Golder Associates Inc.

6241 NW 23rd Street, Suite 500
Gainesville, FL USA 32653
Telephone (352) 336-5600
Fax (352) 336-6603
www.golder.com

Golder Associates

March 25, 2005

0437536

Florida Department of Environmental Protection
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Attention: Ms. Trina L. Vielhauer, Chief, Bureau of Air Regulations

RE: GERDAU AMERISTEEL – RELOCATION OF THE PROPOSED NEW BAGHOUSE FOR THE JACKSONVILLE STEEL MILL PREVENTION OF SIGNIFICANT DETERIORATION ANALYSIS – PROJECT NO.: 0310157-007-AC/PSD-FL-349

Dear Ms. Vielhauer:

This correspondence provides revised air quality analyses pertaining to revisions to the proposed new facility layout of the Jacksonville Steel Mill. The final facility layout for the proposed modifications includes the relocation of the new baghouse, Baghouse No. 5, and shutdown of the existing Baghouse 3-4. In addition, the two 12-foot-diameter Baghouse No. 5 stacks have been combined into one 19-foot stack located at the south side of the baghouse. The Baghouse No. 5 stack height has been increased from 110 to 115 feet. No emission rates or process rates have changed as result of this modification. As a result, no modifications to the Best Available Control Technology (BACT) analysis are required.

The existing Baghouse 3-4, which was initially contemplated to be used for the new project, will be shut down upon startup of the new EAF and associated facilities. Emissions will be routed to the new baghouse. A revised facility plot plan, Figure 2-5, is included in this submittal.

Revised air quality analyses were conducted to determine if the proposed modification would cause or contribute to a violation of any national or Florida Ambient Air Quality Standards (AAQS) or allowable PSD increment. Modeling was performed to predict air quality impacts within 50 km of the project site to compare the project's impacts to the PSD Class II and I significant impact levels and to address compliance with AAQS and PSD Class II and I increments. Modeling was not performed to address air quality impacts at the PSD Class I area located beyond 50 km from the project since impacts at these distances were predicted using the long range transport model, CALPUFF, which assumed one location for project sources. The relocation of the baghouse will have no affect on the project's predicted impacts at the PSD Class I area since the location change is minimal. Also, the increase in stack height by 5 feet is expected to have limited effect on concentrations predicted by CALPUFF, if any, since the project's impacts are expected to be lower than those predicted with the lower stack height. Therefore, CALPUFF modeling was not revised for this proposed change.

The revisions to the layout and shutdown of Baghouse 3-4 have resulted in project impacts less than the PSD Class II significant impact levels for PM_{10} and CO. Although the impacts of NO_x and SO_2 are slightly less than the original submittal, impacts were still predicted to be above the PSD Class II significant impact levels. The proposed projects PM_{10}, SO_2, and NO_2 impacts were predicted to be below the applicable PSD Class I significant impact levels at the area of Okefenokee NWA within 50 km from the project, whereas the previous facility arrangement resulted in SO_2 impacts above the PSD Class I significant impact levels.

It was demonstrated that the relocation of the baghouse would not result in ambient concentrations above the AAQS or the PSD Class II and I increments. As a result the proposed revisions to the facility layout will not cause the project to contribute to any adverse impacts on air quality.

Included in this submittal are the following revised PSD Application Tables:

- Table 2-6. Stack and Operating Parameters for the Proposed Sources at the Gerdau Ameristeel Jacksonville Steel Mill;
- Table 6-6. Maximum PM_{10}, SO_2, NO_2, and CO Concentrations Predicted for the Project Compared to the EPA PSD Class II Significant Impact Levels;
- Table 6-7. Maximum Predicted SO_2, NO_2, and PM_{10} Impacts for Comparison to AAQS – Screening Analysis;
- Table 6-8. Maximum Predicted SO_2, NO_2 and PM_{10} Impacts for Comparison to AAQS – Refined Analysis;
- Table 6-9 Maximum Predicted SO_2, NO_2, and PM_{10} Impacts for Comparison to the PSD Class II Increments - Screening Analysis;
- Table 6-10. Maximum Predicted SO_2, NO_2, and PM_{10} Impacts for Comparison to the PSD Class II Increments - Refined Analysis;
- Table 6-11. Maximum Pollutant Concentrations Predicted for the Project at the Okefenokee PSD Class I Area for Locations within 50 Kilometers of the Project Site;
- Table F-1. Maximum Predicted Lead Impacts for Comparison to AAQS; and
- Table F-2. Maximum Predicted Lead Impacts for the Project at the PSD Class I Area of Okefenokee NWA for Locations within 50 km of the Project Site.
- Gerdau Ameristeel Modeling Parameters with 1,000,000 ACFM Baghouse

Also included are revised building downwash input and output files and ISCST3 model summary files. The revised modeling files will be sent to Cleve Holiday under separate cover.

Gerdau Ameristeel wishes to resolve all of the Department's questions as expeditiously as possible so that Gerdau Ameristeel may move forward with the proposed project in a timely manner. Please call me or Kennard Kosky at (352) 336-5600 if you need any additional information.

Sincerely,

GOLDER ASSOCIATES INC.

Kennard F. Kosky, P.E.
Principal

David T. Larocca
Project Engineer

DTL/nav

Enclosures

cc: Donald R. Shumake, Vice President/General Manager
James P. Wold, Environmental Specialist, Gerdau
D. Mitchell

