GERDAU

Wednesday, January 10, 2024

Technical Secretary
Tennessee Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243

Dear Technical Secretary;

Enclosed are smoke readings recorded from observations of Baghouse 1(BH1), Baghouse 2(BH2), and the canopy here at Gerdau Ameristeel, Jackson Tennessee Steel Mill. They include all readings taken from July 1, 2023 through December 31, 2023 on both baghouses and the canopy.

Also enclosed are copies of each certified visible emission re-certification card for your records.

If you have any questions or comments please call me at 731-423-5274.

Sincerely,

Will Ownby
Environmental Manager
Gerdau Ameristeel U.S. Inc.
Jackson Tennessee Steel Mill

This content is Internal.

SINGLETON SMOKE SCHOOL
OF NASHVILLE, TN

THIS CERTIFICATE IS TO ACKNOWLEDGE THAT

Riley Coleman

SUCCESSFULLY PARTICIPATED IN VISIBLE EMISSIONS TRAINING ON THE DATE BELOW, AND IS QUALIFIED TO EVALUATE VISIBLE EMISSIONS FOR A PERIOD OF 6 MONTHS FROM THE DATE OF CERTIFICATION.

11/20/23	Hendersonville, TN	5/20/24	Bradley Singleton
DATE	LOCATION	EXPIRATION	INSTRUCTOR

SERVICES@SINGLETONSMOKE.COM | 615-572-2075

SINGLETON SMOKE SCHOOL
OF NASHVILLE, TN

THIS CERTIFICATE IS TO ACKNOWLEDGE THAT

Brian King

SUCCESSFULLY PARTICIPATED IN VISIBLE EMISSIONS TRAINING ON THE DATE BELOW, AND IS QUALIFIED TO EVALUATE VISIBLE EMISSIONS FOR A PERIOD OF 6 MONTHS FROM THE DATE OF CERTIFICATION.

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Zach Marek

SUCCESSFULLY PARTICIPATED IN VISIBLE EMISSIONS TRAINING ON THE DATE BELOW, AND IS QUALIFIED TO EVALUATE VISIBLE EMISSIONS FOR A PERIOD OF 6 MONTHS FROM THE DATE OF CERTIFICATION.

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Tony Perry

SUCCESSFULLY PARTICIPATED IN VISIBLE EMISSIONS TRAINING ON THE DATE BELOW, AND IS QUALIFIED TO EVALUATE VISIBLE EMISSIONS FOR A PERIOD OF 6 MONTHS FROM THE DATE OF CERTIFICATION.

11/15/23	Memphis, TN	5/15/24	Bradley Singleton
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SINGLETON SMOKE SCHOOL

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THIS CERTIFICATE IS TO ACKNOWLEDGE THAT

Cody Reynolds

SUCCESSFULLY PARTICIPATED IN VISIBLE EMISSIONS TRAINING ON THE DATE BELOW, AND IS QUALIFIED TO EVALUATE VISIBLE EMISSIONS FOR A PERIOD OF 6 MONTHS FROM THE DATE OF CERTIFICATION.

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Melanie Summarell

SUCCESSFULLY PARTICIPATED IN VISIBLE EMISSIONS TRAINING ON THE DATE BELOW, AND IS QUALIFIED TO EVALUATE VISIBLE EMISSIONS FOR A PERIOD OF 6 MONTHS FROM THE DATE OF CERTIFICATION.

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OF NASHVILLE, TN

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Mark Sam Thompson

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DATE	LOCATION	EXPIRATION	INSTRUCTOR

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DATE	LOCATION	EXPIRATION	INSTRUCTOR

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Log 9
Log of Opacity Observations for Source 02 for Compliance Purposes
Outlet Baghouse 1

	Date	Time Start	Time Stop	Read By	Mode of Operation	Sky Conditions	Wind MPH	6Min Avg	Prod. Day	Comments
x	1-Jul-23	12:10 PM	12:28 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	2-Jul-23	09:22 AM	09:40 AM	MT	Melting	Clear	10-15	0.00%	1	
x	3-Jul-23	04:00 PM	04:18 PM	CR	Melting	Clear	5-10	0.00%	1	
x	4-Jul-23	09:00 AM	09:18 AM	CR	Melting	Cloudy	0-5	0.00%	1	
x	5-Jul-23	07:20 AM	07:38 AM	CR	Melting	P.Cloudy	0-5	0.00%	1	
	6-Jul-23								1	No Daylight Operations
x	7-Jul-23	10:50 AM	11:08 AM	RC	Melting	Cloudy	0-5	0.00%	1	
x	8-Jul-23	01:00 PM	01:18 PM	TP	Melting	Cloudy	5-10	0.00%	1	
x	9-Jul-23	02:10 PM	02:28 PM	TP	Melting	Cloudy	6	0.00%	1	
x	10-Jul-23	11:20 AM	11:38 AM	CR	Melting	P.Cloudy	5-10	0.00%	1	
x	11-Jul-23	12:00 PM	12:18 PM	CR	Melting	P.Cloudy	0-5	0.00%	1	
x	12-Jul-23	01:20 PM	01:38 PM	RC	Melting	P.Cloudy	0-5	0.00%	1	
	13-Jul-23								1	No Daylight Operations
x	14-Jul-23	08:20 AM	08:38 AM	ZM	Melting	Cloudy	0-5	0.00%	1	
x	15-Jul-23	01:20 PM	01:38 PM	MT	Melting	Cloudy	10-15	0.00%	1	
x	16-Jul-23	07:10 AM	07:28 AM	MT	Melting	Clear	0-5	0.00%	1	
x	17-Jul-23	01:25 PM	01:43 PM	RC	Melting	Sunny	5-10	0.00%	1	
x	18-Jul-23	09:40 AM	09:58 AM	RC	Melting	P.Cloudy	5-10	0.00%	1	
	19-Jul-23								0	No Production
x	20-Jul-23	12:00 PM	12:18 PM	RC	Melting	Cloudy	10-15	0.00%	1	
x	21-Jul-23	08:20 AM	08:38 AM	RC	Melting	Cloudy	0-5	0.00%	1	
x	22-Jul-23	01:30 PM	01:48 PM	TP	Melting	Clear	5-10	0.00%	1	
x	23-Jul-23	11:30 AM	11:48 AM	TP	Melting	Clear	0-5	0.00%	1	
x	24-Jul-23	12:20 PM	12:38 PM	RC	Melting	Sunny	5-10	0.00%	1	
x	25-Jul-23	09:30 AM	09:48 AM	CR	Melting	Clear	5-10	0.00%	1	
x	26-Jul-23	11:50 AM	12:08 AM	CR	Melting	Overcast	5-10	0.00%	1	
	27-Jul-23								0	No Production
	28-Jul-23								0	No Production
x	29-Jul-23	06:35 PM	06:53 PM	BK	Melting	Sunny	5-10	0.00%	1	
	30-Jul-23								1	No Daylight Operations
x	31-Jul-23	09:40 AM	09:58 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	1-Aug-23	12:10 PM	12:28 PM	RC	Melting	P.Cloudy	0-5	0.00%	1	
x	2-Aug-23	11:50 AM	12:08 PM	CR	Melting	Rain	0-5	0.00%	1	
	3-Aug-23								1	No Daylight Operations
x	4-Aug-23	12:00 PM	12:18 PM	CR	Melting	Rain	0-5	0.00%	1	
x	5-Aug-23	01:00 PM	01:18 PM	TP	Melting	Clear	5-10	0.00%	1	
x	6-Aug-23	12:30 PM	12:48 PM	TP	Melting	Clear	5-10	0.00%	1	
x	7-Aug-23	12:55 PM	01:13 PM	RC	Melting	P.Cloudy	10-15	0.00%	1	
x	8-Aug-23	08:10 AM	08:28 AM	CR	Melting	Overcast	0-5	0.00%	1	
x	9-Aug-23	09:00 AM	09:18 AM	CR	Melting	Rain	5-10	0.00%	1	
	10-Aug-23								0	No Production
x	11-Aug-23	02:50 PM	03:08 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	12-Aug-23	12:50 PM	01:08 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	13-Aug-23	12:35 PM	12:53 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	14-Aug-23	07:00 AM	07:18 AM	CR	Melting	Rain	5-10	0.00%	1	
x	15-Aug-23	09:30 AM	09:48 AM	CR	Melting	Sunny	5-10	0.00%	1	
x	16-Aug-23	08:20 AM	08:38 AM	CR	Melting	Sunny	0-5	0.00%	1	
	17-Aug-23								0	No Production
x	18-Aug-23	10:20 AM	10:38 AM	CR	Melting	Sunny	5-10	0.00%	1	
x	19-Aug-23	01:05 PM	01:23 PM	TP	Melting	Clear	0-5	0.00%	1	
x	20-Aug-23	03:20 PM	03:38 PM	TP	Melting	Sunny	5-10	0.00%	1	
x	21-Aug-23	08:40 AM	08:58 AM	RC	Melting	Sunny	0-5	0.00%	1	
x	22-Aug-23	10:40 AM	10:58 AM	CR	Melting	Clear	0-5	0.00%	1	
x	23-Aug-23	07:20 AM	07:38 AM	RC	Melting	Sunny	0-5	0.00%	1	
	24-Aug-23								1	No Daylight Operations
x	25-Aug-23	07:50 AM	08:08 AM	ZM	Melting	Sunny	0-5	0.00%	1	
x	26-Aug-23	07:37 AM	07:55 AM	MT	Melting	Clear	0-5	0.00%	1	
x	27-Aug-23	09:10 AM	09:28 AM	MT	Melting	Cloudy	0-5	0.00%	1	
x	28-Aug-23	10:40 AM	10:58 AM	CR	Melting	Cloudy	10-15	0.00%	1	
x	29-Aug-23	08:40 AM	08:58 AM	CR	Melting	Overcast	0-5	0.00%	1	
x	30-Aug-23	10:30 AM	10:48 AM	CR	Melting	Sunny	10-15	0.00%	1	
	31-Aug-23								1	No Daylight Operations
x	1-Sep-23	09:20 AM	09:38 AM	CR	Melting	Clear	0-5	0.00%	1	
x	2-Sep-23	02:10 PM	02:28 PM	TP	Melting	Sunny	5-10	0.00%	1	
x	3-Sep-23	01:30 PM	01:48 PM	TP	Melting	Sunny	5-10	0.00%	1	
	4-Sep-23								0	No Production
	5-Sep-23								0	No Production
	6-Sep-23								1	No Daylight Operations
x	7-Sep-23	09:00 AM	09:18 AM	CR	Melting	Clear	5-10	0.00%	1	
x	8-Sep-23	08:10 AM	08:28 AM	ZM	Melting	Cloudy	0-5	0.00%	1	
x	9-Sep-23	09:20 AM	09:38 AM	MT	Melting	Clear	5-10	0.00%	1	
x	10-Sep-23	08:30 AM	08:48 AM	MT	Melting	Clear	5-10	0.00%	1	
x	11-Sep-23	10:45 AM	11:03 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	12-Sep-23	09:40 AM	09:58 AM	CR	Melting	Overcast	5-10	0.00%	1	
x	13-Sep-23	09:00 AM	09:18 AM	CR	Melting	Sunny	5-10	0.00%	1	
	14-Sep-23								1	No Daylight Operations
x	15-Sep-23	08:05 AM	08:23 AM	CR	Melting	Cloudy	5-10	0.00%	1	
x	16-Sep-23	08:32 AM	08:50 AM	MT	Melting	Clear	0-5	0.00%	1	
x	17-Sep-23	08:15 AM	08:33 AM	MT	Melting	Clear	0-5	0.00%	1	
x	18-Sep-23	09:10 AM	09:28 AM	CR	Melting	Cloudy	5-10	0.00%	1	
x	19-Sep-23	09:30 AM	09:48 AM	ZM	Melting	Sunny	0-5	0.00%	1	
x	20-Sep-23	11:20 AM	11:38 AM	CR	Melting	Sunny	0-5	0.00%	1	
	21-Sep-23								1	No Daylight Operations
x	22-Sep-23	07:20 AM	07:38 AM	CR	Melting	Overcast	0-5	0.00%	1	
x	23-Sep-23	09:22 AM	09:40 AM	MT	Melting	Clear	0-5	0.00%	1	
x	24-Sep-23	09:27 AM	09:45 AM	MT	Melting	Clear	5-10	0.00%	1	
x	25-Sep-23	11:20 AM	11:38 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	26-Sep-23	09:55 AM	10:13 AM	RC	Melting	P.Cloudy	0-5	0.00%	1	
x	27-Sep-23	09:30 AM	09:48 AM	CR	Melting	Sunny	5-10	0.00%	1	
	28-Sep-23								1	No Daylight Operations
x	29-Sep-23	11:10 AM	11:28 AM	ZM	Melting	Sunny	0-5	0.00%	1	
x	30-Sep-23	01:10 PM	01:28 PM	TP	Melting	Sunny	0-5	0.00%	1	
75									85	

75 reading/85 production days - 100% production days monitored
10 - No Daylight Production
0 - No normal continuous run-maintenance issues on startup

This content is Internal.

Log 9
Log of Opacity Observations for Source 02 for Compliance Purposes
Outlet Baghouse 1

	Date	Time Start	Time Stop	Read By	Mode of Operation	Sky Conditions	Wind MPH	6Min Avg	Prod. Day	Comments
x	1-Oct-23	02:15 PM	02:33 PM	TP	Melting	Sunny	5-10	0.00%	1	
x	2-Oct-23	11:30 AM	11:48 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	3-Oct-23	10:55 AM	11:13 AM	CR	Melting	Clear	5-10	0.00%	1	
x	4-Oct-23	09:30 AM	09:48 AM	CR	Melting	Cloudy	10-15	0.00%	1	
	5-Oct-23								1	No Daylight Operations
x	6-Oct-23	07:50 AM	08:08 AM	RC	Melting	Sunny	5-10	0.00%	1	
x	7-Oct-23	09:50 AM	10:08 AM	MT	Melting	Clear	0-5	0.00%	1	
x	8-Oct-23	07:50 AM	08:08 AM	MT	Melting	Clear	5-10	0.00%	1	
x	9-Oct-23	09:55 AM	10:13 AM	RC	Melting	Sunny	10-15	0.00%	1	
x	10-Oct-23	12:10 PM	12:28 PM	RC	Melting	Sunny	5-10	0.00%	1	
x	11-Oct-23	01:20 PM	01:38 PM	RC	Melting	Cloudy	0-5	0.00%	1	
	12-Oct-23								1	No Daylight Operations
x	13-Oct-23	11:00 AM	11:18 AM	RC	Melting	Cloudy	5-10	0.00%	1	
x	14-Oct-23	08:20 AM	08:38 AM	MT	Melting	Cloudy	10-15	0.00%	1	
x	15-Oct-23	11:50 AM	12:08 PM	MT	Melting	Cloudy	10-15	0.00%	1	
x	16-Oct-23	09:40 AM	09:58 AM	CR	Melting	Cloudy	10-15	0.00%	1	
x	17-Oct-23	12:10 PM	12:28 PM	RC	Melting	Sunny	0-5	0.00%	1	
	18-Oct-23								0	No Production
	19-Oct-23								1	No Daylight Operations
x	20-Oct-23	09:10 AM	09:28 AM	ZM	Melting	Clear	0-5	0.00%	1	
x	21-Oct-23	09:17 AM	09:35 AM	MT	Melting	Clear	10-15	0.00%	1	
x	22-Oct-23	08:37 AM	08:55 AM	MT	Melting	Clear	0-5	0.00%	1	
x	23-Oct-23	01:55 PM	02:13 PM	RC	Melting	Sunny	0-5	0.00%	1	
x	24-Oct-23	12:00 PM	12:18 PM	CR	Melting	Sunny	5-10	0.00%	1	
x	25-Oct-23	07:30 AM	07:48 AM	CR	Melting	Clear	5-10	0.00%	1	
	26-Oct-23								0	No Production
x	27-Oct-23	01:40 PM	01:58 PM	CR	Melting	Rain	5-10	0.00%	1	
x	28-Oct-23	10:20 AM	10:38 AM	TP	Melting	P. Cloudy	5-10	0.00%	1	
x	29-Oct-23	10:40 AM	10:58 AM	TP	Melting	Cloudy	5-10	0.00%	1	
x	30-Oct-23	07:30 AM	07:48 AM	RC	Melting	Cloudy	10-15	0.00%	1	
x	31-Oct-23	08:10 AM	08:28 AM	CR	Melting	Cloudy	0-5	0.00%	1	
x	1-Nov-23	10:45 AM	11:03 AM	CR	Melting	Cloudy	0-5	0.00%	1	
	2-Nov-23								1	No Daylight Operations
x	3-Nov-23	09:40 AM	09:58 AM	CR	Melting	Overcast	10-15	0.00%	1	
x	4-Nov-23	07:30 AM	07:48 AM	MT	Melting	Clear	5-10	0.00%	1	
x	5-Nov-23	07:30 AM	07:48 AM	MT	Melting	Clear	0-5	0.00%	1	
	6-Nov-23								0	Outage
	7-Nov-23								0	Outage
	8-Nov-23								0	Outage
	9-Nov-23								0	Outage
	10-Nov-23								0	Outage
	11-Nov-23								0	Outage
	12-Nov-23								0	Outage
	13-Nov-23								0	Outage
	14-Nov-23								0	Outage
	15-Nov-23								0	Outage
	16-Nov-23								0	Outage
	17-Nov-23								0	Outage
x	18-Nov-23	08:42 AM	09:00 AM	MT	Melting	Clear	5-10	0.00%	1	
	19-Nov-23								0	No Production
x	20-Nov-23	09:12 AM	09:20 AM	CR	Melting	Rain	5-10	0.00%	1	
x	21-Nov-23	07:20 AM	07:38 AM	RC	Melting	Cloudy	10-15	0.00%	1	
x	22-Nov-23	09:12 AM	09:30 AM	CR	Melting	Overcast	5-10	0.00%	1	
	23-Nov-23								0	No Production
x	24-Nov-23	10:35 AM	10:53 AM	CR	Melting	Cloudy	5-10	0.00%	1	
x	25-Nov-23	01:25 PM	01:43 PM	TP	Melting	Clear	5-10	0.00%	1	
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x	29-Nov-23	12:20 PM	12:38 PM	CR	Melting	Clear	10-15	0.00%	1	
	30-Nov-23								1	No Daylight Operations
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x	2-Dec-23	09:50 AM	10:08 AM	CR	Melting	Clear	5-10	0.00%	1	
x	3-Dec-23	10:40 AM	10:58 AM	MT	Melting	Clear	0-5	0.00%	1	
x	4-Dec-23	11:50 AM	12:08 AM	CR	Melting	Cloudy	10-15	0.00%	1	
x	5-Dec-23	11:40 AM	11:58 AM	RC	Melting	Sunny	15-20	0.00%	1	
x	6-Dec-23	09:20 AM	09:38 AM	CR	Melting	Sunny	0-5	0.00%	1	
	7-Dec-23								1	No Daylight Operations
x	8-Dec-23	11:12 AM	11:30 AM	RC	Melting	Cloudy	10-15	0.00%	1	
x	9-Dec-23	08:15 AM	08:33 AM	TP	Melting	Cloudy	5-10	0.00%	1	
x	10-Dec-23	01:50 PM	02:08 PM	TP	Melting	Sunny	5-10	0.00%	1	
	11-Dec-23								1	No Daylight Operations
x	12-Dec-23	09:10 AM	09:28 AM	CR	Melting	Clear	0-5	0.00%	1	
x	13-Dec-23	07:45 AM	08:03 AM	CR	Melting	Clear	5-10	0.00%	1	
x	14-Dec-23	12:40 AM	12:58 AM	CR	Melting	Clear	5-10	0.00%	1	
	15-Dec-23								1	No Daylight Operations
x	16-Dec-23	09:00 AM	09:18 AM	MT	Melting	Cloudy	5-10	0.00%	1	
x	17-Dec-23	11:40 AM	11:58 AM	MT	Melting	Cloudy	5-10	0.00%	1	
x	18-Dec-23	10:00 AM	10:18 AM	ZM	Melting	Sunny	10-15	0.00%	1	
x	19-Dec-23	10:20 AM	10:38 AM	RC	Melting	P. Cloudy	5-10	0.00%	1	
x	20-Dec-23	10:20 AM	10:38 AM	CR	Melting	Overcast	5-10	0.00%	1	
x	21-Dec-23	10:30 AM	10:48 AM	CR	Melting	Clear	5-10	0.00%	1	
x	22-Dec-23	07:35 AM	07:53 AM	RC	Melting	Sunny	0-5	0.00%	1	
x	23-Dec-23	01:40 PM	01:58 PM	TP	Melting	Cloudy	5-10	0.00%	1	
	24-Dec-23								0	No Production
	25-Dec-23								0	No Production
	26-Dec-23								0	No Production
	27-Dec-23								0	No Production
	28-Dec-23								0	No Production
	29-Dec-23								0	No Production
	30-Dec-23								0	No Production
	31-Dec-23								0	No Production
60									68	

60 reading/68 production days - 100% production days monitored
8 - No Daylight Production
0 - No normal continuous run-maintenance issues throughout day

This content is Internal.

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

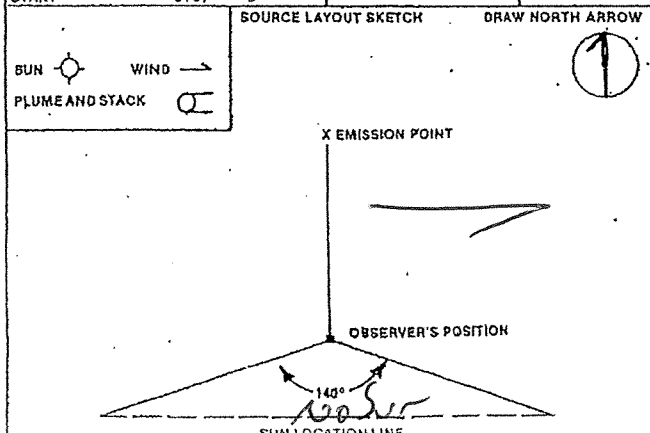
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START blue STOP blue | SKY CONDITIONS: START cloud STOP cloud

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 82° STOP 82° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 7-1-23 | START TIME: 12:10pm | STOP TIME: 12:28pm

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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13	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 7-1-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

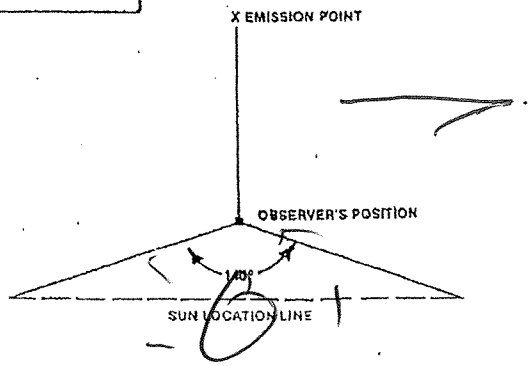
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 88° STOP 88° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
7-2-23	9:22am	9:40am

SEC / MIN	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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14	0	0	0	1	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS: 1

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 7-2-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

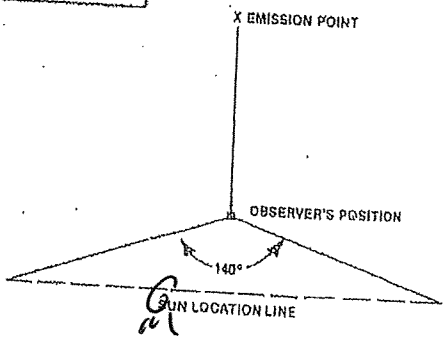
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 90 STOP 90 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



SEC / MIN	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
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OBSERVATION DATE: 7-3-23 | START TIME: 4:00 pm | STOP TIME: 4:16 pm

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Revels

OBSERVER'S SIGNATURE: [signature] | DATE: 7-3-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

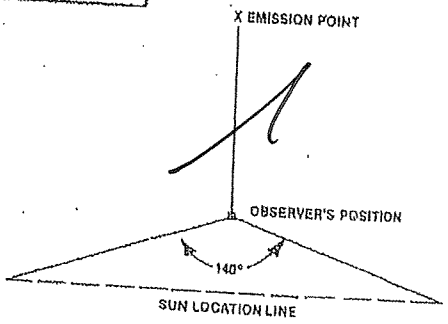
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Clear STOP Cloudy

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 80 STOP 82 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-4-23 | START TIME: 9:00 AM | STOP TIME: 9:18 AM

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
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6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Ruddle

OBSERVER'S SIGNATURE: [signature] | DATE: 7-4-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

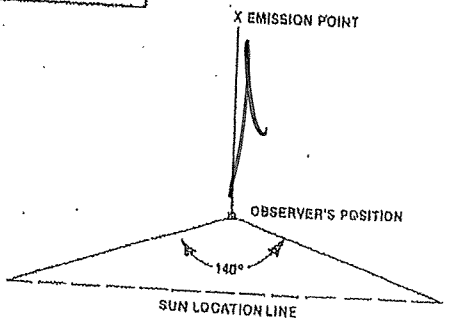
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-5-23 | START TIME: 7:20 Am | STOP TIME: 7:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: Cody Reynolds | DATE: 7-5-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

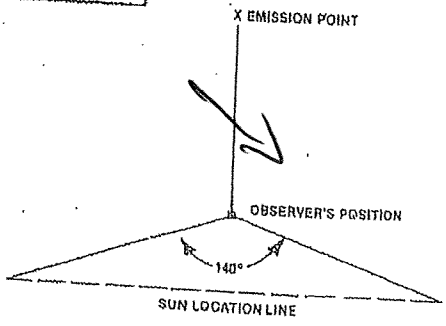
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 83 STOP 83 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-7-23 | START TIME: 10:50 AM | STOP TIME: 11:08 AM

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 7-7-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

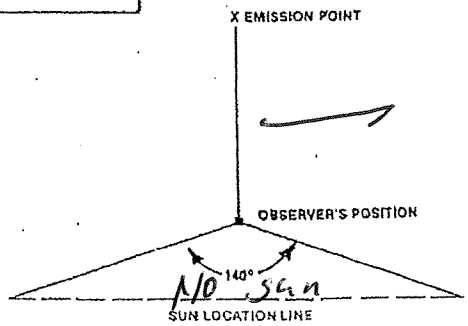
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Grey
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 5to10 STOP 5to10
WIND DIRECTION	START W STOP W
AMBIENT TEMP.	START 88° STOP 88°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
7-8-23	1:00 pm	1:18 pm

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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9	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Berry

OBSERVER'S SIGNATURE: [signature] DATE: 7-8-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) — DATE: 5-17-23

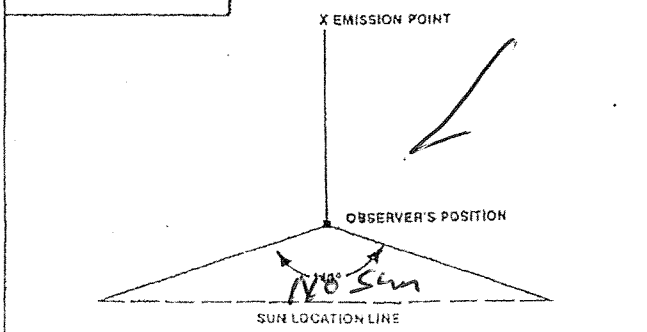
CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP cloudy
WIND SPEED: START 6 mph STOP 6 MPH | WIND DIRECTION: START NE STOP NE
AMBIENT TEMP.: START 73° STOP 73° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE	START TIME	STOP TIME
7/9/23	2:10 pm	2:28 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry
OBSERVER'S SIGNATURE: Tony Perry | DATE: 7/9/23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/17/23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5/11/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

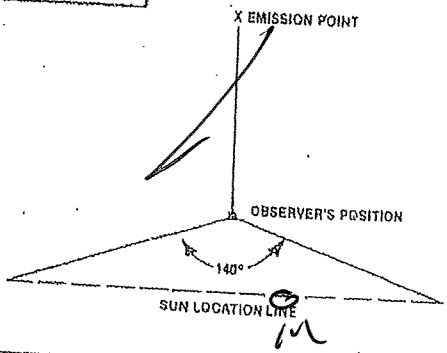
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
7-10-23	11:20 Am	11:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE: [signature] | DATE: 7-10-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

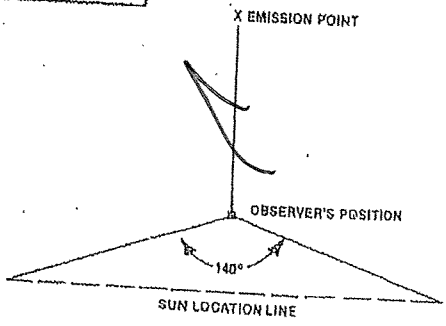
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 83 STOP 83 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-14-23 | START TIME: 12:00 pm | STOP TIME: 12:18 pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☑ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE: [signature] | DATE: 7-14-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-12-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

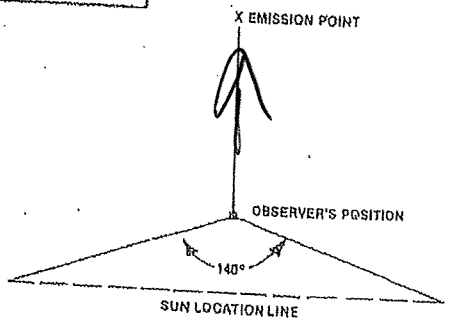
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 89 STOP 89 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 7-12-23 | START TIME: 1:20 PM | STOP TIME: 1:38PM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 7-12-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

EN-0841

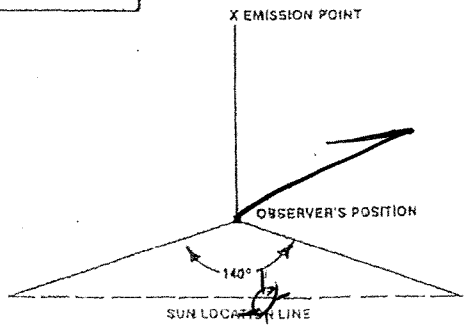
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouses
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 0-5 Mph STOP 0-5 mph
WIND DIRECTION	START SSW STOP SSW
AMBIENT TEMP.	START 80° STOP 80°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7/14/23 — START TIME: 8:20 AM — STOP TIME: 8:38 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek

OBSERVER'S SIGNATURE: Zachary Marek — DATE: 7/14/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State Of Tennessee / Singleton Smoke School — DATE: 5/17/23

CN-0841

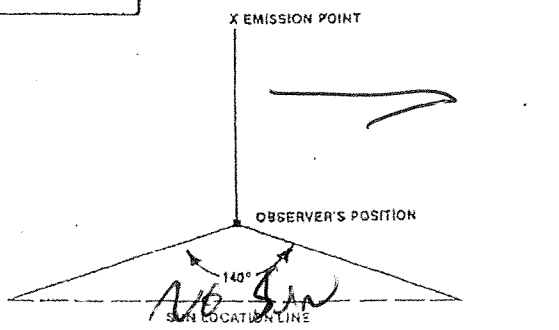
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START W STOP W
AMBIENT TEMP: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-15-23 | START TIME: 1:20 pm | STOP TIME: 1:38 pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thomp | DATE: 7-15-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~#1~~

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

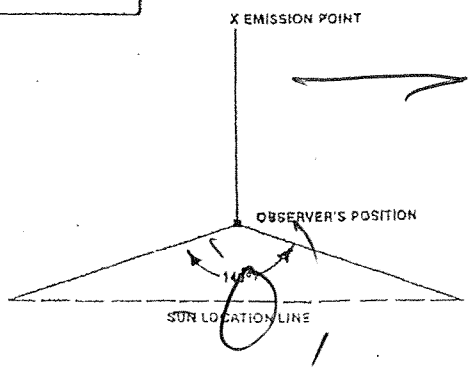
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-16-23 | START TIME: 7:10 am | STOP TIME: 7:28 am

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS: (

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Marlc Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 7-16-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

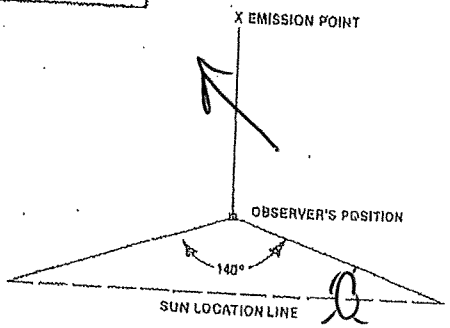
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SSE STOP SE

AMBIENT TEMP.: START 88 STOP 88 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 7-17-23 | START TIME: 1:25 PM | STOP TIME: 1:43PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: | DATE: 7-17-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

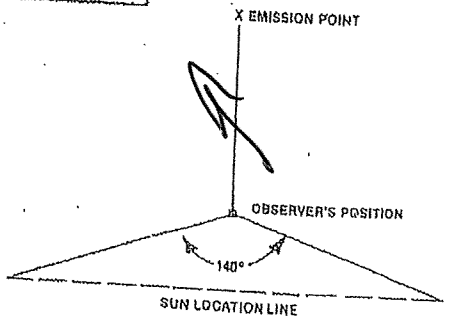
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 83 STOP 87 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
7-18-23	9:40AM	9:58AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] | DATE: 7-18-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

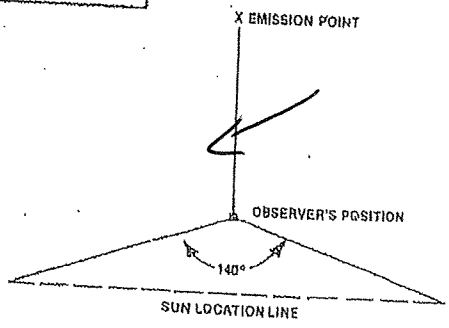
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 88 STOP 88 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 7-20-23 | START TIME: 12:00pm | STOP TIME: 12:18pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 7-20-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Grey STOP | SKY CONDITIONS: START Cloudy STOP Cloudy

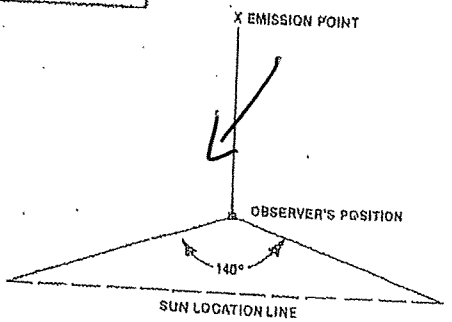
WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 77 STOP 77 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH

SUN ☼ WIND → PLUME AND STACK ⊏

DRAW NORTH ARROW



MIN \ SEC	0	15	30	45	COMMENTS
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OBSERVATION DATE: 7-21-23 | START TIME: 8:20am | STOP TIME: 8:38am

APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 7-21-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START ——— STOP ———

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

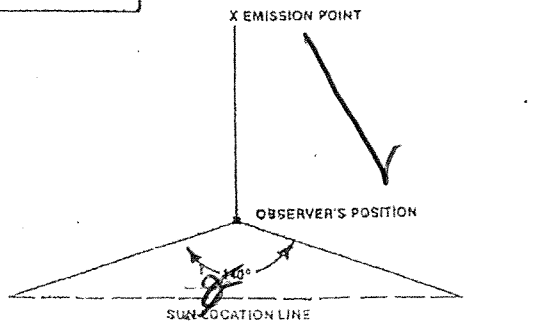
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 83° STOP 83° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-22-23 | START TIME: 1:30 PM | STOP TIME: 1:48 PM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry | DATE: 7-22-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-17-23

CN-0841

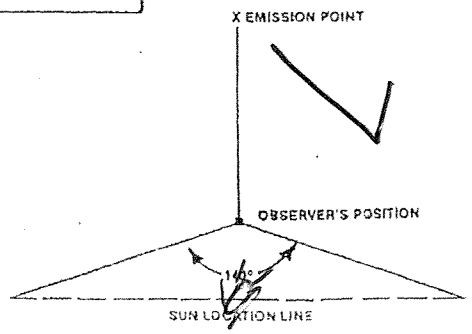
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 0-05 STOP 0-05 | WIND DIRECTION: START NW STOP NW
AMBIENT TEMP.: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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OBSERVATION DATE: 7-23-23 | START TIME: 11:30 AM | STOP TIME: 11:48 AM

APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Penny
OBSERVER'S SIGNATURE: Tony Penny | DATE: 7-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-15-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

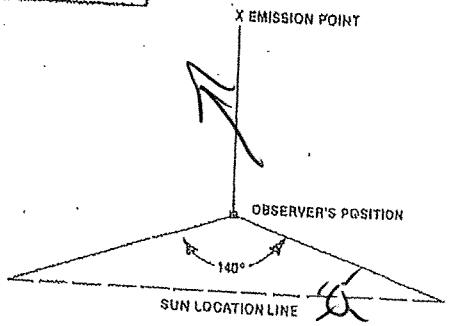
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 88 STOP 96 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-24-23 | START TIME: 12:20 PM | STOP TIME: 12:38 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 7-24-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

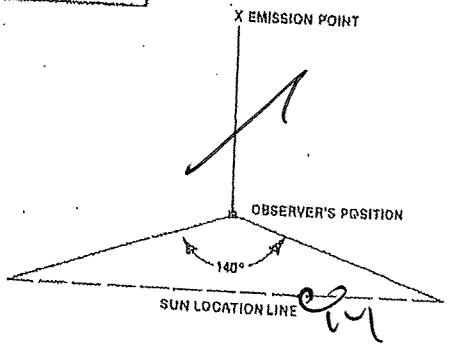
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 98 STOP 98 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
7-25-23	5:30 AM	5:48 AM

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reeder

OBSERVER'S SIGNATURE:

DATE: 7-25-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

DATE: 5-22-23

EN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

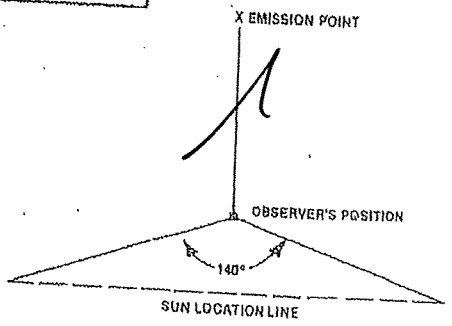
BACKGROUND COLOR: START Gry STOP Gry | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 7-26-23	START TIME: 11:30 AM	STOP TIME: 12:08 PM

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] DATE: 7-26-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

GN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

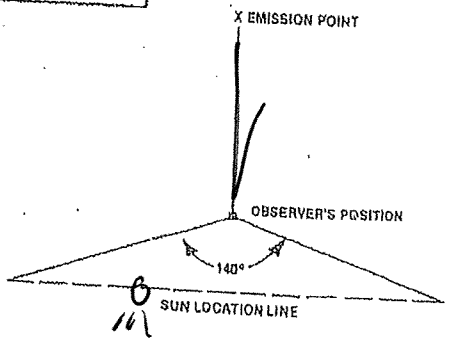
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 89 STOP 88 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH

SUN ☼ WIND → PLUME AND STACK ⊏

DRAW NORTH ARROW



OBSERVATION DATE: 6-29-23 | START TIME: 6:35pm | STOP TIME: 6:53pm

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Brian Kirby

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S SIGNATURE | DATE: 7/29/23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/20/23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5/22/23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

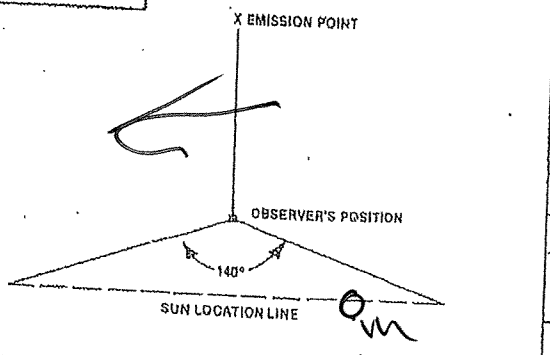
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 82 STOP 82 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-30-23 | START TIME: 9:40 Am | STOP TIME: 9:58 Am

MIN \ SEC	0	15	30	45	COMMENTS
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5	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE

DATE: 7-31-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

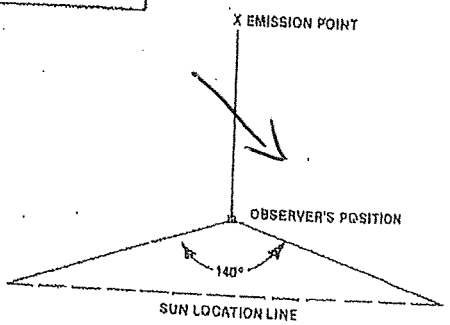
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 85 STOP 85 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
8-1-23	12:10 PM	12:28PM

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 8-1-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

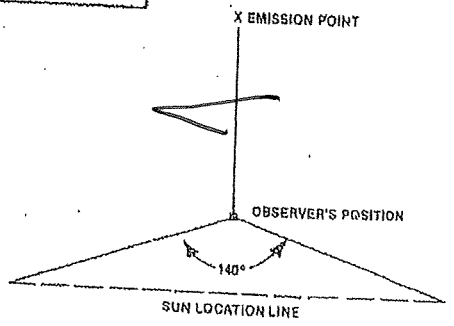
BACKGROUND COLOR: START Gry STOP Gry | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
8-2-23	11:50 am	12:05 pm

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] DATE: 8-2-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

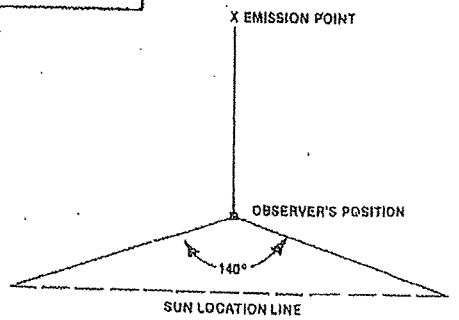
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 8-4-23 | START TIME: 12:00pm | STOP TIME: 12:18pm

SEC / MIN	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Knuckles

OBSERVER'S SIGNATURE | DATE: 8-4-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

