

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF FINAL PERMIT

In the Matter of an
Application for Air Permit by:

Gerdau Ameristeel
16770 Rebar Road
Baldwin, FL 32234

Air Permit No. 0310157-005-AC
Ameristeel – Jacksonville Steel Mill
2003 Electric Arc Furnace Project
Duval County, Florida

Authorized Representative:

Mr. Donald R. Shumake, V.P. and General Manager

Enclosed is the Final Air Construction Permit 0310157-005-AC to replace and rearrange the natural gas, oxygen, and carbon injection systems on the electric arc furnace with functionally equivalent equipment at the above facility. The facility is located 16770 Rebar Road in Baldwin, Duval County, Florida. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

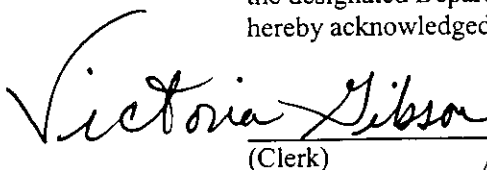
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT was sent by certified mail* and copies were mailed by U.S. Mail before the close of business on 11/25/03 to the person(s) listed:

Mr. Donald R. Shumake, Ameristeel*
Mr. James P. Wold, Ameristeel
Mr. Luis A. Nieves, Ameristeel
Mr. Ken Kosky, Golder Associates Inc.
Mr. Chris Kirts, NED Office
Mr. James Manning, RESD
Mr. James Little, EPA Region 4 Office

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

 November 25, 2003
(Clerk) (Date)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

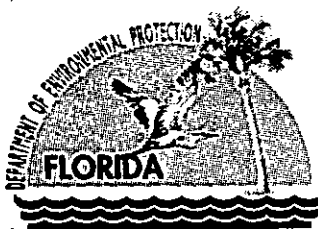
Draft Air Permit No. 0310157-005-AC

Gerdau Ameristeel
Jacksonville Steel Plant
2003 Electric Arc Furnace Project

An Intent to Issue an Air Construction Permit to Gerdau Ameristeel was distributed on October 21, 2003. The permit is to replace and rearrange the natural gas, oxygen, and carbon injection systems on the electric arc furnace with functionally equivalent equipment. The new equipment will be installed at the existing Jacksonville Steel Mill, which is located 16770 Rebar Road in Baldwin, Duval County, Florida.

The Public Notice of Intent to Issue Air Construction Permit was published in the Florida-Times Union on November 5, 2003. Copies of the draft construction permit and related documents were available for public inspection at the Department's offices in Tallahassee and Jacksonville.

No comments were received as a result of the public notice. The final action of the Department will be to issue this permit as noted.



Jeb Bush
Governor

Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

PERMITTEE:

Gerdau Ameristeel
16770 Rebar Road
Baldwin, FL 32234

Authorized Representative:

Mr. Donald R. Shumake, V.P. and General Manager

Ameristeel – Jacksonville Steel Mill
Air Permit No. 0310157-005-AC
Facility ID No. 0310157
SIC No. 3312
Permit Expires: November 1, 2004

PROJECT AND LOCATION

Ameristeel operates an existing steel mill located at 16770 Rebar Road in Baldwin, Duval County, Florida. The plant manufactures rebar and rod steel from steel scrap. The UTM coordinates are Zone 17, 405.9 km East, and 3350.2 km North. This permit authorizes the replacement and rearrangement of natural gas, oxygen, and carbon injection systems on the electric arc furnace (Emissions Unit 001).

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to perform the proposed work in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department. The conditions of this permit supplement all previously issued air construction and operation permits for this emissions unit. Unless otherwise specified, these conditions are in addition to all other applicable permit conditions and regulatory requirements.

CONTENTS

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Emissions Units Specific Conditions
- Section 4. Appendices

Michael G. Cooke

Michael G. Cooke, Director
Division of Air Resources Management

11/21/03

Effective Date

SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

The existing steel mill includes the following existing emission units (EUs).

