclone dust collectors followed by an ESP, properly installed and in good working order, shall control particulate matter emissions from Boiler No. 6 (EPN E-6) when this equipment is in operation.
13. Spillage of any bagasse outside of the designated bagasse storage area, raw products, finished products, or waste products shall be cleaned up on a daily basis.
14. The Boiler No. 6 ESP Stack (EPN E-6) shall not exceed the following emission limitations:

PM ₁₀	0.03 pound per million British thermal units (lb/MMBtu);
NO _x	0.25 lb/MMBtu;
CO	0.255 lb/MMBtu; and
VOC	0.01 lb/MMBtu.

15. All hooding, duct, and collection systems shall be effective in capturing emissions from the intended equipment and in preventing fugitive emissions from the building. The hooding and duct systems shall be maintained free of holes, cracks, and other conditions that would reduce the collection efficiency of the emissions capture system.
16. All in-plant roads, truck loading and unloading areas, parking areas, and other traffic areas shall be sprinkled with water, and/or be paved (with a cohesive hard surface) and cleaned as necessary to maintain compliance with all applicable TCEQ rules and regulations.
17. The following processes are authorized by a registered Permit by Rule (PBR):

<u>Process</u>	<u>Authorization</u>	<u>Reference</u>	<u>Date</u>
Sandblasting	PBR 89602	30 TAC § 106.263	1/08/2010
Surface Coating	PBR 89602	30 TAC § 106.263	1/08/2010

Demonstration of Continuous Compliance

18. Upon request by the TCEQ Executive Director or the TCEQ Regional Director having jurisdiction, the holder of this permit shall perform stack sampling and/or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere to demonstrate compliance with the MAERT and with emission performance levels as specified in the special conditions and/or otherwise prove satisfactory equipment performance. Sampling must be conducted in accordance with the TCEQ Sampling Procedures Manual and in accordance with the applicable EPA 40 CFR procedures. Any deviations from those procedures must be approved by the TCEQ Executive Director or the appropriate TCEQ Regional Director prior to conducting sampling.
19. The holder of this permit shall install, calibrate, and maintain a device to monitor and record secondary voltage in the Boiler No. 6 ESP (EPN E-6). The monitoring device shall be calibrated in accordance with the manufacturer's specification and shall be calibrated at least annually and shall be accurate to within a range of $\pm 2\%$ of reading; or $\pm 5\%$ over its operating range.

The minimum secondary voltage shall be maintained at (or above) 10 kilovolts direct current (kVDC). The actual secondary voltage shall be recorded at least once per day.

20. The holder of this permit shall install, calibrate, and maintain a device to monitor and record secondary current in the Boiler No. 6 ESP (EPN E-6). The monitoring device shall be calibrated in accordance with the manufacturer's specifications and shall be calibrated at least annually and shall be accurate to within a range of $\pm 1\%$ of reading; or $\pm 5\%$ over its operating range.

The minimum secondary current shall be maintained above 0 milliamps direct current (mADC). The actual secondary current shall be recorded at least once per day.

21. The holder of this permit may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging times specified, 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 particulate instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
22. The holder of this permit shall perform monthly inspections to verify proper operation of the capture system to verify there are no holes, cracks, and/or other conditions that would reduce the collection efficiency of the emission capture system as represented. If the results of the inspections indicate that the capture system is not operating properly, the permit holder shall promptly take necessary corrective actions.
23. The control device shall not have a bypass.
24. The TCEQ Regional Office shall be notified as soon as possible after the discovery of any monitor malfunction, which is expected to result in more than 24 hours of lost data. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director in case of extended monitor downtime. Necessary corrective action shall be taken if the downtime exceeds 5% of the Boiler No. 6 (EPN E-6) operating hours in the quarter. Failure to complete any corrective action as directed by the TCEQ Regional Office may be deemed a violation of the permit.

Sampling Requirements

25. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at their own expense. Sampling ports and platforms shall be incorporated into the design of the stack(s) according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" prior to stack sampling. Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Office with jurisdiction.
26. Sampling shall be conducted in accordance with the TCEQ Sampling Procedures Manual and EPA TMs in 40 CFR Part 60, Appendix A, and 40 CFR Part 51, Appendix M, as follows:
 - A. TMs 1 through 4, as appropriate, for exhaust flow, diluent, and moisture concentration;
 - B. TM 9 for opacity (consisting of 30 six-minute readings as provided in 40 CFR § 60.11[b]);
 - C. TMs 201A and 202 or Method 5, modified to include back-half condensibles, for the concentration of PM₁₀;
 - D. TM 8 or Method 6 or 6C for the concentration SO₂;
 - E. TM 20 for the concentrations of NO_x and oxygen or equivalent methods;

- F. TM 10 for the concentration of CO; and
- G. TM 25A, modified to exclude methane and ethane, for the concentration of VOC (to measure total carbon as propane).