Y:\Projects\2004\0437536 Gerdau-Ameristeel PSD\4\4.1\032405\L032405-536.doc

C. Holladay
C. Kirts, NED
B. Worley, EPA
G. Bennett, NPS

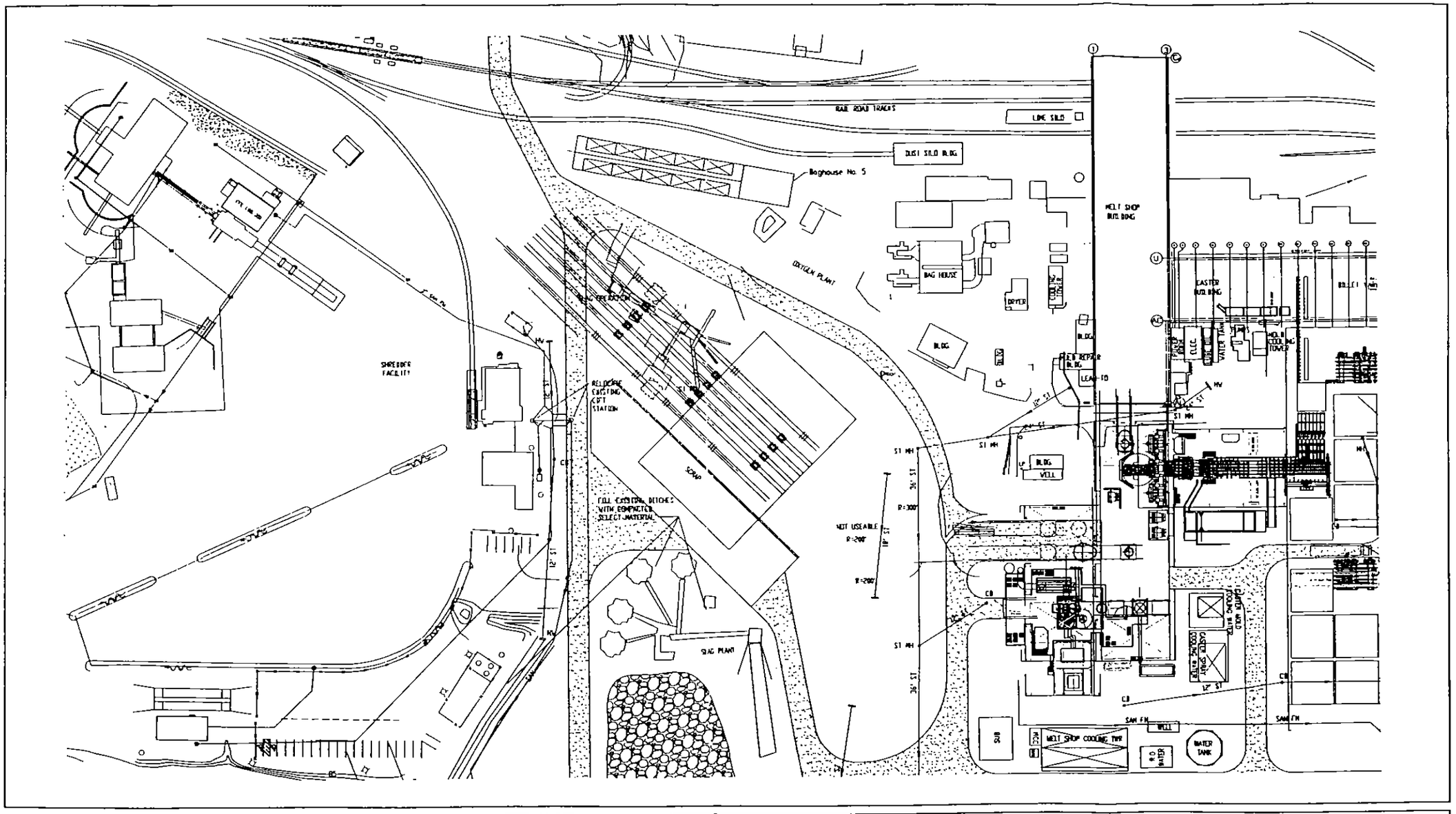


Figure 2-5
Detailed Configuration of the Proposed Gerdau Ameristeel Jacksonville Steel Mill

Source: Golder, 2004.

Golder Associates

Table 2-6. Stack and Operating Parameters for the Proposed Sources at the Gerdau Ameristeel Jacksonville Steel Mill

	Stack Parameters				Operating Parameters				
	Height		Diameter		Flowrate	Velocity		Temperature	
	(ft)	(m)	(ft)	(m)	(acfm)	(ft/min)	(m/s)	(°F)	(K)
New Baghouse Stack	115	35.1	19.0	5.79	750,000 [a]	2,645	13.4	230	383.2
Reheat Furnace[b]	160	48.8	6.9	2.10	43,620	1,167	5.93	900	755.4
New Reheat Furnace[b]	66.0	20.1	5.8	1.77	71,336	2,700	13.7	480	522.0

[a] Based on minimum flow rate of 750,000 acfm, maximum flow rate is 1,000,000 acfm.

[b] The two potential reheat furnace stack parameters are listed, only one of the two will be constructed as part of the Project. For Modeling purposes, the new reheat furnace was utilized for the worst-case modeling scenario because of a lower stack height and temperature.

Source: Golder, 2004.

Table 6-6. Maximum PM_{10}, SO_2, NO_2, and CO Concentrations Predicted for the Project Compared to the EPA PSD Class II Significant Impact Levels

Pollutant	Averaging Period	Maximum Predicted Concentration [a] ($\mu g/m^3$)	Significant Impact Level ($\mu g/m^3$)
PM_{10}	Annual	0.4	1
	24-Hour	3.7	5
SO_2	Annual	0.23	1
	24-Hour	13	5
	3-Hour	31	25
NO_2 [b]	Annual	2.8	1
CO	8-Hour	279	500
	1-Hour	780	2,000

[a] Based on 5-year surface and upper air meteorological data for 1984 to 1988 from the National Weather Service Stations in Jacksonville and Waycross, respectively.

[b] The Class II NO_x modeling analysis included NO_2 emissions from the project equivalent to 75 percent of the total NO_x emissions.This factor of 75 percent applied to account for the portion of NO_x emissioı that is considered to be emitted as NO_2.

Table 6-7. Maximum Predicted SO_2 and NO_2 Impacts for Comparison to AAQS - Screening Analysis

Pollutant, Averaging Time, and Rank	Concentration ($\mu g/m^3$) [a]			Receptor Location		Time Period (YYMMDDHH)	AAQS ($\mu g/m^3$)
	Total	Modeled Sources	Background	x (m)	y (m)		
SO_2							
24-Hour, HSH	87.9	45.9	42	1,879.9	-785.1	84092224	260
	94.6	52.6	42	1,075.1	347.9	85082324	
	78.3	36.3	42	1,707.6	-319.2	86091524	
	82.7	40.7	42	1,879.9	-785.1	87092724	
	92.0	50.0	42	1,879.9	-785.1	88122724	
3-Hour, HSH	332	175	157	1,604.2	-39.6	84102706	1,300
	323	166	157	1,673.1	-226.0	85043006	
	301	144	157	1,621.4	-86.2	86061003	
	334	177	157	1,742.0	-412.4	87112318	
	332	175	157	1,879.9	-785.1	88122721	
NO_2							
Annual, Highest	31.2	4.2	27	-171.4	-106.2	84123124	100
	31.2	4.2	27	-156.4	-59.5	85123124	
	30.6	3.6	27	-171.4	-106.2	86123124	
	31.6	4.6	27	-171.4	-106.2	87123124	
	31.2	4.2	27	-156.4	-59.5	88123124	

Note: YYMMDDHH = Year, Month, Day, Hour Ending
HSH = Highest, Second-Highest

[a] Based on 5-year surface and upper air meteorological data for 1984 to 1988 from the National Weather Service Stations in Jacksonville and Waycross, respectively.

Table 6-8. Maximum Predicted SO_2 and NO_2 Impacts for Comparison to AAQS - Refined Analysis

Pollutant, Averaging Time, and Rank	Concentration ($\mu g/m^3$) [a]			Receptor Location		Time Period (YYMMDDHH)	AAQS ($\mu g/m^3$)
	Total	Modeled Sources	Background	x (m)	y (m)		
SO_2							
24-Hour, HSH	94.6	52.6	42	1,075.1	347.9	85082324	260
3-Hour, HSH	334	177	157	1,621.4	-86.2	86061003	1,300
NO_2							
Annual, Highest	31.6	4.6	27	-171.4	-106.2	86123124	100

Note: YYMMDDHH = Year, Month, Day, Hour Ending
HSH = Highest, Second-Highest

[a] Based on 5-year surface and upper air meteorological data for 1984 to 1988 from the National Weather Service Stations in Jacksonville and Waycross, respectively.

Table 6-9. Maximum Predicted SO_2 and NO_2 Impacts for Comparison to the PSD Class II Increments Screening Analysis

Pollutant, Averaging Time, and Rank	Concentration ($\mu g/m^3$) [a] Modeled Sources	Receptor Location x (m)	Receptor Location y (m)	Time Period (YYMMDDHH)	PSD Class II Increment ($\mu g/m^3$)
SO_2					
24-Hour, HSH	12.1	1,811	-599	84080424	91
	10.7	-156	-60	85071924	
	16.5	-156	-60	86031824	
	12.3	-217	-246	87071724	
	10.9	-156	-60	88032524	
3-Hour, HSH	43.9	-500	300	84061315	512
	42.7	-217	-246	85071915	
	39.5	-141	-13	86031224	
	56.4	-232	-293	87110712	
	47.3	-217	-246	88112915	
NO_2					
Annual, Highest	3.5	-171.4	-106.2	84123124	25
	3.5	-156.4	-59.5	85123124	
	3.1	-171.4	-106.2	86123124	
	4.0	-171.4	-106.2	87123124	
	3.6	-156.4	-59.5	88123124	

Note: YYMMDDHH = Year, Month, Day, Hour Ending
HSH = Highest, Second-Highest

[a] Based on 5-year surface and upper air meteorological data for 1984 to 1988 from the National Weather Service Stations in Jacksonville and Waycross, respectively.

