

Facility ID: 0641180000 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 0641180000 Emissions Unit ID: B011 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B011 - 20.4 MMBtu/hr Boiler for process heat.	OAC rule 3745-31-05 PTI # 06-06205	Emissions shall not exceed: 0.012 lb SO ₂ /hr maximum; 0.053 ton SO ₂ /yr maximum; 0.71 lb NO _x /hr maximum; 3.11 tons NO _x /yr maximum; 0.735 lb CO/hr maximum; 3.21 tons CO/yr maximum; 0.114 lb OC/hr maximum; 0.50 ton OC/yr maximum.
	40 CFR 60 Subpart Dc OAC rule 3745-18-06(A) OAC rule 3745-17-10(B)(1)	The emission limitations specified by these rules are less stringent than those established above. Emissions shall not exceed: 0.020 lb PM/MMBtu actual heat input, maximum; 0.27 ton PM/yr maximum.
	OAC rule 3745-17-07(A)	20% opacity as a six minute average, except as provided by rule.

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. Valley Converting shall burn only natural gas in this emission unit.
2. Actual Btu input for boiler B011 shall not exceed 20.412 MMBtu/hr at any time.

C. Monitoring and/or Record Keeping Requirements

1. Valley Converting shall maintain a daily log of the quantity of natural gas burned in this emission unit. The log shall include the following:
 - a. Volume of natural gas consumed (cubic feet);
 - b. Total hours of operation;
 - c. Actual Btu content of natural gas;
 - d. Average daily Btu input.

D. Reporting Requirements

1. Valley converting shall submit notification as required by 40 CFR 60.48c of the date of construction, anticipated startup and actual startup as provided by 40 CFR 60.7. This notification shall include the following:
 - a. Design heat input capacity and identification of fuels to be combusted
 - b. A copy of any federally enforceable requirement that limits the annual capacity factor for fuel or any mixture of fuels

- c. The annual capacity factor at which the unit will be fired based on all fuels fired and based on each individual fuel fired
 - d. Notification if an emerging technology will be used for controlling SO₂ emissions
 2. Valley Converting shall submit an annual exceedance report detailing excursions of B.1 and B.2, above. These reports shall include the following information:
 - a. Date of the exceedance;
 - b. Cause of the exceedance;
 - c. Measures taken to prevent additional exceedances.
- E. **Testing Requirements**
 1. Emission Limitation:

SO₂ emissions shall not exceed 0.012 lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the manufacturer supplied emission factor (0.0006 lb SO₂/MMBtu) by the maximum Btu input rate (20.412 MMBtu/hr).
 2. Emission Limitation:

0.053 tons SO₂/yr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly SO₂ emission rate (0.012 lb/hr) by 8760 hours/year and dividing by 2000 lb/ton.
 3. Emission Limitation:

NO_x emissions shall not exceed 0.71 lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the manufacturer supplied emission factor (0.035 lb NO_x/MMBtu) by the maximum Btu input rate (20.412 MMBtu/hr).
 4. Emission Limitation:

NO_x emissions shall not exceed 3.11 tons/yr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly NO_x emission rate (0.71 lb NO_x/hr) by 8760 hr/yr and dividing by 2000 lb/ton.
 5. Emission Limitation:

CO emissions shall not exceed 0.735 lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the manufacturer supplied emission factor (0.036 lb CO/MMBtu) by the maximum Btu input rate (20.412 MMBtu/hr).
 6. Emission Limitation:

CO emissions shall not exceed 3.21 tons/yr.

Applicable Compliance Method:

Annual CO emissions are based on a maximum firing rate of 20.412 MMBtu/hr at 8760 hr/yr based on 0.036 lb CO/MMBtu.
 7. Emission Limitation:

OC emissions shall not exceed 0.114 lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by utilizing the manufacturer supplied emission factor of 2.74 lb OC/day. This factor shall be divided by 24 hr/day.
 8. Emission Limitation:

OC emissions shall not exceed 0.50 ton/yr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly emission rate of 0.114 lb OC/hr by 8760 hours/year and dividing by 2000 lb/ton.

9. Emission Limitation:

Particulate emissions shall not exceed 0.020 pound per MMBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be determined by utilizing the manufacturer supplied emission factor of 0.003 lbs PM/MMBtu.

10. Emission Limitation:

Particulate emissions shall not exceed 0.27 ton/yr.

Applicable Compliance Method:

Compliance shall be determined by utilizing the manufacturer supplied emission factor of 1.47 lb PM/day and dividing by 24 hours/day. This number shall then be multiplied by 8760 hr/yr and divided by 2000 lb/ton.

11. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:

Compliance shall be demonstrated by the method specified in OAC rule 3745-17-03(B)(1).

F. **Miscellaneous Requirements**

1. None