EU ID	Emission Unit Description
001	Electric Arc Furnace (EAF)
002	Billet Reheat Furnace
003	Slag Processing Operation
004	Melt Shop Building

This permit authorizes the replacement and rearrangement of natural gas, oxygen, and carbon injection systems on the existing electric arc furnace (Emissions Unit 001) with functionally equivalent equipment.

REGULATORY CLASSIFICATION

Title III: The existing facility is identified as a potential major source of hazardous air pollutants (HAP).

Title IV: The existing facility has no units subject to the acid rain provisions of the Clean Air Act.

Title V: The existing facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

PSD: The existing facility is a PSD-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The existing facility operates units subject to the New Source Performance Standards of 40 CFR 60.

RELEVANT DOCUMENTS

The permit application and additional information received to make it complete are not a part of this permit; however, the information is specifically related to this permitting action and is on file with the Department.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: All documents related to applications for permits regarding PSD preconstruction review shall be submitted to the Bureau of Air Regulation of the Florida Department of Environmental Protection (DEP) at 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. All documents related to applications for permits regarding minor source construction or operation shall be submitted to the Air & Water Quality Division (AWQD) of the Duval County Regulatory & Environmental Services Department (RESO), 117 W. Duval Street, Ste. 225, Jacksonville, Florida 32202. Copies shall also be sent to the Air Resources Section of Department's Northeast District Office at 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida 32256-7590.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Air & Water Quality Division (AWQD) of the Duval County Regulatory & Environmental Services Department (RESO), 117 W. Duval Street, Ste. 225, Jacksonville, Florida 32202. Copies of all such documents shall also be sent to the Air Resources Section of Department's Northeast District Office at 7825 Baymeadows Way, Suite 200B, Jacksonville, Florida 32256-7590.
3. Citation Format: Appendix A identifies the formats used in the permit for citing applicable requirements.
4. General Conditions: Appendix B specifies the general conditions applicable to all permits.
5. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403 of the Florida Statutes (F.S.); Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.); and Title 40, Part 60 of the Code of Federal Regulations (CFR), adopted by reference in Rule 62-204.800, F.A.C. The terms used in this permit have specific meanings as defined in the applicable chapters of the Florida Administrative Code. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
6. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
7. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
8. Title V Permit Revision: Pursuant to Rule 62-213.420(1)(a)2, F.A.C., the permittee shall submit an application for a revised Title V air operation permit at least ninety (90) days before the expiration of this permit, but no later than 180 days after commencing operation. In accordance with Rule 62-213.412(2), F.A.C., the permittee may immediately implement the changes authorized by this air construction permit after submitting the application for a revised Title V air operation permit to the appropriate Permitting Authority and providing copies of the application to EPA Region 4 and each Compliance Authority. To apply for a revised Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the law may require. [Rules 62-4.030, 62-4.050, 62-4.220, 62-213.412, and 62-213.420, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU-001 – Electric Arc Furnace

This section of the permit addresses the following existing emissions unit.

Emissions Unit No. 001

Description: The Electric Arc Furnace (EAF) is used to melt and reduce steel scrap, which is poured into a caster. (Secondary Metal Production: SIC Nos. 3-04-007-01, 3-04-007-99, and 3-04-999-99)

Fuel: Natural gas is used as the in-process fuel. (SCC No. 3-90-006-99)

Capacity: The steel production capacity of the electric arc furnace is 720,000 billet tons per year.

Controls: Particulate emissions controlled by Baghouses 1 and 2.

Monitors: The stack has a continuous opacity monitoring system (COMS).

{Permitting Note: This unit remains subject to the requirements of previous air construction Permit No. PSD-FL-261 (Project No. 0310157-004-AC) and current Title V air operation Permit No. 0310157-002-AV.}

PREVIOUS APPLICABLE REQUIREMENTS

1. **Other Permits:** The conditions of this permit supplement all previously issued air construction and operation permits for this emissions unit. Unless otherwise specified, these conditions are in addition to all other applicable permit conditions and regulatory requirements. The permittee shall continue to comply with the conditions of these permits, which include restrictions and standards regarding capacities, production, operation, fuels, emissions, monitoring, record keeping, reporting, etc. [Rule 62-4.070, F.A.C.]

