

Part 70 Operating Permit Amendment

Permit Amendment No.: 2273-313-0081-V-02-2 Effective Date: April 5, 2007

Facility Name: **Shaw Industries Group, Inc. – Plant 1 & 3**

Facility Address 501 East Franklin Street
Dalton, Georgia 30720, Whitfield County

Mailing Address: P.O. Drawer 2128, Mail Drop 021-01
Dalton, Georgia 30722

**Parent/Holding
Company:** Shaw Industries Group, Inc.

Facility AIRS Number: 04-13-313-00081

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued an amendment to the Part 70 Operating Permit for:

Replacement of equipment specific PSD Avoidance Limit with a facility-wide PSD Avoidance Limit

This Permit Amendment is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit Amendment and Permit No. 2273-313-0081-V-02-0. Unless modified or revoked, this Permit Amendment expires simultaneously with Part 70 Permit No. 2273-313-0081-V-02-0.

This Permit Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. TV-16824 dated July 10, 2006; any other applications upon which this Permit Amendment or Permit No. 2273-313-0081-V-02-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 6 pages.

Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION

1.3 Description of Modification

This amendment replaces the minor-modification PSD Avoidance limit with a facility-wide PSD Avoidance Limit, including appropriate changes to monitoring, reporting and recordkeeping.

PART 2.0 REQUIREMENTS PERTAINING TO THE ENTIRE FACILITY

2.1 Facility Wide Emission Caps and Operating Limits

NEW CONDITION

- 2.1.1 The Permittee shall not allow SO₂ emissions from the entire facility to exceed 249 tons per any 12 consecutive month period.
[PSD Avoidance]

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PART 3.0 REQUIREMENTS FOR EMISSION UNITS

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

MODIFIED CONDITION

3.1. Emission Units

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
BL01 (Plant 1)	Boiler #1	391-3-1-.02(2)(d)3 391-3-1-.02(2)(d)2(ii) 391-3-1-.02(2)(g)2	2.1.1, 3.4.1, 3.4.4, 3.4.7, 5.2.1, 6.1.7, 6.2.1, 6.2.2, 6.2.3, 6.2.4	None	None
BL02 (Plant 1)	Boiler #2	391-3-1-.02(2)(b)1 391-3-1-.02(2)(d)1(ii) 391-3-1-.02(2)(g)2	2.1.1, 3.4.2, 3.4.5, 3.4.7, 5.2.1, 6.1.7, 6.2.1, 6.2.2, 6.2.3, 6.2.4	None	None
BL03 (Plant 1)	Boiler #3	391-3-1-.02(2)(b)1 391-3-1-.02(2)(d)1(ii) 391-3-1-.02(2)(g)2	2.1.1, 3.4.2, 3.4.5, 3.4.7, 5.2.1, 6.1.7, 6.2.1, 6.2.2, 6.2.3, 6.2.4	None	None
CD01 (Plant 1)	Rotary dye range	391-3-1-.02(2)(b)1 391-3-1-.02(2)(e)1(ii)	3.4.3, 3.4.5, 3.4.6	None	None
LC01 (Plant 1)	Latex coater oven	391-3-1-.02(2)(b)1 391-3-1-.02(2)(e)1(ii)	3.4.3, 3.4.5, 3.4.6	None	None
CD02 (Plant 3)	Printer dye range #2	391-3-1-.02(2)(b)1 391-3-1-.02(2)(e)1(ii)	3.4.3, 3.4.5, 3.4.6	None	None
CD03 (Plant 3)	Printer dye range #1	391-3-1-.02(2)(b)1 391-3-1-.02(2)(e)1(ii)	3.4.3, 3.4.5, 3.4.6	None	None
UC01 (Plant 3)	Urethane coater oven	391-3-1-.02(2)(b)1 391-3-1-.02(2)(e)1(ii)	3.4.3, 3.4.5, 3.4.6	None	None

* Generally applicable requirements contained in this permit may also apply to emission units listed above.