ON-0841

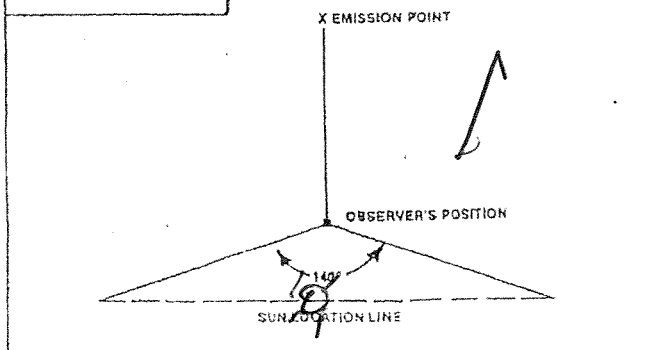
ENV-014 Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~STOP~~
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START ——— STOP ———
EMISSION COLOR: START ——— STOP ——— | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START B/C STOP B/C | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START S STOP S
AMBIENT TEMP.: START 96° STOP 96° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 8-5-23 | START TIME: 1:00 PM | STOP TIME: 1:18 PM

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry
OBSERVER'S SIGNATURE: Tony Perry | DATE: 8-5-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

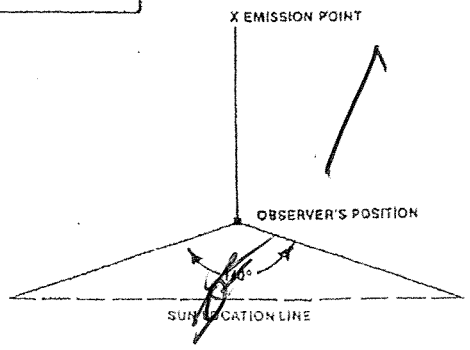
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Clear STOP Clear
WIND SPEED	START 5to10 STOP 5to10
WIND DIRECTION	START S STOP S
AMBIENT TEMP.	START 88° STOP 88°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
8-6-23	12:30 PM	12:48 PM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD	3 % OPACITY
EPA METHOD 9 ☒	TVEE METHOD 2 ☐
TVEE METHOD 1 ☐	TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE % WERE	0

COMMENTS	
OBSERVER'S NAME (PRINT)	Tony Pearce
OBSERVER'S SIGNATURE	
DATE	8-6-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE	11-17-23
VERIFIED BY	State Of Tennessee / Singleton Smoke School
DATE	5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

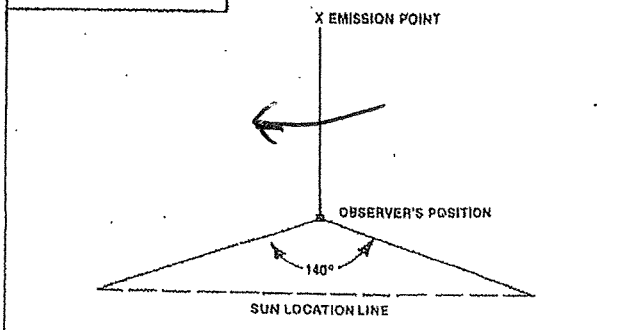
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 82 STOP 82 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 8-7-23 | START TIME: 12:58 pm | STOP TIME: 1:13 pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 8-7-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

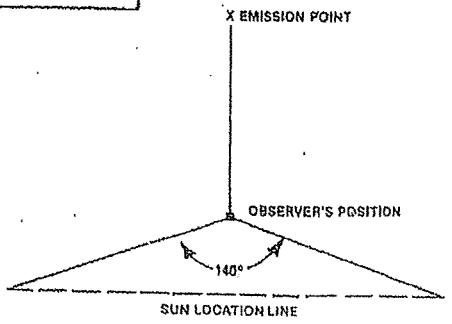
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 8-8-23 | START TIME: 8:10 AM | STOP TIME: 8:28 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reeves

OBSERVER'S SIGNATURE: | DATE: 8-8-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-11-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

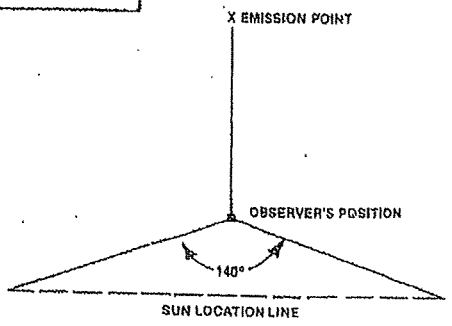
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-9-23 | START TIME: 5:00 Am | STOP TIME: 5:28 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Fowler

OBSERVER'S SIGNATURE | DATE: 8-9-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

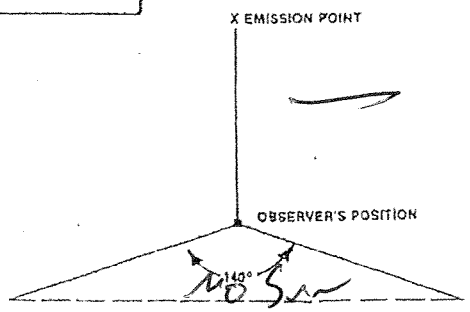
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 5-10 STOP 5-10
WIND DIRECTION	START W STOP W
AMBIENT TEMP.	START 85° STOP 85
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-11-23 — START TIME: 2:50pm — STOP TIME: 3:08pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE AWERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson DATE: 8-11-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School — DATE: 5-23-23

CN-0841

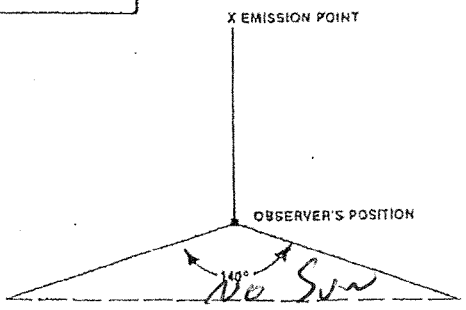
ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 81° STOP 81° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 8-12-23 | START TIME: 12:50 pm | STOP TIME: 1:08 pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thomp | DATE: 8-12-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-25-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

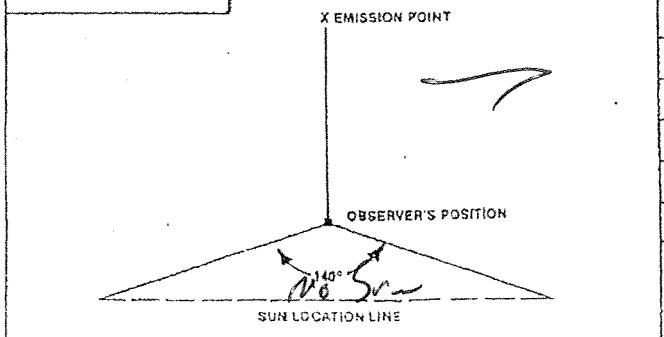
ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 80° STOP 80° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 8-13-23 | START TIME: 12:35pm | STOP TIME: 12:53pm

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Mark Thorp
OBSERVER'S SIGNATURE: Mark Thorp | DATE: 8-13-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

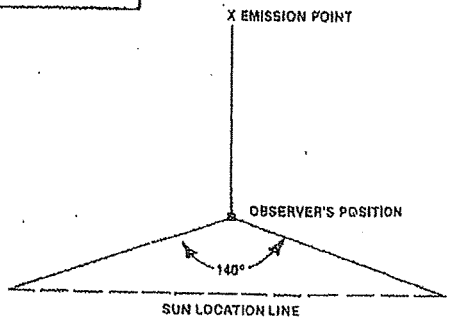
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 78 STOP 78 | WET BULB TEMP.: | RH, percent:

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE:

TITLE: | DATE:

OBSERVATION DATE: 8-14-13 | START TIME: 7:00 Am | STOP TIME: 7:18 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: | DATE: 8-14-13

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-13

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-13

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

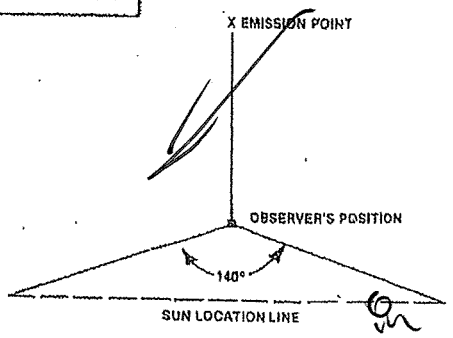
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE:

TITLE: | DATE:

OBSERVATION DATE: 8-15-23 | START TIME: 9:30 Am | STOP TIME: 9:48 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: | DATE: 8-15-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

EN-0041

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

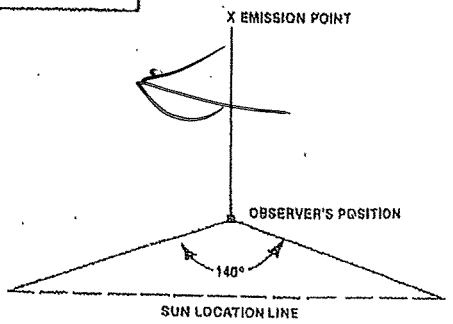
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
8-16-23	8:10 Am	8:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Brooks

OBSERVER'S SIGNATURE: | DATE: 8-16-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

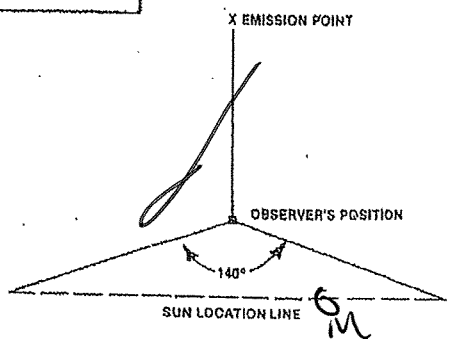
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
8-18-23	10:20 AM	10:38 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 8-18-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

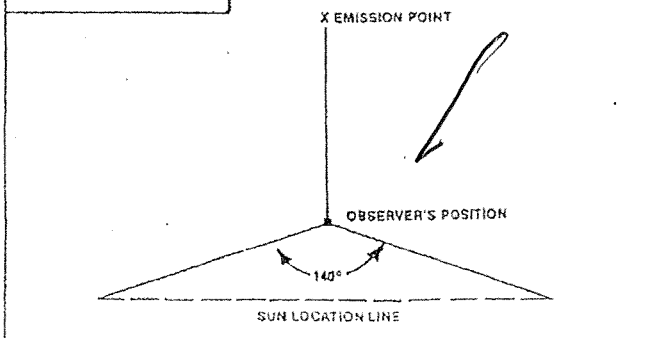
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0 to 5 STOP 0 to 5 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 87° STOP 87° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 8-9-23 | START TIME: 1:05 PM | STOP TIME: 1:23 PM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: [signature] | DATE: 8-19-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

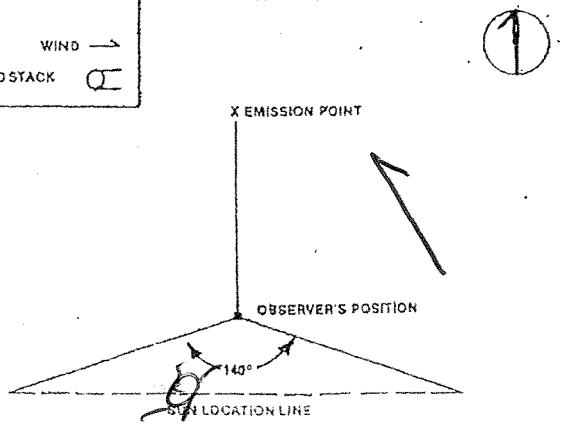
ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny
WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START SE STOP SE
AMBIENT TEMP.: START 93° STOP 93° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 8-20-23 | START TIME: 3:20 PM | STOP TIME: 3:38 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry
OBSERVER'S SIGNATURE: Tony Perry | DATE: 8-20-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

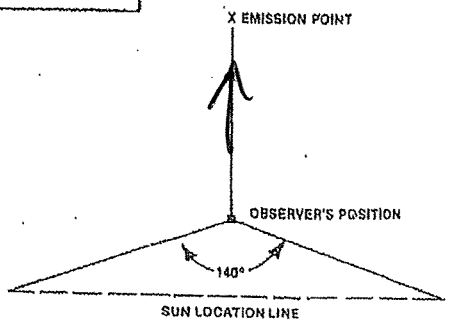
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 81 STOP 81 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
8-21-23	8:40AM	8:58AM

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 8-21-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

EN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

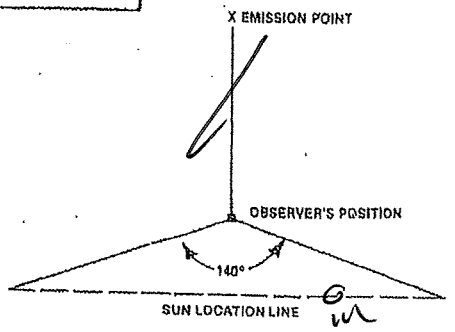
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 90 STOP 90 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 8-22-23 | START TIME: 10:40 Am | STOP TIME: 10:58 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 8-22-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-22-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

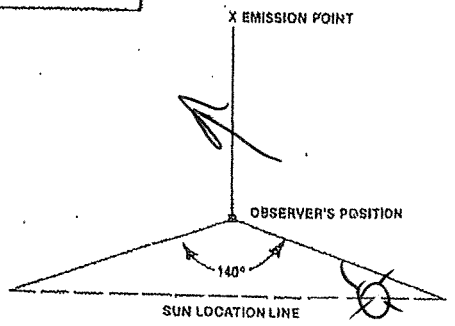
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 74 STOP 77 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-23-23 | START TIME: 7:20AM | STOP TIME: 7:38AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 8-23-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

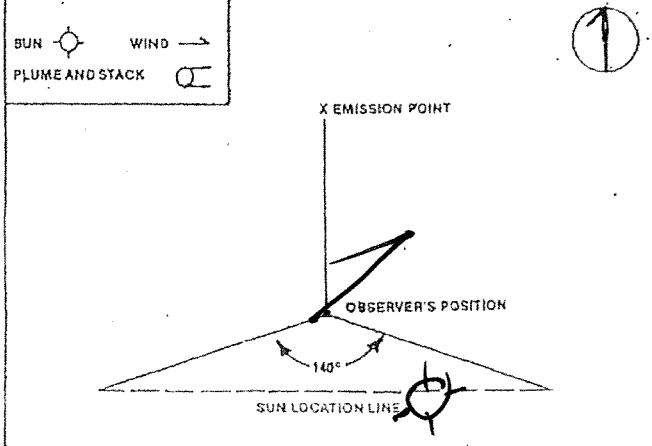
CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny
WIND SPEED: START 0-5 mph STOP 0-5 mph | WIND DIRECTION: START SW STOP SW
AMBIENT TEMP.: START 80° STOP 80° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 8/25/23 | START TIME: 7:50 AM | STOP TIME: 8:08 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS:
OBSERVER'S NAME (PRINT): Zach Mayer
OBSERVER'S SIGNATURE: [signature] | DATE: 8/25/23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/17/23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5/17/23

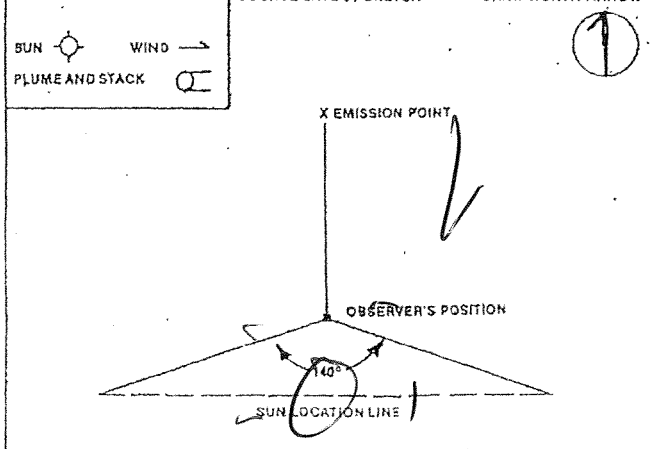
CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 8-26-23 | START TIME: 7:32 am | STOP TIME: 7:55 a

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thomp | DATE: 8-26-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

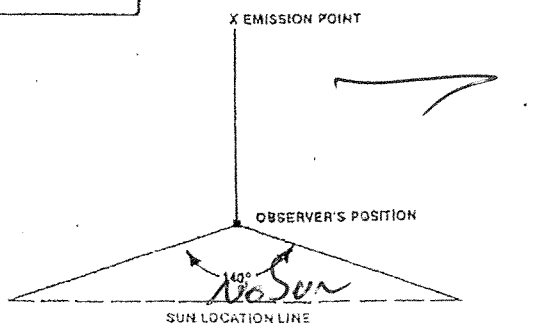
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 77° STOP 77° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 8-27-23 | START TIME: 9:10 am | STOP TIME: 9:28 am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Marlc Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 8-27-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

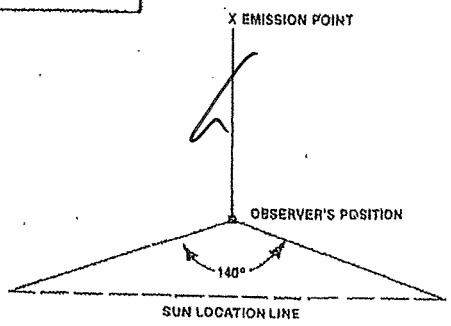
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 88 STOP 88 | WET BULB TEMP.: | RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-28-23 | START TIME: 10:40 Am | STOP TIME: 10:58 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: | DATE: 8-28-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

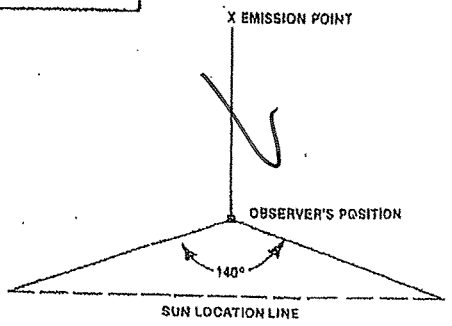
BACKGROUND COLOR: START Gry STOP Gry | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 8-29-23 | START TIME: 8:40AM | STOP TIME: 8:58AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: | DATE: 8-29-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

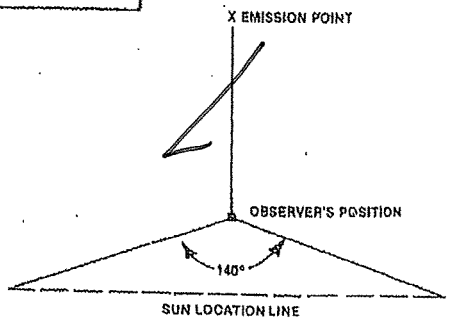
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 81 STOP 81 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-30-23 | START TIME: 10:30 Am | STOP TIME: 10:48 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 8-30-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

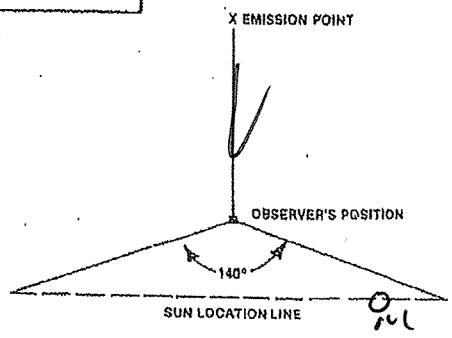
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
5-1-13	9:20 Am	9:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] DATE: 5-1-13

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-13

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-13

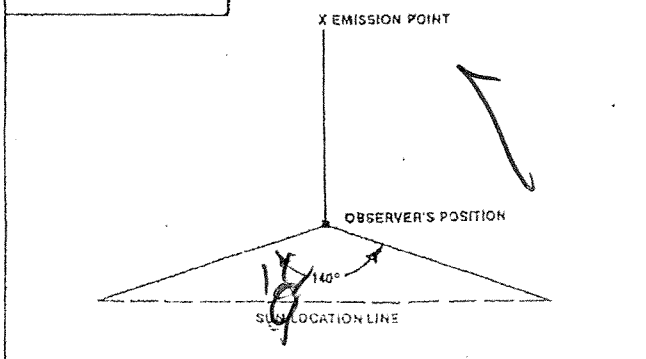
CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny
WIND SPEED: START 5to10 STOP 5to10 | WIND DIRECTION: START SE STOP SE
AMBIENT TEMP.: START 85°C STOP 85°C | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 9-2-23 | START TIME: 2:10 PM | STOP TIME: 2:28 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Peart
OBSERVER'S SIGNATURE: Tony Peart | DATE: 9-2-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

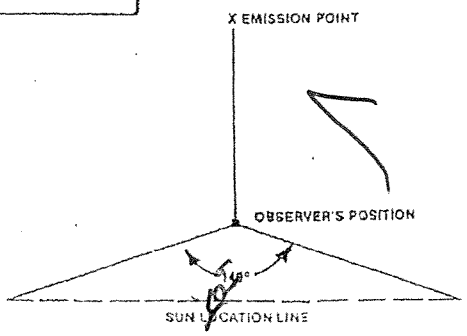
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE
AMBIENT TEMP.: START 86° STOP 86° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 9-3-23 | START TIME: 1:30 pm | STOP TIME: 1:48 pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Terry
OBSERVER'S SIGNATURE: [signature] DATE: 9-3-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-17-23

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SIGNATURE
TITLE | DATE

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

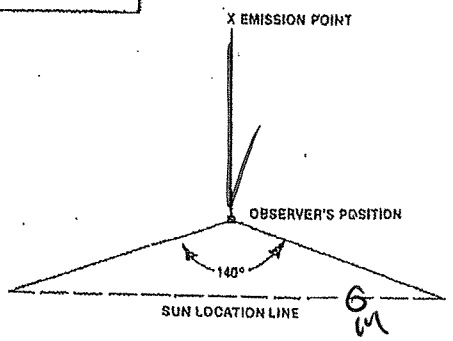
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 9-7-23 | START TIME: 9:00 Am | STOP TIME: 9:18 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Hawkins

OBSERVER'S SIGNATURE: [signature] DATE: 9-7-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) DATE: 5-22-23

EN-0841

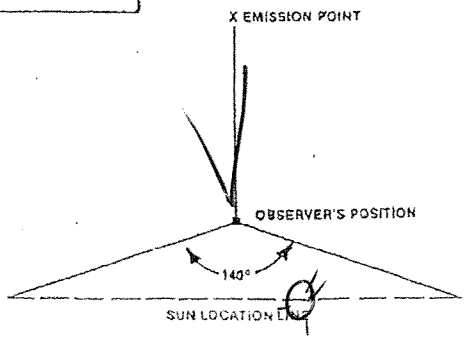
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~STOP~~
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START ——— STOP ———
EMISSION COLOR: START ——— STOP ——— | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 0-5 mph STOP 0-5 mph | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 66° STOP 66° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 9/8/23 | START TIME: 8:10 AM | STOP TIME: 8:28 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek
OBSERVER'S SIGNATURE: Zachary Marek | DATE: 9/8/23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/17/23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5/17/23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

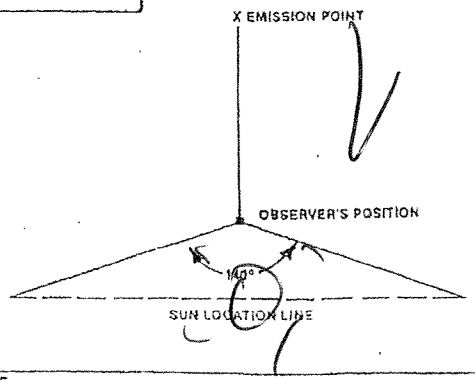
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 79° STOP 79° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



SEC / MIN	0	15	30	45	COMMENTS
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OBSERVATION DATE: 9-9-23 | START TIME: 9:20a | STOP TIME: 9:38a

APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thomp | DATE: 9-9-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

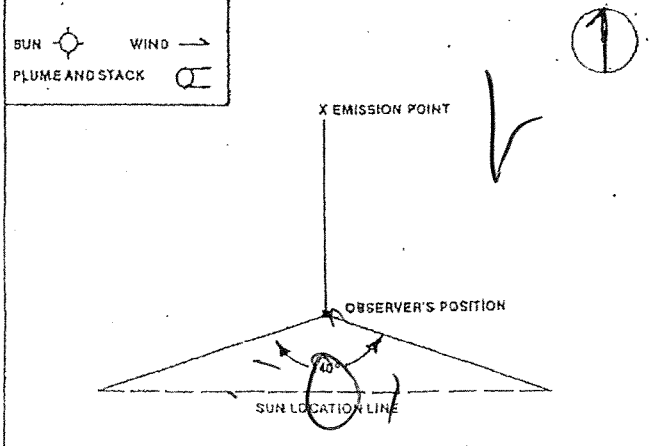
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 75° STOP 75° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 9-10-23 | START TIME: 8:30am | STOP TIME: 8:48am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS: —

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thomp | DATE: 9-10-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

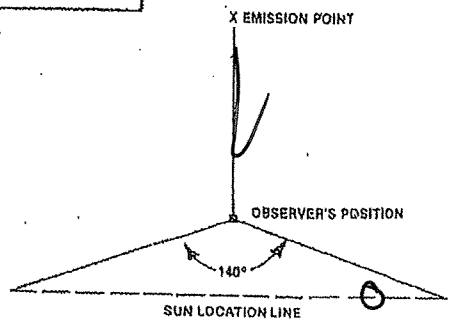
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 80 STOP 85 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 9-11-23 | START TIME: 10:45 Am | STOP TIME: 11:03 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE: [signature] | DATE: 9-11-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-26-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

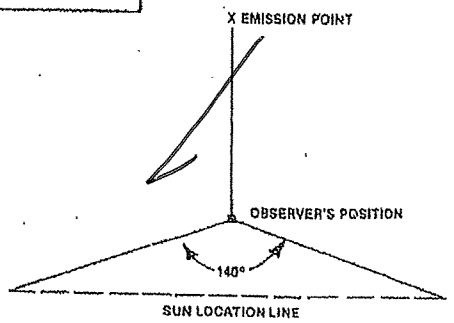
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 5-12-23 | START TIME: 9:40Am | STOP TIME: 9:58Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rymer

OBSERVER'S SIGNATURE: [signature] | DATE: 5-17-23

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SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

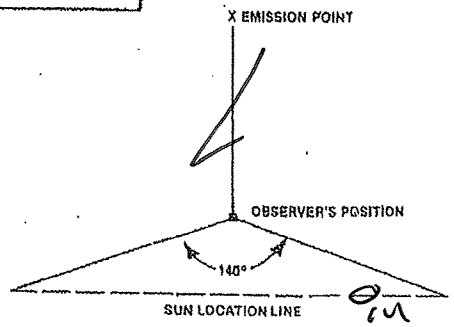
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 70 STOP 76 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 9-13-23 | START TIME: 9:00Am | STOP TIME: 9:18Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Pruitt

OBSERVER'S SIGNATURE | DATE: 9-13-23

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SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

ON-0841

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DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

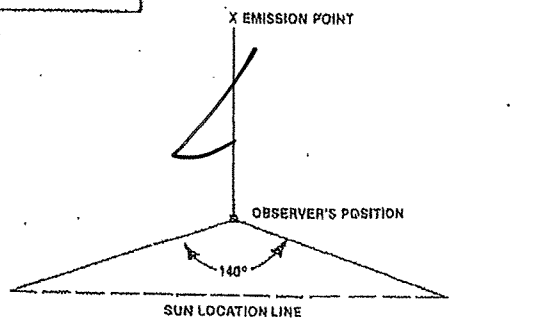
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 60 STOP 60 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

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SIGNATURE

TITLE | DATE

OBSERVATION DATE: 9-15-23 | START TIME: 8:05 Am | STOP TIME: 8:23 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE: | DATE: 9-15-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

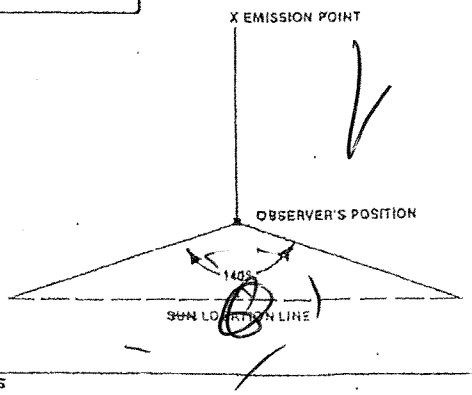
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Clear STOP Clear
WIND SPEED	START 0-5 STOP 0-5
WIND DIRECTION	START N STOP N
AMBIENT TEMP.	START 72° STOP 72°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
9-16-23	8:32 am	8:50 am

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APPLICABLE OPACITY STANDARD	3 % OPACITY
EPA METHOD 9 ☒	TVEE METHOD 2 ☐
TVEE METHOD 1 ☐	TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE %WERE	0
COMMENTS	
OBSERVER'S NAME (PRINT)	Mark Thompson
OBSERVER'S SIGNATURE	Mark Thompson
DATE	9-16-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE	11-23-23
VERIFIED BY	State Of Tennessee / Singleton Smoke School
DATE	5-23-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~STOP~~

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

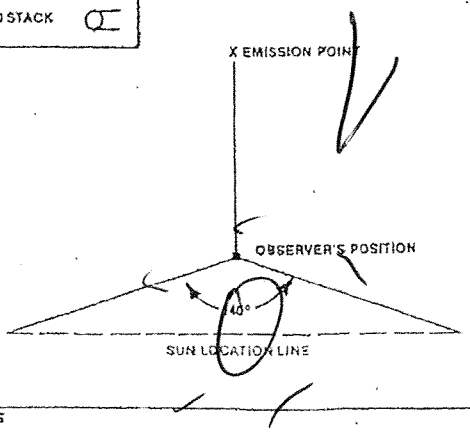
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 75° STOP 75° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 9-17-23 | START TIME: 8:15a | STOP TIME: 8:33a

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % (WERE): 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 9-17-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

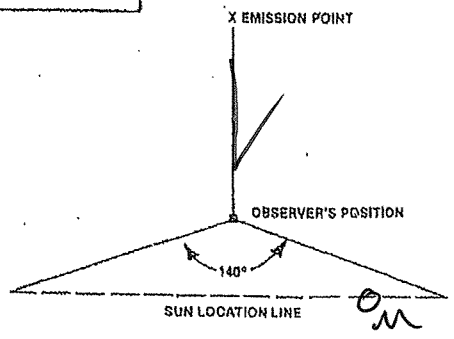
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 65 STOP 65 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 9-18-23 | START TIME: 9:10 AM | STOP TIME: 9:38 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Coely Ryedale

OBSERVER'S SIGNATURE: [signature] DATE: 9/18/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

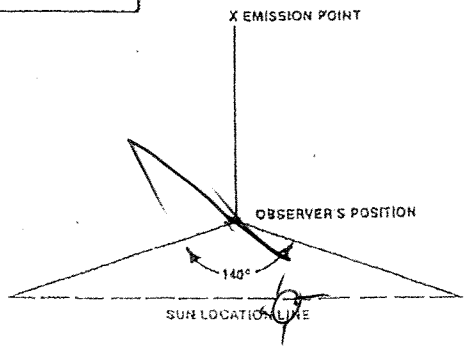
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny
WIND SPEED: START 0-5 mph STOP 0-5 mph | WIND DIRECTION: START SSE STOP SSE
AMBIENT TEMP.: START 69° STOP 69° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 9/19/23 | START TIME: 9:30 AM | STOP TIME: 9:48 AM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Magill
OBSERVER'S SIGNATURE: [signature] DATE: 9/19/23
ORGANIZATION: Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE: 11/17/23
VERIFIED BY: State Of Tennessee / Singleton Smoke School DATE: 5/17/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

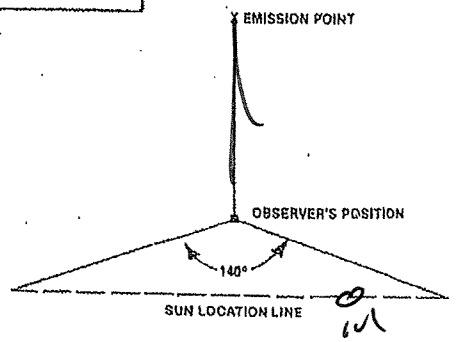
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 72 STOP 72 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE:

TITLE: | DATE:

OBSERVATION DATE: 9-26-23 | START TIME: 11:20 Am | STOP TIME: 11:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE: | DATE: 9/20/23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

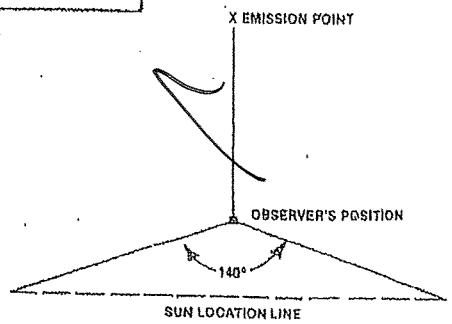
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 6-5 STOP 6-5 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 0-5 STOP 0-5 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 9-22-23 | START TIME: 7:10 AM | STOP TIME: 7:38 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rymer

OBSERVER'S SIGNATURE: [signature] DATE: 9-22-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 9-22-23

CN-0841

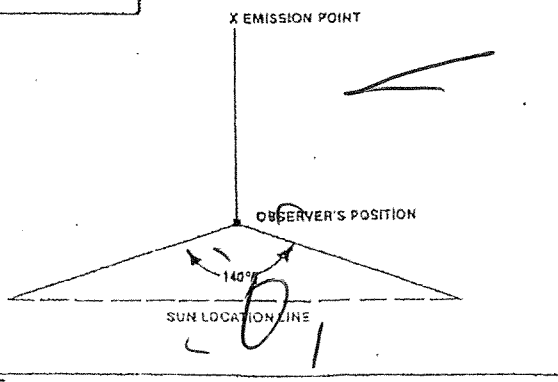
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Clear STOP Clear
WIND SPEED	START 0-5 STOP 0-5
WIND DIRECTION	START E STOP E
AMBIENT TEMP.	START 80° STOP 80°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
9-23-23	9:22 am	9:40 am

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APPLICABLE OPACITY STANDARD	3 % OPACITY
EPA METHOD 9 ☒	TVEE METHOD 2 ☐
TVEE METHOD 1 ☐	TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE % WERE	0
COMMENTS	
OBSERVER'S NAME (PRINT)	Mark Thompson
OBSERVER'S SIGNATURE	Mark Thomp
DATE	9-23-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE	11-23-23
VERIFIED BY	State Of Tennessee / Singleton Smoke School
DATE	5-23-23

CN-0841

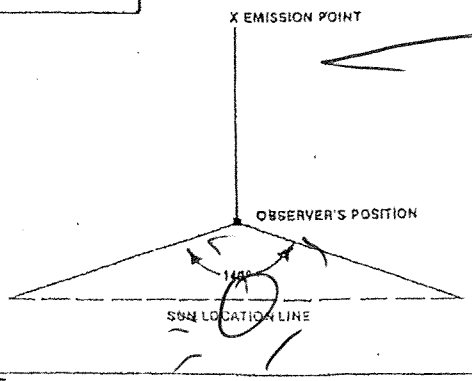
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START E STOP E
AMBIENT TEMP.: START 76° STOP 76° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 9-24-23 | START TIME: 9:27a | STOP TIME: 9:45a

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Marlc Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 9-24-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

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SIGNATURE
TITLE | DATE

CN-0841

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DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

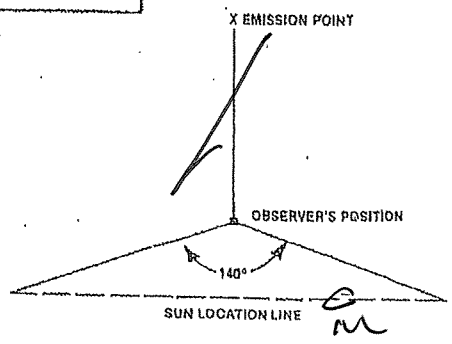
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 88 STOP 88 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 5-25-23 | START TIME: 11:20 Am | STOP TIME: 11:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Ryndels

OBSERVER'S SIGNATURE | DATE: 5-25-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

EN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

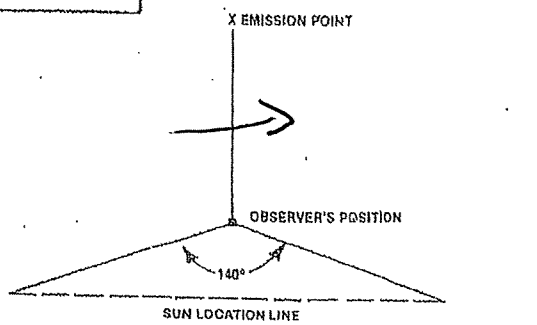
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PCloudy STOP PCloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 83 STOP 83 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 9-26-23 | START TIME: 9:55 AM | STOP TIME: 10:13 AM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 5

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Cole | DATE: 9-26-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 1-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

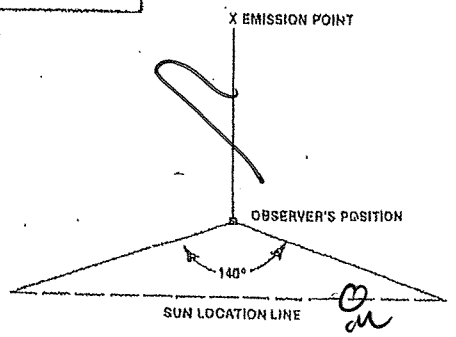
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 5-27-23 | START TIME: 9:30Am | STOP TIME: 9:48Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 5-27-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-27-23

EPA CN-0841

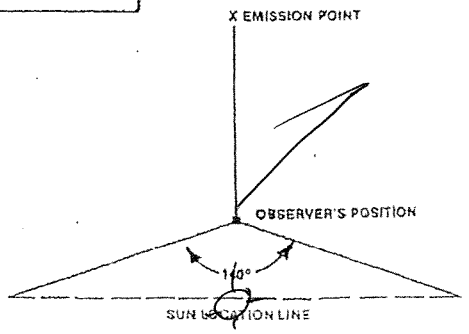
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Sunny STOP Sunny
WIND SPEED	START 0-5 mph STOP 0-5 mph
WIND DIRECTION	START SSW STOP SSW
AMBIENT TEMP.	START 81° STOP 81°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 9/29/23 — START TIME: 11:10 AM — STOP TIME: 11:28 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Mabrey

OBSERVER'S SIGNATURE: Zachary Mabrey — DATE: 9/29/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE — TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 11/17/23

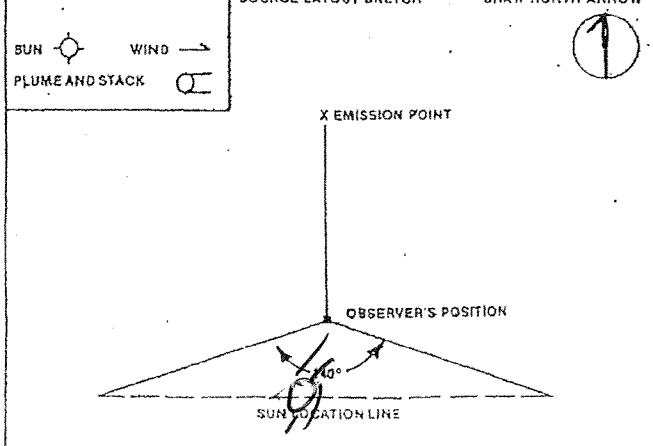
VERIFIED BY: State Of Tennessee (Singleton Smoke School) — DATE: 5/17/23

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny
WIND SPEED: START 0-05 STOP 0-05 | WIND DIRECTION: START NE STOP NE
AMBIENT TEMP.: START 88° STOP 88° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 9/30/23 | START TIME: 1:10 pm | STOP TIME: 1:28 PM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

OBSERVER'S NAME (PRINT): Tony Penny
OBSERVER'S SIGNATURE: Tony Penny | DATE: 9/30/23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/17/23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5/17/23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

OBSERVATION DATE: 10-1-23

START TIME: 2:15 PM

STOP TIME: 2:33 PM

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse (1) & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: — STOP: —

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10

WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 88° STOP 88°

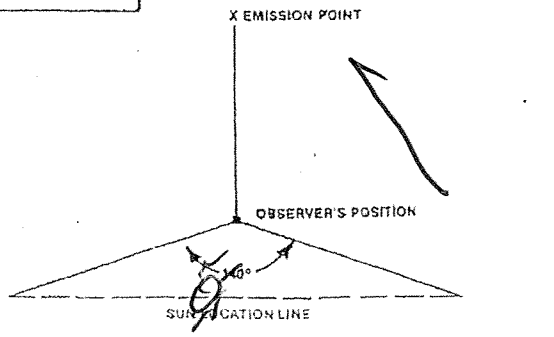
WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH

DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Pearl

OBSERVER'S SIGNATURE: [signature] DATE: 10-1-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School

DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

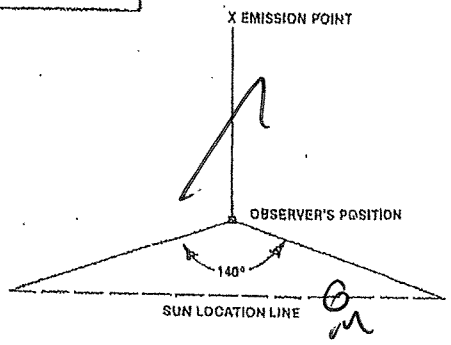
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 84 STOP 84 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH | DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-2-23 | START TIME: 11:30 Am | STOP TIME: 11:48 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 10-2-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

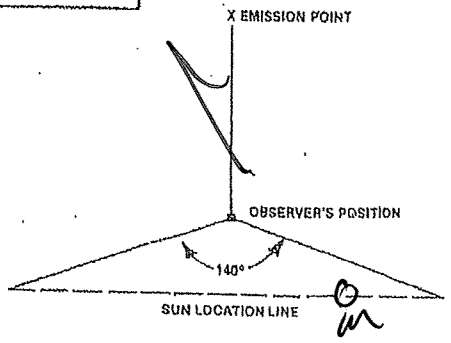
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-3-23 | START TIME: 10:55 Am | STOP TIME: 11:13 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 10-3-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

OBSERVATION DATE: 10-4-23

START TIME: 5:30 Am

STOP TIME: 5:48 AM

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15

WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 70 STOP 70

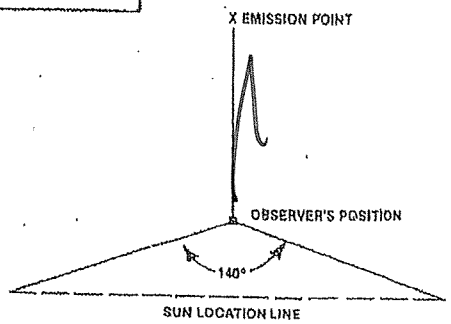
WET BULB TEMP.:

RH, percent

SOURCE LAYOUT SKETCH

SUN ☼ WIND → PLUME AND STACK ⊏

DRAW NORTH ARROW



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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE:

DATE: 10-4-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School

DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

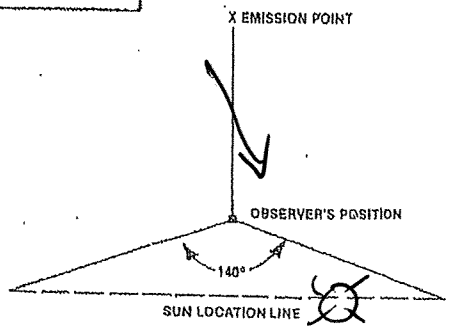
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 64 STOP 64 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-6-23 | START TIME: 7:50 Am | STOP TIME: 8:08 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 10-6-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

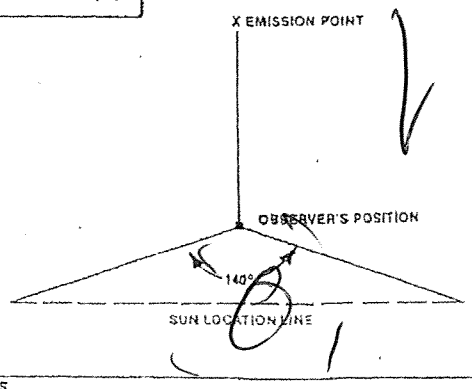
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT START	Outlet on top of Baghouse
DESCRIBE EMISSION POINT STOP	
HEIGHT ABOVE GROUND LEVEL START	76 ft
HEIGHT ABOVE GROUND LEVEL STOP	76 ft
HEIGHT RELATIVE TO OBSERVER START	76 ft
HEIGHT RELATIVE TO OBSERVER STOP	76 ft
DISTANCE FROM OBSERVER START	380 ft
DISTANCE FROM OBSERVER STOP	380 ft
DIRECTION FROM OBSERVER START	North
DIRECTION FROM OBSERVER STOP	North
DESCRIBE VISIBLE EMISSIONS START	—
DESCRIBE VISIBLE EMISSIONS STOP	—
EMISSION COLOR START	—
EMISSION COLOR STOP	—
IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐	
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START	Outlet (exit)
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED STOP	Outlet (exit)
DESCRIBE PLUME BACKGROUND START	Sky
DESCRIBE PLUME BACKGROUND STOP	Sky
BACKGROUND COLOR START	Blue
BACKGROUND COLOR STOP	Blue
SKY CONDITIONS START	Clear
SKY CONDITIONS STOP	Clear
WIND SPEED START	0-5
WIND SPEED STOP	0-5
WIND DIRECTION START	N
WIND DIRECTION STOP	N
AMBIENT TEMP. START	58°
AMBIENT TEMP. STOP	58°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	10-7-23
START TIME	9:50 am
STOP TIME	10:08 am

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APPLICABLE OPACITY STANDARD	3 % OPACITY
EPA METHOD 9	☒
TVEE METHOD 2	☐
TVEE METHOD 1	☐
TVEE METHOD 3	☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE % WERE	0
COMMENTS	
OBSERVER'S NAME (PRINT)	Mark Thompson
OBSERVER'S SIGNATURE	Mark Thompson
DATE	10-7-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE	11-23-23
VERIFIED BY	State Of Tennessee / Singleton Smoke School
DATE	5-23-23

CN-0841

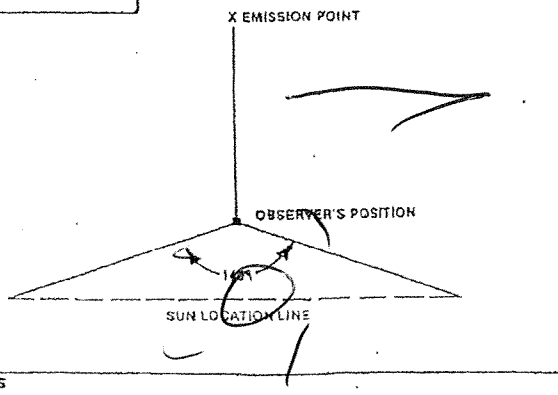
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 62° STOP 63° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-8-23 | START TIME: 7:50 am | STOP TIME: 8:08 am

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-8-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

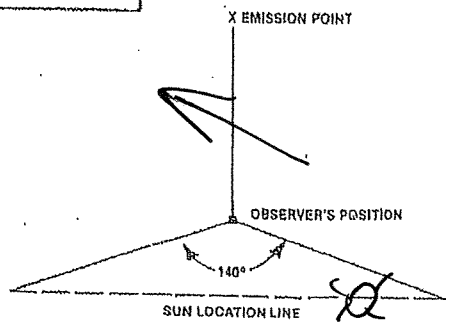
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 68 STOP 69 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 10-9-23 | START TIME: 9:55 AM | STOP TIME: 10:13 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 10-9-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

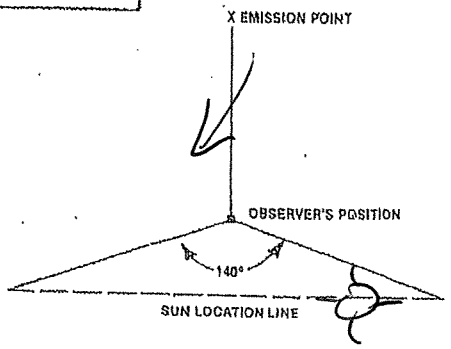
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 72 STOP 72 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-16-23 | START TIME: 12:10pm | STOP TIME: 12:28pm

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6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 10-10-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

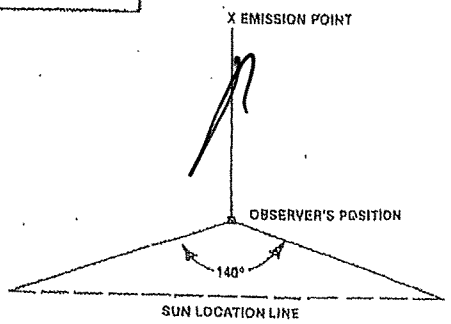
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 71 STOP 71 | WET BULB TEMP.: | RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-11-23 | START TIME: 1:20 pm | STOP TIME: 1:38pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE ~~ALLOWABLE~~: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Billy Coker

OBSERVER'S SIGNATURE: Billy Coker | DATE: 10-11-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

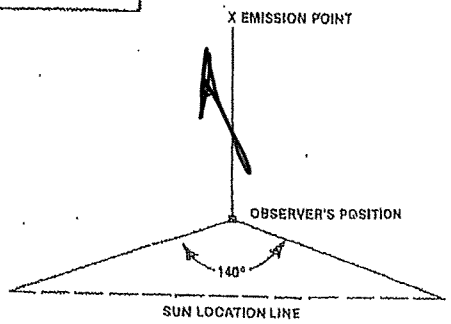
BACKGROUND COLOR: START Gray STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 69 STOP 69 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-13-23 | START TIME: 11:04AM | STOP TIME: 11:18AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 8

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 10-13-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 3-17-23

CN-0841

ENV-014-Rev.0

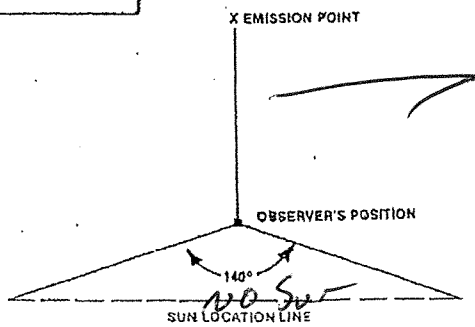
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse — STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 10-15 STOP 10-15
WIND DIRECTION	START W STOP W
AMBIENT TEMP.	START 60° STOP 60
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
10-14-23	8:20am	8:38a

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD	3 % OPACITY
EPA METHOD 9 ☒	TVEE METHOD 2 ☐
TVEE METHOD 1 ☐	TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE % WERE	0

COMMENTS	
OBSERVER'S NAME (PRINT)	Mark Thompson
OBSERVER'S SIGNATURE	Mark Thompson
DATE	10-14-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE	11-23-23
VERIFIED BY	State Of Tennessee / Singleton Smoke School
DATE	5-23-23

CN-0441

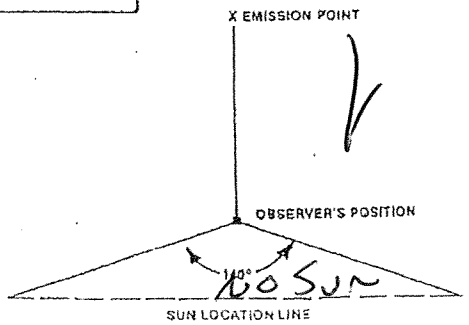
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 59 STOP 59 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-15-23 | START TIME: 11:50a | STOP TIME: 12:08p

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-15-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

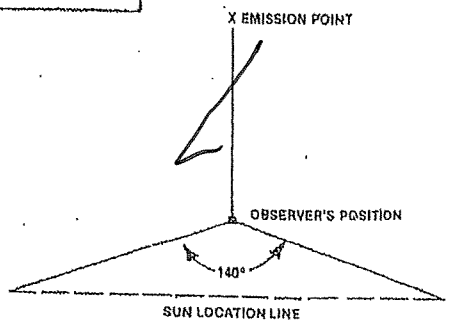
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 50 STOP 50 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-16-23 | START TIME: 9:40 Am | STOP TIME: 9:58 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 10-16-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

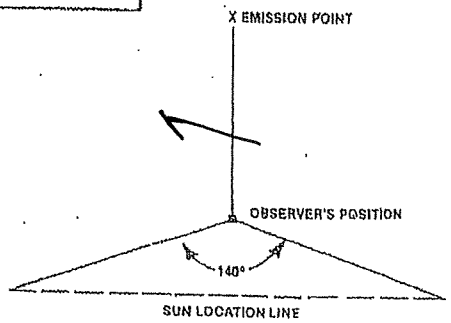
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 64 STOP 64 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-17-23 | START TIME: 12:10pm | STOP TIME: 12:28pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 10-17-23

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SIGNATURE | DATE

TITLE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

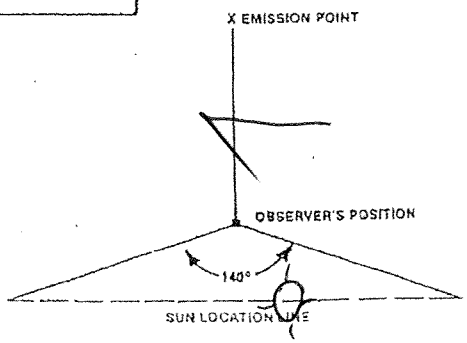
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 0-5 mph STOP 0-5 mph | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 60° STOP 60° | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 10/20/23 | START TIME: 9:10 AM | STOP TIME: 9:28 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek
OBSERVER'S SIGNATURE: Zachary Miller | DATE: 10/20/23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/17/23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5/17/23

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SIGNATURE | TITLE | DATE

CN-0841

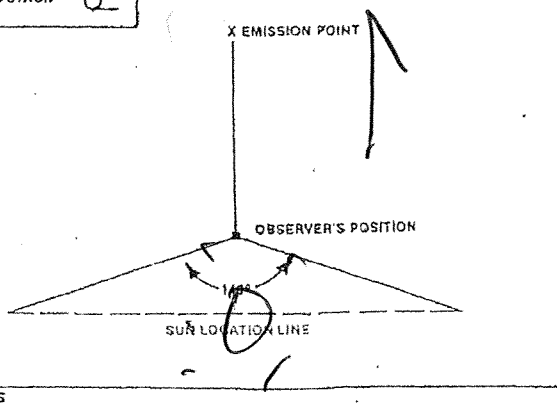
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START S STOP S
AMBIENT TEMP: START 73° STOP 73° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-21-23 | START TIME: 9:17a | STOP TIME: 9:35a

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-21-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

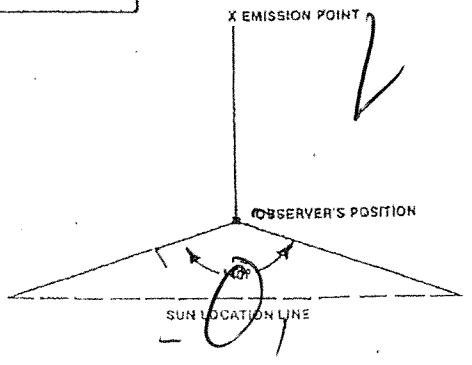
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 62° STOP 62° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-22-23 | START TIME: 8:37am | STOP TIME: 8:55am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS: 1

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-22-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

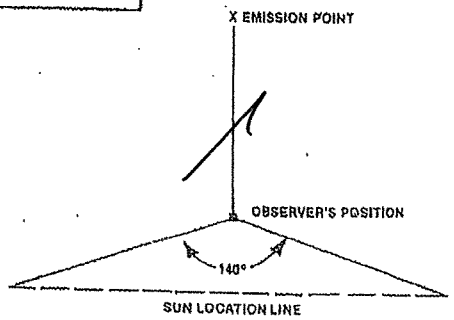
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 78 STOP 78 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 10-23-23 | START TIME: 1:55 pm | STOP TIME: 2:13pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: | DATE: 10-23-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

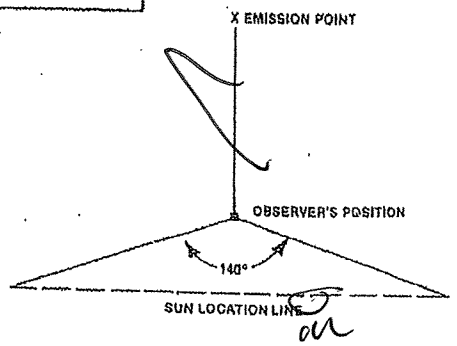
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 74 STOP 74 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 10/24/23 | START TIME: 12:00pm | STOP TIME: 12:18pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: Cody Reynolds | DATE: 10/24/23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

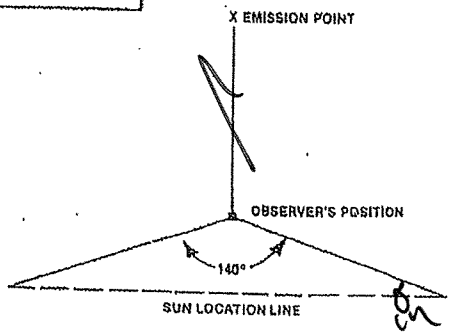
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 63 STOP 63 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



MIN \ SEC	0	15	30	45	COMMENTS
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OBSERVATION DATE: 10-25-03 | START TIME: 7:30 Am | STOP TIME: 7:48 Am

APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE: [signature] DATE: 10-25-03

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-03

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-03

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

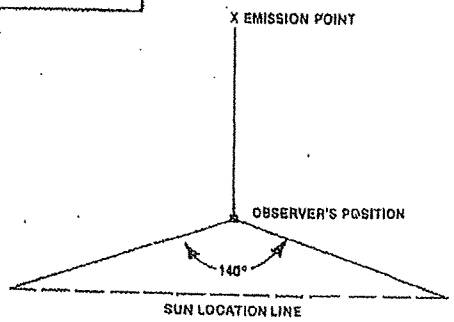
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
10-27-23	1:40 PM	1:58 PM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Carl Rhodes

OBSERVER'S SIGNATURE: [signature] DATE: 10-27-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

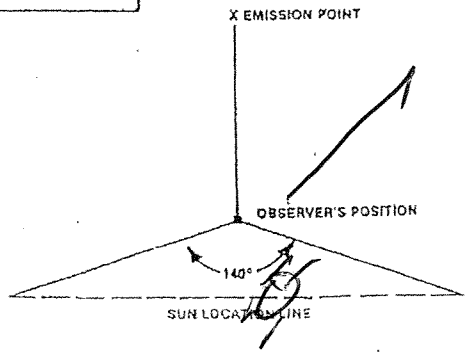
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC
WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START SW STOP SW
AMBIENT TEMP.: START 78° STOP 78° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-28-23 | START TIME: 10:20 AM | STOP TIME: 10:38 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Reavy
OBSERVER'S SIGNATURE: Tony Reavy | DATE: 10-28-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23
VERIFIED BY: State Of Tennessee, Singleton Smoke School | DATE: 5-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

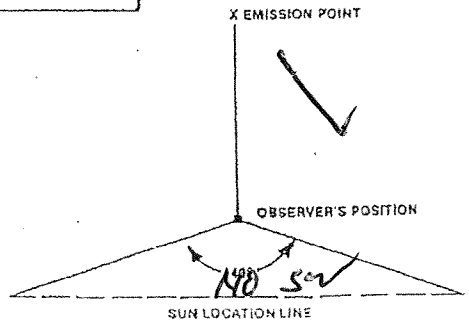
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
OBSERVATION DATE: 10-29-23
START TIME: 10:40 am
STOP TIME: 10:58 am
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson
STATE: TN
ZIP: 38305
PHONE: (731) 424-5600
SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace
OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2
OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP —
IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray
SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 5 to 10 STOP 5 to 10
WIND DIRECTION: START NW STOP NW
AMBIENT TEMP.: START 64° STOP 64°
WET BULB TEMP.:
RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS:
OBSERVER'S NAME (PRINT): Tony Pharr
OBSERVER'S SIGNATURE: [signature] DATE: 10-29-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE: DATE:
ORGANIZATION: Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE: 11-17-23
VERIFIED BY: State Of Tennessee / Singleton Smoke School DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

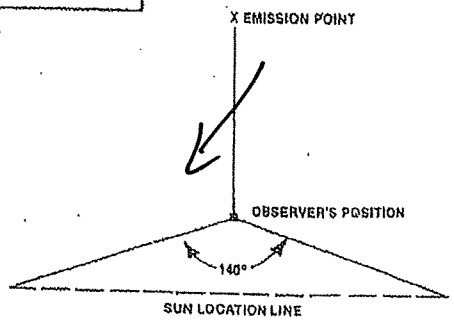
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 41 STOP 41 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 10-30-23 | START TIME: 7:30 AM | STOP TIME: 7:48 AM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Billy Coleman

OBSERVER'S SIGNATURE: [signature] DATE: 10-30-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

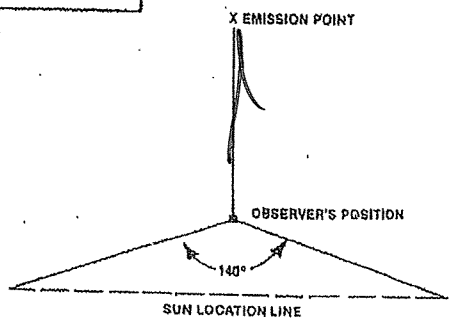
BACKGROUND COLOR: START Gry STOP Gry | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 30 STOP 30 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 10-31-23 | START TIME: 8:10 Am | STOP TIME: 8:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Sprouls

OBSERVER'S SIGNATURE: Cody Sprouls | DATE: 10-31-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

GN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

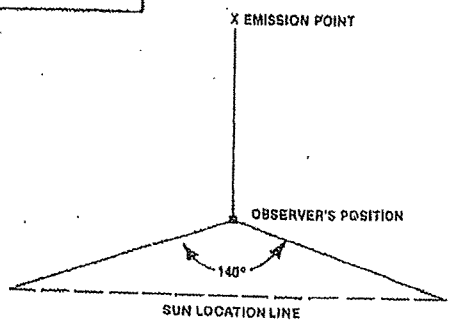
BACKGROUND COLOR: START Gry STOP Gry | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 05 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 40 STOP 40 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 11-1-23 | START TIME: 10:45 AM | STOP TIME: 11:03 AM

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 11-1-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

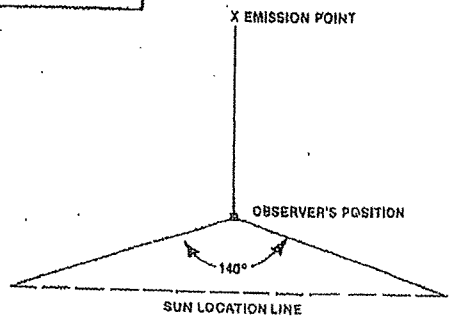
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 11-3-23 | START TIME: 9:40 Am | STOP TIME: 9:58 Am

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 11-3-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

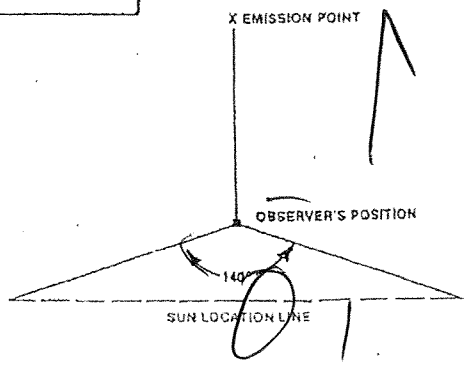
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S
AMBIENT TEMP.: START 63° STOP 63° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 11-4-23 | START TIME: 7:30am | STOP TIME: 7:48a

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS: 1

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 11-4-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

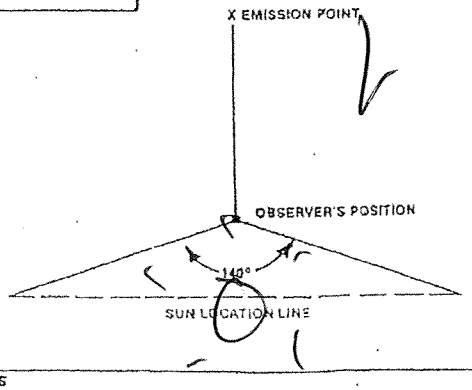
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 66° STOP 66° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 11-5-23 | START TIME: 7:30 am | STOP TIME: 7:48 am

MIN \ SEC	0	15	30	45	COMMENTS
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5	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE ~~%~~ WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 11-5-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

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SIGNATURE | TITLE | DATE

CN-0841

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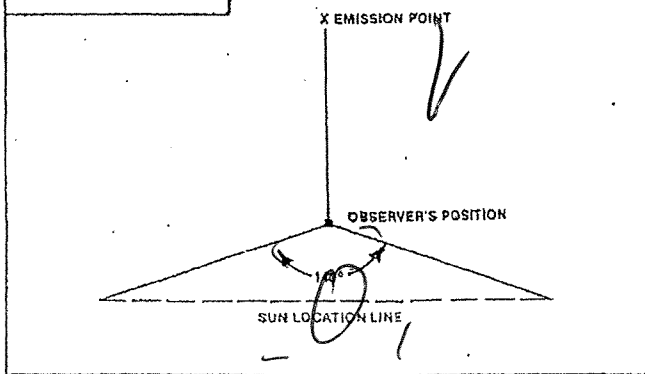
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Clear STOP Clear
WIND SPEED	START 5-10 STOP 5-10
WIND DIRECTION	START N STOP N
AMBIENT TEMP.	START 62° STOP 62°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE	START TIME	STOP TIME
11-18-23	8:42a	9:00a

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD	3 % OPACITY
EPA METHOD 9 ☒	TVEE METHOD 2 ☐
TVEE METHOD 1 ☐	TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE %WERE	0
COMMENTS	
OBSERVER'S NAME (PRINT)	Mark Thompson
OBSERVER'S SIGNATURE	Mark Thomp
DATE	11-18-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE	11-23-23
VERIFIED BY	State Of Tennessee / Singleton Smoke School
DATE	5-23-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

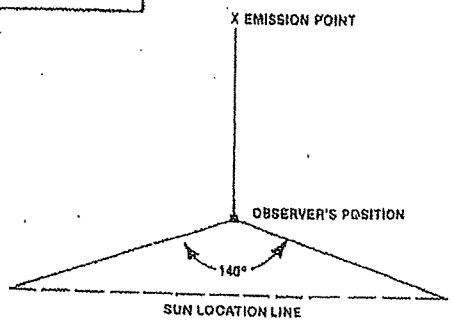
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 50 STOP 50 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 11/20/23 | START TIME: 9:12 Am | STOP TIME: 9:30 Am

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Rogers

OBSERVER'S SIGNATURE: | DATE: 11-20-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-1524

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 11-15-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

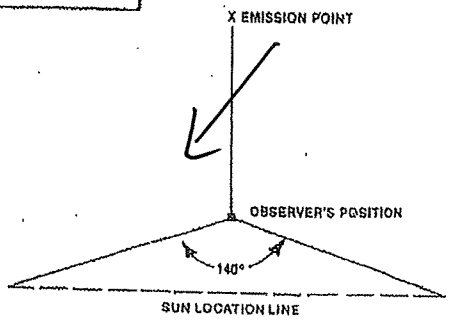
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 45 STOP 45 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 11-21-23 | START TIME: 7:20am | STOP TIME: 7:38am

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %: WERE 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: R Coleman | DATE: 11-21-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 11-20-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

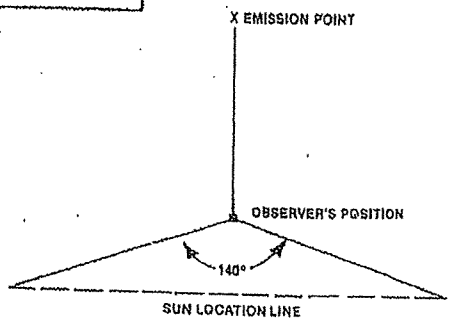
BACKGROUND COLOR: START Gry STOP Gry | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 42 STOP 42 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 11-22-23 | START TIME: 9:12 Am | STOP TIME: 9:30 Am

MIN \ SEC	0	15	30	45	COMMENTS
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4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE 0 %WERE

COMMENTS

OBSERVER'S NAME (PRINT): Coely Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 11-22-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 11-15-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

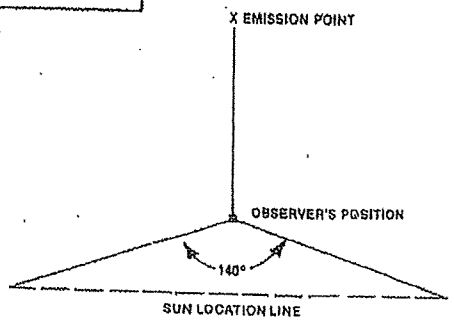
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 50 STOP 50 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
10-24-23	10:35 AM	10:53 AM

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE: [signature] | DATE: 11-24-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 11-15-23

CN-0841

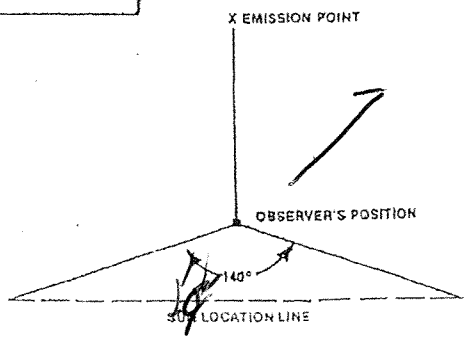
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START clear STOP clear
WIND SPEED	START 5 to 10 STOP 5 to 10
WIND DIRECTION	START NW STOP NW
AMBIENT TEMP.	START 53° STOP 53°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 11-25-23 — START TIME: 1:25 pm — STOP TIME: 1:43 pm

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY — EPA METHOD 9 ☒ — TVEE METHOD 2 ☐ — TVEE METHOD 1 ☐ — TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 — NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Penny

OBSERVER'S SIGNATURE: Tony Penny — DATE: 11-25-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) — DATE: 11-15-23

CN-0841

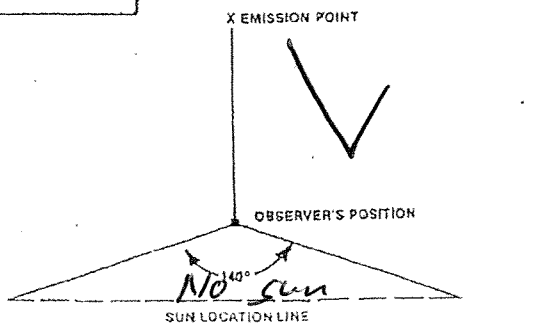
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP cloudy
WIND SPEED	START 5to10 STOP 5to10
WIND DIRECTION	START NW STOP NW
AMBIENT TEMP.	START 49° STOP 49°
WET BULB TEMP.	
RH, percent	

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 11-26-23 — START TIME: 1:30 pm — STOP TIME: 1:48 pm

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry — DATE: 11-26-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) — DATE: 11-15-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

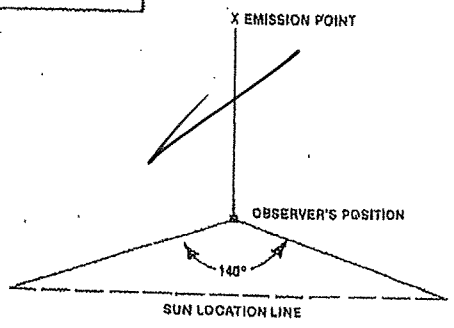
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 39 STOP 39 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 11-27-23 | START TIME: 10:10 AM | STOP TIME: 10:28 AM

MIN \ SEC	0	15	30	45	COMMENTS
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6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 11-27-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 11-20-23

ON-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

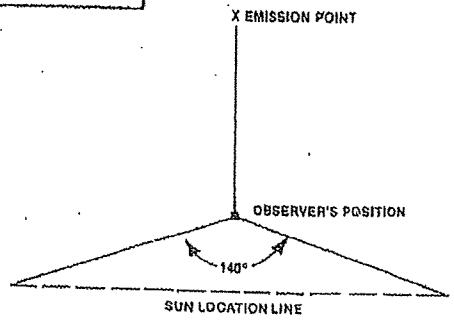
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 32 STOP 32 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
11/28/23	8:30 Am	8:48 Am

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: | DATE: 11-28-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 11-15-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

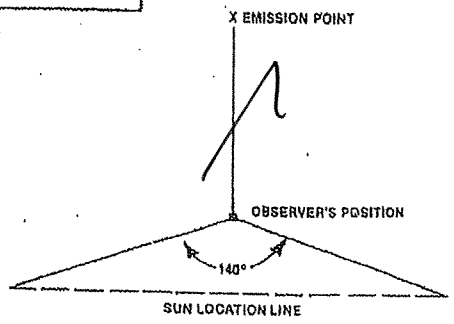
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 58 STOP 58 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE:

TITLE: | DATE:

OBSERVATION DATE: 12-29-23 | START TIME: 12:20 Pm | STOP TIME: 12:38 Pm

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Ryder

OBSERVER'S SIGNATURE: | DATE: 12-29-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 12-15-23

CN-0841

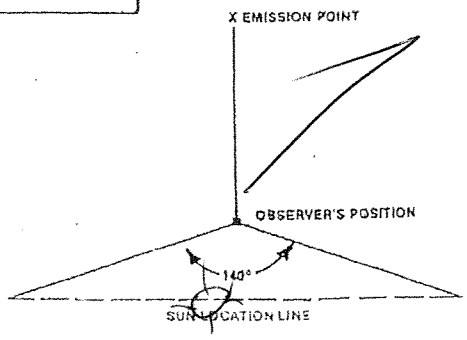
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 10-15 mph STOP 10-15 mph | WIND DIRECTION: START SW STOP SW
AMBIENT TEMP.: START 60° STOP 60° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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OBSERVATION DATE: 12/1/23 | START TIME: 1:30 PM | STOP TIME: 1:48 PM

APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek
OBSERVER'S SIGNATURE: Zachary Marek | DATE: 12/1/23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5/20/24
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 11/20/23

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SIGNATURE
TITLE | DATE

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

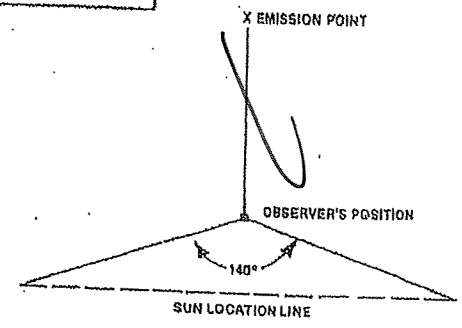
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 50 STOP 50 | WET BULB TEMP.: | RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-2-23 | START TIME: 9:50 Am | STOP TIME: 10:08 Am

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Reeves

OBSERVER'S SIGNATURE: [signature] DATE: 12-2-23

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SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

CN-0841

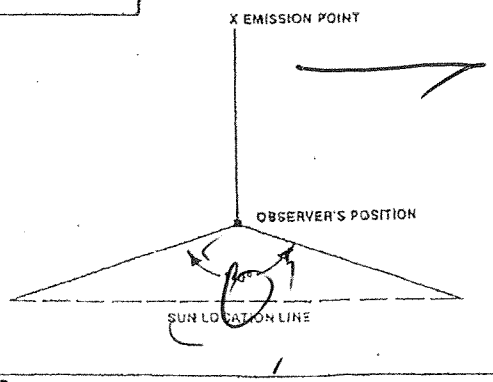
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 52° STOP 52° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 12-3-23 | START TIME: 10:40a | STOP TIME: 10:58a

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 12-3-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-24
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 11-20-23

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SIGNATURE
TITLE | DATE

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

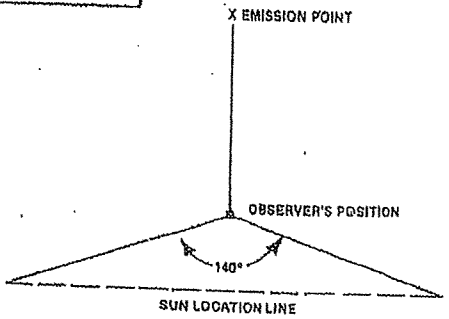
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 48 STOP 48 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

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SIGNATURE | TITLE | DATE

OBSERVATION DATE: 12-4-23 | START TIME: 11:50 AM | STOP TIME: 12:08 PM

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Rueda

OBSERVER'S SIGNATURE | DATE: 12-4-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

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DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

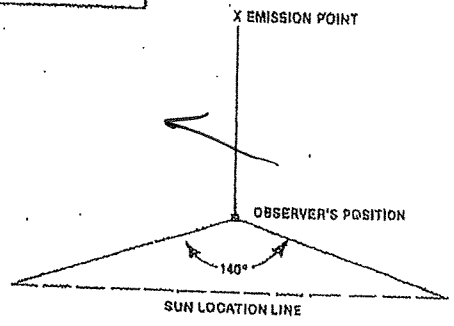
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 15-20 STOP 15-20 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 54 STOP 54 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-5-23 | START TIME: 11:40am | STOP TIME: 11:58am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %: WERE 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] | DATE: 12-5-23

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SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 05-20-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-20-23

CN-0841

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DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

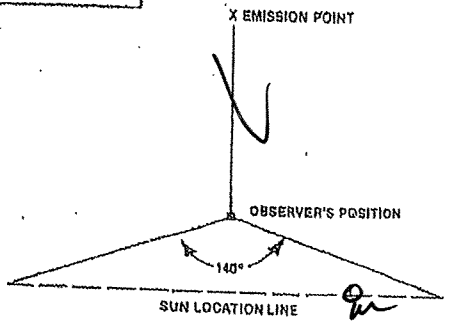
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 05 STOP 0-5 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 41 STOP 41 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

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SIGNATURE:

TITLE: | DATE:

OBSERVATION DATE: 12-6-23 | START TIME: 9:20 Am | STOP TIME: 9:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Fowlkes

OBSERVER'S SIGNATURE: | DATE: 12-6-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

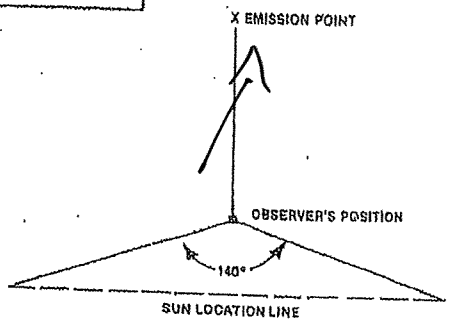
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 55 STOP 55 | WET BULB TEMP.: | RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ☇



OBSERVATION DATE	START TIME	STOP TIME
12-8-23	11:12AM	11:36AM

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] DATE: 12-8-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-20-23

CN-0841

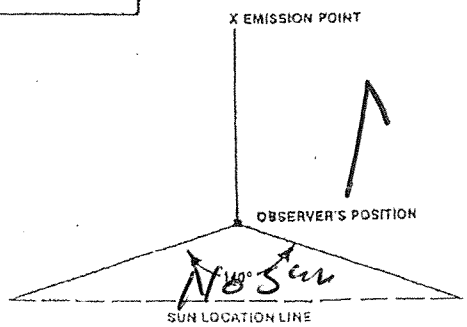
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT START	Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL START / STOP	76 ft / 76 ft
HEIGHT RELATIVE TO OBSERVER START / STOP	76 ft / 76 ft
DISTANCE FROM OBSERVER START / STOP	380 ft / 380 ft
DIRECTION FROM OBSERVER START / STOP	North / North
DESCRIBE VISIBLE EMISSIONS START / STOP	— / —
EMISSION COLOR START / STOP	— / —
IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐	
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START / STOP	Outlet (exit) / Outlet (exit)
DESCRIBE PLUME BACKGROUND START / STOP	Sky / Sky
BACKGROUND COLOR START / STOP	Gray / Gray
SKY CONDITIONS START / STOP	Cloudy / Cloudy
WIND SPEED START / STOP	5-10 / 5-10
WIND DIRECTION START / STOP	S / S
AMBIENT TEMP. START / STOP	63° / 62°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
12-9-23	8:15 AM	8:33 AM

SEC / MIN	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry — DATE: 12-9-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) — DATE: 11-15-23

CN-0841

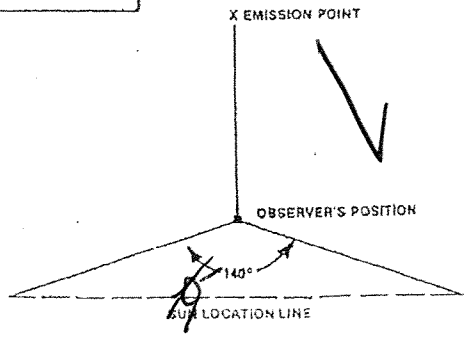
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny
WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START NW STOP NW
AMBIENT TEMP.: START 46° STOP 46° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-10-23 | START TIME: 1:50 PM | STOP TIME: 2:08 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry
OBSERVER'S SIGNATURE: [signature] DATE: 12-10-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24
VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 11-15-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

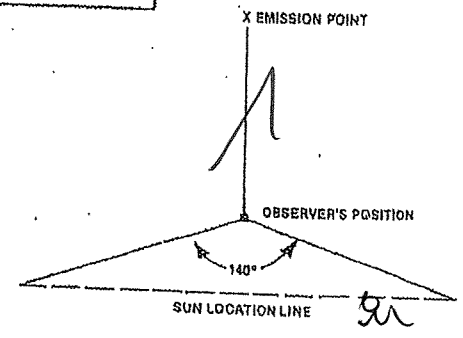
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 42 STOP 42 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
12-12-23	9:10 Am	9:28 Am

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] DATE: 12-12-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

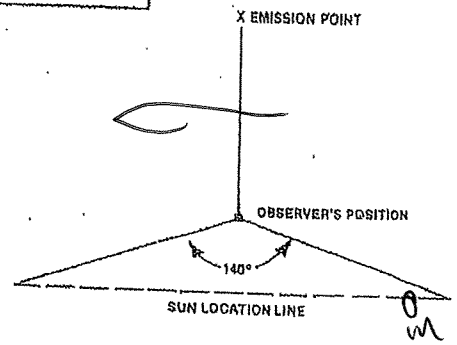
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 32 STOP 32 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
12-13-23	7:45 Am	8:02 Am

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] DATE: 12-13-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

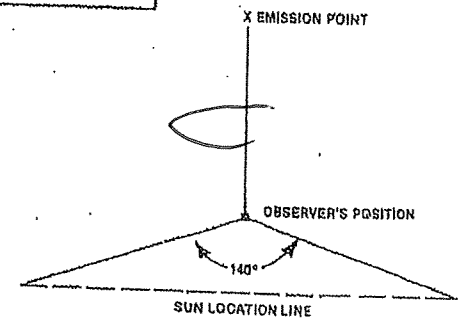
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 55 STOP 55 | WET BULB TEMP.: | RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
12-14-23	12:40 PM	12:58 PM

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: Cody Reynolds DATE: 12-14-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE: DATE:

ORGANIZATION: Gerdau AmeriSteel CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) DATE: 11-15-23

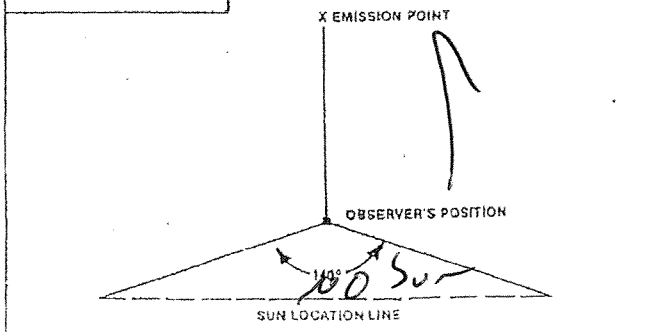
EN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S
AMBIENT TEMP.: START 53° STOP 53° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 12-16-23 | START TIME: 9:00 am | STOP TIME: 9:18 am

SEC / MIN	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 12-16-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-24
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-20-23

CN-0841

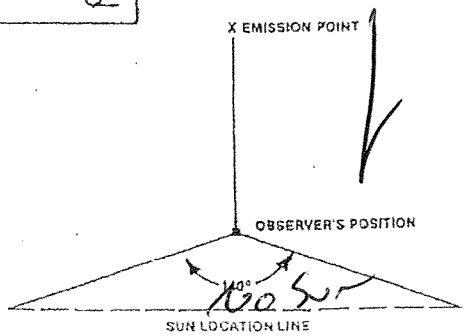
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 50° STOP 50° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 12-17-23 | START TIME: 11:40a | STOP TIME: 11:58a

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE ALLOWABLE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 12-17-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-24
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-20-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE

CN-0841

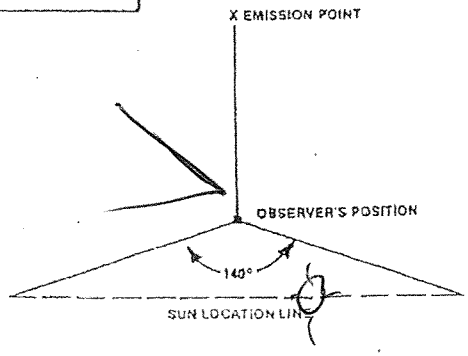
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny
WIND SPEED: START 10-15 kph STOP 10-15 kph | WIND DIRECTION: START NW STOP NW
AMBIENT TEMP.: START 44° STOP 44° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12/15/23 | START TIME: 10:00 AM | STOP TIME: 10:18 AM

SEC / MIN	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek
OBSERVER'S SIGNATURE: Zach Marek | DATE: 12/18/23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5/20/24
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11/20/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

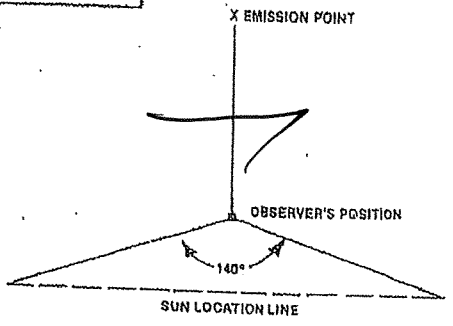
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PCloudy STOP PCloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 34 STOP 34 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 12-19-23 | START TIME: 10:20AM | STOP TIME: 10:38AM

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19					
20					
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28					
29					
30					

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 12-19-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-20-23

EN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

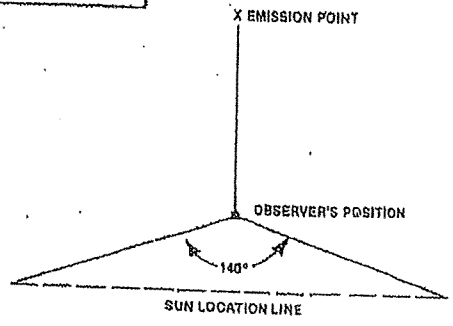
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
12-20-23	10:20 Am	10:35 Am

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
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30					

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: | DATE: 12-20-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 05-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

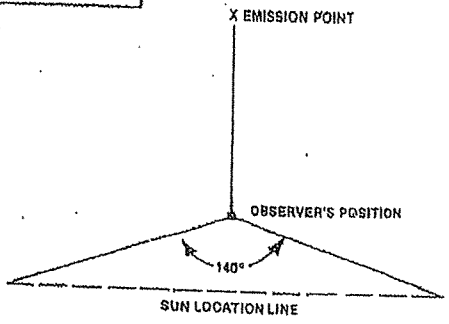
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 50 STOP 50 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
12-21-23	10:30 am	10:46 pm

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 12-21-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse (1) & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

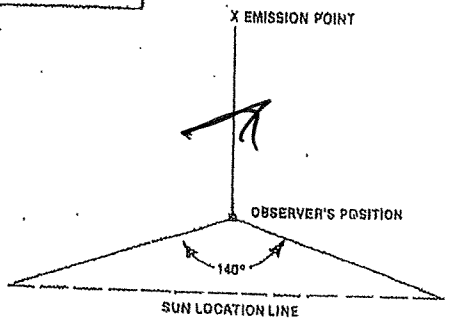
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP: START 35 STOP 35 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-22-23 | START TIME: 7:35am | STOP TIME: 7:53am

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 12-22-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-20-23

CN-0841

ENV-014-Rev.0

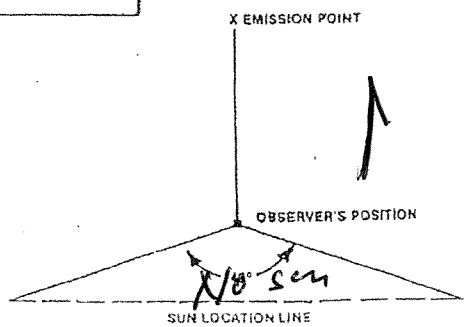
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse (1) & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT START	Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL START / STOP	76 ft / 76 ft
HEIGHT RELATIVE TO OBSERVER START / STOP	76 ft / 76 ft
DISTANCE FROM OBSERVER START / STOP	380 ft / 380 ft
DIRECTION FROM OBSERVER START / STOP	North / North
DESCRIBE VISIBLE EMISSIONS START / STOP	— / —
EMISSION COLOR START / STOP	— / —
IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐	
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START / STOP	Outlet (exit) / Outlet (exit)
DESCRIBE PLUME BACKGROUND START / STOP	Sky / Sky
BACKGROUND COLOR START / STOP	Gray / Gray
SKY CONDITIONS START / STOP	Cloudy / Cloudy
WIND SPEED START / STOP	5 to 10 / 5 to 10
WIND DIRECTION START / STOP	S / S
AMBIENT TEMP. START / STOP	63° / 63°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
12-23-23	1:40 PM	1:58 PM

SEC / MIN	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
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30					

APPLICABLE OPACITY STANDARD: 3 % OPACITY — EPA METHOD 9 ☒ — TVEE METHOD 2 ☐ — TVEE METHOD 1 ☐ — TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 — NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry — DATE: 12-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 5-17-24

VERIFIED BY: State Of Tennessee / Singleton Smoke School — DATE: 11-17-23

CN-0841

Log 9
Log of Opacity Observations for Source 02 for Compliance Purposes
Outlet Baghouse 2

	Date	Time Start	Time Stop	Read By	Mode of Operation	Sky Conditions	Wind MPH	6Min Avg	Prod. Day	Comments
x	1-Jul-23	12:10 PM	12:28 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	2-Jul-23	09:22 AM	09:40 AM	MT	Melting	Clear	10-15	0.00%	1	
x	3-Jul-23	04:00 PM	04:18 PM	CR	Melting	Clear	5-10	0.00%	1	
x	4-Jul-23	09:00 AM	09:18 AM	CR	Melting	Cloudy	0-5	0.00%	1	
x	5-Jul-23	07:20 AM	07:38 AM	CR	Melting	P.Cloudy	0-5	0.00%	1	
	6-Jul-23								1	No Daylight Operations
x	7-Jul-23	10:50 AM	11:08 AM	RC	Melting	Cloudy	0-5	0.00%	1	
x	8-Jul-23	01:00 PM	01:18 PM	TP	Melting	Cloudy	5-10	0.00%	1	
x	9-Jul-23	02:10 PM	02:28 PM	TP	Melting	Cloudy	6	0.00%	1	
x	10-Jul-23	11:20 AM	11:38 AM	CR	Melting	P.Cloudy	5-10	0.00%	1	
x	11-Jul-23	12:00 PM	12:18 PM	CR	Melting	P.Cloudy	0-5	0.00%	1	
x	12-Jul-23	01:20 PM	01:38 PM	RC	Melting	P.Cloudy	0-5	0.00%	1	
	13-Jul-23								1	No Daylight Operations
x	14-Jul-23	08:20 AM	08:38 AM	ZM	Melting	Cloudy	0-5	0.00%	1	
x	15-Jul-23	01:20 PM	01:38 PM	MT	Melting	Cloudy	10-15	0.00%	1	
x	16-Jul-23	07:10 AM	07:28 AM	MT	Melting	Clear	0-5	0.00%	1	
x	17-Jul-23	01:25 PM	01:43 PM	RC	Melting	Sunny	5-10	0.00%	1	
x	18-Jul-23	09:40 AM	09:58 AM	RC	Melting	P.Cloudy	5-10	0.00%	1	
	19-Jul-23								0	No Production
x	20-Jul-23	12:00 PM	12:18 PM	RC	Melting	Cloudy	10-15	0.00%	1	
x	21-Jul-23	08:20 AM	08:38 AM	RC	Melting	Cloudy	0-5	0.00%	1	
x	22-Jul-23	01:30 PM	01:48 PM	TP	Melting	Clear	5-10	0.00%	1	
x	23-Jul-23	11:30 AM	11:48 AM	TP	Melting	Clear	0-5	0.00%	1	
x	24-Jul-23	12:20 PM	12:38 PM	RC	Melting	Sunny	5-10	0.00%	1	
x	25-Jul-23	09:30 AM	09:48 AM	CR	Melting	Clear	5-10	0.00%	1	
x	26-Jul-23	11:50 AM	12:08 AM	CR	Melting	Overcast	5-10	0.00%	1	
	27-Jul-23								0	No Production
	28-Jul-23								0	No Production
x	29-Jul-23	06:35 PM	06:53 PM	BK	Melting	Sunny	5-10	0.00%	1	
	30-Jul-23								1	No Daylight Operations
x	31-Jul-23	09:40 AM	09:58 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	1-Aug-23	12:10 PM	12:28 PM	RC	Melting	P.Cloudy	0-5	0.00%	1	
x	2-Aug-23	11:50 AM	12:08 PM	CR	Melting	Rain	0-5	0.00%	1	
	3-Aug-23								1	No Daylight Operations
x	4-Aug-23	12:00 PM	12:18 PM	CR	Melting	Rain	0-5	0.00%	1	
x	5-Aug-23	01:00 PM	01:18 PM	TP	Melting	Clear	5-10	0.00%	1	
x	6-Aug-23	12:30 PM	12:48 PM	TP	Melting	Clear	5-10	0.00%	1	
x	7-Aug-23	12:55 PM	01:13 PM	RC	Melting	P.Cloudy	10-15	0.00%	1	
x	8-Aug-23	08:10 AM	08:28 AM	CR	Melting	Overcast	0-5	0.00%	1	
x	9-Aug-23	09:00 AM	09:18 AM	CR	Melting	Rain	5-10	0.00%	1	
	10-Aug-23								0	No Production
x	11-Aug-23	02:50 PM	03:08 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	12-Aug-23	12:50 PM	01:08 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	13-Aug-23	12:35 PM	12:53 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	14-Aug-23	07:00 AM	07:18 AM	CR	Melting	Rain	5-10	0.00%	1	
x	15-Aug-23	09:30 AM	09:48 AM	CR	Melting	Sunny	5-10	0.00%	1	
x	16-Aug-23	08:20 AM	08:38 AM	CR	Melting	Sunny	0-5	0.00%	1	
	17-Aug-23								0	No Production
x	18-Aug-23	10:20 AM	10:38 AM	CR	Melting	Sunny	5-10	0.00%	1	
x	19-Aug-23	01:05 PM	01:23 PM	TP	Melting	Clear	0-5	0.00%	1	
x	20-Aug-23	03:20 PM	03:38 PM	TP	Melting	Sunny	5-10	0.00%	1	
x	21-Aug-23	08:40 AM	08:58 AM	RC	Melting	Sunny	0-5	0.00%	1	
x	22-Aug-23	10:40 AM	10:58 AM	CR	Melting	Clear	0-5	0.00%	1	
x	23-Aug-23	07:20 AM	07:38 AM	RC	Melting	Sunny	0-5	0.00%	1	
	24-Aug-23								1	No Daylight Operations
x	25-Aug-23	07:50 AM	08:08 AM	ZM	Melting	Sunny	0-5	0.00%	1	
x	26-Aug-23	07:37 AM	07:55 AM	MT	Melting	Clear	0-5	0.00%	1	
x	27-Aug-23	09:10 AM	09:28 AM	MT	Melting	Cloudy	0-5	0.00%	1	
x	28-Aug-23	10:40 AM	10:58 AM	CR	Melting	Cloudy	10-15	0.00%	1	
x	29-Aug-23	08:40 AM	08:58 AM	CR	Melting	Overcast	0-5	0.00%	1	
x	30-Aug-23	10:30 AM	10:48 AM	CR	Melting	Sunny	10-15	0.00%	1	
	31-Aug-23								1	No Daylight Operations
x	1-Sep-23	09:20 AM	09:38 AM	CR	Melting	Clear	0-5	0.00%	1	
x	2-Sep-23	02:10 PM	02:28 PM	TP	Melting	Sunny	5-10	0.00%	1	
x	3-Sep-23	01:30 PM	01:48 PM	TP	Melting	Sunny	5-10	0.00%	1	
	4-Sep-23								0	No Production
	5-Sep-23								0	No Production
	6-Sep-23								1	No Daylight Operations
x	7-Sep-23	09:00 AM	09:18 AM	CR	Melting	Clear	5-10	0.00%	1	
x	8-Sep-23	08:10 AM	08:28 AM	ZM	Melting	Cloudy	0-5	0.00%	1	
x	9-Sep-23	09:20 AM	09:38 AM	MT	Melting	Clear	5-10	0.00%	1	
x	10-Sep-23	08:30 AM	08:48 AM	MT	Melting	Clear	5-10	0.00%	1	
x	11-Sep-23	10:45 AM	11:03 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	12-Sep-23	09:40 AM	09:58 AM	CR	Melting	Overcast	5-10	0.00%	1	
x	13-Sep-23	09:00 AM	09:18 AM	CR	Melting	Sunny	5-10	0.00%	1	
	14-Sep-23								1	No Daylight Operations
x	15-Sep-23	08:05 AM	08:23 AM	CR	Melting	Cloudy	5-10	0.00%	1	
x	16-Sep-23	08:32 AM	08:50 AM	MT	Melting	Clear	0-5	0.00%	1	
x	17-Sep-23	08:15 AM	08:33 AM	MT	Melting	Clear	0-5	0.00%	1	
x	18-Sep-23	09:10 AM	09:28 AM	CR	Melting	Cloudy	5-10	0.00%	1	
x	19-Sep-23	09:30 AM	09:48 AM	ZM	Melting	Sunny	0-5	0.00%	1	
x	20-Sep-23	11:20 AM	11:38 AM	CR	Melting	Sunny	0-5	0.00%	1	
	21-Sep-23								1	No Daylight Operations
x	22-Sep-23	07:20 AM	07:38 AM	CR	Melting	Overcast	0-5	0.00%	1	
x	23-Sep-23	09:22 AM	09:40 AM	MT	Melting	Clear	0-5	0.00%	1	
x	24-Sep-23	09:27 AM	09:45 AM	MT	Melting	Clear	5-10	0.00%	1	
x	25-Sep-23	11:20 AM	11:38 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	26-Sep-23	09:55 AM	10:13 AM	RC	Melting	P.Cloudy	0-5	0.00%	1	
x	27-Sep-23	09:30 AM	09:48 AM	CR	Melting	Sunny	5-10	0.00%	1	
	28-Sep-23								1	No Daylight Operations
x	29-Sep-23	11:10 AM	11:28 AM	ZM	Melting	Sunny	0-5	0.00%	1	
x	30-Sep-23	01:10 PM	01:28 PM	TP	Melting	Sunny	0-5	0.00%	1	
75									85	

75 reading/85 production days - 100% production days monitored
10 - No Daylight Production
0 - No normal continuous run-maintenance issues on startup

This content is Internal.

Log 9
Log of Opacity Observations for Source 02 for Compliance Purposes
Outlet Baghouse 2

	Date	Time Start	Time Stop	Read By	Mode of Operation	Sky Conditions	Wind MPH	6Min Avg	Prod. Day	Comments
x	1-Oct-23	02:15 PM	02:33 PM	TP	Melting	Sunny	5-10	0.00%	1	
x	2-Oct-23	11:30 AM	11:48 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	3-Oct-23	10:55 AM	11:13 AM	CR	Melting	Clear	5-10	0.00%	1	
x	4-Oct-23	09:30 AM	09:48 AM	CR	Melting	Cloudy	10-15	0.00%	1	
	5-Oct-23								1	No Daylight Operations
x	6-Oct-23	07:50 AM	08:08 AM	RC	Melting	Sunny	5-10	0.00%	1	
x	7-Oct-23	09:50 AM	10:08 AM	MT	Melting	Clear	0-5	0.00%	1	
x	8-Oct-23	07:50 AM	08:08 AM	MT	Melting	Clear	5-10	0.00%	1	
x	9-Oct-23	09:55 AM	10:13 AM	RC	Melting	Sunny	10-15	0.00%	1	
x	10-Oct-23	12:10 PM	12:28 PM	RC	Melting	Sunny	5-10	0.00%	1	
x	11-Oct-23	01:20 PM	01:38 PM	RC	Melting	Cloudy	0-5	0.00%	1	
	12-Oct-23								1	No Daylight Operations
x	13-Oct-23	11:00 AM	11:18 AM	RC	Melting	Cloudy	5-10	0.00%	1	
x	14-Oct-23	08:20 AM	08:38 AM	MT	Melting	Cloudy	10-15	0.00%	1	
x	15-Oct-23	11:50 AM	12:08 PM	MT	Melting	Cloudy	10-15	0.00%	1	
x	16-Oct-23	09:40 AM	09:58 AM	CR	Melting	Cloudy	10-15	0.00%	1	
x	17-Oct-23	12:10 PM	12:28 PM	RC	Melting	Sunny	0-5	0.00%	1	
	18-Oct-23								0	No Production
	19-Oct-23								1	No Daylight Operations
x	20-Oct-23	09:10 AM	09:28 AM	ZM	Melting	Clear	0-5	0.00%	1	
x	21-Oct-23	09:17 AM	09:35 AM	MT	Melting	Clear	10-15	0.00%	1	
x	22-Oct-23	08:37 AM	08:55 AM	MT	Melting	Clear	0-5	0.00%	1	
x	23-Oct-23	01:55 PM	02:13 PM	RC	Melting	Sunny	0-5	0.00%	1	
x	24-Oct-23	12:00 PM	12:18 PM	CR	Melting	Sunny	5-10	0.00%	1	
x	25-Oct-23	07:30 AM	07:48 AM	CR	Melting	Clear	5-10	0.00%	1	
	26-Oct-23								0	No Production
x	27-Oct-23	01:40 PM	01:58 PM	CR	Melting	Rain	5-10	0.00%	1	
x	28-Oct-23	10:20 AM	10:38 AM	TP	Melting	P. Cloudy	5-10	0.00%	1	
x	29-Oct-23	10:40 AM	10:58 AM	TP	Melting	Cloudy	5-10	0.00%	1	
x	30-Oct-23	07:30 AM	07:48 AM	RC	Melting	Cloudy	10-15	0.00%	1	
x	31-Oct-23	08:10 AM	08:28 AM	CR	Melting	Cloudy	0-5	0.00%	1	
x	1-Nov-23	10:45 AM	11:03 AM	CR	Melting	Cloudy	0-5	0.00%	1	
	2-Nov-23								1	No Daylight Operations
x	3-Nov-23	09:40 AM	09:58 AM	CR	Melting	Overcast	10-15	0.00%	1	
x	4-Nov-23	07:30 AM	07:48 AM	MT	Melting	Clear	5-10	0.00%	1	
x	5-Nov-23	07:30 AM	07:48 AM	MT	Melting	Clear	0-5	0.00%	1	
	6-Nov-23								0	Outage
	7-Nov-23								0	Outage
	8-Nov-23								0	Outage
	9-Nov-23								0	Outage
	10-Nov-23								0	Outage
	11-Nov-23								0	Outage
	12-Nov-23								0	Outage
	13-Nov-23								0	Outage
	14-Nov-23								0	Outage
	15-Nov-23								0	Outage
	16-Nov-23								0	Outage
	17-Nov-23								0	Outage
x	18-Nov-23	08:42 AM	09:00 AM	MT	Melting	Clear	5-10	0.00%	1	
	19-Nov-23								0	No Production
x	20-Nov-23	09:12 AM	09:20 AM	CR	Melting	Rain	5-10	0.00%	1	
x	21-Nov-23	07:20 AM	07:38 AM	RC	Melting	Cloudy	10-15	0.00%	1	
x	22-Nov-23	09:12 AM	09:30 AM	CR	Melting	Overcast	5-10	0.00%	1	
	23-Nov-23								0	No Production
x	24-Nov-23	10:35 AM	10:53 AM	CR	Melting	Cloudy	5-10	0.00%	1	
x	25-Nov-23	01:25 PM	01:43 PM	TP	Melting	Clear	5-10	0.00%	1	
x	26-Nov-23	01:30 PM	01:48 PM	TP	Melting	Cloudy	5-10	0.00%	1	
x	27-Nov-23	10:10 AM	10:28 AM	RC	Melting	Cloudy	5-10	0.00%	1	
x	28-Nov-23	08:30 AM	08:48 AM	CR	Melting	P. Cloudy	5-10	0.00%	1	
x	29-Nov-23	12:20 PM	12:38 PM	CR	Melting	Clear	10-15	0.00%	1	
	30-Nov-23								1	No Daylight Operations
x	1-Dec-23	01:30 PM	01:48 PM	ZM	Melting	Cloudy	10-15	0.00%	1	
x	2-Dec-23	09:50 AM	10:08 AM	CR	Melting	Clear	5-10	0.00%	1	
x	3-Dec-23	10:40 AM	10:58 AM	MT	Melting	Clear	0-5	0.00%	1	
x	4-Dec-23	11:50 AM	12:08 PM	CR	Melting	Cloudy	10-15	0.00%	1	
x	5-Dec-23	11:40 AM	11:58 AM	RC	Melting	Sunny	15-20	0.00%	1	
x	6-Dec-23	09:20 AM	09:38 AM	CR	Melting	Sunny	0-5	0.00%	1	
	7-Dec-23								1	No Daylight Operations
x	8-Dec-23	11:12 AM	11:30 AM	RC	Melting	Cloudy	10-15	0.00%	1	
x	9-Dec-23	08:15 AM	08:33 AM	TP	Melting	Cloudy	5-10	0.00%	1	
x	10-Dec-23	01:50 PM	02:08 PM	TP	Melting	Sunny	5-10	0.00%	1	
	11-Dec-23								1	No Daylight Operations
x	12-Dec-23	09:10 AM	09:28 AM	CR	Melting	Clear	0-5	0.00%	1	
x	13-Dec-23	07:45 AM	08:03 AM	CR	Melting	Clear	5-10	0.00%	1	
x	14-Dec-23	12:40 PM	12:58 PM	CR	Melting	Clear	5-10	0.00%	1	
	15-Dec-23								1	No Daylight Operations
x	16-Dec-23	09:00 AM	09:18 AM	MT	Melting	Cloudy	5-10	0.00%	1	
x	17-Dec-23	11:40 AM	11:58 AM	MT	Melting	Cloudy	5-10	0.00%	1	
x	18-Dec-23	10:00 AM	10:18 AM	ZM	Melting	Sunny	10-15	0.00%	1	
x	19-Dec-23	10:20 AM	10:38 AM	RC	Melting	P. Cloudy	5-10	0.00%	1	
x	20-Dec-23	10:20 AM	10:38 AM	CR	Melting	Overcast	5-10	0.00%	1	
x	21-Dec-23	10:30 AM	10:48 AM	CR	Melting	Clear	5-10	0.00%	1	
x	22-Dec-23	07:35 AM	07:53 AM	RC	Melting	Sunny	0-5	0.00%	1	
x	23-Dec-23	01:40 PM	01:58 PM	TP	Melting	Cloudy	5-10	0.00%	1	
	24-Dec-23								0	No Production
	25-Dec-23								0	No Production
	26-Dec-23								0	No Production
	27-Dec-23								0	No Production
	28-Dec-23								0	No Production
	29-Dec-23								0	No Production
	30-Dec-23								0	No Production
	31-Dec-23								0	No Production
60									68	

60 reading/68 production days - 100% production days monitored
8 - No Daylight Production
0 - No normal continuous run-maintenance issues throughout day

This content is Internal.

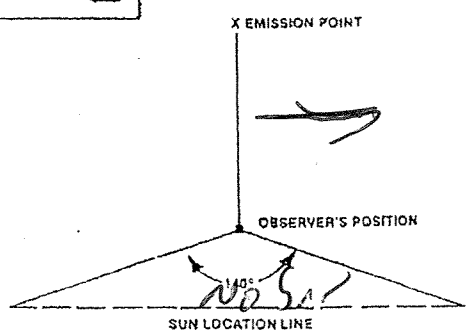
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~STOP~~
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 82° STOP 82° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-1-23 | START TIME: 12:10 pm | STOP TIME: 12:28 pm

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 7-1-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

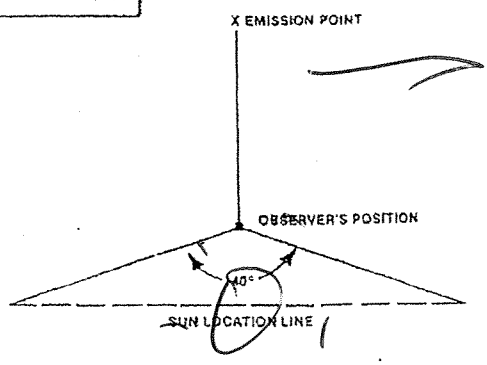
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START W STOP W
AMBIENT TEMP: START 88° STOP 88° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-2-23 | START TIME: 9:22a | STOP TIME: 9:40a

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS:
OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thomp | DATE: 7-2-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

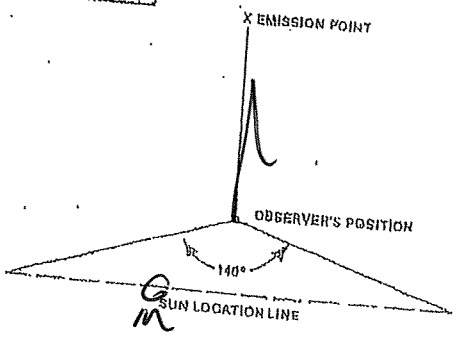
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 90 STOP 90 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

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SIGNATURE | TITLE | DATE

OBSERVATION DATE: 7-3-23 | START TIME: 4:00 pm | STOP TIME: 4:18 pm

MIN \ SEC	0	15	30	45
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Ryckels

OBSERVER'S SIGNATURE:

ORGANIZATION: Gerdau AmeriSteel | DATE: 7-3-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | CERTIFICATION EXPIRATION DATE: 11-30-23

DATE: 5-22-23

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloud STOP Cloudy

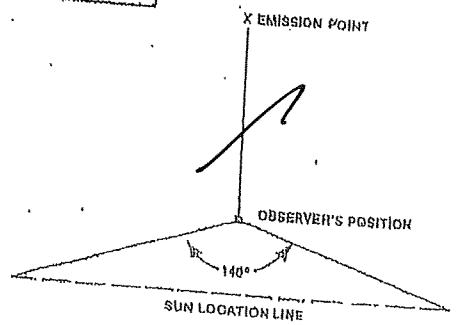
WIND SPEED: START 0-5 STOP | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND ⟶

PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
7-4-23	9:00 Am	9:18 Am

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 7-4-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

ENV-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

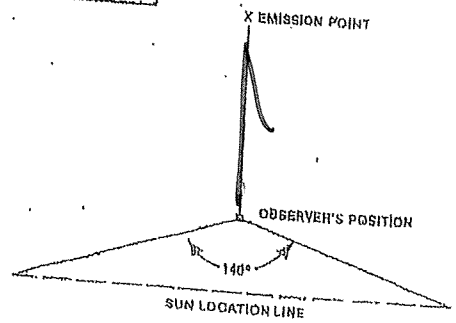
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 6-5 STOP 6-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 7-5-23 | START TIME: 7:30 Am | STOP TIME: 7:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 7-5-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

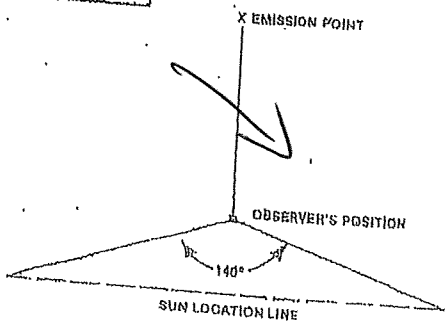
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 83 STOP 83 | WET BULB TEMP. | RH, Percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-7-23	START TIME: 10:50AM	STOP TIME: 11:08AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 7-7-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee, Singleton Smoke School | DATE: 5-17-23

EN-0041

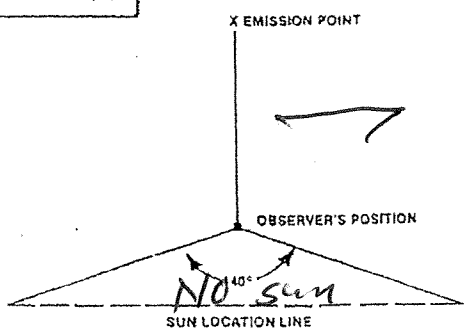
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse 1 & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 5to10 STOP 5to10
WIND DIRECTION	START W STOP W
AMBIENT TEMP.	START 88° STOP 88°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
7/8/23	1:00 PM	1:18 PM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: [signature] DATE: 7/8/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

DATE: 5/17/23

CN-0941

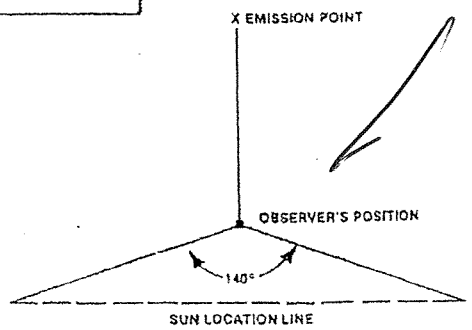
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 6 mi/H STOP 6 mi/H | WIND DIRECTION: START NE STOP NE
AMBIENT TEMP.: START 73° STOP 73° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7/9/23 | START TIME: 2:10 PM | STOP TIME: 2:28 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry
OBSERVER'S SIGNATURE: Tony Perry | DATE: 7/9/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/17/23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5/17/23

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL

START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER

START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER

START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER

START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR

START: STOP:

IF WATER DROPLET PLUME

ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR

START: Blu STOP: Blue

SKY CONDITIONS

START: PC STOP: PC

WIND SPEED

START: 5-10 STOP: 5-10

WIND DIRECTION

START: NA STOP: NE

AMBIENT TEMP.

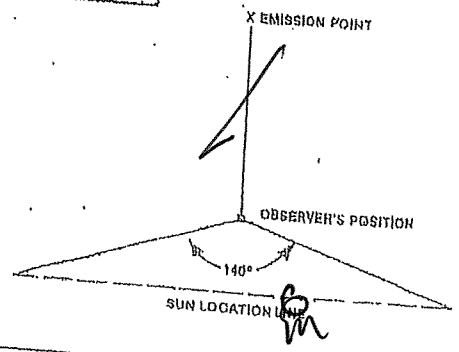
START: 80 STOP: 80

WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH

DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 7-10-23 | START TIME: 11:20 Am | STOP TIME: 11:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE:

DATE: 7-10-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

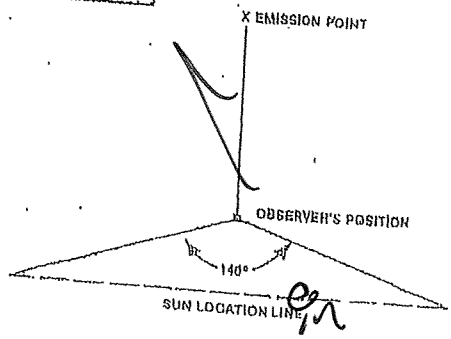
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 83 STOP 83 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-11-23 | START TIME: 12:00pm | STOP TIME: 12:18pm

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 7-11-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

EN-0084

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

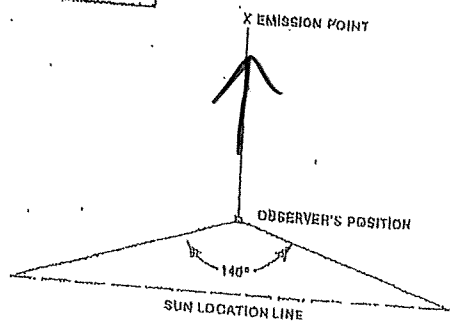
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 89 STOP 89 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 7-12-23 | START TIME: 1:20 PM | STOP TIME: 1:38PM

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	—	0	
2	0	0	0	0	
3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 7-12-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

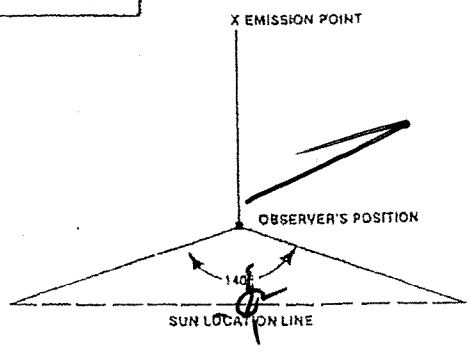
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse 1 & (2)
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 0-5 mph STOP 0-5 mph
WIND DIRECTION	START SSW STOP SSW
AMBIENT TEMP.	START 80° STOP 80°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7/14/23 — START TIME: 8:20 AM — STOP TIME: 8:38 AM

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD	3 % OPACITY
EPA METHOD 9	☒
TVEE METHOD 2	☐
TVEE METHOD 1	☐
TVEE METHOD 3	☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE %WERE	0
COMMENTS	
OBSERVER'S NAME (PRINT)	Zach Maroda
OBSERVER'S SIGNATURE	
DATE	7/14/23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE	11/17/23
VERIFIED BY	State Of Tennessee / Singleton Smoke School
DATE	5/17/23

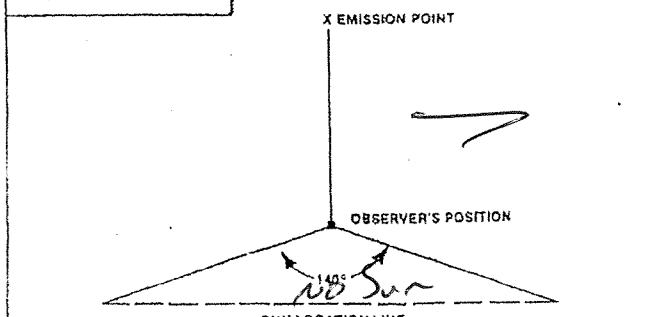
CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse 1 & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 10-15 STOP 10-15
WIND DIRECTION	START W STOP W
AMBIENT TEMP.	START 85° STOP 85°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE	7-15-23
START TIME	1:20pm
STOP TIME	1:38pm

SEC / MIN	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD	3 % OPACITY
EPA METHOD 9	☒
TVEE METHOD 2	☐
TVEE METHOD 1	☐
TVEE METHOD 3	☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE ~~ALLOWED~~ WERE	0

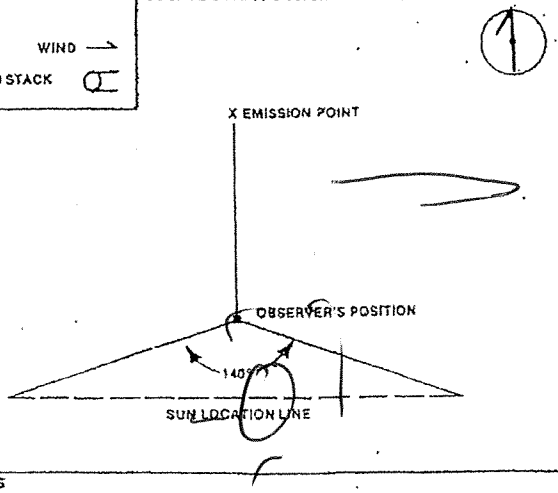
COMMENTS	
OBSERVER'S NAME (PRINT)	Mark Thompson
OBSERVER'S SIGNATURE	Mark Thompson
DATE	7-15-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE	11-23-23
VERIFIED BY	State Of Tennessee (Singleton Smoke School)
DATE	5-23-23

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 7-16-23 | START TIME: 7:10a | STOP TIME: 7:28a

SEC / MIN	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 7-16-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 1-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

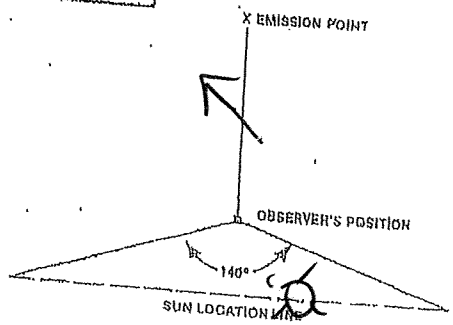
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 86 STOP 88 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
7-17-23	1:25 PM	1:43 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: RiB Cole | DATE: 7-17-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

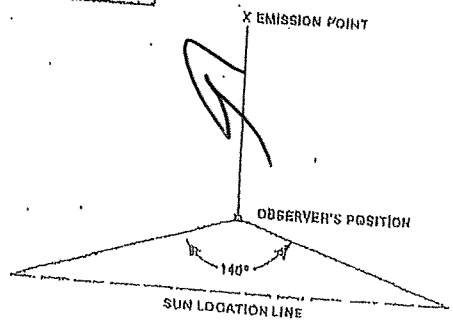
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 83 STOP 87 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 7-18-23 | START TIME: 9:40am | STOP TIME: 9:58am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: | DATE: 7-18-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

EN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

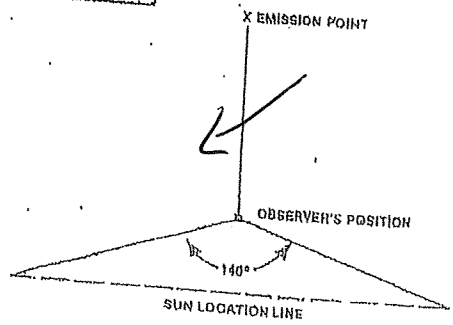
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 88 STOP 88 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-20-23 | START TIME: 12:00pm | STOP TIME: 12:18pm

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] | DATE: 7-20-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

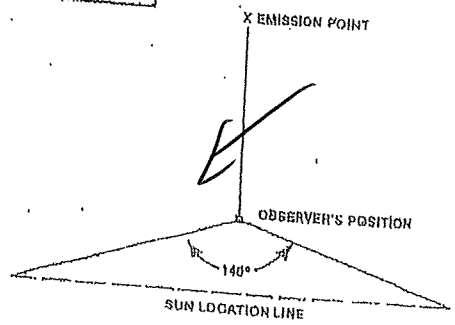
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 77 STOP 72 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
7-21-23	8:20 AM	8:38 AM

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 7-21-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

OBSERVATION DATE: 7-22-23

START TIME: 1:30 PM

STOP TIME: 1:48 PM

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2)

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START — STOP

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5 to 10 STOP 5 to 10

WIND DIRECTION: START NW STOP NW

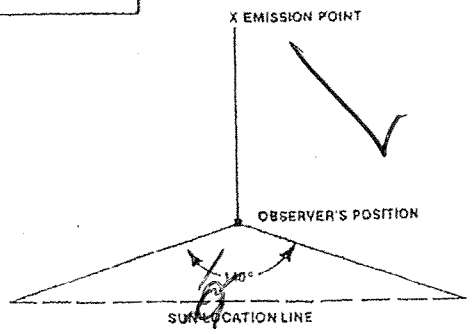
AMBIENT TEMP.: START 83° STOP 83°

WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH

SUN ☼ WIND → PLUME AND STACK

DRAW NORTH ARROW



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry DATE: 7-22-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

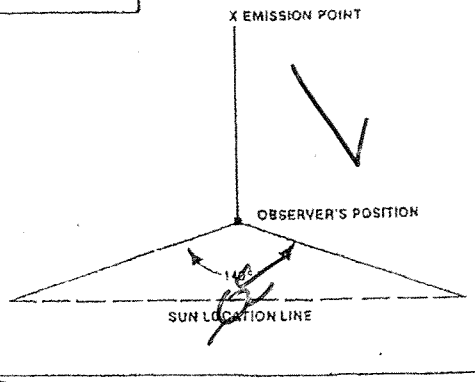
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-05 STOP 0-05 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-23-23 | START TIME: 11:30 AM | STOP TIME: 11:48 AM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Penny

OBSERVER'S SIGNATURE: Tony Penny | DATE: 7-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

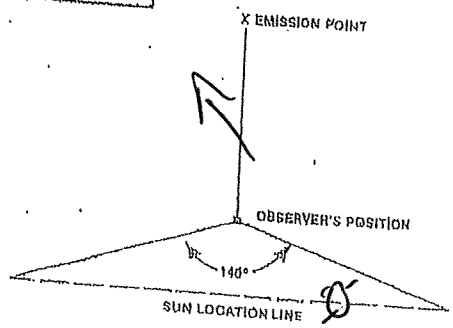
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 88 STOP 90 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 7-24-23 | START TIME: 12:20 PM | STOP TIME: 12:38PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 7-24-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

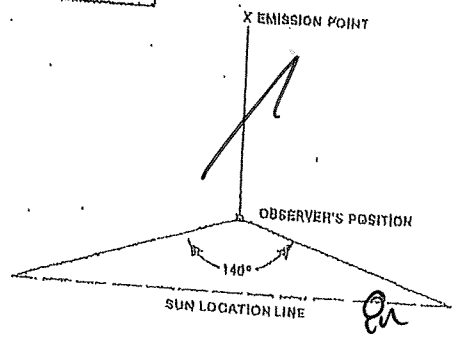
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 95 STOP 95 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
7-25-23	5:30 Am	5:48 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Ryan Ellis

OBSERVER'S SIGNATURE | DATE: 7-25-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

GN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START OC STOP OC

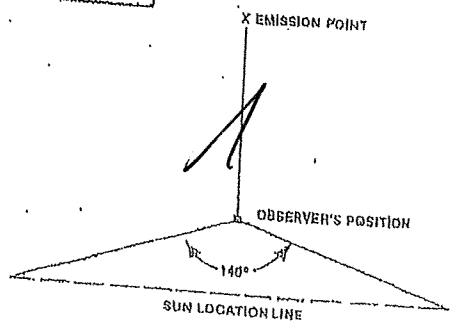
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, Percent

SOURCE LAYOUT SKETCH

SUN ☼ WIND → PLUME AND STACK ⊏

DRAW NORTH ARROW



OBSERVATION DATE: 7-26-23	START TIME: 11:50 Am	STOP TIME: 12:08 pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 7-26-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

EN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

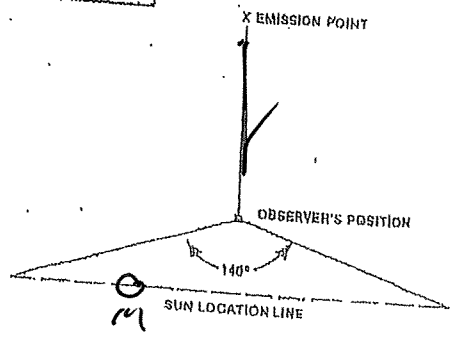
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 95 STOP 95 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ☐



OBSERVATION DATE	START TIME	STOP TIME
7-29-23	6:35 pm	6:53 pm

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7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Brian King