Table 6-10. Maximum Predicted SO_2 and NO_2 Impacts for Comparison to the PSD Class II Increments
Refined Analysis

Pollutant, Averaging Time, and Rank	Concentration ($\mu g/m^3$) [a] Modeled Sources	Receptor Location x (m)	Receptor Location y (m)	Time Period (YYMMDDHH)	PSD Class II Increment ($\mu g/m^3$)
SO_2					
24-Hour, HSH	16.5	-156 4	-59.5	85082324	91
3-Hour, HSH	56.4	-141.3	-12.9	86061003	512
NO_2					
Annual, Highest	4.0	-171.4	-106.2	86123124	25

Note: YYMMDDHH = Year, Month, Day, Hour Ending
HSH = Highest, Second-Highest

[a] Based on 5-year surface and upper air meteorological data for 1984 to 1988 from the National Weather Service Stations in Jacksonville and Waycross, respectively

Table 6-11. Maximum Pollutant Concentrations Predicted for the Project at the Okefenokee PSD Class I Area for Locations that are within 50 Kilometers of the Project Site.

Pollutant	Averaging Period	Maximum Predicted Concentration [a] ($\mu g/m^3$)	Significant Impact Level ($\mu g/m^3$)
PM10	Annual	0.0	0.2
	24-Hour	0.012	0.3
SO_2	Annual	0.0	0.1
	24-Hour	0.0031	0.2
	3-Hour	0.0186	1.0
NO_x	Annual	0.0020	0.1
CO	8-Hour	0.15	NA
	1-Hour	0.73	NA

[a] Based on 5-year surface and upper air meteorological data for 1984 to 1988 from the National Weather Service Stations in Jacksonville and Waycross, respectively.

Table F-1. Maximum Predicted Lead Impacts for Comparison to AAQS

Pollutant, Averaging Time, and Rank	Concentration ($\mu g/m^3$) [a]			Receptor Location		Time Period (YYMMDDHH)	AAQS[d] ($\mu g/m^3$)
	Total[b]	Modeled Sources	Background[c]	x (m)	y (m)		
Lead							
Monthly, Highest	0.048	0.0281	0.02	-276.9	-432.5	84093024	1.5
	0.041	0.0211	0.02	-246.7	-339.3	85033124	
	0.048	0.0276	0.02	-156.4	-59.5	86033124	
	0.043	0.0228	0.02	-261.8	-385.9	87033124	
	0.046	0.0264	0.02	-201.6	-199.4	88063024	

Note: YYMMDDHH = Year, Month, Day, Hour Ending

[a] Based on 5-year surface and upper air meteorological data for 1984 to 1988 from the National Weather Service Stations in Jacksonville and Waycross, respectively.

[b] As a conservative approach to estimate total air quality impacts, the highest monthly average concentration predicted for the project is added to the background concentration and compared to AAQS.

[c] Background concentration is highest quarterly concentration measured in Duval County from 2001 to 2002 (Site ID 12-031-0032).

[d] Lead AAQS is based on calendar quarter arithmetic mean.

Table F-2. Maximum Predicted Lead Impacts for the Project at the PSD Class I Area of the Okefenokee NWA for Locations within 50 Kilometers of the Project Site.

Pollutant, Averaging Time, and Rank	Concentration ($\mu g/m^3$) [a] Modeled Sources	UTM Receptor Location East (m)	UTM Receptor Location North (m)	Time Period (YYMMDDHH)
Lead				
Monthly, Highest	0.00000	372,548	3,383,534	84073124
	0.00001	390,147	3,385,188	85083124
	0.00000	369,351	3,383,573	86053124
	0.00000	369,351	3,383,573	87093024
	0.00000	390,147	3,385,188	88073124

Note: YYMMDDHH = Year, Month, Day, Hour Ending

[a] Based on 5-year surface and upper air meteorological data for 1984 to 1988 from the National Weather Service Stations in Jacksonville and Waycross, respectively.

Gerdau Ameristeel Modeling Parameters with 1,000,000 ACFM Baghouse

Existing Sources

		TPY	hours	lb/hr	Short term g/s	Annual g/s	temp F	K	Stack Dimensions H(m)	Dia(ft)	Dia(m)	Area(ft2)	flow rate ACFM	Velocity fpm	m/s
Stack 1-2	CO	292.94	7637	76 72	9.67	8.43	230	383.15	35.05	10	3.048	78 54	305540	3890 3	19.76
	$NO_x(NO_2)$	41 49	7637	10 87	1.37	1.19	230	383.15	35.05	10	3.048	78 54	305540	3890 3	19.76
	VOC	32 18	7637	8 43	1.06	0.93	230	383.15	35.05	10	3.048	78.54	305540	3890 3	19.76
	SO2	38 70	7637	10.13	1.28	1.11	230	383.15	35.05	10	3.048	78.54	305540	3890 3	19.76
	PM/PM-10	9 10	7637	2.38	0.300	0.26	230	383.15	35.05	10	3.048	78.54	305540	3890.3	19.76
Stack 3-4	CO	32 55	7637	8 52	1.07	0.94	230	383.15	35.05	10	3.048	78 54	320000	4074 4	20.70
	$NO_x(NO_2)$	4 61	7637	1 21	0.15	0.13	230	383.15	35.05	10	3.048	78 54	320000	4074 4	20.70
	VOC	3.58	7637	0 94	0.12	0.10	230	383.15	35.05	10	3.048	78 54	320000	4074 4	20.70
	SO2	4.30	7637	1 13	0.142	0.12	230	383.15	35.05	10	3.048	78.54	320000	4074 4	20.70
	PM/PM-10	9 98	7637	2 61	0.329	0.29	230	383.15	35.05	10	3.048	78 54	320000	4074.4	20.70

Assume that 90% of gaseous pollutants, and PM based on flowrate (acfm).

		TPY	hours	lb/hr	Short term g/s	Annual g/s	temp F	K	Stack Dimensions H(m)	Dia(ft)	Dia(m)	Area(ft2)	flow rate ACFM	Velocity fpm	m/s
Reheat	CO	0.066018	8072	0.02	2.06E-03	1.90E-03	900	755.4	48.77	6 9	2.103	37.39	43620	1166.5	5.93
	$NO_x(NO_2)$	65.01821	8072	16 11	2.03E+00	1.87E+00	900	755.4	48.77	6 9	2.103	37 39	43620	1166 5	5.93
	VOC	2.006	8072	0 50	6.26E-02	5.77E-02	900	755.4	48.77	6 9	2.103	37 39	43620	1166 5	5.93
	SO2	0 217144	8072	0 05	6.78E-03	6.25E-03	900	755.4	48.77	6 9	2.103	37 39	43620	1166 5	5.93
	PM-10	5 948934	8072	1.47	1.86E-01	1.71E-01	900	755.4	48.77	6 9	2.103	37 39	43620	1166 5	5.93