AUTHORIZED WORK

2. **Replacement:** The existing electric arc furnace includes four natural gas burners, two oxygen lances, and carbon injection. Four natural gas burners are mounted in the sidewall. Oxygen and carbon are manually injected through the slag door. The permittee is authorized to replace the existing injectors for natural gas, oxygen, and carbon with three sets of functionally equivalent, sidewall-mounted injectors with automatic sampling. The permittee shall not make any changes to the caster without obtaining a written applicability determination from the Bureau of Air Regulation regarding PSD preconstruction review. *{Permitting Note: The new systems will allow the formation of a more homogeneous foamy slag on top of the molten metal, which will reduce energy losses. The elimination of manual injection through the slag door will allow the slag door to remain shut. This will reduce safety concerns, energy costs, and NOx emissions. The removal of manual sampling also reduces safety concerns. The Department determined that this project did not trigger PSD preconstruction review. Maximum production is currently restricted by the existing caster.}* [Applicant Request; Design]

TESTING REQUIREMENTS

3. **Testing:** After completing the proposed work, the electric arc furnace shall be tested to demonstrate initial compliance with the emissions standards specified in the current Title V air operation permit. The initial tests shall be conducted within 60 days after achieving the maximum production rate, but not later than 180 days after initial operation of the unit. Testing shall be performed at a minimum production rate of 90 billet tons per hour. Tests shall be conducted in accordance with the following methods and procedures specified in the Title V air operation permit. [Rule 62-297.310(7)(a)1, F.A.C.; 40 CFR 60.8]

NOTIFICATIONS AND REPORTS

4. **Commencement of Construction:** Within 10 days of occurrence, the permittee shall provide written notification of commencing construction to the Bureau of Air Regulation and the Compliance Authorities.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU-001 – Electric Arc Furnace

The notification shall include a proposed schedule of the work to be performed, which shall be updated as necessary. [Rule 62-4.070, F.A.C.]

5. Completion of Construction: Within 10 days of occurrence, the permittee shall provide written notification of completion of construction to the Bureau of Air Regulation and the Compliance Authorities. This notification shall briefly summarize the project as constructed and include a schedule for conducting emissions tests require by the current Title V air operation permit. [Rule 62-4.070, F.A.C.]
6. Test Notification: The permittee shall notify the Compliance Authority in writing at least thirty (30) days prior to any tests required by the New Source Performance Standards and at least fifteen (15) days prior to any other required tests. [Rule 62-297.310(7)(a)9, F.A.C.]
7. Test Reports: The permittee shall file a report with the Compliance Authority summarizing the results of each required test. The test report shall be filed as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Compliance Authority to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the information identified in Rule 62-297.310(8), F.A.C. A copy of the test report shall also be submitted to the Department's Bureau of Air Regulation. [Rule 62-297.310(8), F.A.C.]

SECTION 4. APPENDICES

CONTENTS

Appendix A. Citation Formats

Appendix B. General Conditions

SECTION 4. APPENDIX A

CITATION FORMATS

The following examples illustrate the format used in the permit to identify applicable permitting actions and regulations.