OBSERVER'S SIGNATURE: Brian King | DATE: 7/29/23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/20/23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5/22/23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

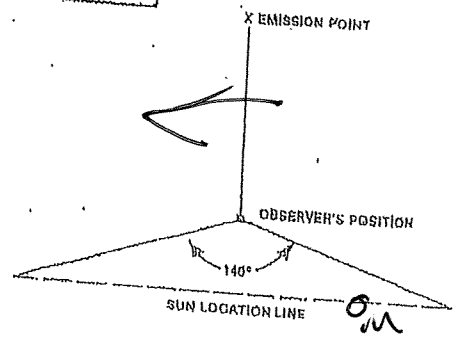
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 82 STOP 82 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 7-31-23 | START TIME: 9:40 Am | STOP TIME: 9:58 Am

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
4	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE | DATE: 7-31-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee, Singleton Smoke School | DATE: 5-22-23

ON-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

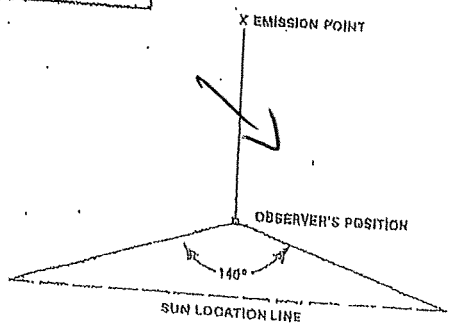
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NW STOP

AMBIENT TEMP.: START 85 STOP 85 | WET BULB TEMP. | RH, Percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-1-23	START TIME: 12:10pm	STOP TIME: 12:28pm

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 8-1-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

ENV0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

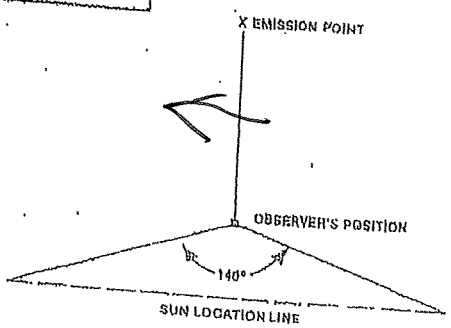
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-2-23 | START TIME: 11:50 Am | STOP TIME: 12:08 pm

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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5	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE | DATE: 8-2-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Grey STOP: Grey

SKY CONDITIONS — START: Rain STOP: Rain

WIND SPEED — START: 0-5 STOP: 0-5

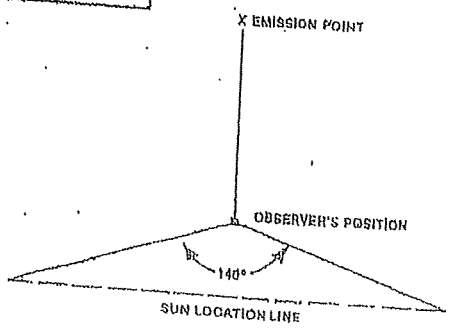
WIND DIRECTION — START: S STOP: S

AMBIENT TEMP. — START: 75 STOP: 75

WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-4-23 | START TIME: 12:00 pm | STOP TIME: 12:18 pm

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Ruettels

OBSERVER'S SIGNATURE: [signature] DATE: 8-4-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-10-23

VERIFIED BY: State Of Tennessee, Singleton Smoke School

DATE: 5-02-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: — STOP: —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

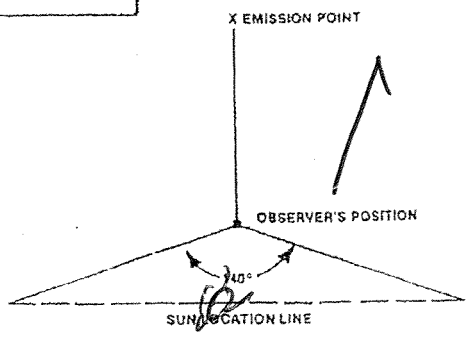
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 96° STOP 96° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-5-23 | START TIME: 1:00 PM | STOP TIME: 1:48 PM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry | DATE: 8-5-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

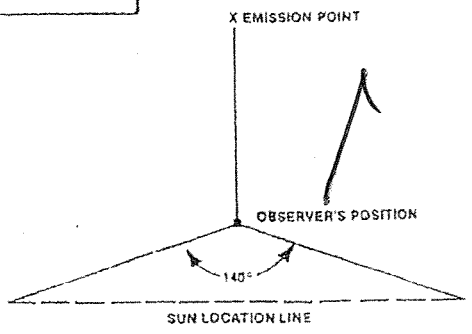
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START clear STOP Clear

WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 88° STOP 88° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-6-23 | START TIME: 12:30 PM | STOP TIME: 12:46 PM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry | DATE: 8-6-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: EMISSION COLOR: START STOP | STOP: IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

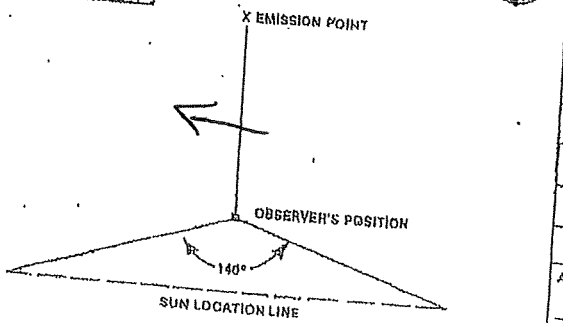
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 82 STOP 82 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 8-7-23 | START TIME: 12:55 pm | STOP TIME: 1:13 pm

MIN \ SEC	0	15	30	45	COMMENTS
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5	0	0	0	0	
6	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %: WERE 0

OBSERVER'S NAME (PRINT): R. Ley Colenco

OBSERVER'S SIGNATURE: Riley Colen | DATE: 8-7-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-17-23

GN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Grey STOP: Grey

SKY CONDITIONS — START: OC STOP: OC

WIND SPEED — START: 0-5 STOP: 0-5

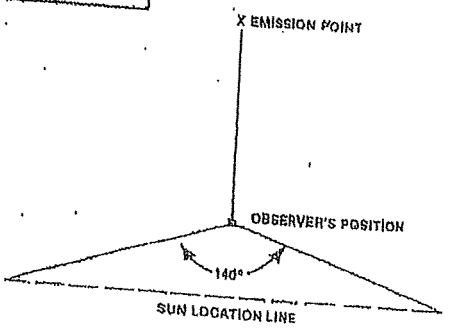
WIND DIRECTION — START: SW STOP: SW

AMBIENT TEMP. — START: 75 STOP: 75

WET BULB TEMP.: RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-8-23 | START TIME: 8:10 Am | STOP TIME: 8:28 Am

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
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5	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE:

TITLE: DATE:

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE:

DATE: 8-8-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-10-23

VERIFIED BY: State Of Tennessee Singleton Smoke School

DATE: 5-12-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

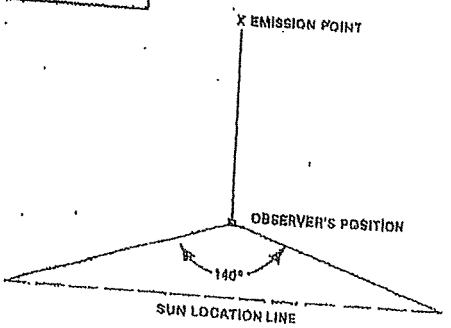
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-3-23 | START TIME: 5:00 Am | STOP TIME: 5:18 Am

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE | DATE: 8-3-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

EN-0041

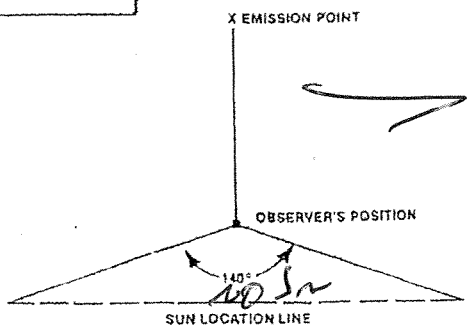
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 85° STOP 85 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-11-23 | START TIME: 2:50 pm | STOP TIME: 3:08 pm

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thomp | DATE: 8-11-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: — | STOP: —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

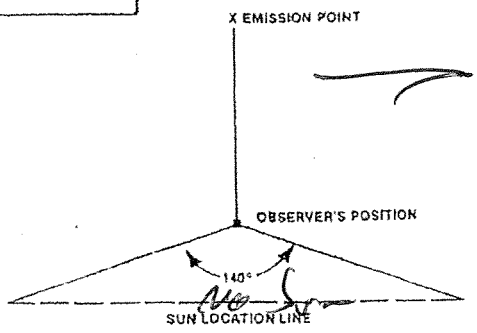
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 81° STOP 81° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-12-23 | START TIME: 12:50pm | STOP TIME: 1:08pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 8-12-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

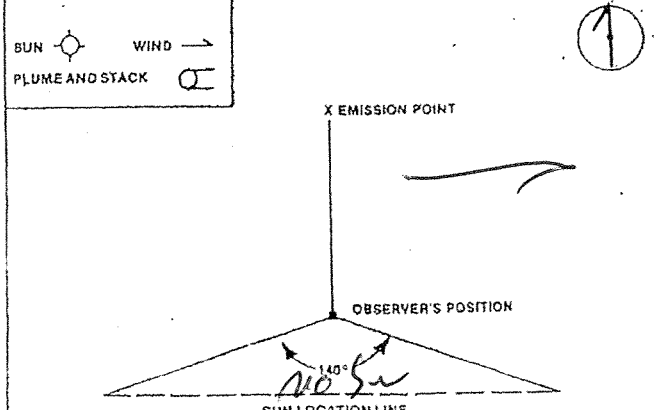
CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 80° STOP 80° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 8-13-23 | START TIME: 12:35 pm | STOP TIME: 12:53 pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 8-13-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

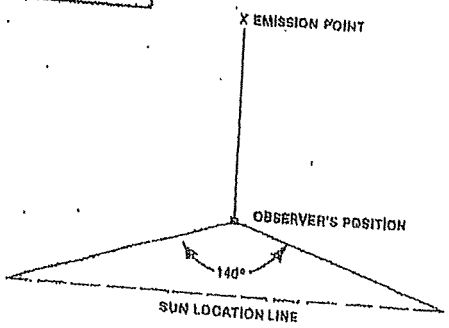
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-14-23	START TIME: 7:00 Am	STOP TIME: 7:18 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Brooks

OBSERVER'S SIGNATURE: [signature] | DATE: 8-14-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-10-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

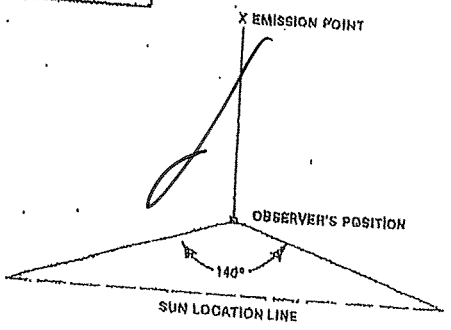
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 8-15-23 | START TIME: 9:30 Am | STOP TIME: 9:48 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE: [signature] | DATE: 8-15-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Blue STOP: Blue

SKY CONDITIONS — START: Sunny STOP: Sunny

WIND SPEED — START: 0-5 STOP: 0-5

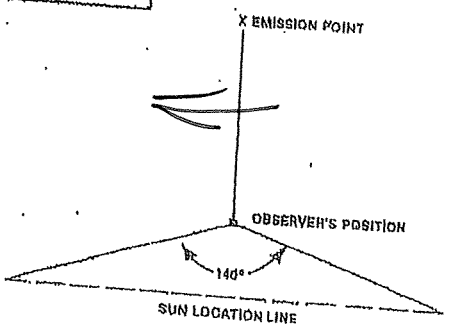
WIND DIRECTION — START: E STOP: E

AMBIENT TEMP. — START: 70 STOP: 70

WET BULB TEMP.: RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-16-23 | START TIME: 8:20 Am | STOP TIME: 8:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 8/16/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Blue STOP: Blue

SKY CONDITIONS — START: Sun STOP: Sun

WIND SPEED — START: 5-10 STOP: 5-10

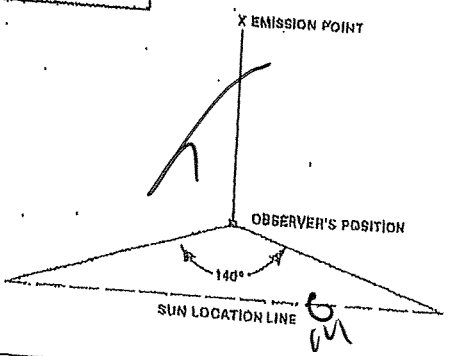
WIND DIRECTION — START: NE STOP: NE

AMBIENT TEMP. — START: 80 STOP: 80

WET BULB TEMP.: RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 5-18-23

START TIME: 10:20 AM | STOP TIME: 10:38 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE:

TITLE: DATE:

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] DATE: 5-18-23

ORGANIZATION: Gerdau AmeriSteel CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School DATE: 5-22-23

ENV-014

ENV-014-Rev.0

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

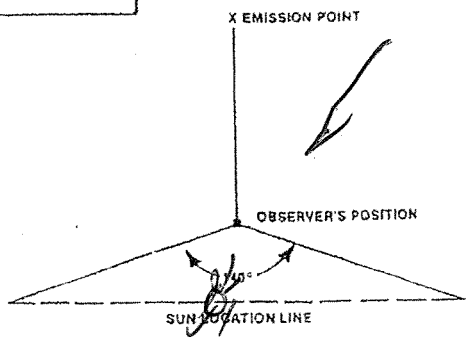
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START clear STOP clear

WIND SPEED: START 0-05 STOP 0-05 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 87° STOP 87° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-19-23 | START TIME: 1:05 PM | STOP TIME: 1:23 PM

MIN \ SEC	0	15	30	45	COMMENTS
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5	0	0	0	0	
6	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry | DATE: 8-19-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: — | STOP: —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

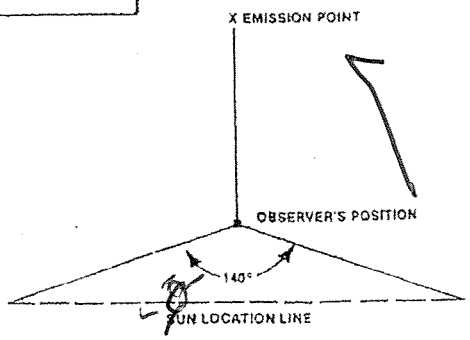
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 93° STOP 93° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-20-23 | START TIME: 3:20 PM | STOP TIME: 3:38 PM.

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry | DATE: 8-20-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Blue STOP: Blue

SKY CONDITIONS — START: Sunny STOP: Sunny

WIND SPEED — START: 0-5 STOP: 0-5

WIND DIRECTION — START: SE STOP: SE

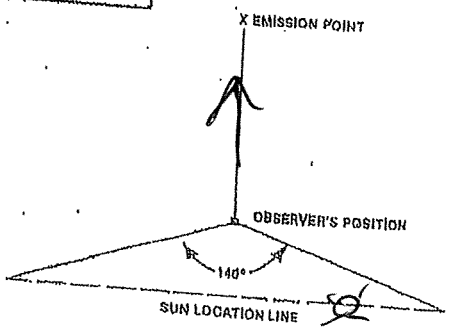
AMBIENT TEMP. — START: 81 STOP: 81

WET BULB TEMP.: RH, percent:

SOURCE LAYOUT SKETCH

SUN ☼ WIND → PLUME AND STACK

DRAW NORTH ARROW



OBSERVATION DATE: 8-21-23 | START TIME: 8:40am | STOP TIME: 8:58am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

OBSERVER'S SIGNATURE: Riley Coleman

DATE: 8-21-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft. | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

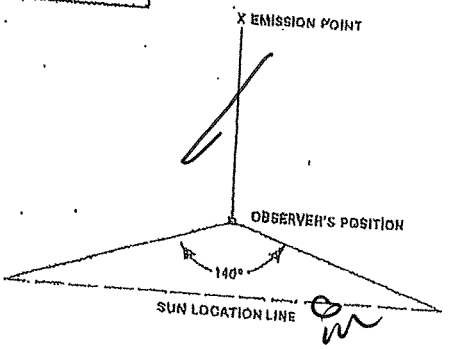
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 90 STOP 90 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-22-13 | START TIME: 10:40 Am | STOP TIME: 10:58 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE:

DATE: 8-22-13

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-20-13

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 8-22-13

ENV-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Blue STOP: Blue

SKY CONDITIONS — START: Sunny STOP: Sunny

WIND SPEED — START: 0-5 STOP: 0-5

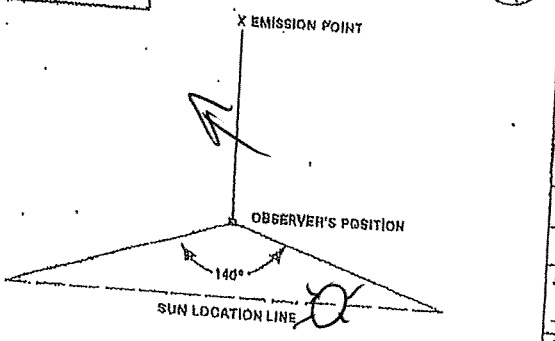
WIND DIRECTION — START: NW STOP: NW

AMBIENT TEMP. — START: 74 STOP: 77

WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-23-23 | START TIME: 7:20AM | STOP TIME: 7:38AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S SIGNATURE | DATE: 8-23-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee, Singleton Smoke School | DATE: 5-17-23

CN-0881

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

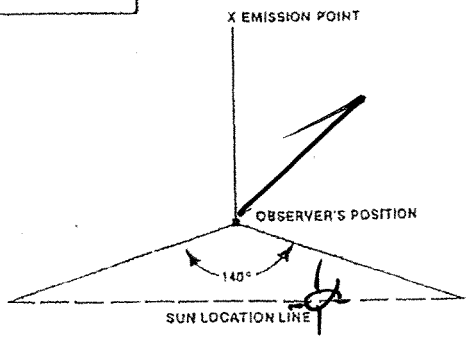
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 mph STOP 0-5 mph | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 80° STOP 80° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 8/25/23 | START TIME: 7:50 am | STOP TIME: 808 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marolt

OBSERVER'S SIGNATURE: Zachary Marolt | DATE: 8/25/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5/17/23

CN-0841

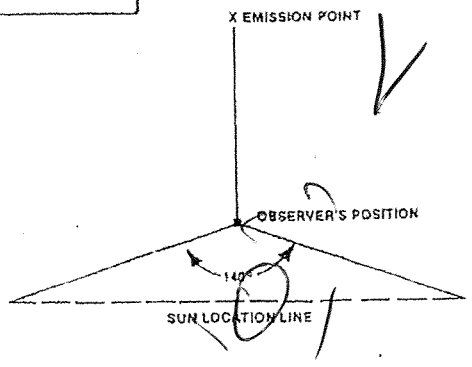
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-26-23 | START TIME: 7:37a | STOP TIME: 7:55a

SEC / MIN	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 8-26-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: — | STOP: —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

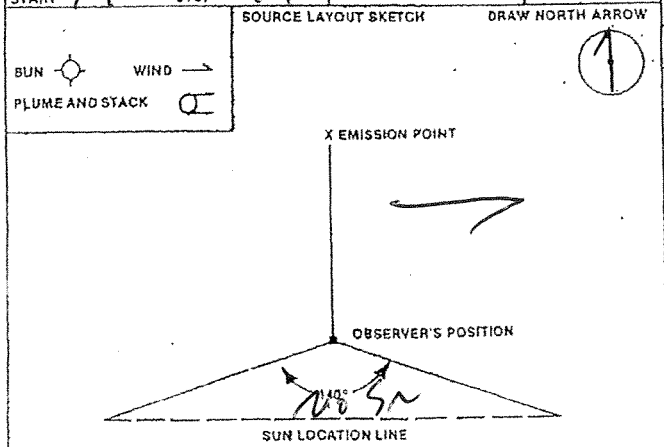
START: Sky | STOP: Sky

BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 77° STOP 77° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 8-27-23 | START TIME: 9:10a | STOP TIME: 9:28a

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE ALWERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Marlc T. Thompson

OBSERVER'S SIGNATURE: Mark Thomp | DATE: 8-27-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

TITLE | DATE

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

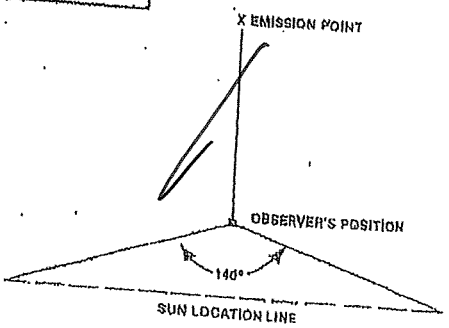
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 88 STOP 88 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-28-23	START TIME: 10:40 am	STOP TIME: 10:58 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 8-28-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

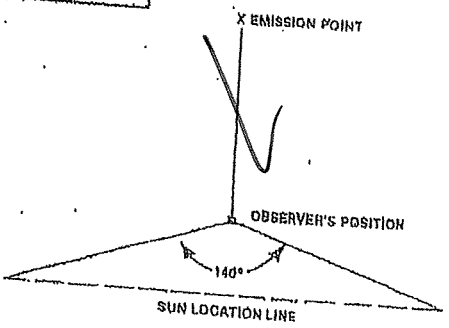
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START STOP

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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OBSERVATION DATE: 8-29-23 | START TIME: 8:40 Am | STOP TIME: 8:58 Am

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE:

DATE: 8-29-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-10-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | DATE: 5-22-23

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

EN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME — ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Blue STOP: Blue

SKY CONDITIONS — START: Sunny STOP: Sunny

WIND SPEED — START: 10-15 STOP: 10-15

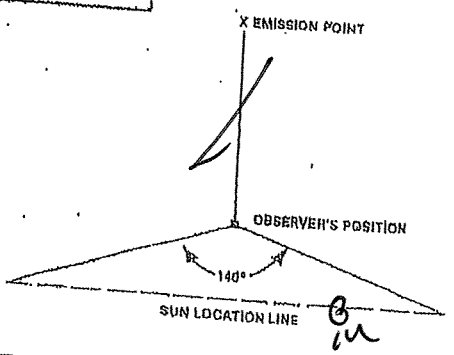
WIND DIRECTION — START: NE STOP: NE

AMBIENT TEMP. — START: 81 STOP: 81

WET BULB TEMP. | RH, Percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-30-23 | START TIME: 10:30 Am | STOP TIME: 10:48 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reeves

OBSERVER'S SIGNATURE | DATE: 8-30-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

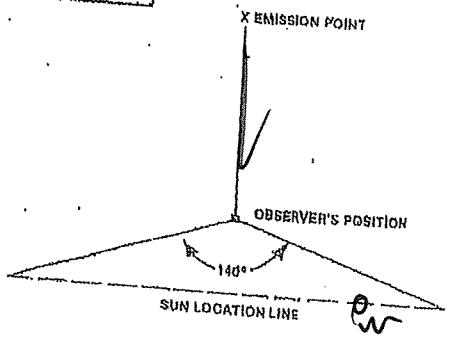
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 5-1-23	START TIME: 9:30 Am	STOP TIME: 9:38 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reeves

OBSERVER'S SIGNATURE

DATE: 5-1-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School

DATE: 5-02-23

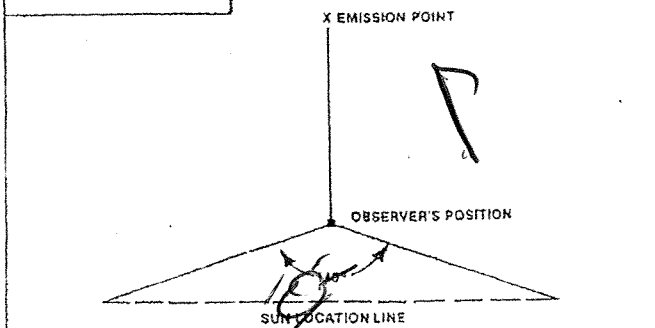
EN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Scant STOP Sunny
WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START SE STOP SE
AMBIENT TEMP.: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 9-2-23 | START TIME: 2:10 pm | STOP TIME: 2:25 pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry
OBSERVER'S SIGNATURE: Tony Perry | DATE: 9-7-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

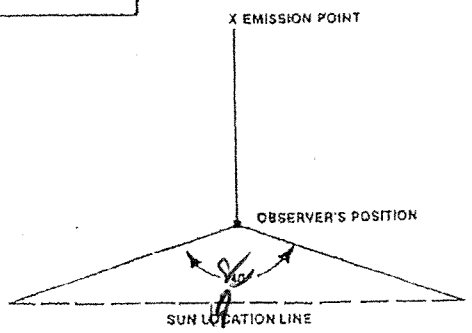
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 86° STOP 86° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ✳ WIND → PLUME AND STACK



OBSERVATION DATE: 9-3-23 | START TIME: 1:30 pm | STOP TIME: 1:48 PM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Pearl

OBSERVER'S SIGNATURE: Tony Pearl | DATE: 9-3-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

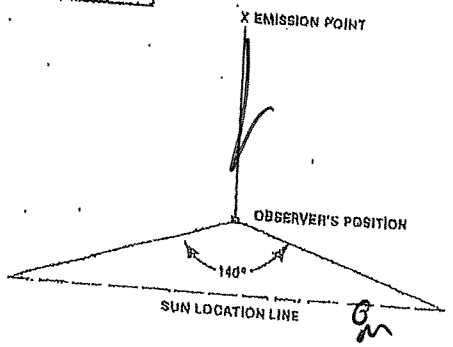
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 5-2-23 | START TIME: 9:00 Am | STOP TIME: 9:18 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 5-2-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

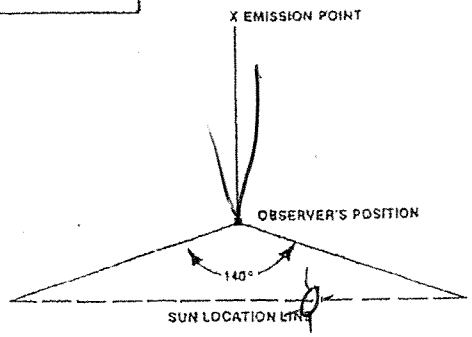
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 0-5 MPH STOP 0-5 mph | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 66° STOP 66° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 9/8/23 | START TIME: 8:10 AM | STOP TIME: 8:28 AM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Macek
OBSERVER'S SIGNATURE: Zach Macek | DATE: 9/8/23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/17/23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5/10/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

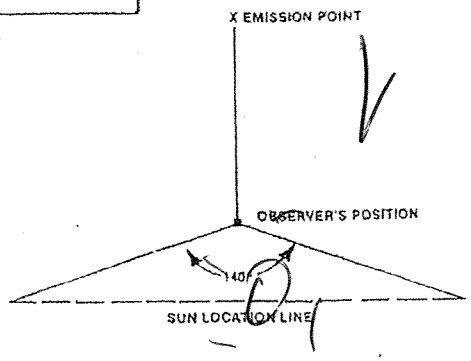
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 79° STOP 79° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



SEC / MIN	0	15	30	45	COMMENTS
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OBSERVATION DATE: 9-9-23 | START TIME: 9:20a | STOP TIME: 9:38a

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE ___ WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thomp | DATE: 9-9-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

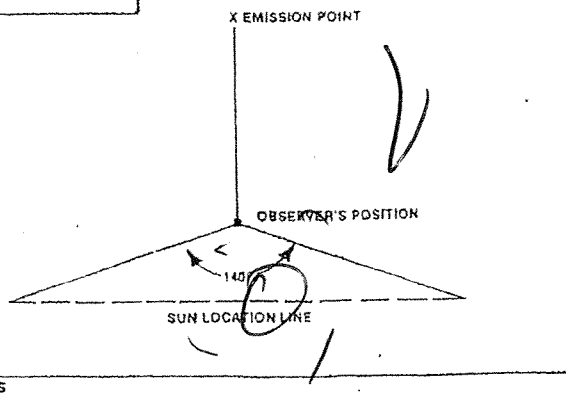
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 75° STOP 75° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
9-10-23	8:30a	8:48a

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Marlo Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 9-10-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

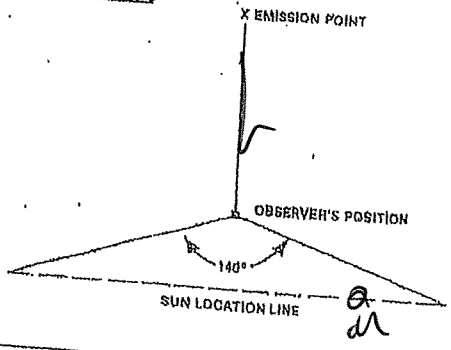
WIND SPEED: START 6-5 STOP 6-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 85 STOP 85 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH

SUN ☼ WIND → PLUME AND STACK

DRAW NORTH ARROW



OBSERVATION DATE: 9-11-23	START TIME: 10:45 Am	STOP TIME: 11:03 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rymer

OBSERVER'S SIGNATURE:

ORGANIZATION: Gerdau AmeriSteel | DATE: 9-11-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | CERTIFICATION EXPIRATION DATE: 11-20-23

DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft | HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft | DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR — START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

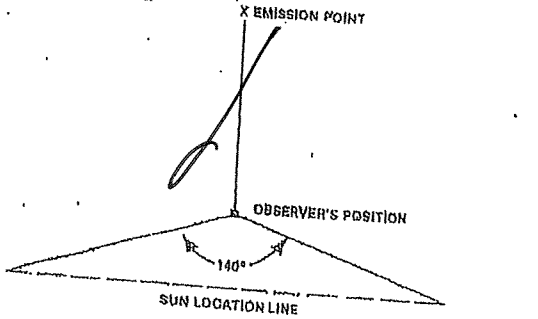
BACKGROUND COLOR — START: Grey STOP: Grey | SKY CONDITIONS — START: OC STOP: OC

WIND SPEED — START: 5-6 STOP: 5-10 | WIND DIRECTION — START: NE STOP: NE

AMBIENT TEMP. — START: 70 STOP: 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 9-12-23	START TIME: 9:40 AM	STOP TIME: 9:58 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rowlett

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S SIGNATURE | DATE: 9-12-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

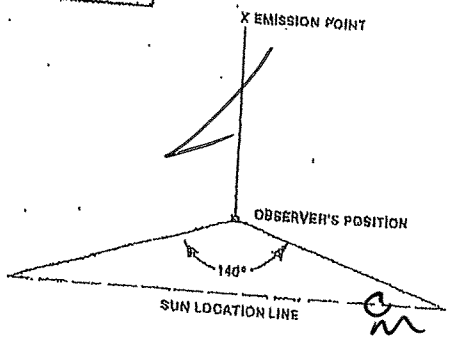
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
09-13-23	9:00 am	9:18 am

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COMMENTS

APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rhodes

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S SIGNATURE | DATE: 9-13-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

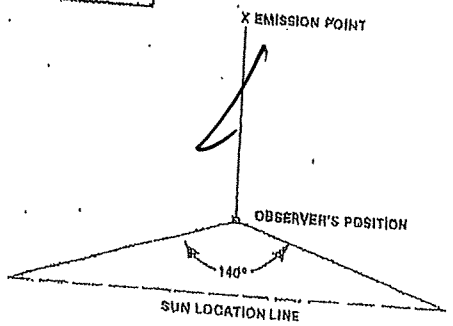
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 60 STOP 60 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
5-5-23	8:05 hr	8:23 hr

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | DATE: 5-5-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | CERTIFICATION EXPIRATION DATE: 11-20-23

DATE: 5-22-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

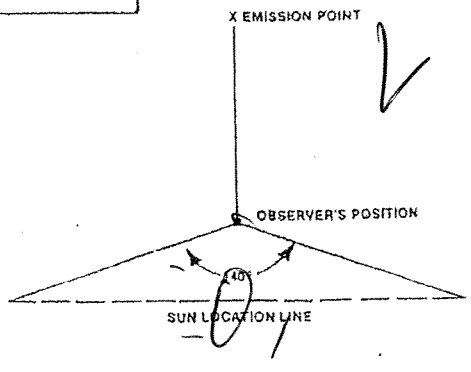
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 72° STOP 72° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
9-16-23	8:32 am	8:50 am

SEC / MIN	0	15	30	45	COMMENTS
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4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READINGS ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 9-16-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

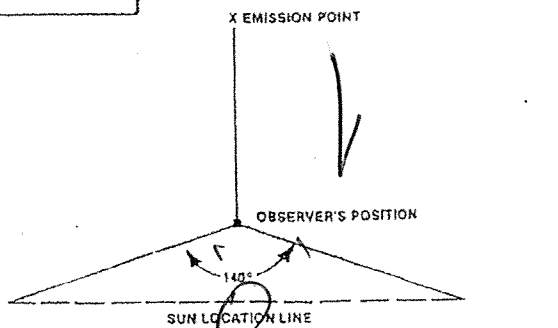
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 75° STOP 75 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 9-17-23 | START TIME: 8:15a | STOP TIME: 8:33a

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thomp | DATE: 9-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

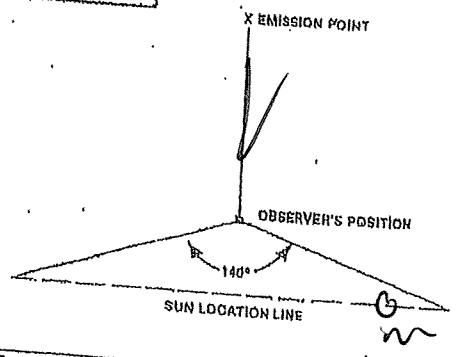
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START SW STOP SW | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 65 STOP 65 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 9-18-23 | START TIME: 9:10 Am | STOP TIME: 9:28 Am

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE | DATE: 9-18-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

GN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

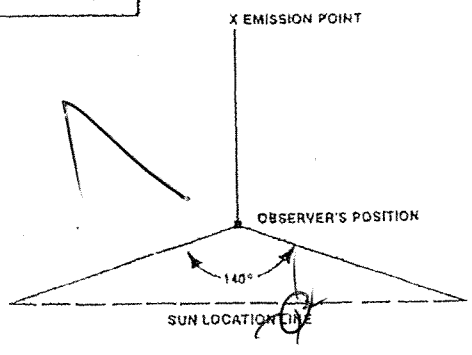
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 mph STOP 0-5 mph | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 69° STOP 69° | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 9/19/23 | START TIME: 9:30 AM | STOP TIME: 9:48 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek

OBSERVER'S SIGNATURE | DATE: 9/19/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5/17/23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

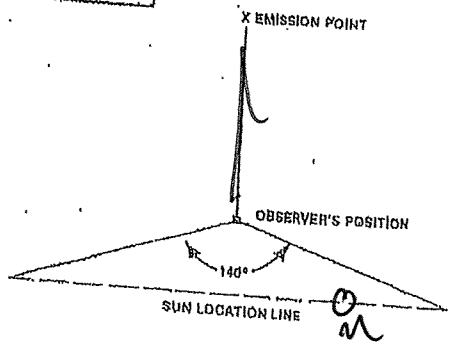
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 72 STOP 72 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
9/20/23	11:20 AM	11:38 AM

MIN \ SEC	0	15	30	45	COMMENTS
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4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Rueller

OBSERVER'S SIGNATURE:

ORGANIZATION: Gerdau AmeriSteel | DATE: 9-20-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | CERTIFICATION EXPIRATION DATE: 11-20-23

DATE: 5-22-23

ENV-0047

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

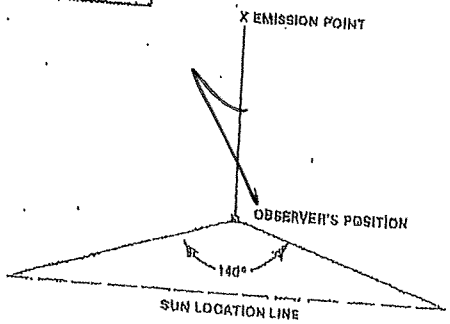
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 65 STOP 65 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
5-22-23	7:20 Am	7:38 Am

SEC / MIN	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 5-22-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

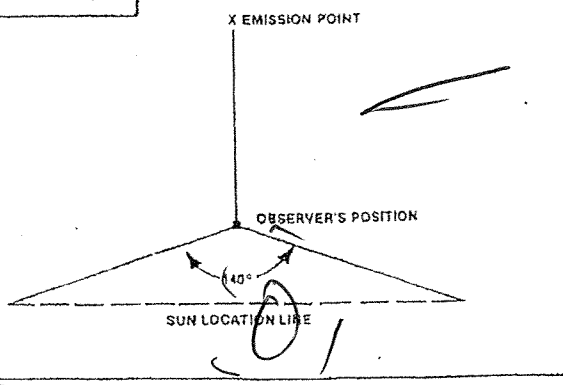
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 80° STOP 80° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
9-23-23	9:22a	9:40a

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	5	5	
3	0	0	5	0	
4	0	0	5	0	
5	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Marc Thompson

OBSERVER'S SIGNATURE: Marc Thompson | DATE: 9-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

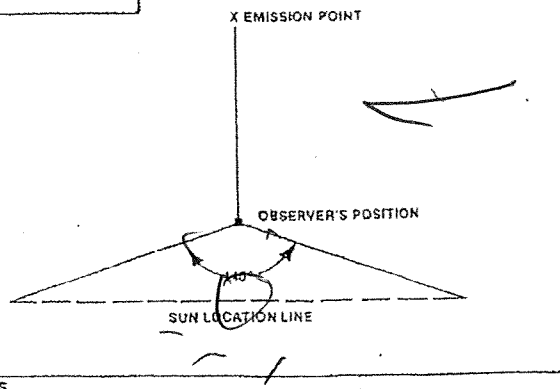
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START E STOP E
AMBIENT TEMP.: START 76° STOP 76° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ⊕ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 9-24-23 | START TIME: 9:27 am | STOP TIME: 9:45 am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thomp | DATE: 9-24-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-25

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses STOP:

HEIGHT ABOVE GROUND LEVEL

START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER

START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER

START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER

START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR

START: STOP:

IF WATER DROPLET PLUME

ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND

START Sky STOP Sky

BACKGROUND COLOR

START Blue STOP Blue

SKY CONDITIONS

START Sunny STOP Sunny

WIND SPEED

START 0-5 STOP 0-5

WIND DIRECTION

START NE STOP NE

AMBIENT TEMP.