Any deviations from those procedures must be approved by the TCEQ Executive Director or the appropriate TCEQ Regional Director prior to conducting sampling.

- 27. A pretest meeting shall be held with personnel from the TCEQ before the required tests are performed. The TCEQ Regional Office with jurisdiction shall be notified not less than 45 days prior to sampling to schedule a pretest meeting. The notice shall include:
 - A. Date for pretest meeting;
 - B. Date sampling will occur;
 - C. Points or sources to be sampled;
 - D. Name of firm conducting sampling;
 - E. Type of sampling equipment to be used; and
 - F. Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

- 28. Alternate sampling methods and representative unit testing may be proposed by the permit holder. A written proposed description of any deviation from sampling procedures or emission sources specified in permit conditions or TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. Such a proposal must be approved by the TCEQ Regional Office with jurisdiction at least two weeks prior to sampling.
- 29. Requests to waive testing for any pollutant specified shall be submitted, in writing, for approval to the TCEQ Office of Air, Air Permits Division in Austin.
- 30. During stack sampling emission testing, the facilities shall operate at maximum represented throughput rates. Primary operating parameters that enable determination of throughput rates shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting.

If the plant is unable to operate at the maximum represented throughput rates during testing, then additional stack testing shall be required when the throughput rate exceeds the previous stack test throughput rate by +10 percent unless otherwise determined, in writing, by the TCEQ Executive Director.

31. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office with jurisdiction. Additional time to comply with the applicable federal requirements requires EPA approval, and requests shall be submitted to the TCEQ Regional Office with jurisdiction.
32. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

One copy to the TCEQ Regional Office with jurisdiction.
One copy to the TCEQ Office of Air, Air Permits Division in Austin.
One copy to each appropriate local air pollution control program with jurisdiction.
33. If, as a result of stack sampling, compliance with the permitted emission rates cannot be demonstrated, the holder of this permit shall adjust any operating parameters so as to comply with Special Condition No. 1 and the permitted emission rates.
34. If the holder of this permit is required to adjust any operating parameters for compliance, then beginning no later than 60 days after the date of the test conducted, the holder of this permit shall submit to the TCEQ, on a monthly basis, a record of adjusted operating parameters and daily records of production sufficient to demonstrate compliance with the permitted emission rates. Daily records of production and operating parameters shall be distributed as follows:

One copy to the TCEQ Regional Office with jurisdiction.
One copy to the TCEQ Office of Air, Air Permits Division in Austin.

Planned Maintenance, Startup, and Shutdown (MSS)

35. Each steam boiler is limited to the following total hours per planned startup and shutdown activity:

Steam Boiler Number	Total Hours per Startup or Shutdown Activity	Total Hours of Startup and Shutdown Activities per Rolling 12 Months
1	24	144
2	24	144
3	24	144
4	24	144
5	8	48
6	24	144

Maintenance activities are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.

Recordkeeping Requirements

36. Records shall be maintained at this facility and made available at the request of personnel from the TCEQ or any other air pollution control program having jurisdiction to demonstrate compliance with permit limitations. These records shall be totaled for each calendar month, retained for a rolling 60-month period, and include the following:
- A. Daily and annual fuel consumption (in tons) of bagasse for Boilers No. 1-4 (EPNs E-1 through E-4) and No. 6 (EPN E-6);
 - B. Daily and annual fuel consumption (in cubic feet) of natural gas for Boiler No. 5 (EPN E-5) and Boiler No. 6 (EPN E-6);
 - C. Annual hours of operation for Boilers No. 1 – 6;
 - D. Quarterly observations for visible emissions and/or opacity determinations for Boilers No. 1-4 (EPNs E-1 through E-4), Boiler No. 6 (EPN E-6), and outdoor bagasse storage area (EPN E-8);
 - E. All monitoring data and support information as specified in 30 TAC § 122.144;
 - F. Inspections of capture systems and abatement devices shall be recorded as they occur;
 - G. Records of materials (that have the potential to emit Hazardous Air Pollutants [HAPs]) used shall be kept in sufficient detail in order to allow all required emission rates to be fully and accurately calculated. Using this recorded data, a report shall be produced for the emission of HAPs (in tons per year) over the previous 12 consecutive months. The required records shall be kept with examples of the method of data reduction including units, conversion factors, assumptions, and the basis of the assumptions; and
 - H. The total hours of planned startup and shutdown activities per year for Boilers No. 1 through 6 (EPNs E-1 through E-6).