REFERENCES TO PREVIOUS PERMITTING ACTIONS

Old Permit Numbers

Example: Permit No. AC50-123456 or Air Permit No. AO50-123456

Where: "AC" identifies the permit as an Air Construction Permit
"AO" identifies the permit as an Air Operation Permit
"123456" identifies the specific permit project number

New Permit Numbers

Example: Permit Nos. 099-2222-001-AC, 099-2222-001-AF, 099-2222-001-AO, or 099-2222-001-AV

Where: "099" represents the specific county ID number in which the project is located
"2222" represents the specific facility ID number
"001" identifies the specific permit project
"AC" identifies the permit as an air construction permit
"AF" identifies the permit as a minor federally enforceable state operation permit
"AO" identifies the permit as a minor source air operation permit
"AV" identifies the permit as a Title V Major Source Air Operation Permit

PSD Permit Numbers

Example: Permit No. PSD-FL-317

Where: "PSD" means issued pursuant to the Prevention of Significant Deterioration of Air Quality
"FL" means that the permit was issued by the State of Florida
"317" identifies the specific permit project

RULE CITATION FORMATS

Florida Administrative Code (F.A.C.)

Example: [Rule 62-213.205, F.A.C.]

Means: Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

Code of Federal Regulations (CFR)

Example: [40 CFR 60.7]

Means: Title 40, Part 60, Section 7

SECTION 4. APPENDIX B
GENERAL CONDITIONS

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
 - a. Have access to and copy and records that must be kept under the conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of non-compliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida

SECTION 4. APPENDIX B
GENERAL CONDITIONS

Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
 - a. Determination of Best Available Control Technology (Not Applicable);
 - b. Determination of Prevention of Significant Deterioration (Not Applicable); and
 - c. Compliance with New Source Performance Standards (Not Applicable).
14. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - 1) The date, exact place, and time of sampling or measurements;
 - 2) The person responsible for performing the sampling or measurements;
 - 3) The dates analyses were performed;
 - 4) The person responsible for performing the analyses;
 - 5) The analytical techniques or methods used; and
 - 6) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 		A. Received by (Please Print Clearly) Harry Ervin	
1. Article Addressed to: Mr. Donald R. Shumake Vice President and General Manager Gerdau Ameristeel 16770 Rebar Road Baldwin, FL 32234		B. Date of Delivery C. Signature X [Signature] <div style="float: right;"> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee </div>	
		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
		3. Service type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Copy from service label) 7000 2870 0000 7028 3543			
PS Form 3811, July 1999		Domestic Return Receipt	
		102595-99-M-1789	


U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)											
<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">7000 2870 0000 7028 3543</div> <div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <table border="1" style="width: 100%;"> <tr> <td>Postage</td> <td>\$</td> </tr> <tr> <td>Certified Fee</td> <td></td> </tr> <tr> <td>Return Receipt Fee (Endorsement Required)</td> <td></td> </tr> <tr> <td>Restricted Delivery Fee (Endorsement Required)</td> <td></td> </tr> <tr> <td>Total Postage & Fees</td> <td>\$</td> </tr> </table> </div> <div style="text-align: center;"> Postmark Here </div> </div>		Postage	\$	Certified Fee		Return Receipt Fee (Endorsement Required)		Restricted Delivery Fee (Endorsement Required)		Total Postage & Fees	\$
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Restricted Delivery Fee (Endorsement Required)											
Total Postage & Fees	\$										
<div style="border: 1px solid black; padding: 5px;"> Sent To Donald R. Shumake <hr/> Street, Apt. No.; or PO Box No. 16770 Rebar Road <hr/> City, State, ZIP+4 Baldwin, FL 32234 </div>											
PS Form 3800, May 2000 <div style="float: right;">See Reverse for Instructions</div>											

Florida Department of Environmental Protection

Memorandum

TO: Michael G. Cooke, Director
Division of Air Resource Management

THROUGH: Trina L. Vielhauer, Chief
Bureau of Air Regulation

FROM: Al Linero, Manager 
New Source Review Section

DATE: November 20, 2003

SUBJECT: Draft Air Permit No. 0310157-005-AC
Gerdau Ameristeel – Jacksonville Steel Mill
2003 Electric Arc Furnace Project

Attached for your review and signature is the Final Permit Package for the permit for this facility. The permit authorizes the functionally equivalent replacement and rearrangement of natural gas, oxygen, and carbon injection systems on the electric arc furnace (Emissions Unit 001).

We recommend your approval of the attached Permit package.

Attachments