PM assumed to be all PM-10

Expected Future Emissions

New Sources		TPY	hours	lb/hr	Short term g/s	Annual g/s	temp F	K	Stack Dimensions H(m)	H(ft)	Dia(ft)	Dia(m)	Maximum flow rate ACFM	Minimum flow rate ACFM	Baghouse Stack Dia(m)	Baghouse Stack* ft/min	Baghouse Stack* m/s
Baghouse Stack 1	CO	1200 00	8520	320.00	40.32	34.52	230	383.15	35.052	115	19	5.7912	1000000	750,000	5.7912	2645 23	13.44
	$NO_x(NO_2)$	198 00	8520	52.80	6.65	5.70	230	383.15	35.052	115	19	5.7912	1000000	750,000	5.7912	2645.23	13.44
	VOC	78.00	8520	20 80	2.62	2.24	230	383.15	35.052	115	19	5.7912	1000000	750,000	5.7912	2645.23	13.44
	SO2	120 00	8520	32 00	4.03	3.45	230	383.15	35.052	115	19	5.7912	1000000	750,000	5.7912	2645 23	13.44
	PM/PM-10**	65 73	8520	15 43	1.94	1.89	230	383.15	35.052	115	19	5.7912	1000000	750,000	5.7912	3526 98	17.92

* Based on minumum baghouse flow rate

**Based on maximum baghouse flow rate

		TPY	hours	lb/hr	Short term g/s	Annual g/s	temp F	K	Stack Dimensions H(m)	Dia(ft)	Dia(m)	Area(ft2)	flow rate ACFM	Velocity fpm*	m/s
Reheat	CO	33.0225	8500	7.77	0.98	0.95	480	522	20.12	5 8	1.770	26	71336 1444	2700 0	13.72
	NO_x	75 48	8500	17.76	2.24	2.17	480	522	20.12	5.8	1.770	26	71336 1444	2700 0	13.72
	VOC	4 7175	8500	1 11	0.14	0.14	480	522	20.12	5 8	1.770	26	71336.1444	2700.0	13.72
	SO2	0 5661	8500	0 13	0.02	0.02	480	522	20.12	5 8	1.770	26	71336.1444	2700.0	13.72
	PM-10	7 07625	8500	1 67	0.21	0.20	480	522	20.12	5 8	1.770	26	71336 1444	2700 0	13.72

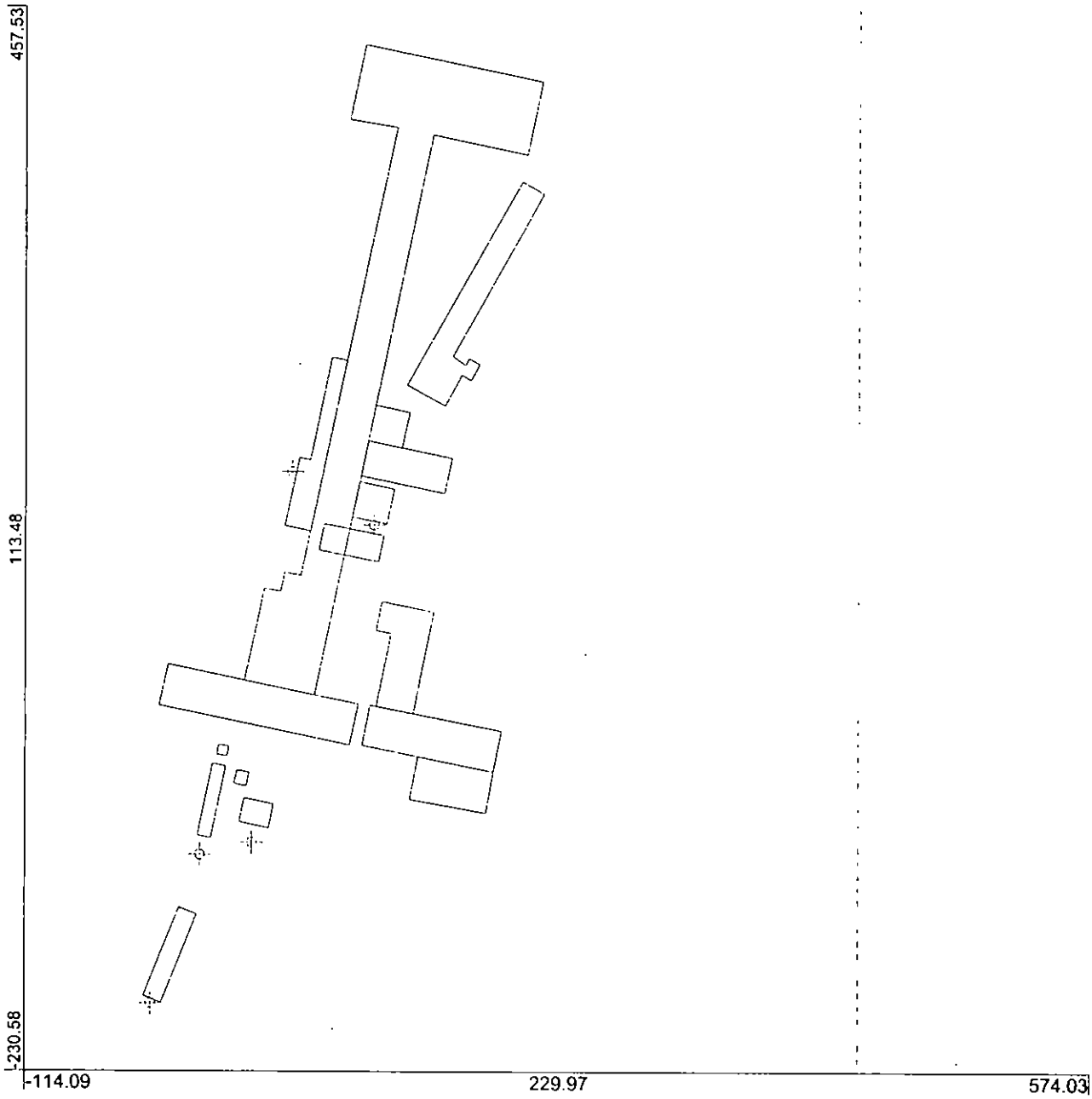
*Based on an estimated flow rate of 47 8 ft/sec

BPIP FILES

PROPOSED LAYOUT

PROJECT TITLE:

F:\PROJECTS\GERDAU-AMERISTEEL\BPIP\GA1.bpv



COMMENTS	BUILDINGS **16**	COMPANY NAME	
	SOURCES **5**	MODELER:	SCALE 0 — 0.1 km
		DATE: **3/24/2005**	PROJECT NO.:

```
'F:\PROJECTS\GERDAU-AMERISTEEL\BPIP\GA1.bpv'
'ST'
'Meters'  1.00000000
'UTMN'  0.0000
16
'BLDG2'  1          0.000
    4          13.410
               27.422          -54.237
               46.126          -58.151
               42.874          -73.695
               24.169          -69.780
'SPARK'  1          0.000
    4          13.410
               11.015          -19.571
               17.436          -20.915
               16.116          -27.218
                9.695          -25.875
'SPARK2'  1          0.000
    4          13.410
               22.581          -36.019
               30.411          -37.658
               28.576          -46.428
               20.745          -44.789
'BLDG5'  1          0.000
    4          13.410
                6.965          -31.893
               15.500          -33.679
                5.789          -80.084
               -2.747          -78.298
'MELT'  1          0.000
    4          33.530
              -21.855           32.700
              100.651            7.063
               95.049          -19.707
              -27.458            5.930
'WIRE'  1          0.000
    10         15.240
              131.656          214.092
              205.317          345.704
              219.421          337.869
              161.029          232.597
              168.958          226.790
              171.464          231.149
              178.100          227.319
              172.648          216.986
              166.824          220.647
              156.058          200.689
'BLDG10'  1          0.000
    4          15.240
              107.127          178.072
              160.638          166.874
              155.917          144.312
              102.406          155.511
'ROLLING'  1          0.000
    13         15.240
              104.913          433.604
              218.473          409.839
```

```
                208.661          362.954
                148.230          375.601
                127.943          278.661
                 72.324           12.889
                 27.514           22.266
                 40.163           82.707
                 50.636           80.515
                 53.246           92.985
                 63.631           90.812
                125.366          380.386
                 94.874          385.633
'REHEAT'  1            0.000
    6            10.670
                 69.752          119.670
                 53.435          123.084
                 62.684          167.277
                 69.614          165.827
                 83.438          231.886
                 93.295          229.823
'BLDG12'  1            0.000
    4            10.670
                111.844          200.951
                133.397          196.441
                128.596          173.498
                107.043          178.008
'BLDG13'  1            0.000
    4            10.670
                101.297          151.728
                123.546          147.072
                118.791          124.354
                 96.543          129.010
'BAGNEW'  1            0.000
    4            30.480
                -14.707         -124.872
                 -3.389         -129.404
                -26.049         -185.996
                -37.367         -181.464
'NMEAST'  1            0.000
    4            33.530
                108.300            6.200
                103.100          -20.000
                187.200          -37.200
                192.600          -10.600
'NMSOUTH'  1           0.000
    4            33.530
                139.000          -27.300
                133.600          -55.000
                182.500          -63.720
                187.200          -37.200
'NCAST'  1           0.000
    6            15.240
                115.800           73.900
                112.100           55.300
                121.600           53.400
                112.000            5.500
                135.900            0.700
                149.000           67.000
```

```
'NREHEAT'  1          0.000
    4          15.240
               78.640          124.400
               75.200          107.400
              113.600           99.700
              117.000          116.700
5
'REHEAT'          0.000          48.768          57.962         158.140
'BHST1'           0.000          30.480         -32.820        -186.515
'BG12'            0.000          35.050          -1.103         -90.850
'BG34'            0.000          35.050          32.063         -82.783
'NRHT'            0.000          18.900         110.700         123.600
```

