

Part 70 Operating Permit Amendment

Permit Amendment No.: 3312-015-0032-V-04-2 **Effective Date:**

Facility Name: **Gerdau Ameristeel**

Facility Address 384 Old Grassdale Road
Cartersville, Georgia 30121, Bartow County

Mailing Address: 384 Old Grassdale Road
Cartersville, Georgia 30121

Parent/Holding Company: Gerdau Ameristeel US, Inc.

Facility AIRS Number: 04-13-015-00032

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:

The steel mill requested an increased molten steel limit on the 4-Strand Caster (Source Code E03) of 1,340,000 tons per year of steel cast in 12 consecutive months.

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. 3312-015-0032-V-04-0. Unless modified or revoked, this Permit Amendment expires simultaneously with Part 70 Permit No. 3312-015-0032-V-04-0.

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-17915 dated January 4, 2008; any other applications upon which this Permit Amendment or Permit No. 3312-015-0032-V-04-0 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 **5** pages.

Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION

1.3 Process Description of Modification

MODIFIED CONDITION

The facility wishes to modify Condition No. 3.2.3 containing the current 12 consecutive month limit of 1,000,000 tons molten steel cast in the 4-Strand Caster (Source Code E03) to a limit of 1,340,000 tons molten steel cast in the 4-Strand Caster (Source Code E03).

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.

3.2 Equipment Emission Caps and Operating Limits

MODIFIED CONDITION

- 3.2.3 The casting of molten steel shall be limited in the 4-Strand Caster (Source Code E03) such that the total amount of molten steel cast does not exceed 1,340,000 tons per 12 consecutive months.

NEW CONDITIONS

- 3.2.4 The DEC system is BACT for CO for the EAF (Source Code E01) and shall remain in operation at all times.
[40 CFR 52.21]

3.3 Equipment Federal Rule Standards

MODIFIED CONDITION

3.3.2 The Permittee shall not discharge or cause the discharge into the atmosphere from this source any gases which:
[40 CFR 52.21 and 40 CFR 60, Subpart AAa]

- c. Exit from Baghouse BH01 or BH02 and contain carbon monoxide (CO) emissions in excess of 1.34 lb/ton for an eight hour average.

[Note: Paragraphs (a),(b) and (d) through (g) are unchanged.]

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS

6.1 General Record Keeping and Reporting Requirements

MODIFIED CONDITION

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, 40 CFR 60.276a(b), 40 CFR 60.276a(c) and 40 CFR 70.6(a)(3)(i)]

- a. Excess emissions: (means for the purpose of this Condition and Condition 6.1.4, any condition that is detected by monitoring or record keeping which is specifically defined, or stated to be, excess emissions by an applicable requirement)
 - i. For the Meltshop (Source Code E01), any 6-minute average opacity, determined in accordance with condition 5.2.1, which is greater than or equal to six percent.
 - ii. For the Reheat Furnace (Source Code E06), any nitrogen oxides emission rates, determined in accordance with Condition 5.2.5 in excess of 0.100 pounds per million Btu heat input.
 - iii. For baghouses BH01 and BH02, any carbon monoxide emission rate, determined in accordance with Condition 5.2.6, in excess of 1.34 lb/ton for an eight hour average.
 - iv. For the Electric Arc Furnace (Source Code E01), any nitrogen oxides emission rate, determined in accordance with Condition 5.2.5, in excess of 0.15 pounds per ton of steel produced.
- 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)
 - i. Any month during which the 12 month cumulative quantity of steel cast in the 4-Strand Caster (Source Code E03) exceeds 1,340,000 tons.
 - ii. Any month during which the 12 month cumulative gas consumption in the Reheat Furnace (Source Code E06) exceeds 1,142 MMScf.
 - iii. For any baghouse (APCD ID No. BH01, BH02, BH03, or BH04), any 6-minute average opacity, determined in accordance with condition 5.2.3, which is greater than or equal to three percent.

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- c. Excursions: (means for the purpose of this Condition and Condition 6.1.4, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)
 - i. For the EAF (Source Code E01), during operation, any control system fan motor amperes, determined in accordance with Condition 5.2.2 that are not within the plus or minus 15% of the amperage value established under 60.274a(c). The baghouse fan motor amperage values re-established by the July 1999 performance tests are as follows: 145-213 amps for Baghouse 1 (BH01 or K1A motor), 140-213 amps for Baghouse 2 (BH02 or K1B motor), 230-345 amps for Baghouse 3 (BH03 motor) and 204-305 amps for Baghouse 4 (BH04 motor), with the exception of temporary motor replacement at which the appropriate value range for motor size is selected.