Date December 12, 2013

Emission Sources – Maximum Allowable Emission Rates

Permit Number 114 and PSDTX1024

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
Normal Operations				
E-1	Boiler No. 1 Scrubber Stack (Bagasse Fired Unit)	CO	126.27	242.44
		HAP	1.26	3.02
		NO _x (5)	42.91	82.40
		PM	17.83	34.22
		PM ₁₀ (5)	17.83	34.22
		PM _{2.5}	13.87	26.64
		SO ₂	0.43	0.83
		VOC	4.21	8.09
E-2	Boiler No. 2 Scrubber Stack (Bagasse Fired Unit)	CO	166.22	319.15
		HAP	0.82	1.98
		NO _x (5)	33.52	64.36
		PM	23.09	44.33
		PM ₁₀ (5)	23.09	44.33
		PM _{2.5}	22.38	42.97
		SO ₂	0.52	1.00
		VOC	16.33	31.35
E-3	Boiler No. 3 Scrubber Stack (Bagasse Fired Unit)	CO	69.09	132.65
		HAP	0.94	2.26
		NO _x (5)	31.32	60.14
		PM	12.28	23.58
		PM ₁₀ (5)	12.28	23.58
		PM _{2.5}	11.21	21.52
		SO ₂	1.14	2.18
		VOC	10.95	21.03
E-4	Boiler No. 4	CO	83.87	161.03

Emission Sources – Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
	Scrubber Stack (Bagasse Fired Unit)	HAP	0.94	2.25
		NO _x (5)	33.64	64.59
		PM	14.77	28.36
		PM ₁₀ (5)	14.77	28.36
		PM _{2.5}	12.73	24.44
		SO ₂	1.43	2.74
		VOC	10.90	20.92
E-5	Boiler No. 5 Stack (Natural Gas Fired Backup Unit)	CO	18.38	8.05
		HAP	0.42	0.19
		NO _x	61.28	26.84
		PM	1.66	0.73
		PM ₁₀	1.66	0.73
		PM _{2.5}	1.66	0.73
		SO ₂	0.13	0.06
		VOC	1.20	0.53
E-6	Boiler No. 6 Electrostatic Precipitator Stack (Bagasse Fired Unit)	CO	43.36	83.25
		HAP	2.58	6.19
		NO _x (5)	113.09	217.13
		PM	15.75	30.24
		PM ₁₀ (5)	15.75	30.24
		PM _{2.5}	15.75	30.24
		SO ₂	22.62	43.44
		VOC	2.41	4.62
E-8	Shredded Bagasse Storage and Handling (6)	PM	0.15	0.35
		PM ₁₀	0.15	0.35
		PM _{2.5}	0.02	0.05
Planned Startup and Shutdown Activities				
E-1	Boiler No. 1 Scrubber Stack (Bagasse Fired Unit)	CO	91.06	5.49
		NO _x	219.36	12.05
		PM	9.66	0.60
		PM ₁₀	9.66	0.60

Emission Sources – Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
		PM _{2.5}	8.78	0.54
		SO ₂	0.55	0.03
		VOC	5.06	0.29
E-2	Boiler No. 2 Scrubber Stack (Bagasse Fired Unit)	CO	99.94	6.14
		NO _x	217.45	11.89
		PM	10.83	0.69
		PM ₁₀	10.83	0.69
		PM _{2.5}	10.67	0.68
		SO ₂	0.56	0.03
		VOC	7.75	0.49
E-3	Boiler No. 3 Scrubber Stack (Bagasse Fired Unit)	CO	17.27	1.24
		NO _x	7.83	0.56
		PM	3.07	0.22
		PM ₁₀	3.07	0.22
		PM _{2.5}	0.28	0.20
		SO ₂	0.57	0.02
		VOC	2.74	0.20
E-4	Boiler No. 4 Scrubber Stack (Bagasse Fired Unit)	CO	20.97	1.51
		NO _x	8.41	0.61
		PM	3.69	0.27
		PM ₁₀	3.69	0.27
		PM _{2.5}	3.18	0.23
		SO ₂	0.36	0.03
		VOC	2.72	0.20
E-5	Boiler No. 5 Stack (Natural Gas Fired Backup Unit)	CO	9.20	0.22
		NO _x	10.95	0.26
		PM	0.83	0.02
		PM ₁₀	0.83	0.02
		PM _{2.5}	0.83	0.02
		SO ₂	0.07	0.01
		VOC	0.60	0.01

Emission Sources – Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
E-6	Boiler No. 6 Electrostatic Precipitator Stack (Bagasse Fired Unit)	CO	45.66	2.66
		NO _x	107.46	6.31
		PM	100.70	5.51
		PM ₁₀	100.70	5.51
		PM _{2.5}	100.70	5.51
		SO ₂	6.53	0.45
		VOC	2.87	0.17

- (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) CO - carbon monoxide
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
NO_x - total oxides of nitrogen
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
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) PSD pollutant
- (6) Fugitive emissions are an estimate only.
- (7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: December 12, 2013