BPIP (Dated: 95086)

DATE : 3/14/ 5
TIME : 14:26:11
F:\PROJECTS\GERDAU-AMERISTEEL\BPIP\GA1.bpv

==========
BPIP PROCESSING INFORMATION:
==========

The ST flag has been set for processing for an ISCST2 run.

Inputs entered in Meters will be converted to meters using a conversion factor of 1.0000. Output will be in meters.

UTMP is set to UTMN. The input is assumed to be in a local X-Y coordinate system as opposed to a UTM coordinate system. True North is in the positive Y direction.

Plant north is set to 0.00 degrees with respect to True North.

F:\PROJECTS\GERDAU-AMERISTEEL\BPIP\GA1.bpv

PRELIMINARY* GEP STACK HEIGHT RESULTS TABLE
(Output Units: meters)

Stack Name	Stack Height	Stack-Building Base Elevation Differences	GEP** EQN1	Preliminary* GEP Stack Height Value
REHEAT	48.77	0.00	83.82	83.82
BHST1	30.48	0.00	76.20	76.20
BG12	35.05	0.00	83.82	83.82
BG34	35.05	0.00	83.82	83.82
NRHT	18.90	0.00	83.82	83.82

* Results are based on Determinants 1 & 2 on pages 1 & 2 of the GEP Technical Support Document. Determinant 3 may be investigated for additional stack height credit. Final values result after Determinant 3 has been taken into consideration.

** Results were derived from Equation 1 on page 6 of GEP Technical Support Document. Values have been adjusted for any stack-building base elevation differences.

Note: Criteria for determining stack heights for modeling emission limitations for a source can be found in Table 3.1 of the GEP Technical Support Document.

```
 TIME : 14:26:11

 F:\PROJECTS\GERDAU-AMERISTEEL\BPIP\GA1.bpv

  BPIP output is in meters

     SO BUILDHGT REHEAT      33.53    33.53    33.53    15.24    15.24    15.24
     SO BUILDHGT REHEAT      15.24    15.24    15.24    15.24    15.24    15.24
     SO BUILDHGT REHEAT      15.24    33.53    15.24    15.24    15.24    15.24
     SO BUILDHGT REHEAT      15.24    15.24    15.24    15.24    15.24    15.24
     SO BUILDHGT REHEAT      15.24    15.24    15.24    15.24    15.24    15.24
     SO BUILDHGT REHEAT      15.24    33.53    33.53    33.53    33.53    33.53
     SO BUILDWID REHEAT     125.97   127.78   127.45   245.47   301.34   348.06
     SO BUILDWID REHEAT     384.20   408.66   420.72   419.98   429.51   431.13
     SO BUILDWID REHEAT     419.64   157.95   359.16   312.00   255.36   190.96
     SO BUILDWID REHEAT     120.76   121.65   182.13   245.47   301.34    53.63
     SO BUILDWID REHEAT      48.41    41.72    33.76    24.77   429.51    28.95
     SO BUILDWID REHEAT      33.99    74.60    82.21    87.32    89.77   128.11


     SO BUILDHGT BHST1       30.48    30.48    30.48    30.48    30.48    30.48
     SO BUILDHGT BHST1       30.48    30.48    30.48    30.48    30.48    30.48
     SO BUILDHGT BHST1       30.48    30.48    30.48    30.48    30.48    30.48
     SO BUILDHGT BHST1       30.48    30.48    30.48    30.48    30.48    30.48
     SO BUILDHGT BHST1       30.48    30.48    30.48    30.48    30.48    30.48
     SO BUILDHGT BHST1       30.48    30.48    30.48    30.48    30.48    30.48
     SO BUILDWID BHST1       24.42    14.12    20.74    30.60    39.53    47.26
     SO BUILDWID BHST1       53.56    58.23    61.12    62.16    61.32    62.07
     SO BUILDWID BHST1       61.72    59.49    55.46    49.73    42.50    33.98
     SO BUILDWID BHST1       24.42    14.12    20.74    30.60    39.53    47.26
     SO BUILDWID BHST1       53.56    58.23    61.12    62.16    61.32    62.07
     SO BUILDWID BHST1       61.72    59.49    55.46    49.73    42.50    33.98


     SO BUILDHGT BG12        33.53    30.48    30.48    33.53    33.53    33.53
     SO BUILDHGT BG12        33.53    33.53     0.00     0.00     0.00     0.00
     SO BUILDHGT BG12         0.00     0.00    13.41    33.53    33.53    33.53
     SO BUILDHGT BG12        33.53    33.53    33.53    33.53    33.53    33.53
     SO BUILDHGT BG12        33.53    33.53     0.00     0.00     0.00     0.00
     SO BUILDHGT BG12         0.00     0.00    13.41    33.53    33.53    33.53
     SO BUILDWID BG12       219.59    14.12    20.74   123.24   115.29   103.84
     SO BUILDWID BG12       137.19   130.44     0.00     0.00     0.00     0.00
     SO BUILDWID BG12         0.00     0.00    38.11   120.77   126.36   128.11
     SO BUILDWID BG12       125.97   127.78   127.45   123.24    83.96    53.29
     SO BUILDWID BG12        49.10    43.42     0.00     0.00     0.00     0.00
     SO BUILDWID BG12         0.00     0.00    38.11   120.77   126.36   220.06


     SO BUILDHGT BG34        33.53    33.53    33.53    33.53    33.53    33.53
     SO BUILDHGT BG34        33.53    33.53    13.41    13.41    13.41    13.41
     SO BUILDHGT BG34        13.41    33.53    33.53    33.53    33.53    33.53
     SO BUILDHGT BG34        33.53    33.53    33.53    33.53    33.53    33.53
     SO BUILDHGT BG34        33.53    33.53    13.41    13.41    13.41    13.41
     SO BUILDHGT BG34        13.41    33.53    33.53    33.53    33.53    33.53
     SO BUILDWID BG34       219.59   127.78   127.45   123.24   115.29   165.06
```