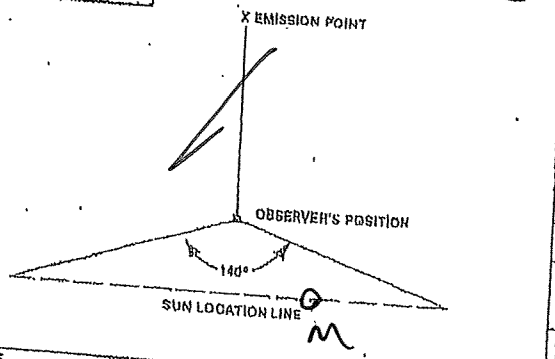
START 85 STOP 88

WET BULB TEMP.: RH, percent:

SOURCE LAYOUT SKETCH

SUN ☼ WIND → PLUME AND STACK

DRAW NORTH ARROW



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE:

TITLE:

DATE:

OBSERVATION DATE: 5-25-23

START TIME: 11:30 AM | STOP TIME: 11:38 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Pruett

OBSERVER'S SIGNATURE:

DATE: 5-25-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State Of Tennessee / Singleton Smoke School

DATE: 5-22-23

EN-0047

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Blue STOP: Blue

SKY CONDITIONS — START: P Cloudy STOP: P Cloudy

WIND SPEED — START: 0-5 STOP: 0-5

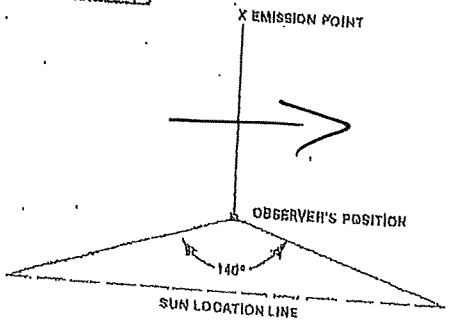
WIND DIRECTION — START: W STOP: W

AMBIENT TEMP. — START: 83 STOP: 83

WET BULB TEMP.: RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 9-26-23 | START TIME: 9:55 AM | STOP TIME: 10:13 AM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

OBSERVER'S SIGNATURE: Riley Cole

DATE: 9-26-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School

DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

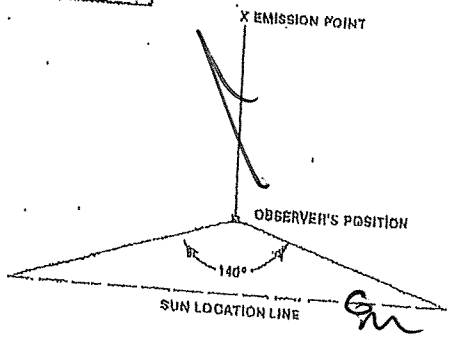
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sun STOP Sun

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 9-22-23 | START TIME: 9:30 AM | STOP TIME: 9:48 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Burdett

OBSERVER'S SIGNATURE: [signature] | DATE: 9-22-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 9-22-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

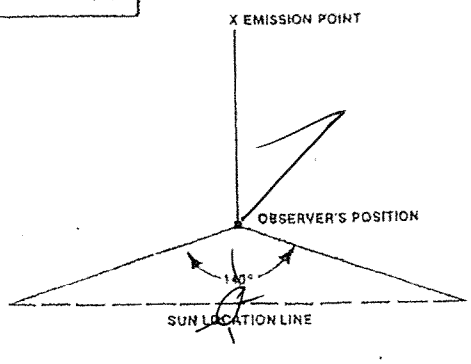
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 mph STOP 0-5 mph | WIND DIRECTION: START SSW STOP SSW

AMBIENT TEMP.: START 81° STOP 81° | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE	START TIME	STOP TIME
9/29/23	11:10 AM	11:28 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek

OBSERVER'S SIGNATURE: Zachary Marek | DATE: 9/29/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5/17/23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

OBSERVATION DATE: 9/30/23

START TIME: 1:10 PM

STOP TIME: 1:28 pm

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2)

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: ~~~~ STOP: ~~~~

EMISSION COLOR: START ~~~~ STOP ~~~~

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5

WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 88° STOP 88°

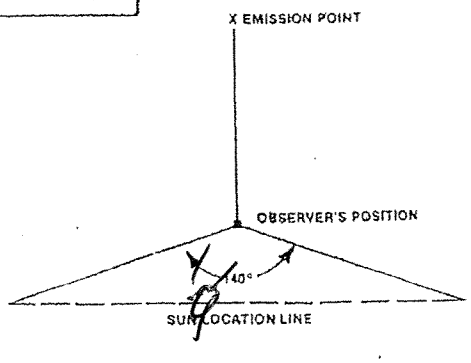
WET BULB TEMP.:

RH, percent

SOURCE LAYOUT SKETCH

SUN ☼ WIND → PLUME AND STACK ⊏

DRAW NORTH ARROW



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Peary

OBSERVER'S SIGNATURE: Tony Peary

DATE: 9/30/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

DATE: 5/17/23

CN-0841

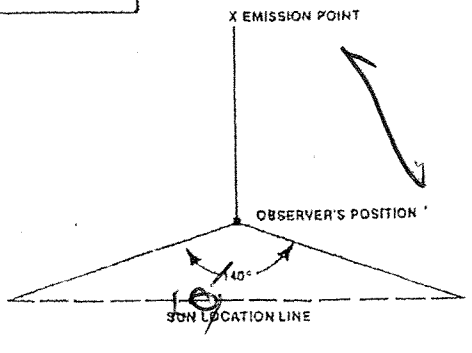
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START ~ STOP ~
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny
WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START SE STOP SE
AMBIENT TEMP.: START 88° STOP 88° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-1-23 | START TIME: 2:15 pm | STOP TIME: 2:33 pm

SEC / MIN	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Penny
OBSERVER'S SIGNATURE: [signature] | DATE: 10-1-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-12-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-12-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

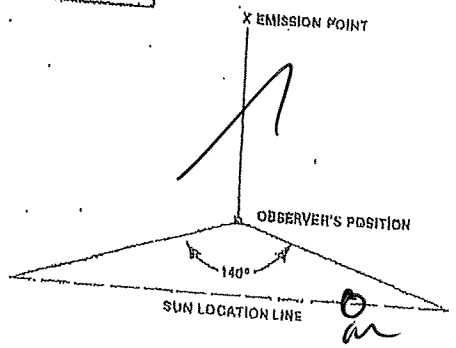
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 84 STOP 84 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 10-2-23 | START TIME: 11:36 Am | STOP TIME: 11:48 Am

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 10-2-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-10-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Blue STOP: Blue

SKY CONDITIONS — START: Clear STOP: Clear

WIND SPEED — START: 5-10 STOP: 5-10

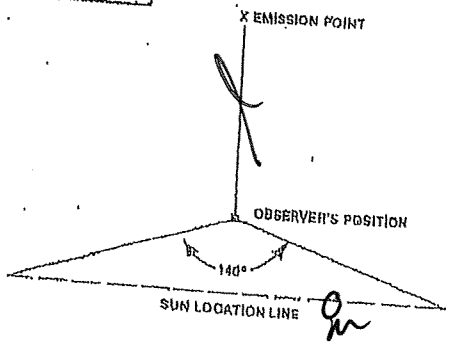
WIND DIRECTION — START: SE STOP: SE

AMBIENT TEMP. — START: 80 STOP: 80

WET BULB TEMP.: RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-3-23 | START TIME: 10:55 Am | STOP TIME: 11:13 Am

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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Reeds

OBSERVER'S SIGNATURE:

DATE: 10-3-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

DATE: 5-22-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15

WIND DIRECTION: START S STOP S

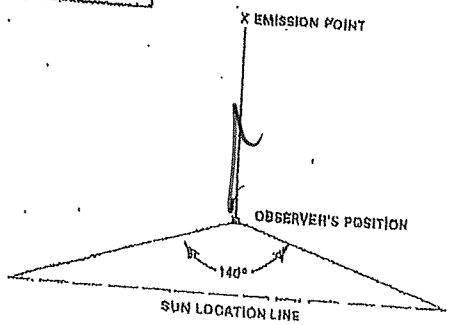
AMBIENT TEMP.: START 70 STOP 70

WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-4-23

START TIME: 5:30 PM | STOP TIME: 5:48 PM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE:

DATE: 10-4-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee Singleton Smoke School

DATE: 5-22-23

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SIGNATURE

TITLE

DATE

ON-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses STOP:

HEIGHT ABOVE GROUND LEVEL

START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER

START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER

START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER

START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR

START: STOP:

IF WATER DROPLET PLUME:

ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND

START Sky STOP Sky

BACKGROUND COLOR

START Blue STOP Blue

SKY CONDITIONS

START Sunny STOP Sunny

WIND SPEED

START 5-10 STOP 5-10

WIND DIRECTION

START NW STOP NW

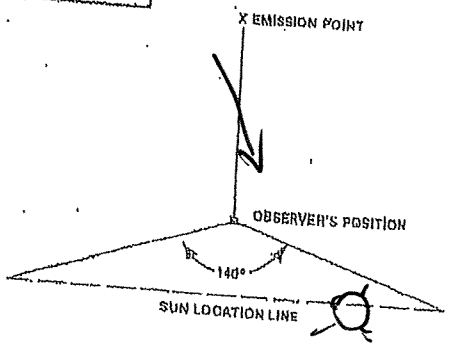
AMBIENT TEMP.

START 64 STOP 64

WET BULB TEMP.: RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-6-23

START TIME: 7:50 AM STOP TIME: 8:08AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman

ORGANIZATION: Gerdau AmeriSteel

DATE: 10-6-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

CERTIFICATION EXPIRATION DATE: 11-17-23

DATE: 5-17-23

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

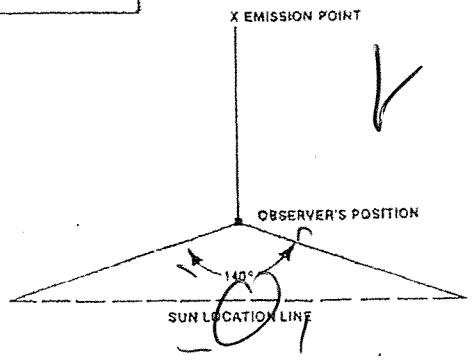
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 58° STOP 58° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ⊕ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
10-7-23	9:50a	10:08a

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3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-7-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-22-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-3-23

CN-0841

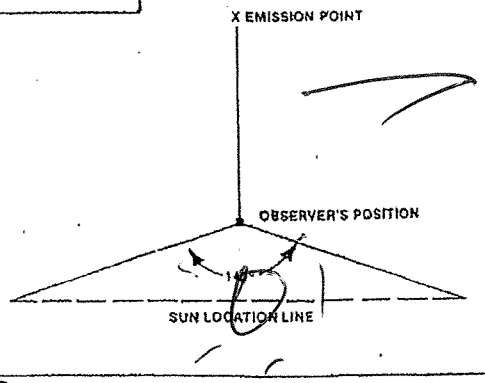
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 62° STOP 62° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-8-23 | START TIME: 7:50a | STOP TIME: 8:08a

SEC / MIN	0	15	30	45	COMMENTS
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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thomp | DATE: 10-8-23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

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SIGNATURE
TITLE | DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 10-15 STOP 10-15

WIND DIRECTION: START SE STOP SE

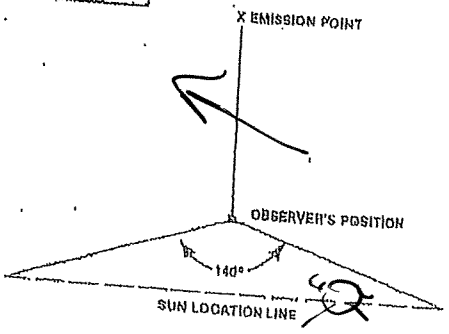
AMBIENT TEMP.: START 69 STOP 69

WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-9-23

START TIME: 9:35 AM | STOP TIME: 10:13 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Cole

DATE: 10-9-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee, Singleton Smoke School

DATE: 5-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft | HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft | DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR — START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

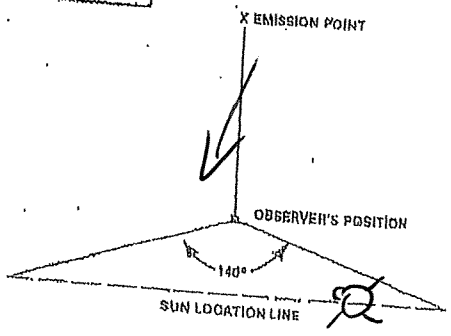
BACKGROUND COLOR — START: Blue STOP: Blue | SKY CONDITIONS — START: Sunny STOP: Sunny

WIND SPEED — START: 5-10 STOP: 5-10 | WIND DIRECTION — START: NE STOP: NE

AMBIENT TEMP. — START: 72 STOP: 72 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-16-23	START TIME: 12:10pm	STOP TIME: 12:28pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman

DATE: 10-16-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School

DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

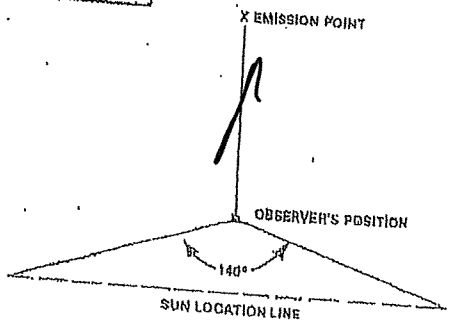
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 71 STOP 71 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-11-23	START TIME: 1:20pm	STOP TIME: 1:38pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE

DATE: 10-11-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School

DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Grey STOP: Grey

SKY CONDITIONS — START: Cloudy STOP: Cloudy

WIND SPEED — START: 3-10 STOP: 3-10

WIND DIRECTION — START: SE STOP: SE

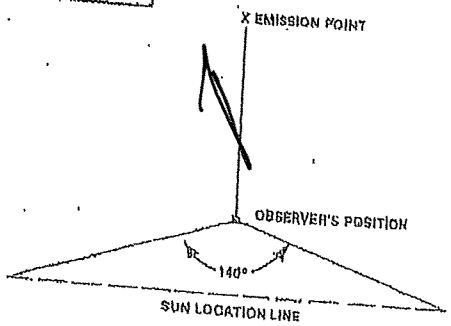
AMBIENT TEMP. — START: 69 STOP: 69

WET BULB TEMP.: RH, percent:

SOURCE LAYOUT SKETCH

SUN ☼ WIND → PLUME AND STACK ⊏

DRAW NORTH ARROW



OBSERVATION DATE: 10-13-23

START TIME: 11:00am STOP TIME: 11:18am

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3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE:

DATE: 10-13-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

DATE: 5-17-23

CN-0841

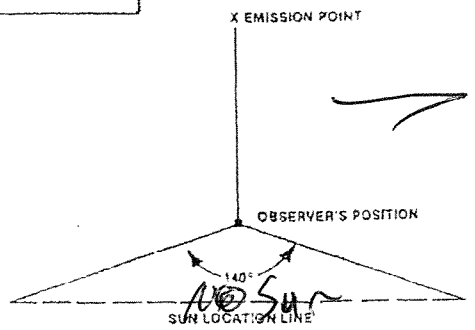
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START W STOP W
AMBIENT TEMP.: START 60° STOP 60° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-14-23 | START TIME: 8:20 am | STOP TIME: 8:38 am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-14-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

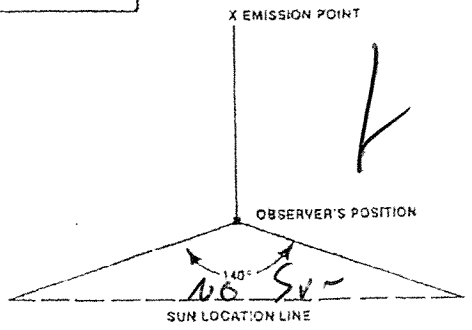
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse 1 & (2)
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 10-15 STOP 10-15
WIND DIRECTION	START N STOP N
AMBIENT TEMP.	START 59° STOP 59°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-15-23 — START TIME: 11:50am — STOP TIME: 12:08pm

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY — EPA METHOD 9 ☒ — TVEE METHOD 2 ☐ — TVEE METHOD 1 ☐ — TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 — NUMBER OF READING ABOVE %: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson — DATE: 10-15-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) — DATE: 5-23-23

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses STOP:

HEIGHT ABOVE GROUND LEVEL

START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER

START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER

START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER

START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR

START: STOP:

IF WATER DROPLET PLUME:

ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR

START: Blue STOP: Blue

SKY CONDITIONS

START: Cloudy STOP: Clear

WIND SPEED

START: 10-15 STOP: 10-15

WIND DIRECTION

START: NW STOP: NW

AMBIENT TEMP.

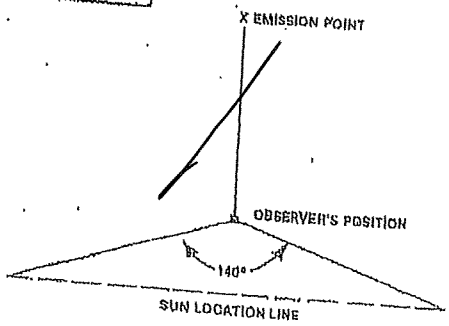
START: 80 STOP: 82

WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-6-23 | START TIME: 9:40 AM | STOP TIME: 9:58 AM

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7	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE:

TITLE:

DATE:

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE:

ORGANIZATION: Gerdau AmeriSteel

DATE: 10-16-23

VERIFIED BY: State Of Tennessee, Singleton Smoke School

CERTIFICATION EXPIRATION DATE: 11-20-23

DATE: 5-22-23

EN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5

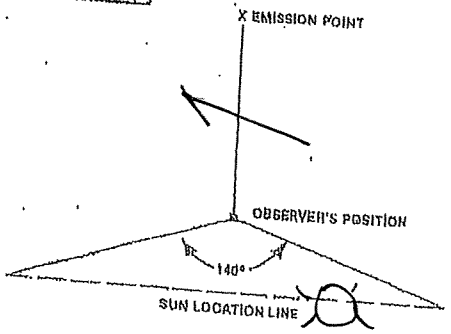
WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 64 STOP 64

WET BULB TEMP.: RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-17-23

START TIME: 12:10pm STOP TIME: 12:28pm

MIN \ SEC	0	15	30	45
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COMMENTS

APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE

ORGANIZATION: Gerdau AmeriSteel

DATE: 10-17-23

VERIFIED BY: State Of Tennessee Singleton Smoke School

CERTIFICATION EXPIRATION DATE: 11-17-23

DATE: 5-17-23

CN-0841

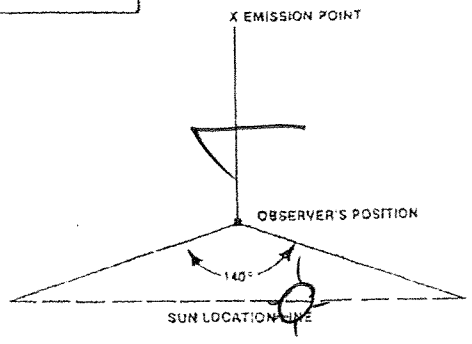
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse 1 & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Clear STOP Clear
WIND SPEED	START 0-5 mph STOP 0-5 mph
WIND DIRECTION	START W STOP W
AMBIENT TEMP.	START 60° STOP 60°
WET BULB TEMP.	
RH, percent	

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 10/20/23 — START TIME: 9:10 AM — STOP TIME: 9:28 AM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek

OBSERVER'S SIGNATURE: Zach Marek — DATE: 10/20/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE — TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) — DATE: 5/17/23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~STOP~~

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

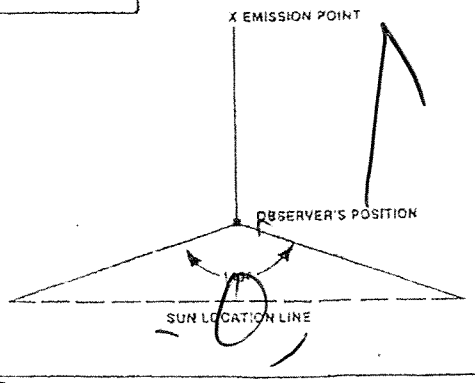
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-15 STOP 0-15 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 73° STOP 73° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ⊙ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-21-23 | START TIME: 9:17a | STOP TIME: 9:35a

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS: —

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thomp | DATE: 10-31-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

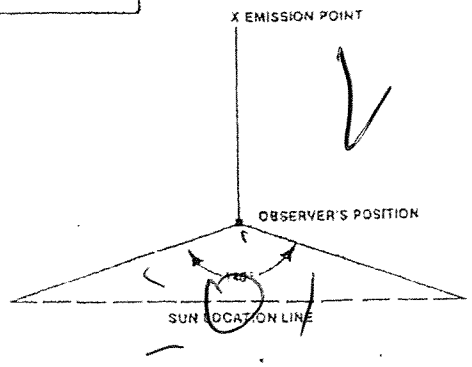
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 62° STOP 62° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ⊕ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-22-23 | START TIME: 8:37a | STOP TIME: 8:55a

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thomp | DATE: 10-22-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

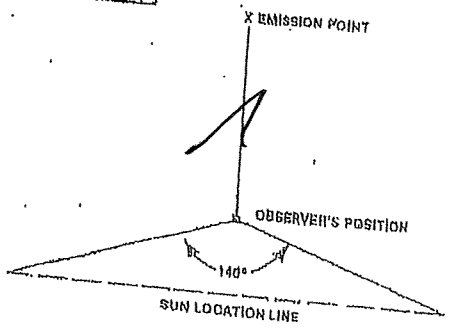
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 78 STOP 78 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



MIN \ SEC	0	15	30	45	COMMENTS
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OBSERVATION DATE: 10-23-23 | START TIME: 1:55pm | STOP TIME: 2:13pm

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 10-23-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

EN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

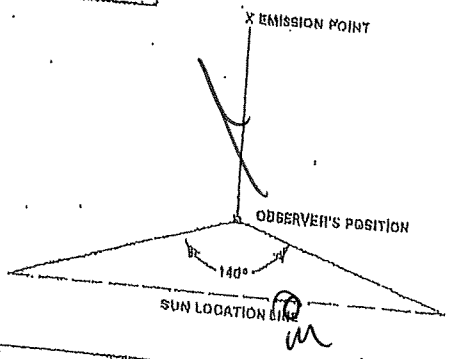
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 74 STOP 74 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 10/24/23 | START TIME: 12:00pm | STOP TIME: 12:18pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 10-24-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-22-23

EN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL — START: 76 ft STOP: 76 ft

HEIGHT RELATIVE TO OBSERVER — START: 76 ft STOP: 76 ft

DISTANCE FROM OBSERVER — START: 380 ft STOP: 380 ft

DIRECTION FROM OBSERVER — START: North STOP: North

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR — START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR — START: Blue STOP: Blue

SKY CONDITIONS — START: Clear STOP: Clear

WIND SPEED — START: 5-10 STOP: 5-10

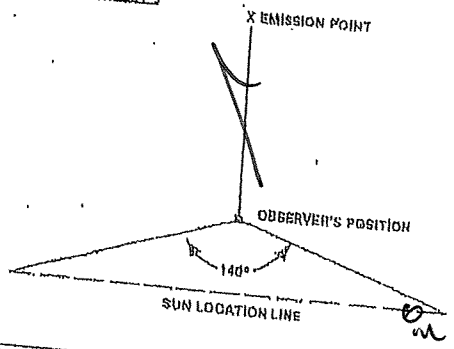
WIND DIRECTION — START: SE STOP: SE

AMBIENT TEMP. — START: 63 STOP: 63

WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-25-23	START TIME: 7:30 Am	STOP TIME: 7:48 Am

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4	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE

ORGANIZATION: Gerdau AmeriSteel | DATE: 10-25-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | CERTIFICATION EXPIRATION DATE: 11-20-23

DATE: 5-22-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

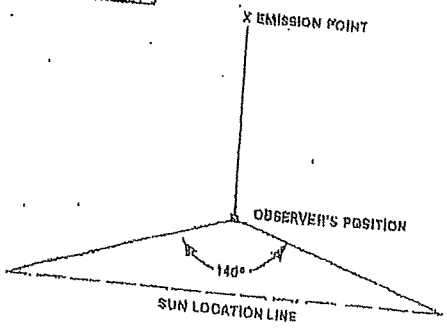
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
10-27-23	1:40 pm	1:58 pm

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COMMENTS

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE

COMMENTS

OBSERVER'S NAME (PRINT): Cody Spurlock

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S SIGNATURE | DATE: 10-27-23

ORGANIZATION: Gerdau AmeriSteel

VERIFIED BY: State Of Tennessee / Singleton Smoke School | CERTIFICATION EXPIRATION DATE: 11-20-23 | DATE: 5-22-23

EN-0841

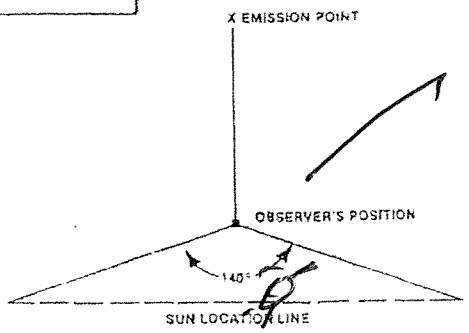
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of ~~Baghouse~~
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SW STOP SW
AMBIENT TEMP.: START 78° STOP 78° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-28-23 | START TIME: 10:20 AM | STOP TIME: 10:38 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Penny
OBSERVER'S SIGNATURE: [signature] DATE: 10-28-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23
VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

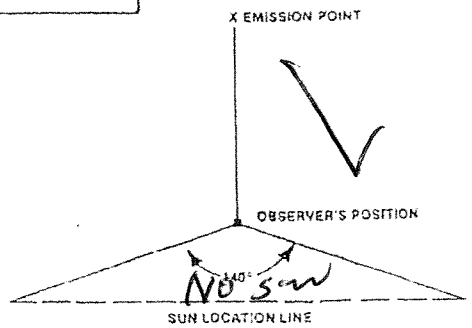
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse 1 & (2)
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 5 to 10 STOP 5 to 10
WIND DIRECTION	START NW STOP NW
AMBIENT TEMP.	START 64° STOP 64°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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OBSERVATION DATE: 10-29-23 — START TIME: 10:40 am — STOP TIME: 10:58 am

APPLICABLE OPACITY STANDARD: 3 % OPACITY — EPA METHOD 9 ☒ — TVEE METHOD 2 ☐ — TVEE METHOD 1 ☐ — TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 — NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony P. Ray

OBSERVER'S SIGNATURE: Tony P. Ray — DATE: 10-29-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) — DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouses | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

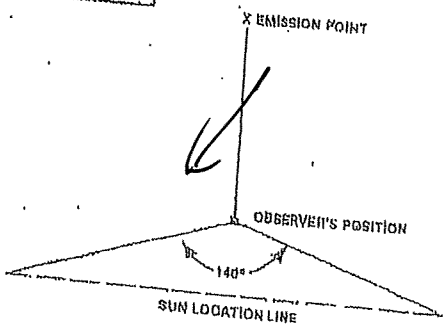
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 41 STOP 41 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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OBSERVATION DATE: 10-30-23 | START TIME: 7:30AM | STOP TIME: 7:48AM

APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 10-30-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

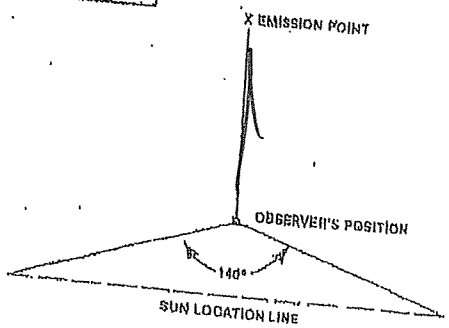
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 03 STOP 08 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 30 STOP 30 | WET BULB TEMP. | RH, Percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊂



OBSERVATION DATE: 10-3-23	START TIME: 8:10 Am	STOP TIME: 8:28 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE | DATE: 10-5-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee, Singleton Smoke School | DATE: 5-22-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

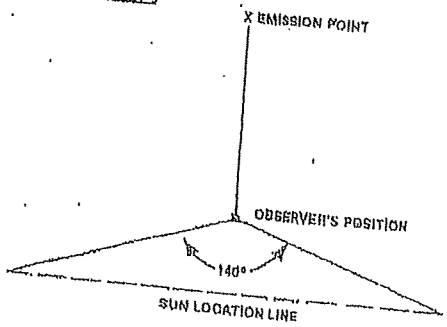
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 40 STOP 40 | WET BULB TEMP. | RH, Percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 11-1-23	START TIME: 10:45 Am	STOP TIME: 11:03 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE % WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Reynolds

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S SIGNATURE | DATE: 11-1-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 5-22-23

EN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PITOCER'S EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

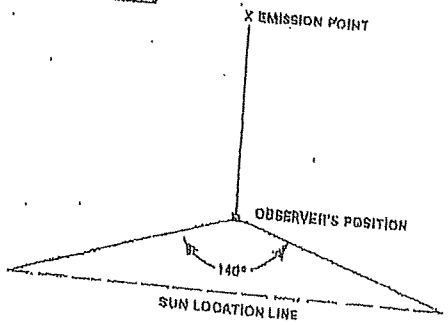
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 1015 STOP 1015 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 50 STOP 50 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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OBSERVATION DATE: 11-3-23 | START TIME: 9:40 Am | STOP TIME: 9:58 Am | COMMENTS:

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature]

DATE: 11-3-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School

DATE: 5-22-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

OBSERVATION DATE: 11-4-23 | START TIME: 7:30 am | STOP TIME: 7:48 am

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

	START	STOP
HEIGHT ABOVE GROUND LEVEL	76 ft	76 ft
HEIGHT RELATIVE TO OBSERVER	76 ft	76 ft
DISTANCE FROM OBSERVER	380 ft	380 ft
DIRECTION FROM OBSERVER	North	North

DESCRIBE VISIBLE EMISSIONS

START: — | STOP: —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

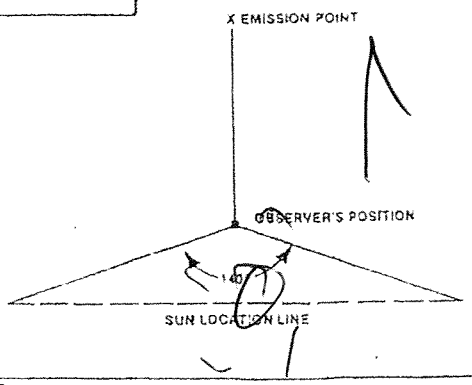
START: Sky | STOP: Sky

	START	STOP
BACKGROUND COLOR	Blue	Blue
SKY CONDITIONS	Clear	Clear
WIND SPEED	5-10	5-10
WIND DIRECTION	S	S
AMBIENT TEMP.	63°	63°

WET BULB TEMP.: | RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE STANDARD: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 11-4-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

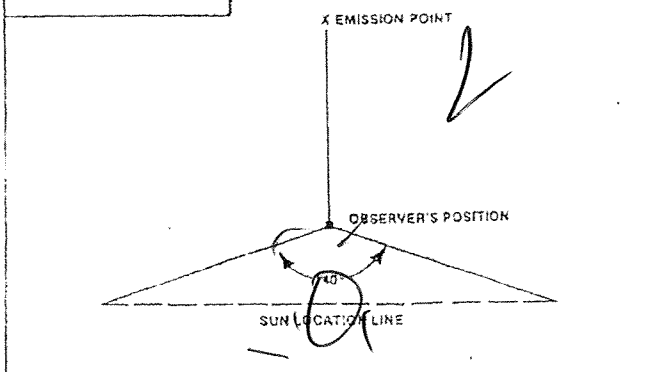
CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
OBSERVATION DATE: 11-5-23
START TIME: 7:30a
STOP TIME: 7:48a
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson
STATE: TN
ZIP: 38305
PHONE: (731) 424-5600
SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace
OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2)
OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP —
IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue
SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 0-5 STOP 0-5
WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 66° STOP 66°
WET BULB TEMP.:
RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson
DATE: 11-5-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
ORGANIZATION: Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE: 11-23-23
TITLE
DATE
VERIFIED BY: State Of Tennessee (Singleton Smoke School)
DATE: 5-23-23

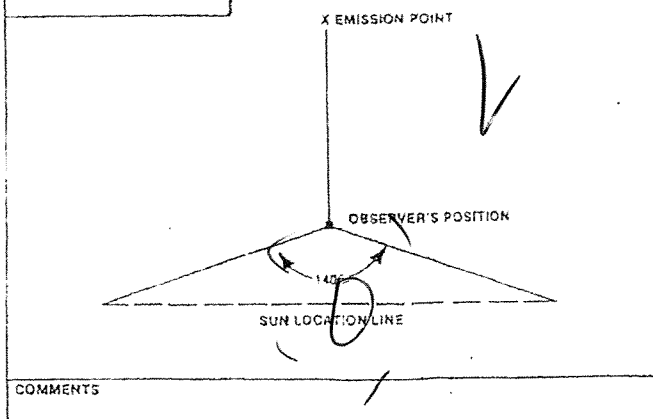
CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~STOP~~
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear
WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N
AMBIENT TEMP.: START 62° STOP 62° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 11-18-23 | START TIME: 9:42a | STOP TIME: 9:00a

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson
OBSERVER'S SIGNATURE: Mark Thompson | DATE: 11-18-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 11-23-23
TITLE | DATE
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Grey STOP Grey

SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10

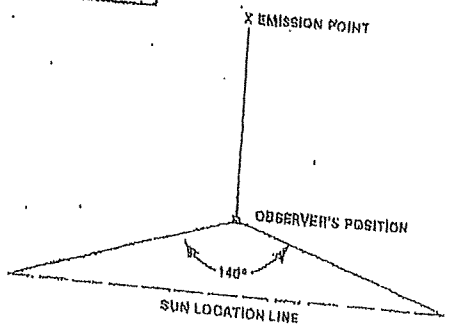
WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 50 STOP 50

WET BULB TEMP.: | RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE:

TITLE:

DATE:

OBSERVATION DATE: 11-20-23

START TIME: 9:12 AM | STOP TIME: 9:20 AM

MIN	SEC 0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☑ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE:

DATE: 11-20-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee / Singleton Smoke School

DATE: 11-15-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

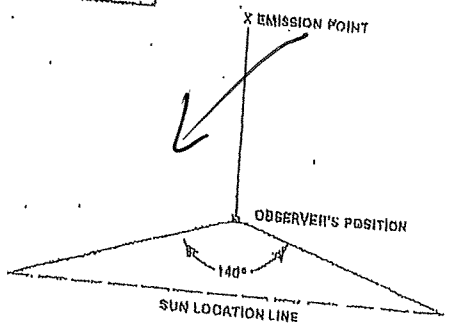
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 45 STOP 45 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 11-21-23 | START TIME: 7:20 AM | STOP TIME: 7:38 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 11-21-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-20-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouses

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

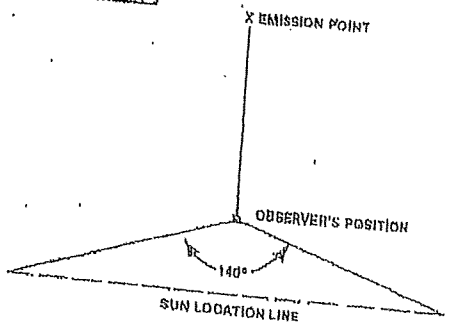
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 42 STOP 42 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 11-22-23 | START TIME: 5:12 Am | STOP TIME: 5:30 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE % WERE:

OBSERVER'S NAME (PRINT): Cody Fowlers

OBSERVER'S SIGNATURE | DATE: 11-22-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

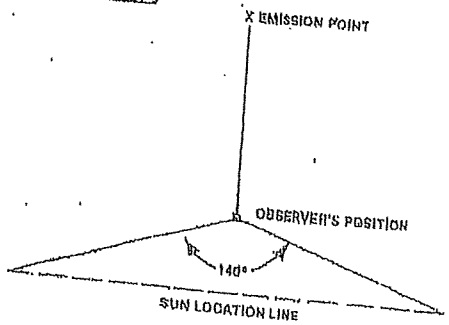
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloud STOP Cloud

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 50 STOP 50 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | DATE

TITLE

OBSERVATION DATE: 11-24-23 | START TIME: 10:35 Am | STOP TIME: 10:53 AM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Lynn

OBSERVER'S SIGNATURE: Cody Lynn | DATE: 11-24-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 11-15-23

DEPT. OF ENVIRONMENT & CONSERVATION

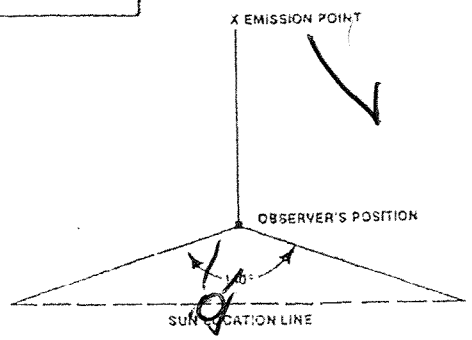
AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse 1 & (2)
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Clear STOP Clear
WIND SPEED	START 5-10 STOP 5-10
WIND DIRECTION	START NW STOP NW
AMBIENT TEMP.	START 53° STOP 53°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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OBSERVATION DATE: 11-25-23 | START TIME: 1:25 PM | STOP TIME: 1:43 PM

APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry DATE: 11-25-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) DATE: 11-15-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel	OBSERVATION DATE: 11-26-23	START TIME: 1:30 PM	STOP TIME: 1:48 PM

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of ~~Baghouse~~

	START	STOP
HEIGHT ABOVE GROUND LEVEL	76 ft	76 ft
HEIGHT RELATIVE TO OBSERVER	76 ft	76 ft
DISTANCE FROM OBSERVER	380 ft	380 ft
DIRECTION FROM OBSERVER	North	North

DESCRIBE VISIBLE EMISSIONS: START — STOP

EMISSION COLOR: START — STOP — IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

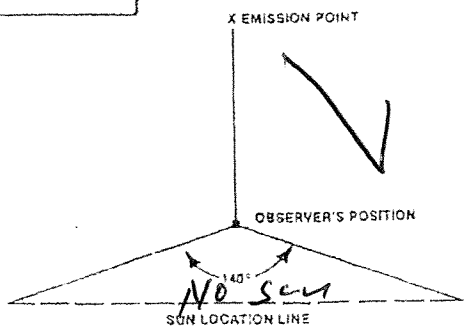
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

	START	STOP
BACKGROUND COLOR	Gray	Gray
SKY CONDITIONS	Cloudy	Cloudy
WIND SPEED	5to10	5to10
WIND DIRECTION	NW	NW
AMBIENT TEMP.	49°	49°

WET BULB TEMP. — RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Penny

OBSERVER'S SIGNATURE: [signature] DATE: 11-26-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE — TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) DATE: 11-15-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

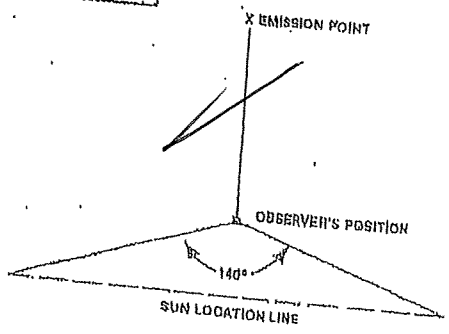
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 34 STOP 39 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 11-27-23 | START TIME: 10:10 am | STOP TIME: 10:28 am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE %: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 11-27-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State Of Tennessee, Singleton Smoke School | DATE: 11-20-23

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

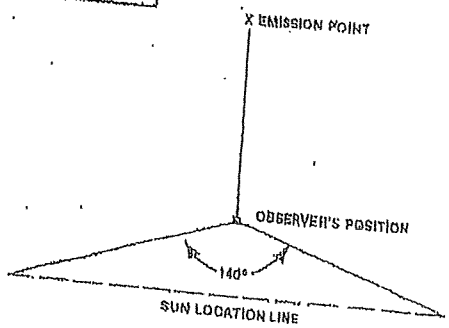
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 32 STOP 32 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 11-28-23 | START TIME: 8:30 Am | STOP TIME: 8:48 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☑ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE:

ORGANIZATION: Gerdau AmeriSteel | DATE: 11-28-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | CERTIFICATION EXPIRATION DATE: 5-15-24

DATE: 11-15-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

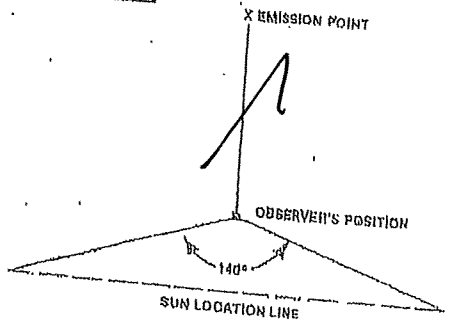
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 58 STOP 58 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 11-29-23 | START TIME: 12:20pm | STOP TIME: 12:38pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Ryckels

OBSERVER'S SIGNATURE:

DATE: 11-29-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee, Singleton Smoke School | DATE: 11-29-23

CN-0841

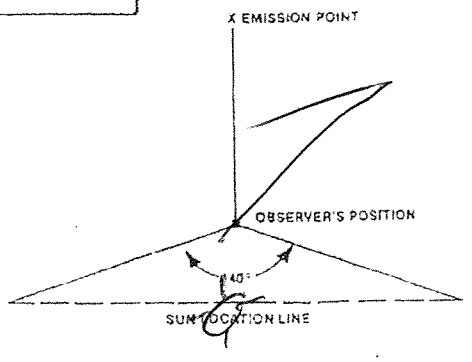
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 10-15 mph STOP 10-15 mph | WIND DIRECTION: START SW STOP SW
AMBIENT TEMP.: START 60° STOP 60° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 12/1/23 | START TIME: 1:30 PM | STOP TIME: 1:48 PM

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Morell
OBSERVER'S SIGNATURE: [signature] | DATE: 12/1/23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5/20/24
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11/20/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE
TITLE | DATE

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

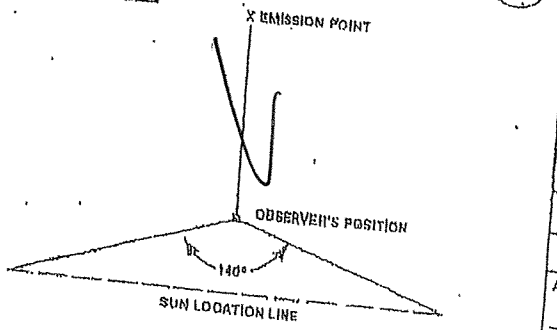
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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OBSERVATION DATE: 12-2-23 | START TIME: 9:50 Am | STOP TIME: 10:08 Am

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE: [signature] | DATE: 12-2-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5/15/24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11/15/23

ON-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~STOP~~

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

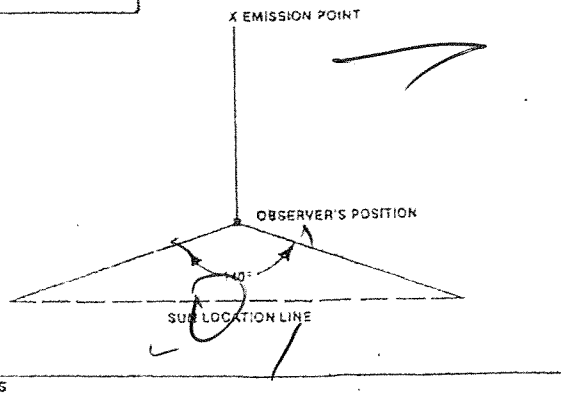
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START W STOP W

AMBIENT TEMP: START 52° STOP 52° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 12-3-23 | START TIME: 10:40 am | STOP TIME: 10:58 am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE 0 % WERE

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thorpe

OBSERVER'S SIGNATURE: Mark Thorpe | DATE: 12-3-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 11-20-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse | STOP:

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START: STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

BACKGROUND COLOR: START Grey STOP Grey

SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15

WIND DIRECTION: START N STOP N

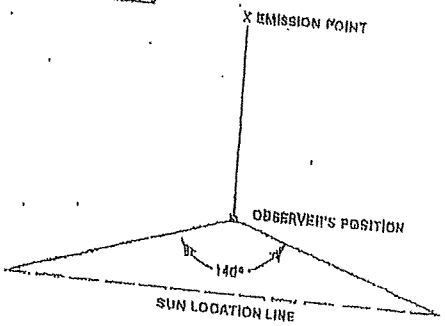
AMBIENT TEMP.: START 48 STOP 48

WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-4-23	START TIME: 11:50 Am	STOP TIME: 12:08 pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Kessler

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE:

TITLE:

DATE:

OBSERVER'S SIGNATURE:

ORGANIZATION: Gerdau AmeriSteel

DATE: 12-4-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

CERTIFICATION EXPIRATION DATE: 5-15-24

DATE: 11-15-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 15-20 STOP 15-20

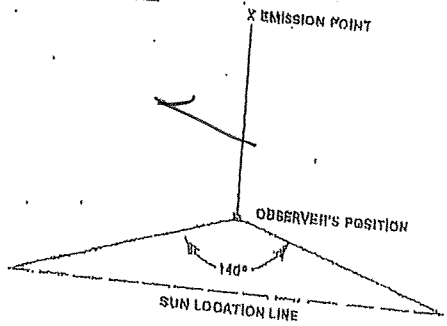
WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 54 STOP 54

WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



MIN	SEC 0	15	30	45	COMMENTS
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OBSERVATION DATE: 12-5-23

START TIME: 11:40am

STOP TIME: 11:58am

APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☑ TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

NUMBER OF READING ABOVE % WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman

ORGANIZATION: Gerdau AmeriSteel

DATE: 12-5-23

VERIFIED BY: State Of Tennessee Singleton Smoke School

CERTIFICATION EXPIRATION DATE: 5-20-24

DATE: 11-20-23

ON-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PRIMARY EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

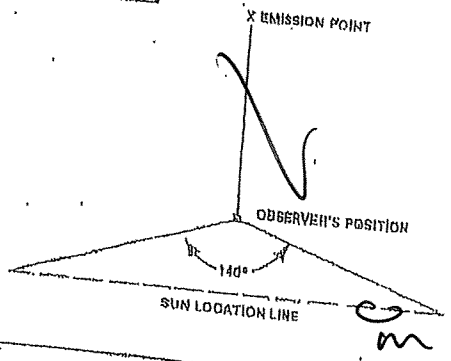
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 41 STOP 41 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 12-6-23 | START TIME: 9:20 Am | STOP TIME: 9:38 Am

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COMMENTS

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE

ORGANIZATION: Gerdau AmeriSteel | DATE: 12-6-23

VERIFIED BY: State Of Tennessee / Singleton Smoke School | CERTIFICATION EXPIRATION DATE: 5-15-24

DATE: 11-15-23

EN-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Grey STOP Grey

SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15

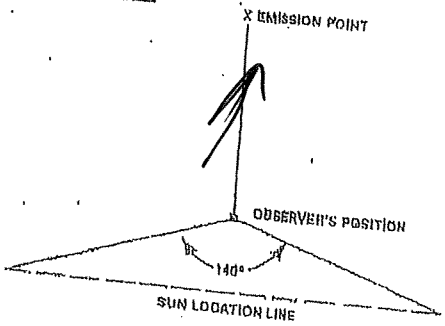
WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 55 STOP 55

WET BULB TEMP.: RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

OBSERVATION DATE: 12-8-23

START TIME: 11:12AM STOP TIME: 11:34AM

MIN \ SEC	0	15	30	45
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COMMENTS:

APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☑ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WHERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE:

ORGANIZATION: Gerdau AmeriSteel

DATE: 12-8-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

CERTIFICATION EXPIRATION DATE: 5-20-24

DATE: 11-20-23

ON-0041

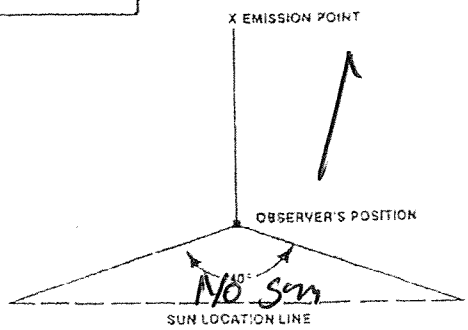
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 5to10 STOP 5to10 | WIND DIRECTION: START S STOP S
AMBIENT TEMP.: START 63° STOP 63° | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 12-9-23 | START TIME: 8:15 AM | STOP TIME: 8:33 AM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry
OBSERVER'S SIGNATURE: [signature] | DATE: 12-9-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

CN-0841

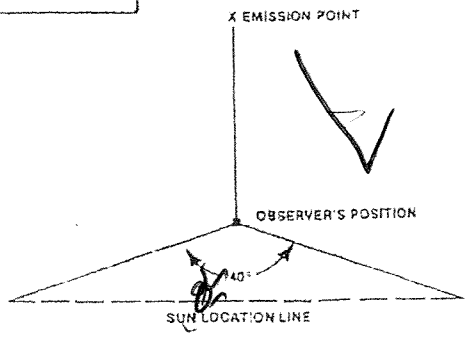
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse 1 & 2
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of Baghouse STOP
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START STOP
EMISSION COLOR	START STOP
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Sunny STOP Sunny
WIND SPEED	START 5to10 STOP 5to10
WIND DIRECTION	START NW STOP NW
AMBIENT TEMP.	START 46° STOP 46°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
12-10-23	1:50 pm	2:08 pm

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Pearce

OBSERVER'S SIGNATURE: Tony Pearce — DATE: 12-10-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau AmeriSteel — CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School) — DATE: 11-15-23

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL

START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER

START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER

START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER

START North STOP North

DESCRIBE VISIBLE EMISSIONS

START

STOP

EMISSION COLOR

START STOP

IF WATER DROPLET PLUME:

ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND

START Sky STOP Sky

BACKGROUND COLOR

START Blue STOP Blue

SKY CONDITIONS

START Clear STOP Clear

WIND SPEED

START 0-5 STOP 0-5

WIND DIRECTION

START SW STOP SW

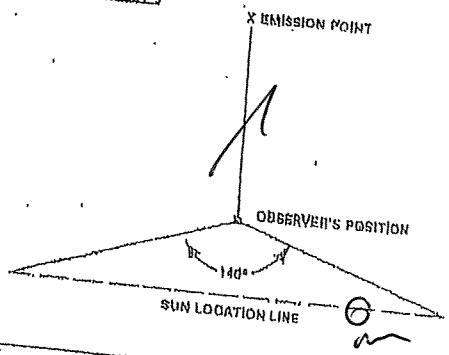
AMBIENT TEMP.