3.2 Equipment Emission Caps and Operating Limits

DELETED CONDITION

3.2.1 Deleted

PART 4.0 REQUIREMENTS FOR TESTING

4.1 General Testing Requirements

MODIFIED CONDITION

4.1.3 Performance and compliance tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division's Procedures for Testing and Monitoring Sources of Air Pollutants. The methods for the determination of compliance with emission limits listed under Sections 3.2, 3.3, 3.4 and 3.5 which pertain to the emission units listed in Section 3.1 are as follows:

- h. Method 19 when applicable, to convert particulate matter, carbon monoxide, sulfur dioxide, and nitrogen oxides concentrations (i.e. grains/dscf for PM, ppm for gaseous pollutants), as determined using other methods specified in this section, to emission rates (i.e. lb/MMBtu),
- j. Method 19, section 12.5.2.2.3, for the sampling and determination of fuel oil sulfur content.

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS

6.1 General Record Keeping and Reporting Requirements

6.1.7 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 6.1.4, the following excess emissions, exceedances, and excursions shall be reported:

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

- b. Exceedances: (means for the purpose of this Condition and Condition 6.1.4, any condition that is detected by monitoring or record keeping that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) do not meet the applicable emission limitation or standard consistent with the averaging period specified for averaging the results of the monitoring)

MODIFIED CONDITION

- ii. Any 12-consecutive month period during which the SO₂ emissions, calculated in accordance with Condition 6.2.4, equal or exceed 249 tons.

- d. In addition to the excess emissions, exceedances and excursions specified above, the following should also be included with the report required in Condition 6.1.4:

DELETED CONDITION

- i. Deleted

MODIFIED CONDITION

- ii. A summary report of facility-wide monthly SO₂ emissions and 12-month rolling total SO₂ emissions for each month of the reporting period. The summary report shall be prepared from records retained in Conditions 6.2.3 and 6.2.4.

6.2 Specific Record Keeping and Reporting Requirements

MODIFIED CONDITION

6.2.1 The Permittee shall maintain monthly records of all distillate fuel oil and all residual fuel oil consumed by boilers BL01, BL02, and BL03.

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

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NEW CONDITION

- 6.2.3 The Permittee shall use the records required by Conditions 6.2.1 and 6.2.2 to calculate and record the SO₂ emissions from boilers BL01, BL02, and BL03, combined, for each month that fuel oil is burned in boilers BL01, BL02, and/or BL03. Sulfur dioxide emissions shall be calculated using the following equation:
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

$$SO_2 = \frac{(Q_D \times 142 \times 0.5) + (Q_R \times 157 \times S_R)}{2000}$$

Where:

- SO₂ = Quantity of SO₂ emissions during the month, tons per month
Q_D = Quantity of distillate oil combusted during the month, 1000's of gallons
142 = Emission factor coefficient for SO₂ emissions from units smaller than 100 MMBTU/hr firing distillate oil; in pounds of SO₂ per 1000 gallons combusted (EPA AP-42, Table 1.3-1)
0.5 = Maximum sulfur content of distillate oil, percent
Q_R = Quantity of residual oil combusted during the month, 1000's of gallons
157 = Emission factor coefficient for SO₂ emissions from units smaller than 100 MMBTU/hr firing residual oil; in pounds of SO₂ per 1000 gallons combusted (EPA AP-42, Table 1.3-1)
S_R = Highest sulfur content of all residual fuel oil shipments received during the month. If no residual fuel oil has been received during the month, the Permittee shall set the value of S_R as the highest sulfur content last used in computing the SO₂ emissions.
2000 = Conversion factor for pounds to tons

NEW CONDITION

- 6.2.4 The Permittee shall use the records required by Condition 6.2.3 to calculate and record the 12-month rolling total SO₂ emissions for each month, from boilers BL01, BL02, and BL03, combined.
[391-3-1-.02(6)(b)1. and 40 CFR 70.6(a)(3)(B)]