SO	BUILDWID	BG34	137.19	130.44	48.19	47.66	48.17	47.76
SO	BUILDWID	BG34	23.02	98.87	111.51	120.77	126.36	128.11
SO	BUILDWID	BG34	125.97	127.78	127.45	88.34	83.96	53.29
SO	BUILDWID	BG34	49.10	43.42	48.19	47.66	48.17	47.76
SO	BUILDWID	BG34	23.02	98.87	111.51	120.77	126.36	128.11
SO	BUILDHGT	NRHT	33.53	33.53	33.53	33.53	33.53	33.53
SO	BUILDHGT	NRHT	15.24	15.24	15.24	15.24	15.24	15.24
SO	BUILDHGT	NRHT	15.24	15.24	33.53	33.53	33.53	15.24
SO	BUILDHGT	NRHT	15.24	15.24	15.24	33.53	33.53	33.53
SO	BUILDHGT	NRHT	15.24	15.24	15.24	15.24	15.24	15.24
SO	BUILDHGT	NRHT	15.24	15.24	33.53	33.53	33.53	33.53
SO	BUILDWID	NRHT	125.97	127.78	127.45	123.24	115.29	103.84
SO	BUILDWID	NRHT	35.17	30.40	24.70	18.25	23.04	28.95
SO	BUILDWID	NRHT	33.99	38.00	182.31	201.13	213.84	41.80
SO	BUILDWID	NRHT	39.55	41.30	42.63	205.08	187.92	103.84
SO	BUILDWID	NRHT	35.17	30.40	24.70	18.25	23.04	28.95
SO	BUILDWID	NRHT	33.99	38.00	55.32	56.46	55.88	89.50

ISC SUMMARY FILES

SIGNIFICANT IMPACTS

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 :NOXSIG.o84
ISCST3 OUTPUT FILE NUMBER 2 :NOXSIG.o85
ISCST3 OUTPUT FILE NUMBER 3 :NOXSIG.o86
ISCST3 OUTPUT FILE NUMBER 4 :NOXSIG.o87
ISCST3 OUTPUT FILE NUMBER 5 :NOXSIG.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL NOX SIG ANALYSIS
3/16/04
Second title for last output file is: JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1984	2.32629	-171.4	-106.2	84123124
	1985	2.31920	-156.4	-59.5	85123124
	1986	2.07301	-171.4	-106.2	86123124
	1987	2.80024	-171.4	-106.2	87123124
	1988	2.39877	-156.4	-59.5	88123124

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 : COSIG.o84
ISCST3 OUTPUT FILE NUMBER 2 : COSIG.o85
ISCST3 OUTPUT FILE NUMBER 3 : COSIG.o86
ISCST3 OUTPUT FILE NUMBER 4 : COSIG.o87
ISCST3 OUTPUT FILE NUMBER 5 : COSIG.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL CO SIG ANALYSIS 3/16/04
Second title for last output file is: JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
HIGH 8-Hour					
	1984	164.71712	-156.4	-59.5	84032416
	1985	279.21530	-156.4	-59.5	85112124
	1986	231.81490	-156.4	-59.5	86030924
	1987	188.53073	-216.6	-246.0	87032316
	1988	193.00529	-171.4	-106.2	88081216
HIGH 1-Hour					
	1984	632.89642	-171.4	-106.2	84052216
	1985	605.07123	-141.3	-12.9	85112124
	1986	585.84216	-201.6	-199.4	86080214
	1987	780.02332	-300.0	-300.0	87071806
	1988	657.28351	-156.4	-59.5	88052416

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 :SO2SIG.o84
ISCST3 OUTPUT FILE NUMBER 2 :SO2SIG.o85
ISCST3 OUTPUT FILE NUMBER 3 :SO2SIG.o86
ISCST3 OUTPUT FILE NUMBER 4 :SO2SIG.o87
ISCST3 OUTPUT FILE NUMBER 5 :SO2SIG.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL SO2 SIG ANALYSIS 3/16/04
Second title for last output file is: JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1984	0.21851	-156.4	-59.5	84123124
	1985	0.15530	-156.4	-59.5	85123124
	1986	0.17734	-156.4	-59.5	86123124
	1987	0.22946	-156.4	-59.5	87123124
	1988	0.22472	-156.4	-59.5	88123124
HIGH 24-Hour					
	1984	4.87209	-216.6	-246.0	84102424
	1985	11.31903	-156.4	-59.5	85112124
	1986	12.73236	-156.4	-59.5	86030924
	1987	7.50050	-171.4	-106.2	87032424
	1988	6.20908	-216.6	-246.0	88070724
HIGH 3-Hour					
	1984	26.54504	-201.6	-199.4	84102515
	1985	31.47023	-231.7	-292.6	85091412
	1986	27.36786	-156.4	-59.5	86030918
	1987	27.81909	-231.7	-292.6	87101012
	1988	23.81076	-246.7	-339.3	88101315

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 : PMSIG.o84
ISCST3 OUTPUT FILE NUMBER 2 : PMSIG.o85
ISCST3 OUTPUT FILE NUMBER 3 : PMSIG.o86
ISCST3 OUTPUT FILE NUMBER 4 : PMSIG.o87
ISCST3 OUTPUT FILE NUMBER 5 : PMSIG.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL PM10 SIG ANALYSIS 3/16/04
Second title for last output file is: JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1984	0.29464	-171.4	-106.2	84123124
	1985	0.29930	-156.4	-59.5	85123124
	1986	0.26281	-156.4	-59.5	86123124
	1987	0.35431	-171.4	-106.2	87123124
	1988	0.30209	-156.4	-59.5	88123124
HIGH 24-Hour					
	1984	3.40925	-20.9	360.1	84080224
	1985	3.69044	-156.4	-59.5	85112124
	1986	3.45396	-5.8	406.7	86120924
	1987	3.09660	-171.4	-106.2	87052224
	1988	3.17535	-20.9	360.1	88040324

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISC SUMMARY FILES

AAQS IMPACTS

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 :NOXaq.o84
ISCST3 OUTPUT FILE NUMBER 2 :NOXaq.o85
ISCST3 OUTPUT FILE NUMBER 3 :NOXaq.o86
ISCST3 OUTPUT FILE NUMBER 4 :NOXaq.o87
ISCST3 OUTPUT FILE NUMBER 5 :NOXaq.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL NOX SIG ANALYSIS 3/16/04
Second title for last output file is: JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1984	4.18852	-171.4	-106.2	84123124
	1985	4.20930	-156.4	-59.5	85123124
	1986	3.63885	-171.4	-106.2	86123124
	1987	4.62531	-171.4	-106.2	87123124
	1988	4.24945	-156.4	-59.5	88123124

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 :SO2aq.o84
ISCST3 OUTPUT FILE NUMBER 2 :SO2aq.o85
ISCST3 OUTPUT FILE NUMBER 3 :SO2aq.o86
ISCST3 OUTPUT FILE NUMBER 4 :SO2aq.o87
ISCST3 OUTPUT FILE NUMBER 5 :SO2aq.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL SO2 SIG ANALYSIS 3/16/04
Second title for last output file is: JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1984	6.14872	1759.3	-458.9	84123124
	1985	6.23139	1879.9	-785.1	85123124
	1986	5.38345	1793.7	-552.1	86123124
	1987	6.15410	1879.9	-785.1	87123124
	1988	6.14570	-156.4	-59.5	88123124
HIGH 24-Hour					
	1984	61.07787	1879.9	-785.1	84121624
	1985	54.01020	1604.2	-39.6	85082324
	1986	56.17794	1879.9	-785.1	86051024
	1987	45.61972	1879.9	-785.1	87060624
	1988	58.38363	1828.2	-645.3	88083124
HSH 24-Hour					
	1984	45.87337	1879.9	-785.1	84092224
	1985	52.58749	1075.1	347.9	85082324
	1986	36.34015	1707.6	-319.2	86091524
	1987	40.69543	1879.9	-785.1	87092724
	1988	50.03485	1879.9	-785.1	88122724
HIGH 3-Hour					
	1984	235.35139	1828.2	-645.3	84121621
	1985	175.09804	1604.2	-39.6	85062121
	1986	182.71783	1707.6	-319.2	86091521
	1987	201.73541	1879.9	-785.1	87092721
	1988	199.14307	1879.9	-785.1	88091224
HSH 3-Hour					
	1984	175.04736	1604.2	-39.6	84102706
	1985	166.38875	1673.1	-226.0	85043006
	1986	144.00121	1621.4	-86.2	86061003
	1987	177.48042	1742.0	-412.4	87112318
	1988	174.51050	1879.9	-785.1	88122721