START 42 STOP 42

WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-12-23	START TIME: 9:00 Am	STOP TIME: 9:28 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

OBSERVER'S NAME (PRINT): Cody Fowlds

OBSERVER'S SIGNATURE:

DATE: 12-12-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

DATE: 11-15-23

EN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

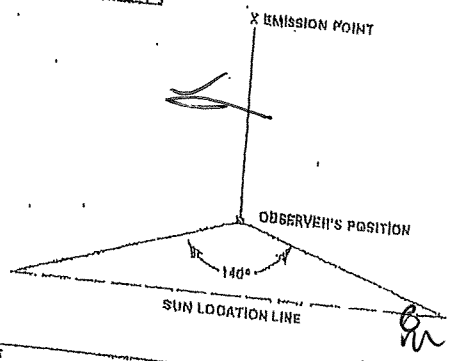
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 32 STOP 32 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



MIN	SEC 0	15	30	45	COMMENTS
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OBSERVATION DATE: 12-13-23 | START TIME: 7:45 Am | STOP TIME: 8:03 Am

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 12-13-23

ORGANIZATION: Gerdau AmeriSteel

VERIFIED BY: State Of Tennessee Singleton Smoke School | CERTIFICATION EXPIRATION DATE: 5-15-24 | DATE: 11-15-23

ON-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

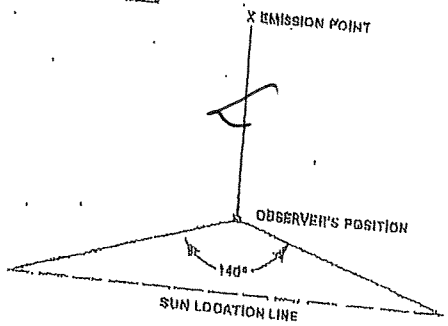
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 55 STOP 55 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



MIN \ SEC	0	15	30	45	COMMENTS
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OBSERVATION DATE: 12-14-23 | START TIME: 12:40pm | STOP TIME: 12:58pm

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Rogers

OBSERVER'S SIGNATURE | DATE: 12-14-23

ORGANIZATION: Gerdau AmeriSteel

VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

CERTIFICATION EXPIRATION DATE: 5-15-24

EN-0041

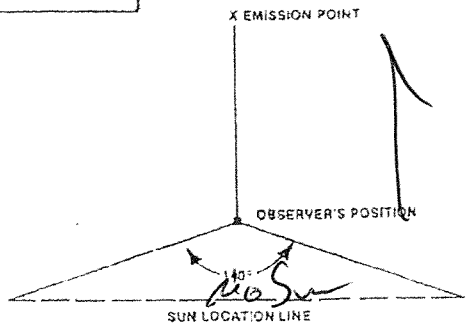
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau AmeriSteel
ADDRESS	801 Gerdau AmeriSteel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	Baghouse 1 & (2)
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Outlet on top of ~~Baghouse~~
HEIGHT ABOVE GROUND LEVEL	START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER	START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER	START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER	START North STOP North
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 5-10 STOP 5-10
WIND DIRECTION	START S STOP S
AMBIENT TEMP.	START 53° STOP 53°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
12-16-23	9:00am	9:18a

SEC / MIN	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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APPLICABLE OPACITY STANDARD	3 % OPACITY
EPA METHOD 9 ☒	TVEE METHOD 2 ☐
TVEE METHOD 1 ☐	TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE % WERE	0
COMMENTS	
OBSERVER'S NAME (PRINT)	Marlc Thompson
OBSERVER'S SIGNATURE	Mark Thomp
DATE	12-16-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau AmeriSteel
CERTIFICATION EXPIRATION DATE	5-30-24
VERIFIED BY	State Of Tennessee (Singleton Smoke School)
DATE	11-30-23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~STOP~~

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

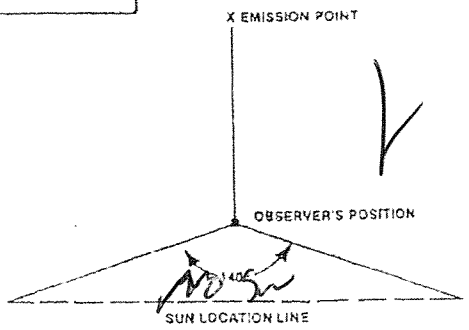
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 50° STOP 50° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-17-23 | START TIME: 11:40a | STOP TIME: 11:58a

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE ALWERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 12-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-30-24

VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 11-30-23

CN-0841

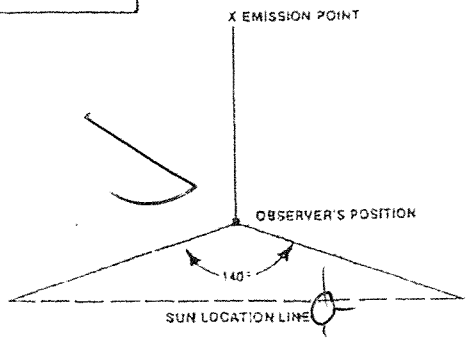
DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600
SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~STOP~~
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft
HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft
DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP —
IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Blue STOP Blue
SKY CONDITIONS: START Sunny STOP Sunny
WIND SPEED: START 10-15 mph STOP 10-15 mph
WIND DIRECTION: START NW STOP NW
AMBIENT TEMP: START 44° STOP 44°
WET BULB TEMP.:
RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 12/18/23
START TIME: 10:00 hrs | STOP TIME: 10:18 hrs

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APPLICABLE OPACITY STANDARD: 3 % OPACITY
EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0
NUMBER OF READING ABOVE %WERE: 0

COMMENTS:
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE:
TITLE: | DATE:

OBSERVER'S NAME (PRINT): Zach Mack
OBSERVER'S SIGNATURE: Zachary Mack | DATE: 12/18/23
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5/20/24
VERIFIED BY: State Of Tennessee Singleton Smoke School | DATE: 11/20/23

CN-0841

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

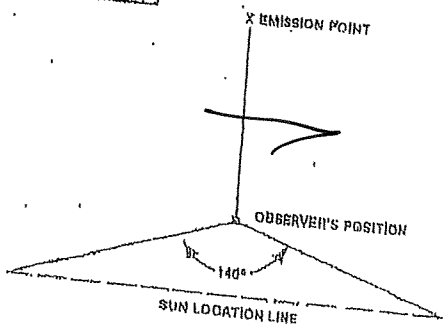
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 34 STOP 34 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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OBSERVATION DATE: 12-19-23 | START TIME: 10:20am | STOP TIME: 10:38am | COMMENTS:

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 12-19-23

ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State Of Tennessee, Singleton Smoke School | DATE: 11-20-23

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Outlet on top of Baghouse

HEIGHT ABOVE GROUND LEVEL

START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER

START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER

START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER

START North STOP North

DESCRIBE VISIBLE EMISSIONS

START

STOP

EMISSION COLOR

START STOP

IF WATER DROPLET PLUME:

ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND

START Sky STOP Sky

BACKGROUND COLOR

START Grey STOP Grey

SKY CONDITIONS

START OC STOP OC

WIND SPEED

START 5-10 STOP 5-10

WIND DIRECTION

START S STOP S

AMBIENT TEMP.

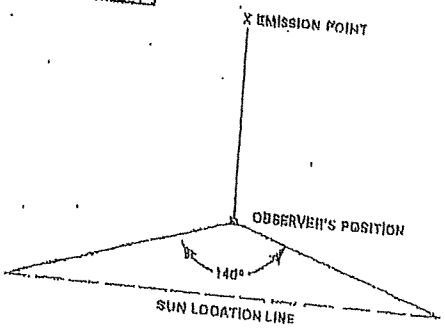
START 80 STOP 80

WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH

DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

OBSERVATION DATE: 12-20-23

START TIME: 10:20 Am

STOP TIME: 10:38 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☑ TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE

ORGANIZATION: Gerdau AmeriSteel

DATE: 12-20-23

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

CERTIFICATION EXPIRATION DATE: 8-15-24

DATE: 11-15-23

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft

HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft

DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Grey STOP Grey

SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10

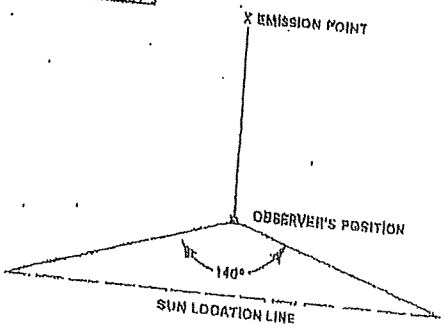
WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 80 STOP 80

WET BULB TEMP.: RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

OBSERVATION DATE: 12-21-23

START TIME: 10:30 Am

STOP TIME: 10:48 Am

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APPLICABLE OPACITY STANDARD: 3 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE:

DATE: 12-21-23

ORGANIZATION: Gerdau AmeriSteel

CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State Of Tennessee (Singleton Smoke School)

DATE: 11-15-23

ON-0041

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-014-Rev.0

VISIBLE EMISSION OBSERVATION

AIR POLLUTION CONTROL

SOURCE NAME: Gerdau AmeriSteel

ADDRESS: 801 Gerdau AmeriSteel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: Baghouse 1 & 2 | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Outlet on top of Baghouse | STOP

HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft

DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START | STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

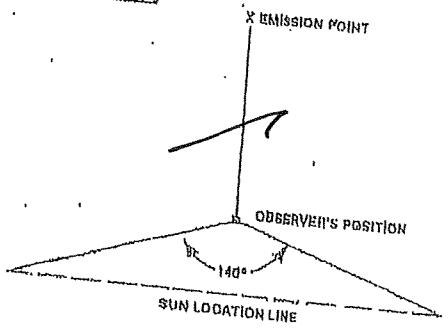
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 35 STOP 35 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



MIN	SEC 0	10	30	45	COMMENTS
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OBSERVATION DATE: 12-22-23 | START TIME: 7:35 AM | STOP TIME: 7:53 AM

APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☑ | TVEE METHOD 2 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature]

ORGANIZATION: Gerdau AmeriSteel | DATE: 12-22-23

VERIFIED BY: State Of Tennessee Singleton Smoke School | CERTIFICATION EXPIRATION DATE: 5-20-24

DATE: 11-20-23

DEPT. OF ENVIRONMENT & CONSERVATION — AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau AmeriSteel
ADDRESS: 801 Gerdau AmeriSteel Rd
CITY: Jackson | STATE: TN | ZIP: 38305
PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01
PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt
CONTROL EQUIPMENT: Baghouse 1 & (2) | OPERATING MODE: Continuous
DESCRIBE EMISSION POINT: START Outlet on top of Baghouse ~~STOP~~
HEIGHT ABOVE GROUND LEVEL: START 76 ft STOP 76 ft | HEIGHT RELATIVE TO OBSERVER: START 76 ft STOP 76 ft
DISTANCE FROM OBSERVER: START 380 ft STOP 380 ft | DIRECTION FROM OBSERVER: START North STOP North
DESCRIBE VISIBLE EMISSIONS: START — STOP —
EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy
WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START S STOP S
AMBIENT TEMP.: START 63° STOP 63° | WET BULB TEMP. | RH, percent

OBSERVATION DATE: 12-23-23 | START TIME: 1:40 PM | STOP TIME: 1:58 PM

SEC / MIN	0	15	30	45	COMMENTS
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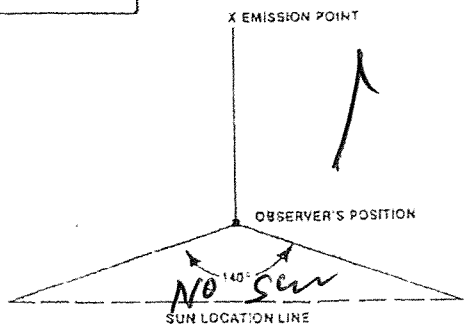
SUN ⊕ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



APPLICABLE OPACITY STANDARD: 3 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry
OBSERVER'S SIGNATURE | DATE: 12-23-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
SIGNATURE | TITLE | DATE
ORGANIZATION: Gerdau AmeriSteel | CERTIFICATION EXPIRATION DATE: 5-15-24
VERIFIED BY: State Of Tennessee (Singleton Smoke School) | DATE: 11-15-23

CN-0841

Log 9
Log of Opacity Observations for Source 02 for Compliance Purposes
Outlet Meltshop Canopy

	Date	Time Start	Time Stop	Read By	Mode of Operation	Sky Conditions	Wind MPH	6Min Avg	Prod. Day	Comments
x	1-Jul-23	12:10 PM	12:16 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	2-Jul-23	09:22 AM	09:28 AM	MT	Melting	Clear	10-15	0.00%	1	
x	3-Jul-23	04:00 PM	04:06 PM	CR	Melting	Clear	5-10	0.00%	1	
x	4-Jul-23	09:00 AM	09:06 AM	CR	Melting	Cloudy	0-5	0.00%	1	
x	5-Jul-23	07:20 AM	07:26 AM	CR	Melting	P.Cloudy	0-5	0.00%	1	
	6-Jul-23								1	No Daylight Operations
x	7-Jul-23	10:50 AM	11:56 AM	RC	Melting	Cloudy	0-5	0.00%	1	
x	8-Jul-23	01:00 PM	01:06 PM	TP	Melting	Cloudy	5-10	0.00%	1	
x	9-Jul-23	02:10 PM	02:16 PM	TP	Melting	Cloudy	6	0.00%	1	
x	10-Jul-23	11:20 AM	11:26 AM	CR	Melting	P.Cloudy	5-10	0.00%	1	
x	11-Jul-23	12:00 PM	12:06 PM	CR	Melting	P.Cloudy	0-5	0.00%	1	
x	12-Jul-23	01:20 PM	01:26 PM	RC	Melting	P.Cloudy	0-5	0.00%	1	
	13-Jul-23								1	No Daylight Operations
x	14-Jul-23	08:20 AM	08:26 AM	ZM	Melting	Cloudy	0-5	0.00%	1	
x	15-Jul-23	01:20 PM	01:26 PM	MT	Melting	Cloudy	10-15	0.00%	1	
x	16-Jul-23	07:10 AM	07:16 AM	MT	Melting	Clear	0-5	0.00%	1	
x	17-Jul-23	01:25 PM	01:31 PM	RC	Melting	Sunny	5-10	0.00%	1	
x	18-Jul-23	09:40 AM	09:46 AM	RC	Melting	P.Cloudy	5-10	0.00%	1	
	19-Jul-23								0	No Production
x	20-Jul-23	12:00 PM	12:06 PM	RC	Melting	Cloudy	10-15	0.00%	1	
x	21-Jul-23	08:20 AM	08:26 AM	RC	Melting	Cloudy	0-5	0.00%	1	
x	22-Jul-23	01:30 PM	01:36 PM	TP	Melting	Clear	5-10	0.00%	1	
x	23-Jul-23	11:30 AM	11:36 AM	TP	Melting	Clear	0-5	0.00%	1	
x	24-Jul-23	12:20 PM	12:26 PM	RC	Melting	Sunny	5-10	0.00%	1	
x	25-Jul-23	09:30 AM	09:36 AM	CR	Melting	Clear	5-10	0.00%	1	
x	26-Jul-23	11:50 AM	11:56 AM	CR	Melting	Overcast	5-10	0.00%	1	
	27-Jul-23								0	No Production
	28-Jul-23								0	No Production
x	29-Jul-23	06:35 PM	06:41 PM	BK	Melting	Sunny	5-10	0.00%	1	
	30-Jul-23								1	No Daylight Operations
x	31-Jul-23	09:40 AM	09:46 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	1-Aug-23	12:10 PM	12:16 PM	RC	Melting	P.Cloudy	0-5	0.00%	1	
x	2-Aug-23	11:50 AM	11:56 AM	CR	Melting	Rain	0-5	0.00%	1	
	3-Aug-23								1	No Daylight Operations
x	4-Aug-23	12:00 PM	12:06 PM	CR	Melting	Rain	0-5	0.00%	1	
x	5-Aug-23	01:00 PM	01:06 PM	TP	Melting	Clear	5-10	0.00%	1	
x	6-Aug-23	12:30 PM	12:36 PM	TP	Melting	Clear	5-10	0.00%	1	
x	7-Aug-23	12:55 PM	01:01 PM	RC	Melting	P.Cloudy	10-15	0.00%	1	
x	8-Aug-23	08:10 AM	08:16 AM	CR	Melting	Overcast	0-5	0.00%	1	
x	9-Aug-23	09:00 AM	09:06 AM	CR	Melting	Rain	5-10	0.00%	1	
	10-Aug-23								0	No Production
x	11-Aug-23	02:50 PM	02:56 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	12-Aug-23	12:50 PM	12:56 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	13-Aug-23	12:35 PM	12:41 PM	MT	Melting	Cloudy	5-10	0.00%	1	
x	14-Aug-23	07:00 AM	07:06 AM	CR	Melting	Rain	5-10	0.00%	1	
x	15-Aug-23	09:30 AM	09:36 AM	CR	Melting	Sunny	5-10	0.00%	1	
x	16-Aug-23	08:20 AM	08:26 AM	CR	Melting	Sunny	0-5	0.00%	1	
	17-Aug-23								0	No Production
x	18-Aug-23	10:20 AM	10:26 AM	CR	Melting	Sunny	5-10	0.00%	1	
x	19-Aug-23	01:05 PM	01:11 PM	TP	Melting	Clear	0-5	0.00%	1	
x	20-Aug-23	03:20 PM	03:26 PM	TP	Melting	Sunny	5-10	0.00%	1	
x	21-Aug-23	08:40 AM	08:46 AM	RC	Melting	Sunny	0-5	0.00%	1	
x	22-Aug-23	10:40 AM	10:46 AM	CR	Melting	Clear	0-5	0.00%	1	
x	23-Aug-23	07:20 AM	07:26 AM	RC	Melting	Sunny	0-5	0.00%	1	
	24-Aug-23								1	No Daylight Operations
x	25-Aug-23	07:50 AM	07:56 AM	ZM	Melting	Sunny	0-5	0.00%	1	
x	26-Aug-23	07:37 AM	07:43 AM	MT	Melting	Clear	0-5	0.00%	1	
x	27-Aug-23	09:10 AM	09:16 AM	MT	Melting	Cloudy	0-5	0.00%	1	
x	28-Aug-23	10:40 AM	10:46 AM	CR	Melting	Cloudy	10-15	0.00%	1	
x	29-Aug-23	08:40 AM	08:46 AM	CR	Melting	Overcast	0-5	0.00%	1	
x	30-Aug-23	10:30 AM	10:36 AM	CR	Melting	Sunny	10-15	0.00%	1	
	31-Aug-23								1	No Daylight Operations
x	1-Sep-23	09:20 AM	09:26 AM	CR	Melting	Clear	0-5	0.00%	1	
x	2-Sep-23	02:10 PM	02:16 PM	TP	Melting	Sunny	5-10	0.00%	1	
x	3-Sep-23	01:30 PM	01:36 PM	TP	Melting	Sunny	5-10	0.00%	1	
	4-Sep-23								0	No Production
	5-Sep-23								0	No Production
	6-Sep-23								1	No Daylight Operations
x	7-Sep-23	09:00 AM	09:06 AM	CR	Melting	Clear	5-10	0.00%	1	
x	8-Sep-23	08:10 AM	08:16 AM	ZM	Melting	Cloudy	0-5	0.00%	1	
x	9-Sep-23	09:20 AM	09:26 AM	MT	Melting	Clear	5-10	0.00%	1	
x	10-Sep-23	08:30 AM	08:36 AM	MT	Melting	Clear	5-10	0.00%	1	
x	11-Sep-23	10:45 AM	10:51 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	12-Sep-23	09:40 AM	09:46 AM	CR	Melting	Overcast	5-10	0.00%	1	
x	13-Sep-23	09:00 AM	09:06 AM	CR	Melting	Sunny	5-10	0.00%	1	
	14-Sep-23								1	No Daylight Operations
x	15-Sep-23	08:05 AM	08:11 AM	CR	Melting	Cloudy	5-10	0.00%	1	
x	16-Sep-23	08:32 AM	08:38 AM	MT	Melting	Clear	0-5	0.00%	1	
x	17-Sep-23	08:15 AM	08:21 AM	MT	Melting	Clear	0-5	0.00%	1	
x	18-Sep-23	09:10 AM	09:16 AM	CR	Melting	Cloudy	5-10	0.00%	1	
x	19-Sep-23	09:30 AM	09:36 AM	ZM	Melting	Sunny	0-5	0.00%	1	
x	20-Sep-23	11:20 AM	11:26 AM	CR	Melting	Sunny	0-5	0.00%	1	
	21-Sep-23								1	No Daylight Operations
x	22-Sep-23	07:20 AM	07:26 AM	CR	Melting	Overcast	0-5	0.00%	1	
x	23-Sep-23	09:22 AM	09:28 AM	MT	Melting	Clear	0-5	0.00%	1	
x	24-Sep-23	09:27 AM	09:33 AM	MT	Melting	Clear	5-10	0.00%	1	
x	25-Sep-23	11:20 AM	11:26 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	26-Sep-23	09:55 AM	10:01 AM	RC	Melting	P.Cloudy	0-5	0.00%	1	
x	27-Sep-23	09:30 AM	09:36 AM	CR	Melting	Sunny	5-10	0.00%	1	
	28-Sep-23								1	No Daylight Operations
x	29-Sep-23	11:10 AM	11:16 AM	ZM	Melting	Sunny	0-5	0.00%	1	
x	30-Sep-23	01:10 PM	01:16 PM	TP	Melting	Sunny	0-5	0.00%	1	
75									85	

75 reading/85 production days - 100% production days monitored
10 - No Daylight Production
0 - No normal continuous run-maintenance issues on startup

This content is Internal.

Log 9
Log of Opacity Observations for Source 02 for Compliance Purposes
Outlet Meltshop Canopy

	Date	Time Start	Time Stop	Read By	Mode of Operation	Sky Conditions	Wind MPH	6Min Avg	Prod. Day	Comments
x	1-Oct-23	02:15 PM	02:21 PM	TP	Melting	Sunny	5-10	0.00%	1	
x	2-Oct-23	11:30 AM	11:36 AM	CR	Melting	Sunny	0-5	0.00%	1	
x	3-Oct-23	10:55 AM	11:01 AM	CR	Melting	Clear	5-10	0.00%	1	
x	4-Oct-23	09:30 AM	09:36 AM	CR	Melting	Cloudy	10-15	0.00%	1	
	5-Oct-23								1	No Daylight Operations
x	6-Oct-23	07:50 AM	07:56 AM	RC	Melting	Sunny	5-10	0.00%	1	
x	7-Oct-23	09:50 AM	09:56 AM	MT	Melting	Clear	0-5	0.00%	1	
x	8-Oct-23	07:50 AM	07:56 AM	MT	Melting	Clear	5-10	0.00%	1	
x	9-Oct-23	09:55 AM	10:01 AM	RC	Melting	Sunny	10-15	0.00%	1	
x	10-Oct-23	12:10 PM	12:16 PM	RC	Melting	Sunny	5-10	0.00%	1	
x	11-Oct-23	01:20 PM	01:26 PM	RC	Melting	Cloudy	0-5	0.00%	1	
	12-Oct-23								1	No Daylight Operations
x	13-Oct-23	11:00 AM	11:06 AM	RC	Melting	Cloudy	5-10	0.00%	1	
x	14-Oct-23	08:20 AM	08:26 AM	MT	Melting	Cloudy	10-15	0.00%	1	
x	15-Oct-23	11:50 AM	11:56 AM	MT	Melting	Cloudy	10-15	0.00%	1	
x	16-Oct-23	09:40 AM	09:46 AM	CR	Melting	Cloudy	10-15	0.00%	1	
x	17-Oct-23	12:10 PM	12:16 PM	RC	Melting	Sunny	0-5	0.00%	1	
	18-Oct-23								0	No Production
	19-Oct-23								1	No Daylight Operations
x	20-Oct-23	09:10 AM	09:16 AM	ZM	Melting	Clear	0-5	0.00%	1	
x	21-Oct-23	09:17 AM	09:23 AM	MT	Melting	Clear	10-15	0.00%	1	
x	22-Oct-23	08:37 AM	08:43 AM	MT	Melting	Clear	0-5	0.00%	1	
x	23-Oct-23	01:55 PM	02:01 PM	RC	Melting	Sunny	0-5	0.00%	1	
x	24-Oct-23	12:00 PM	12:06 PM	CR	Melting	Sunny	5-10	0.00%	1	
x	25-Oct-23	07:30 AM	07:36 AM	CR	Melting	Clear	5-10	0.00%	1	
	26-Oct-23								0	No Production
x	27-Oct-23	01:40 PM	01:46 PM	CR	Melting	Rain	5-10	0.00%	1	
x	28-Oct-23	10:20 AM	10:26 AM	TP	Melting	P. Cloudy	5-10	0.00%	1	
x	29-Oct-23	10:40 AM	10:46 AM	TP	Melting	Cloudy	5-10	0.00%	1	
x	30-Oct-23	07:30 AM	07:36 AM	RC	Melting	Cloudy	10-15	0.00%	1	
x	31-Oct-23	08:10 AM	08:16 AM	CR	Melting	Cloudy	0-5	0.00%	1	
x	1-Nov-23	10:45 AM	10:51 AM	CR	Melting	Cloudy	0-5	0.00%	1	
	2-Nov-23								1	No Daylight Operations
x	3-Nov-23	09:40 AM	09:46 AM	CR	Melting	Overcast	10-15	0.00%	1	
x	4-Nov-23	07:30 AM	07:36 AM	MT	Melting	Clear	5-10	0.00%	1	
x	5-Nov-23	07:30 AM	07:36 AM	MT	Melting	Clear	0-5	0.00%	1	
	6-Nov-23								0	Outage
	7-Nov-23								0	Outage
	8-Nov-23								0	Outage
	9-Nov-23								0	Outage
	10-Nov-23								0	Outage
	11-Nov-23								0	Outage
	12-Nov-23								0	Outage
	13-Nov-23								0	Outage
	14-Nov-23								0	Outage
	15-Nov-23								0	Outage
	16-Nov-23								0	Outage
	17-Nov-23								0	Outage
x	18-Nov-23	08:42 AM	08:48 AM	MT	Melting	Clear	5-10	0.00%	1	
	19-Nov-23								0	No Production
x	20-Nov-23	09:12 AM	09:18 AM	CR	Melting	Rain	5-10	0.00%	1	
x	21-Nov-23	07:20 AM	7:26 AM	RC	Melting	Cloudy	10-15	0.00%	1	
x	22-Nov-23	09:12 AM	09:18 AM	CR	Melting	Overcast	5-10	0.00%	1	
	23-Nov-23								0	No Production
x	24-Nov-23	10:35 AM	10:41 AM	CR	Melting	Cloudy	5-10	0.00%	1	
x	25-Nov-23	01:25 PM	01:31 PM	TP	Melting	Clear	5-10	0.00%	1	
x	26-Nov-23	01:30 PM	01:36 PM	TP	Melting	Cloudy	5-10	0.00%	1	
x	27-Nov-23	10:10 AM	10:16 AM	RC	Melting	Cloudy	5-10	0.00%	1	
x	28-Nov-23	08:30 AM	08:36 AM	CR	Melting	P. Cloudy	5-10	0.00%	1	
x	29-Nov-23	12:20 PM	12:26 PM	CR	Melting	Clear	10-15	0.00%	1	
	30-Nov-23								1	No Daylight Operations
x	1-Dec-23	01:30 PM	01:36 PM	ZM	Melting	Cloudy	10-15	0.00%	1	
x	2-Dec-23	09:50 AM	09:56 AM	CR	Melting	Clear	5-10	0.00%	1	
x	3-Dec-23	10:40 AM	10:46 AM	MT	Melting	Clear	0-5	0.00%	1	
x	4-Dec-23	11:50 AM	11:56 AM	CR	Melting	Cloudy	10-15	0.00%	1	
x	5-Dec-23	11:40 AM	11:46 AM	RC	Melting	Sunny	15-20	0.00%	1	
x	6-Dec-23	09:20 AM	09:26 AM	CR	Melting	Sunny	0-5	0.00%	1	
	7-Dec-23								1	No Daylight Operations
x	8-Dec-23	11:12 AM	11:18 AM	RC	Melting	Cloudy	10-15	0.00%	1	
x	9-Dec-23	08:15 AM	08:21 AM	TP	Melting	Cloudy	5-10	0.00%	1	
x	10-Dec-23	01:50 PM	01:56 PM	TP	Melting	Sunny	5-10	0.00%	1	
	11-Dec-23								1	No Daylight Operations
x	12-Dec-23	09:10 AM	09:16 AM	CR	Melting	Clear	0-5	0.00%	1	
x	13-Dec-23	07:45 AM	07:51 AM	CR	Melting	Clear	5-10	0.00%	1	
x	14-Dec-23	12:40 PM	12:46 PM	CR	Melting	Clear	5-10	0.00%	1	
	15-Dec-23								1	No Daylight Operations
x	16-Dec-23	09:00 AM	09:06 AM	MT	Melting	Cloudy	5-10	0.00%	1	
x	17-Dec-23	11:40 AM	11:46 AM	MT	Melting	Cloudy	5-10	0.00%	1	
x	18-Dec-23	10:00 AM	10:06 AM	ZM	Melting	Sunny	10-15	0.00%	1	
x	19-Dec-23	10:20 AM	10:26 AM	RC	Melting	P. Cloudy	5-10	0.00%	1	
x	20-Dec-23	10:20 AM	10:26 AM	CR	Melting	Overcast	5-10	0.00%	1	
x	21-Dec-23	10:30 AM	10:36 AM	CR	Melting	Clear	5-10	0.00%	1	
x	22-Dec-23	07:35 AM	07:41 AM	RC	Melting	Sunny	0-5	0.00%	1	
x	23-Dec-23	01:40 PM	01:46 PM	TP	Melting	Cloudy	5-10	0.00%	1	
	24-Dec-23								0	No Production
	25-Dec-23								0	No Production
	26-Dec-23								0	No Production
	27-Dec-23								0	No Production
	28-Dec-23								0	No Production
	29-Dec-23								0	No Production
	30-Dec-23								0	No Production
	31-Dec-23								0	No Production
60									68	

60 reading/68 production days - 100% production days monitored
8 - No Daylight Production
0 - No normal continuous run-maintenance issues throughout day

This content is Internal.

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

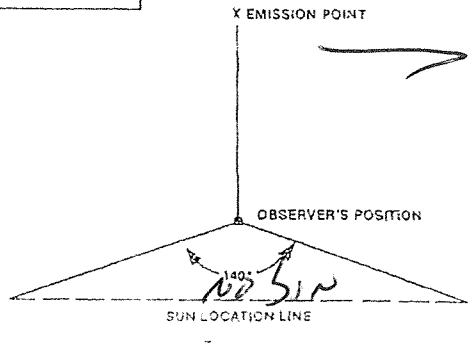
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 82° STOP 82° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-1-23 | START TIME: 12:10 pm | STOP TIME: 12:16 pm

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 7-1-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 7-2-23

START TIME: 9:22a

STOP TIME: 9:38a

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

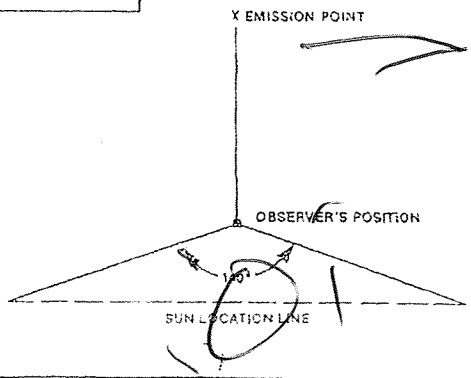
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 88° STOP 88° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



SEC / MIN	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 7-2-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-25

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

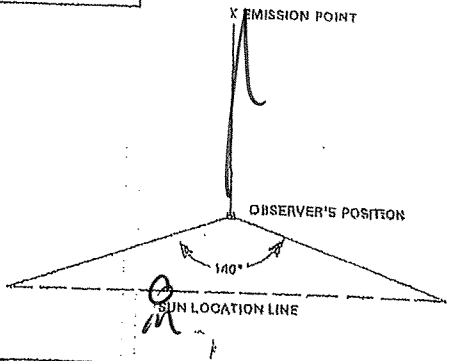
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 80 STOP 90 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-3-23 | START TIME: 4:00pm | STOP TIME: 4:06pm

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 [X] | TVEE METHOD 2 [ ] | TVEE METHOD 1 [ ] | TVEE METHOD 9 [ ]

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 7-3-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-10-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

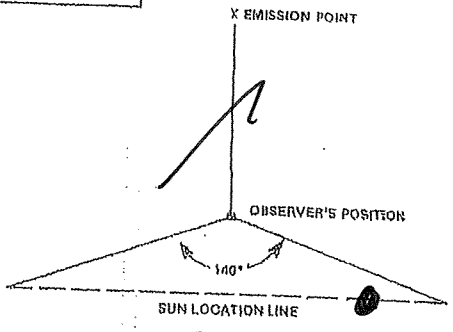
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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OBSERVATION DATE: 7-4-23 | START TIME: 5:00 Am | STOP TIME: 5:06 Am

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rymer

OBSERVER'S SIGNATURE | DATE: 7-4-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

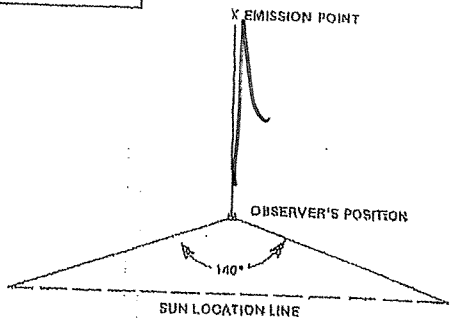
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
7-5-23	7:10 Am	7:26 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Bewley

OBSERVER'S SIGNATURE: [signature] DATE: 7-5-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

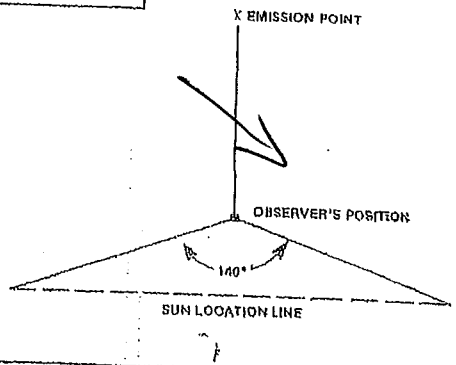
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 83 STOP 83 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-7-23 | START TIME: 10:50 AM | STOP TIME: 11:50 AM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 7-7-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

TITLE | DATE | VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

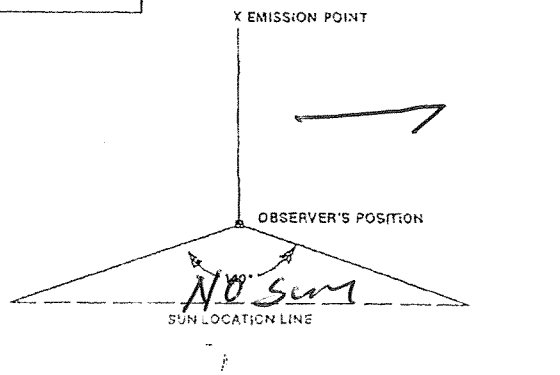
AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau Ameristeel
ADDRESS	801 Gerdau Ameristeel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	None
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Penthouse Canopy Top of Meltshop STOP
HEIGHT ABOVE GROUND LEVEL	START 120 ft STOP 120 ft
HEIGHT RELATIVE TO OBSERVER	START 120 ft STOP 120 ft
DISTANCE FROM OBSERVER	START 600 ft STOP 600 ft
DIRECTION FROM OBSERVER	START NE STOP NE
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 5to10 STOP 5to11
WIND DIRECTION	START W STOP W
AMBIENT TEMP.	START 88° STOP 88°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
7/8/23	1:00 PM	1:06 PM

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APPLICABLE OPACITY STANDARD	20 % OPACITY
EPA METHOD 9	☒
TVEE METHOD 2	☐
TVEE METHOD 1	☐
TVEE METHOD 3	☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE % WERE	0
COMMENTS	
OBSERVER'S NAME (PRINT)	Tony Perry
OBSERVER'S SIGNATURE	
DATE	7/8/23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau Ameristeel
CERTIFICATION EXPIRATION DATE	11/17/23
VERIFIED BY	State of Tennessee / Singleton Smoke School
DATE	5/17/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 7/9/23

START TIME: 2:10 pm

STOP TIME: 2:16 pm

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE: Melt

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START — STOP —

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND

START Sky STOP Sky

BACKGROUND COLOR: START Gray STOP Gray

SKY CONDITIONS: START cloudy STOP cloudy

WIND SPEED: START 6mph STOP 6mph

WIND DIRECTION: START NE STOP NE

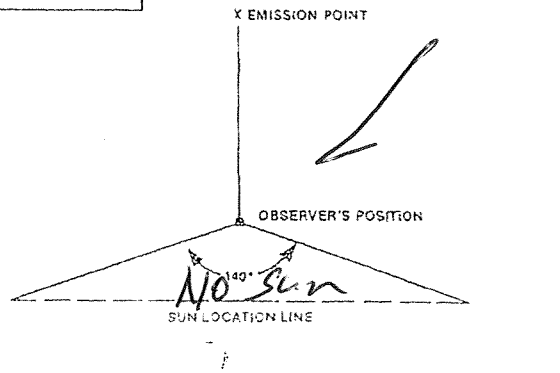
AMBIENT TEMP.: START 73° STOP 73°

WET BULB TEMP.:

RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry DATE: 7/9/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11/1/23

VERIFIED BY: State of Tennessee Singleton Smoke School DATE: 5/17/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