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 :leadaq.o84
ISCST3 OUTPUT FILE NUMBER 2 :leadaq.o85
ISCST3 OUTPUT FILE NUMBER 3 :leadaq.o86
ISCST3 OUTPUT FILE NUMBER 4 :leadaq.o87
ISCST3 OUTPUT FILE NUMBER 5 :leadaq.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL NOX SIG ANALYSIS 3/16/04
Second title for last output file is: JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
HIGH -Hour					
	1984	0.02811	-276.9	-432.5	84093024
	1985	0.02110	-246.7	-339.3	85033124
	1986	0.02763	-156.4	-59.5	86033124
	1987	0.02279	-261.8	-385.9	87033124
	1988	0.02636	-201.6	-199.4	88063024

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISC SUMMARY FILES

PSD CLASS II INCREMENTS

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 :NOXpsd.o84
ISCST3 OUTPUT FILE NUMBER 2 :NOXpsd.o85
ISCST3 OUTPUT FILE NUMBER 3 :NOXpsd.o86
ISCST3 OUTPUT FILE NUMBER 4 :NOXpsd.o87
ISCST3 OUTPUT FILE NUMBER 5 :NOXpsd.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL NOX SIG ANALYSIS 3/16/04
Second title for last output file is: JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1984	3.53958	-171.4	-106.2	84123124
	1985	3.54088	-156.4	-59.5	85123124
	1986	3.08107	-171.4	-106.2	86123124
	1987	3.99611	-171.4	-106.2	87123124
	1988	3.55174	-156.4	-59.5	88123124

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 :so2psd.o84
ISCST3 OUTPUT FILE NUMBER 2 :so2psd.o85
ISCST3 OUTPUT FILE NUMBER 3 :so2psd.o86
ISCST3 OUTPUT FILE NUMBER 4 :so2psd.o87
ISCST3 OUTPUT FILE NUMBER 5 :so2psd.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL SO2 SIG ANALYSIS 3/16/04
Second title for last output file is: JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1984	0.43696	-156.4	-59.5	84123124
	1985	0.25740	-156.4	-59.5	85123124
	1986	0.28870	-156.4	-59.5	86123124
	1987	0.65038	-156.4	-59.5	87123124
	1988	0.20999	-156.4	-59.5	88123124
HIGH 24-Hour					
	1984	16.32346	-126.3	33.7	84080224
	1985	16.03805	-156.4	-59.5	85112124
	1986	21.37018	-141.3	-12.9	86031824
	1987	17.25347	-156.4	-59.5	87031824
	1988	12.69087	-300.0	-300.0	88083124
HSH 24-Hour					
	1984	12.13310	1810.9	-598.7	84080424
	1985	10.70914	-156.4	-59.5	85071924
	1986	16.53226	-156.4	-59.5	86031824
	1987	12.28776	-216.6	-246.0	87071724
	1988	10.92730	-156.4	-59.5	88032524
HIGH 3-Hour					
	1984	52.73536	-1000.0	-1000.0	84021315
	1985	72.56816	-1000.0	1000.0	85083106
	1986	52.59867	-216.6	-246.0	86083115
	1987	61.53509	-300.0	-300.0	87110712
	1988	59.69212	-216.6	-246.0	88083118
HSH 3-Hour					
	1984	43.93153	-500.0	300.0	84061315
	1985	42.65212	-216.6	-246.0	85071915
	1986	39.48068	-141.3	-12.9	86031224
	1987	56.40681	-231.7	-292.6	87110712
	1988	47.25751	-216.6	-246.0	88112915

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISC SUMMARY FILES

SIGNIFICANT IMPACTS
CLASS I AREA WITHIN 50 KM

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 :SO2SIGc1.o84
ISCST3 OUTPUT FILE NUMBER 2 :SO2SIGc1.o85
ISCST3 OUTPUT FILE NUMBER 3 :SO2SIGc1.o86
ISCST3 OUTPUT FILE NUMBER 4 :SO2SIGc1.o87
ISCST3 OUTPUT FILE NUMBER 5 :SO2SIGc1.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL SO2 CLASS I SIG ANALYSIS 3/16/04
Second title for last output file is: AT OKEFENOKEE AND WOLF IS. NWAS, JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1984	0.00000	0.	0.	84123124
	1985	0.00000	0.	0.	85123124
	1986	0.00000	0.	0.	86123124
	1987	0.00000	0.	0.	87123124
	1988	0.00000	0.	0.	88123124
HIGH 24-Hour					
	1984	0.00310	375808.0	3389039.0	84070624
	1985	0.00248	390147.0	3385188.0	85030524
	1986	0.00223	390147.0	3385188.0	86061024
	1987	0.00307	388645.0	3394440.0	87091024
	1988	0.00213	382238.0	3392661.0	88072524
HIGH 3-Hour					
	1984	0.01863	390147.0	3385188.0	84082403
	1985	0.01568	390147.0	3385188.0	85030503
	1986	0.01340	390147.0	3385188.0	86061003
	1987	0.01341	390147.0	3385188.0	87091006
	1988	0.01331	390147.0	3385188.0	88121603

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 : PMSIGc1.o84
ISCST3 OUTPUT FILE NUMBER 2 : PMSIGc1.o85
ISCST3 OUTPUT FILE NUMBER 3 : PMSIGc1.o86
ISCST3 OUTPUT FILE NUMBER 4 : PMSIGc1.o87
ISCST3 OUTPUT FILE NUMBER 5 : PMSIGc1.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL PM10 CLASS I SIG ANALYSIS 3/16/04
Second title for last output file is: AT OKEFENOKEE AND WOLF IS. NWAS, JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1984	0.00000	0.	0.	84123124
	1985	0.00000	0.	0.	85123124
	1986	0.00000	0.	0.	86123124
	1987	0.00000	0.	0.	87123124
	1988	0.00000	0.	0.	88123124
HIGH 24-Hour					
	1984	0.01233	388530.0	3383358.0	84072924
	1985	0.00553	390147.0	3385188.0	85010424
	1986	0.00102	390147.0	3385188.0	86061024
	1987	0.00515	383755.0	3385255.0	87032624
	1988	0.00100	382238.0	3392661.0	88072524

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 :NOXSIGc1.o84
ISCST3 OUTPUT FILE NUMBER 2 :NOXSIGc1.o85
ISCST3 OUTPUT FILE NUMBER 3 :NOXSIGc1.o86
ISCST3 OUTPUT FILE NUMBER 4 :NOXSIGc1.o87
ISCST3 OUTPUT FILE NUMBER 5 :NOXSIGc1.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL NOX CLASS I SIG ANALYSIS 3/16/04
Second title for last output file is: AT OKEFENOKEE AND WOLF IS. NWAS, JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
Annual					
	1984	0.00196	386913.0	3381527.0	84123124
	1985	0.00086	386932.0	3383374.0	85123124
	1986	0.00178	388549.0	3385205.0	86123124
	1987	0.00120	386932.0	3383374.0	87123124
	1988	0.00113	386913.0	3381527.0	88123124

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 : COSIGc1.o84
ISCST3 OUTPUT FILE NUMBER 2 : COSIGc1.o85
ISCST3 OUTPUT FILE NUMBER 3 : COSIGc1.o86
ISCST3 OUTPUT FILE NUMBER 4 : COSIGc1.o87
ISCST3 OUTPUT FILE NUMBER 5 : COSIGc1.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL PM10 CLASS I SIG ANALYSIS 3/16/04
Second title for last output file is: AT OKEFENOKEE AND WOLF IS. NWAS, JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
HIGH 8-Hour					
	1984	0.15443	386932.0	3383374.0	84072916
	1985	0.07970	390242.0	3394424.0	85072908
	1986	0.06687	390147.0	3385188.0	86061008
	1987	0.09556	386971.0	3387068.0	87091008
	1988	0.06820	390147.0	3385188.0	88080108
HIGH 1-Hour					
	1984	0.55784	390147.0	3385188.0	84082401
	1985	0.61944	390147.0	3385188.0	85010401
	1986	0.47319	382137.0	3383425.0	86081309
	1987	0.73317	386913.0	3381527.0	87032610
	1988	0.40552	390147.0	3385188.0	88080107

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

ISCBOB3R RELEASE 00285

ISCST3 OUTPUT FILE NUMBER 1 :leadcl.o84
ISCST3 OUTPUT FILE NUMBER 2 :leadcl.o85
ISCST3 OUTPUT FILE NUMBER 3 :leadcl.o86
ISCST3 OUTPUT FILE NUMBER 4 :leadcl.o87
ISCST3 OUTPUT FILE NUMBER 5 :leadcl.o88
First title for last output file is: 1984 GERDAU-AMERISTEEL Lead CLASS I SIG
ANALYSIS 3/16/04
Second title for last output file is: AT OKEFENOKEE AND WOLF IS. NWAS,
JAX/WAYCROSS MET 1984-1989

AVERAGING TIME	YEAR	CONC (ug/m3)	X (m)	Y (m)	PERIOD ENDING (YYMMDDHH)
SOURCE GROUP ID: ALL					
HIGH -Hour					
	1984	0.00000	372548.0	3383534.0	84073124
	1985	0.00001	390147.0	3385188.0	85083124
	1986	0.00000	369351.0	3383573.0	86053124
	1987	0.00000	369351.0	3383573.0	87093024
	1988	0.00000	390147.0	3385188.0	88073124

All receptor computations reported with respect to a user-specified origin

GRID	0.00	0.00
DISCRETE	0.00	0.00

EXP

Pieces: 1/1

From: DEP AIR RESOURCE MGMT
P. Adams
111 S MAGNOLIA DR
TALLAHASSEE, FL 32301
UNITED STATES

ORIGIN: TLH

Sender's ref: 37550201000 A7 AP255

To: National Park Service
Mr. John Bunyak
12795 W. Alameda Parkway
Air Division
Lakewood, CO 80228
UNITED STATES

Tel: 303-966-2818

POSTCODE: 80228

Description: book

Weight: 1 lbs for 1 pcs
Date: 2005-03-29

DHL standard terms and conditions apply.

EGEH 8E

(2L)US80228

WAYBILL: 25608938950

(Non-Negotiable)

▲ PEEL HERE

PEEL HERE ▲

Please fold or cut in half

DO NOT PHOTOCOPY

Using a photocopy could delay the delivery of your package and will result in additional shipping charge

SENDER'S RECEIPT

Waybill #: 25608938950

To(Company):
National Park Service
Air Division
12795 W. Alameda Parkway

Lakewood, CO 80228
UNITED STATES

Attention To: Mr. John Bunyak
Phone#: 303-966-2818

Sent By: P. Adams
Phone#: 850-921-9505

Rate Estimate: 12.51
Protection: Not Required
Description: book

Weight (lbs.): 1
Dimensions: 0 x 0 x 0

Ship Ref: 37550201000 A7 AP255
Service Level: Next Day 12:00 (Next business day by 12 PM)

Special Svc:

Date Printed: 3/29/2005
Bill Shipment To: Sender
Bill To Acct: 778941286

DHL Signature (optional) _____ Route _____ Date _____ Time _____

For Tracking, please go to www.dhl-usa.com or call 1-800-225-5345

Thank you for shipping with DHL

Create New Shipment View Pending Shipments

DHL EXPRESS

Fax

To: Bruce Mitchell

Fax Number: 850-922-6979

Company: FDEP

Date:

From: DAVID LAROCCA

E-mail: @golder.com

Project No:

Voice Mail:

RE: Gerdau Ameristeel

Total Pages (including cover): 2 Hard copy to follow ☐

MESSAGE

See attached letter.

Golder Associates
6241 NW 23rd St., Suite 500
Gainesville, FL 32653
U.S.A.
Telephone: (352) 336-5600
Fax: (352) 336-6603

Comprehensive Consulting Services in Geotechnical Engineering, Environmental Remediation and Waste Management

Environmental Remediation
Waste Management
Air Resources
Water Resources
Landfill Siting & Design
Geophysics
Civil Engineering & Construction
Mining & Quarrying
Oil and Gas Waste Management
Soil and Rock Mechanics
Nuclear Waste Management
Risk Assessment
Energy Projects
Transportation

Offices in Australia, Canada, Finland, Germany, Hong Kong, Hungary, Indonesia, Italy, South America, Sweden, United Kingdom, United States

Golder Associates Inc.

6241 NW 23rd Street, Suite 500
Gainesville, FL USA 32653
Telephone (352) 336-5600
Fax (352) 336-6603
www.golder.com

March 15, 2005

0437536

Florida Department of Environmental Protection
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Attention: Ms. Trina L. Vielhauer, Chief, Bureau of Air Regulations

RE: GERDAU AMERISTEEL – RELOCATION OF THE PROPOSED NEW BAGHOUSE FOR THE JACKSONVILLE STEEL MILL PREVENTION OF SIGNIFICANT DETERIORATION ANALYSIS – PROJECT NO.: 0310157-007-AC/PSD-FL-349

Dear Ms. Vielhauer:

This correspondence provides notice that Gerdau Ameristeel intends to update its plans for the proposed new facility layout at the Jacksonville Steel Mill. These updates include an enhancement to the final facility layout including the relocation of the new baghouse, Bahouse No. 5. The existing Baghouse 3-4, which was initially contemplated to be used for the new project, will be shut down upon startup of the new EAF and associated facilities. Emissions will be routed to the new baghouse.

These changes should result in minor changes to the air impact analyses. Gerdau Ameristeel will submit revised air quality analyses to determine if the proposed modification would cause or contribute to a violation of any national or Florida Ambient Air Quality Standards (AAQS) or allowable PSD increment. No emission rates or process rates have changed as result of this modification. As a result, no modifications to the Best Available Control Technology (BACT) analysis are required.

Please call Kennard Kosky at (352) 336-5600 if you need any additional information.

Sincerely,

GOLDER ASSOCIATES INC.

Kennard F. Kosky, P.E.
Principal

David T. Larocca
Project Engineer

RECEIVED
MAR 16 2005
BUREAU OF AIR REGULATION

DTL/nav

cc: Donald R. Shumake, Vice President/General Manager
James P. Wold, Environmental Specialist, Gerdau
Bruce Mitchell, DARM

Y:\Projects\2004\0437536 Gerdau-Ameristeel PSD 4\4 JM\031505-536.doc