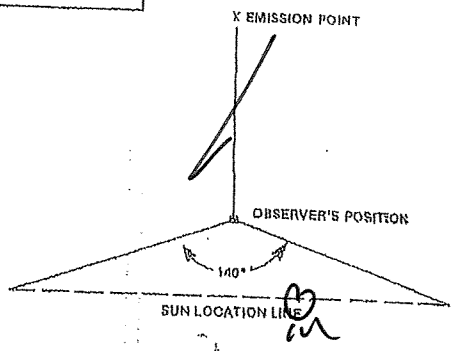
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-10-23 | START TIME: 11:20 Am | STOP TIME: 11:26 Am

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEC METHOD 2 ☐ | TVEC METHOD 1 ☐ | TVEC METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 7-10-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

TITLE | DATE | VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

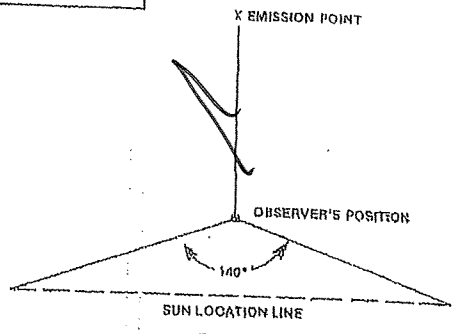
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START STOP | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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OBSERVATION DATE: 7-11-23 | START TIME: 12:00pm | STOP TIME: 12:06pm

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 [X] | TVEE METHOD 2 [ ] | TVEE METHOD 1 [ ] | TVEE METHOD 9 [ ]

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reeves

OBSERVER'S SIGNATURE | DATE: 7-11-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

TITLE | DATE | VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

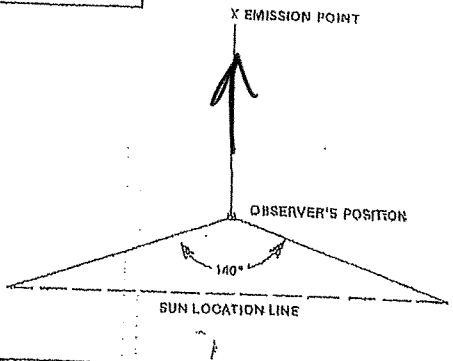
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START P Cloudy STOP P Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 89 STOP 89 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-12-23 | START TIME: 1:20 pm | STOP TIME: 1:26 pm

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] | DATE: 7-12-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 7/14/23

START TIME: 8:20 AM

STOP TIME: 8:26 AM

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE: Melt

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: — STOP: —

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Gray STOP Gray

SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 mph STOP 0-5 mph

WIND DIRECTION: START SSW STOP SSW

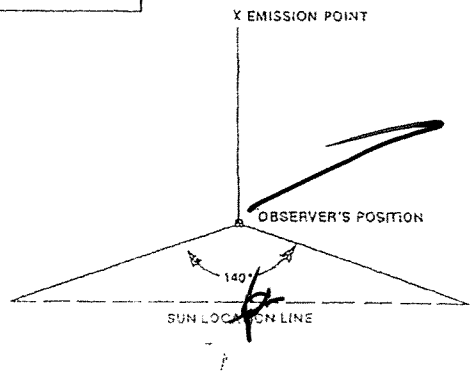
AMBIENT TEMP.: START 80° STOP 80°

WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Mccall

OBSERVER'S SIGNATURE:

DATE: 7/14/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State of Tennessee (Singleton Smoke School)

DATE: 5/17/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

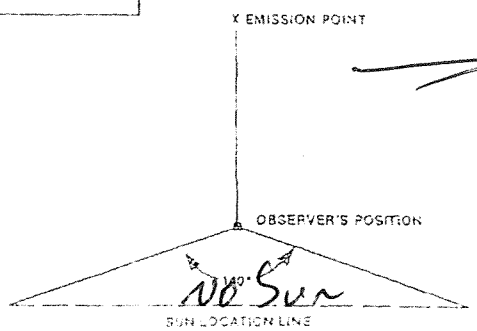
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-15-23 | START TIME: 1:20pm | STOP TIME: 1:26pm

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Marc Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 7-15-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0811

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 7-16-23

START TIME: 7:10a

STOP TIME: 7:16am

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE: Melt

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5

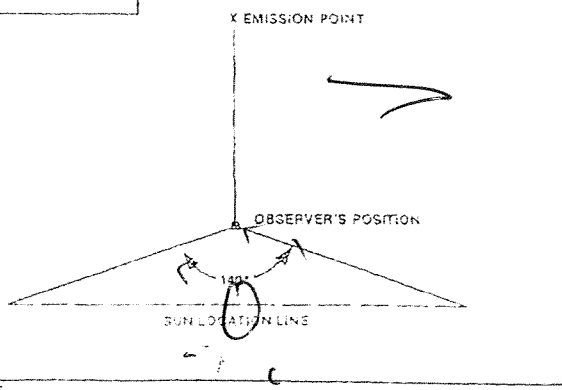
WIND DIRECTION: START W STOP W

AMBIENT TEMP: START 85° STOP 85°

WET BULB TEMP: | RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson

DATE: 7-16-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee (Singleton Smoke School)

DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop | STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

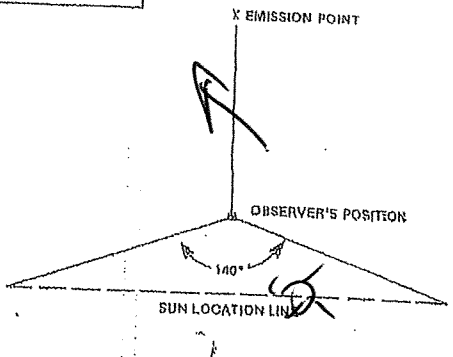
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 88 STOP 88 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 7-17-23 | START TIME: 1:25 pm | STOP TIME: 1:31 pm

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] | DATE: 7-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

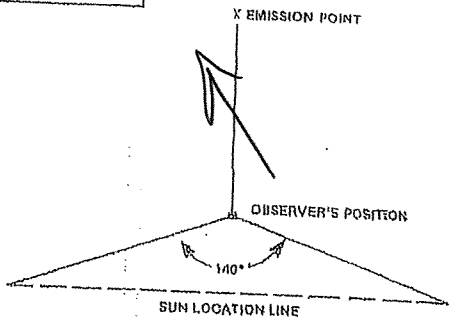
	START	STOP
HEIGHT ABOVE GROUND LEVEL	120 ft	120 ft
HEIGHT RELATIVE TO OBSERVER	120 ft	120 ft
DISTANCE FROM OBSERVER	600 ft	600 ft
DIRECTION FROM OBSERVER	NE	NE

DESCRIBE VISIBLE EMISSIONS

	START	STOP
EMISSION COLOR		
IF WATER DROPLET PLUME:	ATTACHED ☐	DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	Outlet (exit)	Outlet (exit)
DESCRIBE PLUME BACKGROUND	Sky	Sky
BACKGROUND COLOR	Grey	Grey
SKY CONDITIONS	PC	PC
WIND SPEED	5-10	5-10
WIND DIRECTION	SE	SE
AMBIENT TEMP.	85	87
WET BULB TEMP.		
RH, percent		

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-18-23 | START TIME: 9:40AM | STOP TIME: 9:46AM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] | DATE: 7-18-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

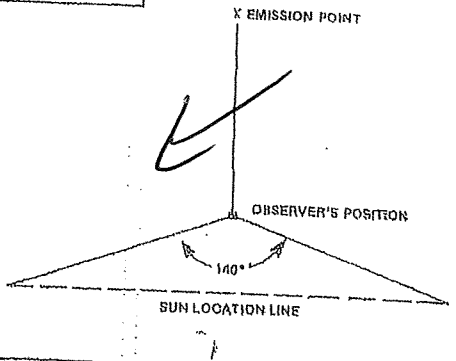
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 88 STOP 88 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 7-20-23 | START TIME: 12:00 PM | STOP TIME: 12:46 PM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 7-20-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

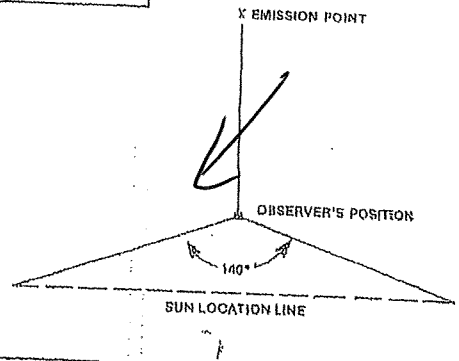
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 77 STOP 77 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 7-21-23 | START TIME: 8:20AM | STOP TIME: 8:26AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %: WERE 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] | DATE: 7-21-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015 Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

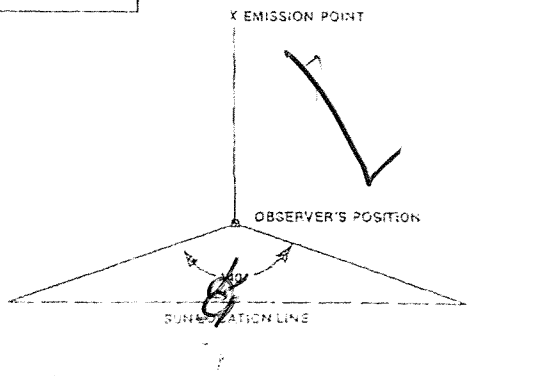
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP clear

WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 83 STOP 83 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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OBSERVATION DATE: 7-22-23 | START TIME: 1:30 pm | STOP TIME: 1:36 PM

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Penny

OBSERVER'S SIGNATURE: Tony Penny | DATE: 7-22-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0811

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

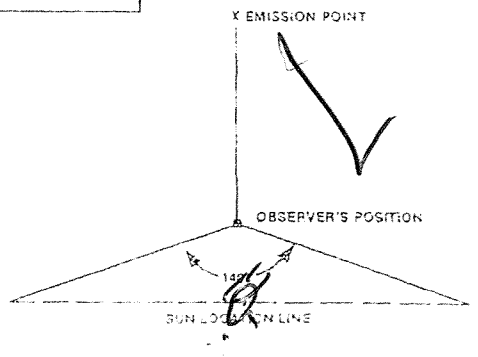
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-05 STOP 0-05 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 7/23/23 | START TIME: 11:30 AM | STOP TIME: 11:36 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE | DATE: 7/23/23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5/17/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop | STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

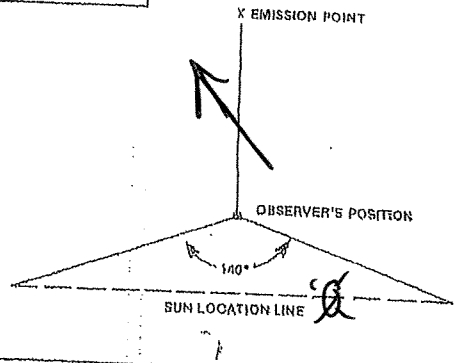
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 88 STOP 90 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 7-24-23 | START TIME: 12:20pm | STOP TIME: 12:26pm

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 7-24-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CW-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

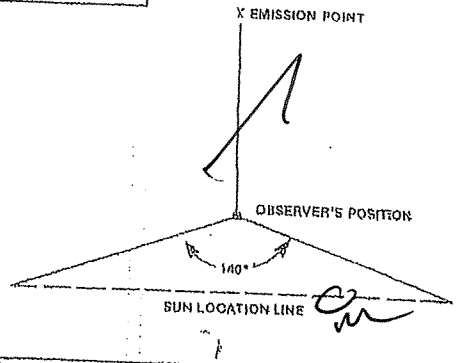
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START SW STOP SW | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 95 STOP 98 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
7-25-23	9:30 Am	9:36 Am

MIN \ SEC	0	15	30	45	COMMENTS
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3	0	0	0	6	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE: [signature] DATE: 7-25-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-12-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

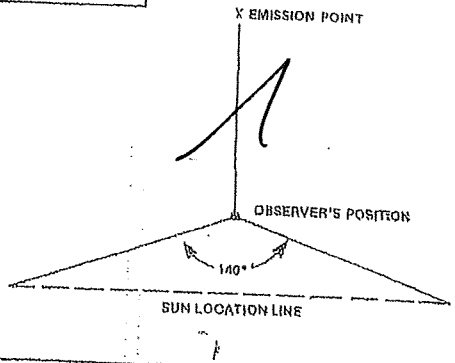
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
7-26-23	11:52 Am	11:57 Am

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 7-26-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

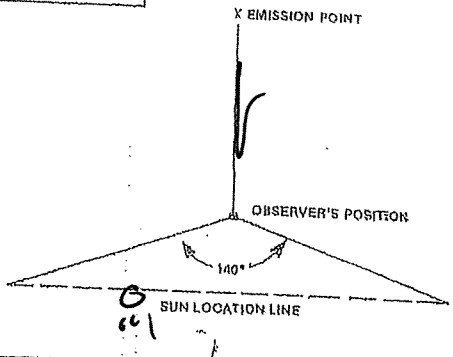
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 95 STOP 95 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 7-29-23 | START TIME: 6:35 pm | STOP TIME: 6:41 pm

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Brian King

OBSERVER'S SIGNATURE

ORGANIZATION: Gerdau Ameristeel

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 7/29/23

CERTIFICATION EXPIRATION DATE: 11/20/23

DATE: 8/22/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

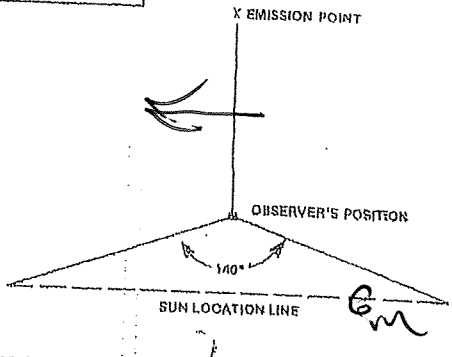
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 82 STOP 82 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 7-31-23 | START TIME: 9:40 hrs | STOP TIME: 9:46 hrs

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 7-31-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop | STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

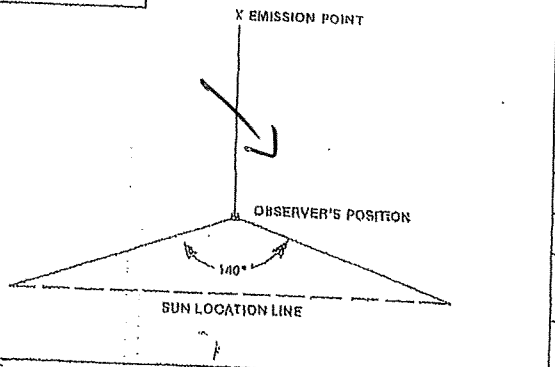
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 85 STOP 85 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 8-1-23 | START TIME: 12:10 PM | STOP TIME: 12:16 PM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 8-1-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

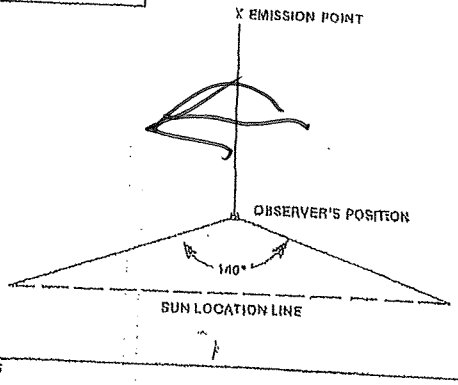
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
8-2-23	11:50 Am	11:56 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Pruett

OBSERVER'S SIGNATURE: [signature] | DATE: 8-2-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 8-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop | STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

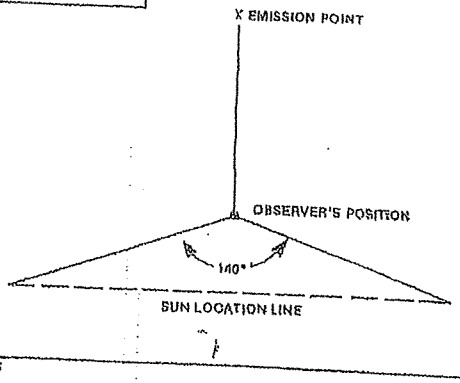
BACKGROUND COLOR: START Gy STOP Gy | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN WIND PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
8-4-23	12:00pm	12:06 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rueda

OBSERVER'S SIGNATURE: | DATE: 8-4-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

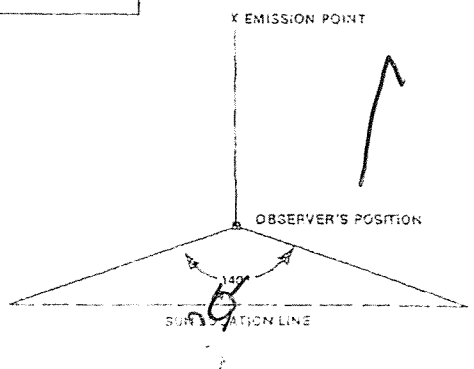
AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau Ameristeel
ADDRESS	801 Gerdau Ameristeel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	None
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Penthouse Canopy Top of Meltshop STOP
HEIGHT ABOVE GROUND LEVEL	START 120 ft STOP 120 ft
HEIGHT RELATIVE TO OBSERVER	START 120 ft STOP 120 ft
DISTANCE FROM OBSERVER	START 600 ft STOP 600 ft
DIRECTION FROM OBSERVER	START NE STOP NE
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Clear STOP Clear
WIND SPEED	START 5 to 10 STOP 5 to 10
WIND DIRECTION	START S STOP S
AMBIENT TEMP.	START 90° STOP 90°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
8-5-23	1:00 PM	1:06 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry — DATE: 8-5-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau Ameristeel — CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee (Singleton Smoke School) — DATE: 5-17-23

CN-0811

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

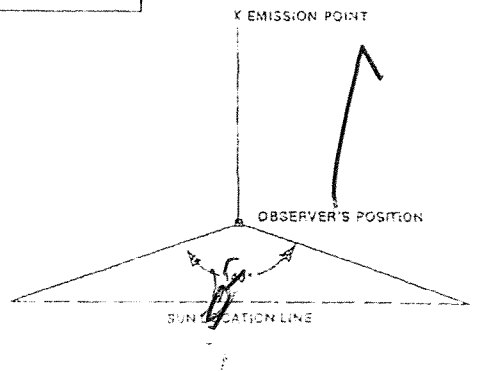
AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau Ameristeel
ADDRESS	801 Gerdau Ameristeel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	None
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT START	Penthouse Canopy Top of Meltshop
DESCRIBE EMISSION POINT STOP	
HEIGHT ABOVE GROUND LEVEL START	120 ft
HEIGHT ABOVE GROUND LEVEL STOP	120 ft
HEIGHT RELATIVE TO OBSERVER START	120 ft
HEIGHT RELATIVE TO OBSERVER STOP	120 ft
DISTANCE FROM OBSERVER START	600 ft
DISTANCE FROM OBSERVER STOP	600 ft
DIRECTION FROM OBSERVER START	NE
DIRECTION FROM OBSERVER STOP	NE
DESCRIBE VISIBLE EMISSIONS START	—
DESCRIBE VISIBLE EMISSIONS STOP	—
EMISSION COLOR START	—
EMISSION COLOR STOP	—
IF WATER DROPLET PLUME: ATTACHED ☐	DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START	Outlet (exit)
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED STOP	Outlet (exit)
DESCRIBE PLUME BACKGROUND START	Sky
DESCRIBE PLUME BACKGROUND STOP	Sky
BACKGROUND COLOR START	Blue
BACKGROUND COLOR STOP	Blue
SKY CONDITIONS START	clear
SKY CONDITIONS STOP	clear
WIND SPEED START	5 to 10
WIND SPEED STOP	5 to 10
WIND DIRECTION START	S
WIND DIRECTION STOP	S
AMBIENT TEMP. START	88°
AMBIENT TEMP. STOP	88°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ◁



OBSERVATION DATE	START TIME	STOP TIME
8-6-23	12:30 PM	12:36 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READINGS ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): TONY PERRY

OBSERVER'S SIGNATURE: Tony Perry — DATE: 8-6-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau Ameristeel — CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School — DATE: 5-11-23

CN-0811

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START: STOP: | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

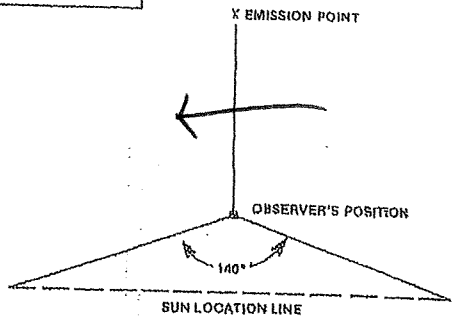
BACKGROUND COLOR: START: Grey STOP: Grey | SKY CONDITIONS: START: PC STOP: PC

WIND SPEED: START: 10-15 STOP: 10-15 | WIND DIRECTION: START: E STOP: E

AMBIENT TEMP.: START: 82 STOP: 82 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 8-7-23 | START TIME: 12:55 pm | STOP TIME: 1:01 pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: | DATE: 8-7-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0641

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 8-8-23

START TIME: 8:10 Am

STOP TIME: 8:16 Am

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP:

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Gry STOP Gry

SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 0-5 STOP 0-5

WIND DIRECTION: START SW STOP SW

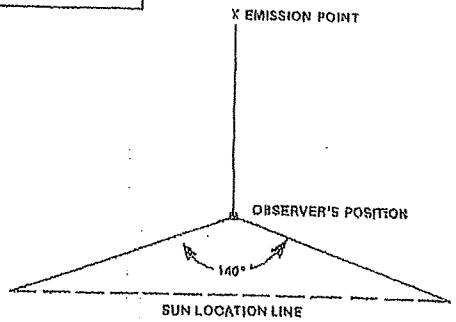
AMBIENT TEMP.: START 75 STOP 75

WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE:

DATE: 8-8-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 8-9-23

START TIME: 5:00 Am

STOP TIME: 6:06 Am

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Grey STOP Grey

SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10

WIND DIRECTION: START S STOP S

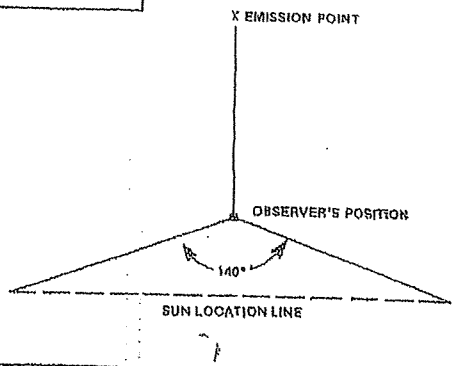
AMBIENT TEMP.: START 70 STOP 70

WET BULB TEMP.:

RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE

DATE: 8-9-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015 Rev.0

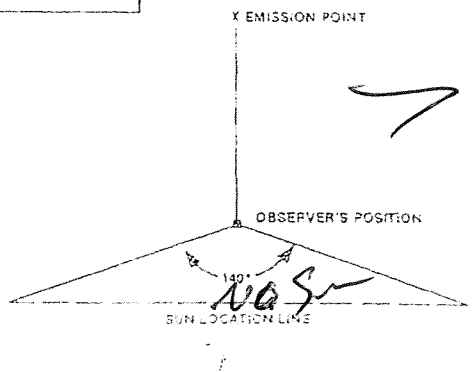
AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau Ameristeel
ADDRESS	801 Gerdau Ameristeel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	None
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Penthouse Canopy Top of Meltshop STOP
HEIGHT ABOVE GROUND LEVEL	START 120 ft STOP 120 ft
HEIGHT RELATIVE TO OBSERVER	START 120 ft STOP 120 ft
DISTANCE FROM OBSERVER	START 600 ft STOP 600 ft
DIRECTION FROM OBSERVER	START NE STOP NE
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Gray STOP Gray
SKY CONDITIONS	START Cloudy STOP Cloudy
WIND SPEED	START 5-10 STOP 5-10
WIND DIRECTION	START W STOP W
AMBIENT TEMP.	START 85° STOP 85°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ☁



OBSERVATION DATE	START TIME	STOP TIME
8-11-23	2:50pm	2:56pm

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APPLICABLE OPACITY STANDARD	20 % OPACITY
EPA METHOD 9 ☒	TVEE METHOD 2 ☐
TVEE METHOD 1 ☐	TVEE METHOD 3 ☐
AVERAGE OPACITY FOR HIGHEST PERIOD	0
NUMBER OF READING ABOVE % WERE	0
COMMENTS	
OBSERVER'S NAME (PRINT)	Mark Thompson
OBSERVER'S SIGNATURE	Mark Thomp
DATE	8-11-23
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS	
SIGNATURE	
TITLE	
DATE	
ORGANIZATION	Gerdau Ameristeel
CERTIFICATION EXPIRATION DATE	11-23-23
VERIFIED BY	State of Tennessee Singleton Smoke School
DATE	5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

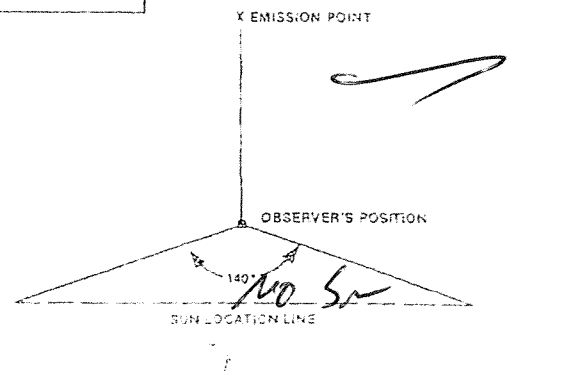
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 81° STOP 81° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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OBSERVATION DATE: 8-12-23 | START TIME: 12:50pm | STOP TIME: 12:56pm

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 8-12-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0811

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

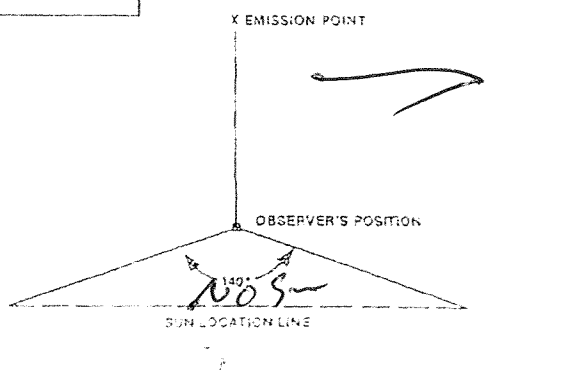
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 80° STOP 80° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ☐



OBSERVATION DATE	START TIME	STOP TIME
8-13-23	12:35 pm	13:41 pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE STD WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 8-13-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 1-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 8-14-23

START TIME: 7:00 Am

STOP TIME: 7:06 Am

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue Grey STOP Grey

SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10

WIND DIRECTION: START NW STOP NW

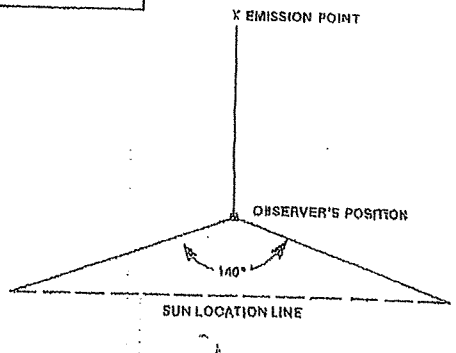
AMBIENT TEMP.: START 78 STOP 79

WET BULB TEMP.:

RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature]

DATE: 8-14-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

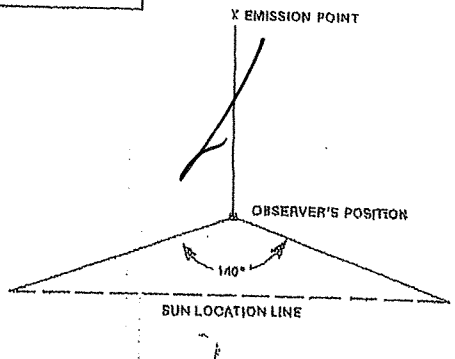
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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OBSERVATION DATE: 8-15-23 | START TIME: 9:30 AM | STOP TIME: 9:36 AM

APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE: [signature] | DATE: 8-15-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 8-16-23

START TIME: 8:20 Am

STOP TIME: 8:26 Am

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 6-5 STOP 6-5

WIND DIRECTION: START E STOP E

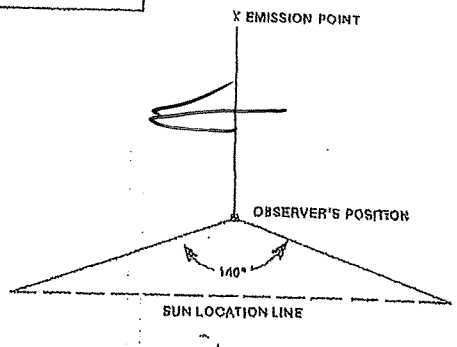
AMBIENT TEMP.: START 70 STOP 70

WET BULB TEMP.:

RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE 0 %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE:

DATE: 8-16-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

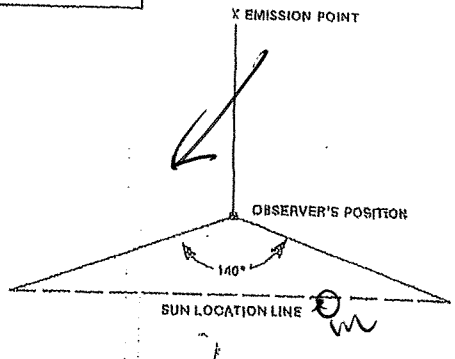
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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OBSERVATION DATE: 8/18/23 | START TIME: 10:20 Am | STOP TIME: 10:26 Am

APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Ryals

OBSERVER'S SIGNATURE: [signature] | DATE: 8-18-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-22-23

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

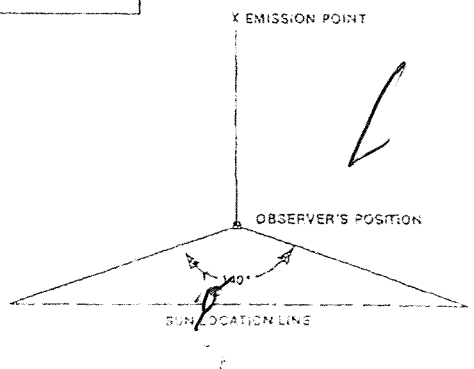
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-05 STOP 0-05 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 87° STOP 87° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 8-19-23 | START TIME: 1:05 PM | STOP TIME: 1:11 PM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Tony Dunn

OBSERVER'S SIGNATURE | DATE: 8-19-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee (Singleton Smoke School) | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 8-20-23

START TIME: 3:20 PM

STOP TIME: 3:26 PM

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5to10 STOP 5to10

WIND DIRECTION: START SE STOP SE

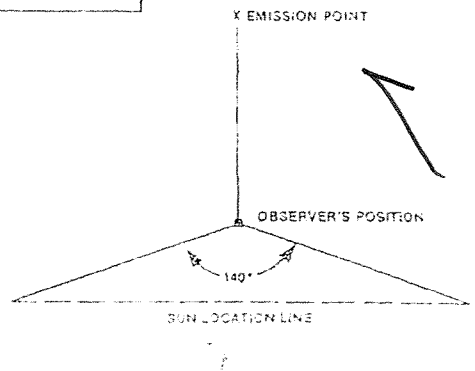
AMBIENT TEMP.: START 93° STOP 93

WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry | DATE: 8-20-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

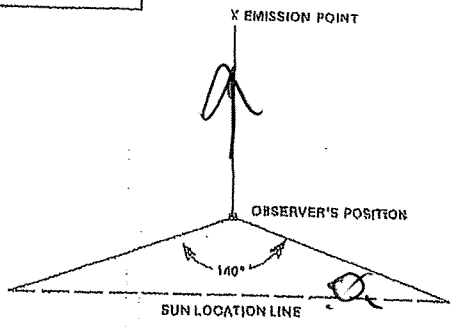
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 81 STOP 81 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 8-21-23 | START TIME: 8:40AM | STOP TIME: 8:46 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] DATE: 8-21-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

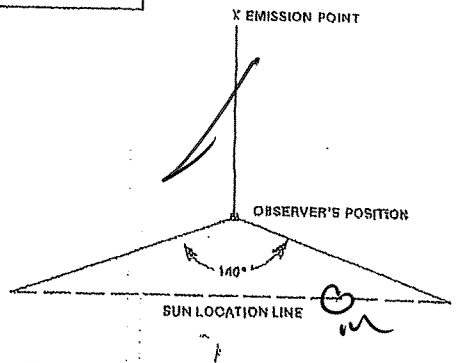
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 90 STOP 90 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
5-22-23	10:40 AM	10:46 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Bennett

OBSERVER'S SIGNATURE: [signature] DATE: 5-8-2023

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 8-23-23

START TIME: 7:20 Am

STOP TIME: 7:26Am

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5

WIND DIRECTION: START NW STOP NW

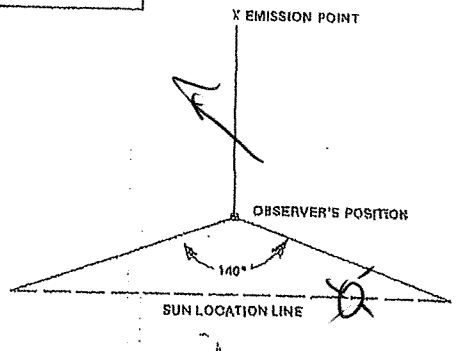
AMBIENT TEMP.: START 74 STOP 77

WET BULB TEMP.:

RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 8-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

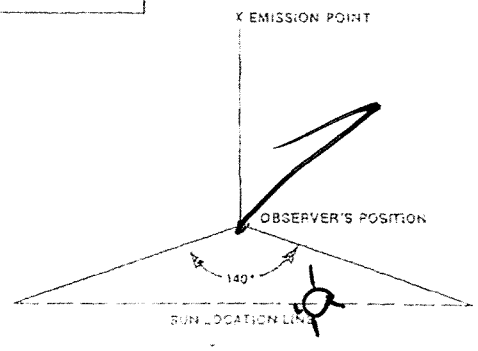
AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau Ameristeel
ADDRESS	801 Gerdau Ameristeel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	None
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	Penthouse Canopy Top of Meltshop
HEIGHT ABOVE GROUND LEVEL START	120 ft
HEIGHT ABOVE GROUND LEVEL STOP	120 ft
HEIGHT RELATIVE TO OBSERVER START	120 ft
HEIGHT RELATIVE TO OBSERVER STOP	120 ft
DISTANCE FROM OBSERVER START	600 ft
DISTANCE FROM OBSERVER STOP	600 ft
DIRECTION FROM OBSERVER START	NE
DIRECTION FROM OBSERVER STOP	NE
DESCRIBE VISIBLE EMISSIONS START	—
DESCRIBE VISIBLE EMISSIONS STOP	—
EMISSION COLOR START	—
EMISSION COLOR STOP	—
IF WATER DROPLET PLUME: ATTACHED ☐	DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START	Outlet (exit)
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED STOP	Outlet (exit)
DESCRIBE PLUME BACKGROUND START	Sky
DESCRIBE PLUME BACKGROUND STOP	Sky
BACKGROUND COLOR START	Blue
BACKGROUND COLOR STOP	Blue
SKY CONDITIONS START	Sunny
SKY CONDITIONS STOP	Sunny
WIND SPEED START	0-5 mph
WIND SPEED STOP	0-5 mph
WIND DIRECTION START	SW
WIND DIRECTION STOP	SW
AMBIENT TEMP. START	80°
AMBIENT TEMP. STOP	80°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊂



OBSERVATION DATE: 8/25/23

START TIME: 7:50 AM

STOP TIME: 7:56 AM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

OBSERVER'S NAME (PRINT): Zach Marett

OBSERVER'S SIGNATURE

DATE: 8/25/23

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11/19/25

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 5/17/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

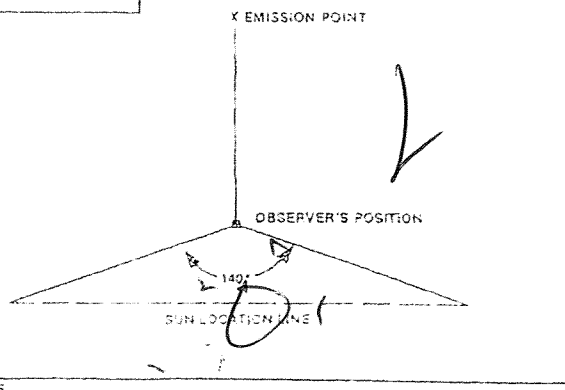
AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau Ameristeel
ADDRESS	801 Gerdau Ameristeel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	None
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Penthouse Canopy Top of Meltshop STOP
HEIGHT ABOVE GROUND LEVEL	START 120 ft STOP 120 ft
HEIGHT RELATIVE TO OBSERVER	START 120 ft STOP 120 ft
DISTANCE FROM OBSERVER	START 600 ft STOP 600 ft
DIRECTION FROM OBSERVER	START NE STOP NE
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Clear STOP Clear
WIND SPEED	START 0-5 STOP 0-5
WIND DIRECTION	START N STOP N
AMBIENT TEMP.	START 85° STOP 85°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
8-26-23	7:37a	7:43a

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson

DATE: 8-26-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee (Singleton Smoke School)

DATE: 5-23-23

CN-0811

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 8-27-23

START TIME: 9:10 am

STOP TIME: 9:16 am

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE: Melt

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Gray STOP Gray

SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5

WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 77° STOP

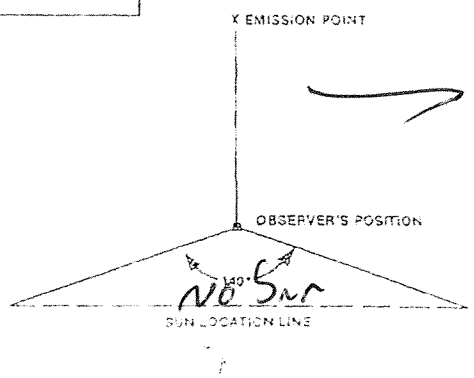
WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND →

PLUME AND STACK ⊏



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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE STANDARD: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson DATE: 8-27-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee (Singleton Smoke School) DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

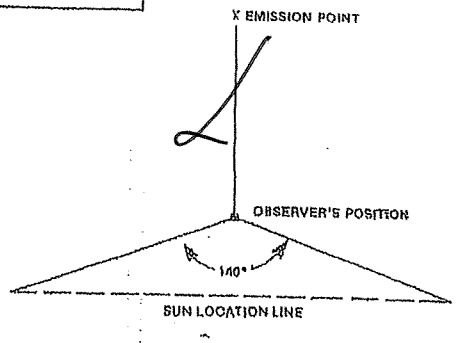
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 85 STOP 85 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 8-28-23 | START TIME: 10:40 Am | STOP TIME: 10:46 Am

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 8-28-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-28-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

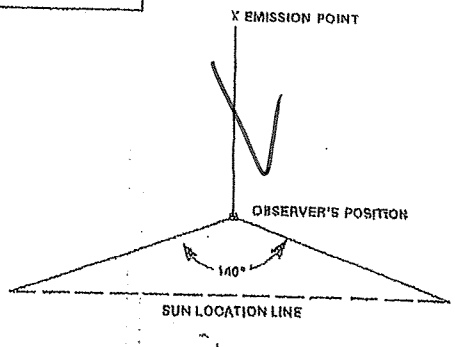
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
8-29-23	8:40 Am	8:46 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] DATE: 8-29-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-30-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 8-29-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

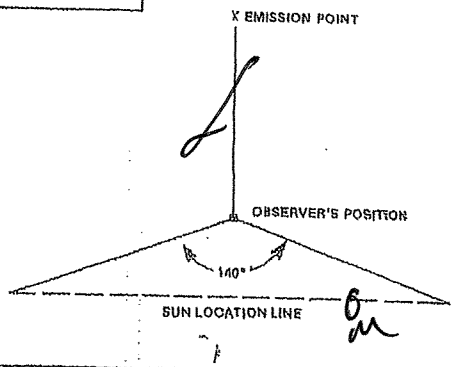
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 81 STOP 81 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 8-30-23 | START TIME: 10:30 Am | STOP TIME: 10:36 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 08-30-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

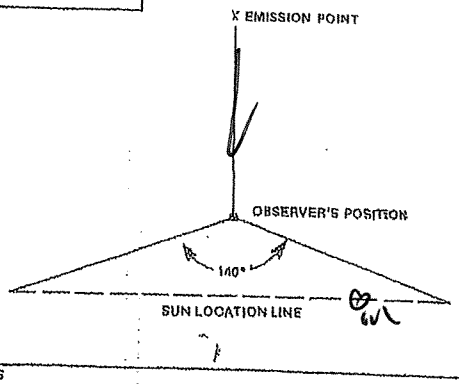
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
9-1-23	9:20 Am	9:26 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reedy

OBSERVER'S SIGNATURE: [signature] DATE: 9-1-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 9-2-23

START TIME: 2:10 pm | STOP TIME: 2:16 pm.

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

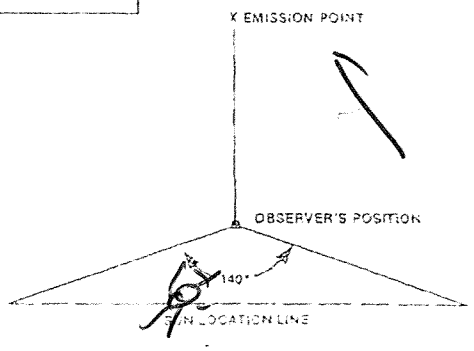
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 85° STOP 85° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry | DATE: 9-2-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 9-3-23

START TIME: 1:30 PM

STOP TIME: 1:36 PM

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE: Melt

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: — STOP: —

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5to10 STOP 5to10

WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 86° STOP 86°

WET BULB TEMP.:

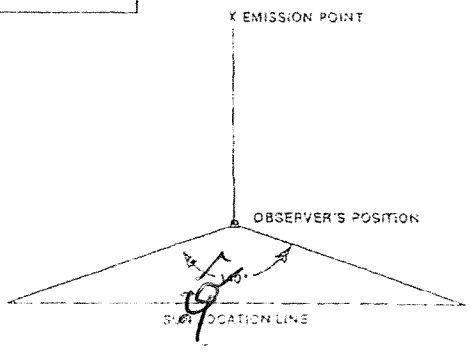
RH, percent

SOURCE LAYOUT SKETCH

DRAW NORTH ARROW

SUN ☼ WIND →

PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Penny

OBSERVER'S SIGNATURE: Tony Penny

DATE: 9-3-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

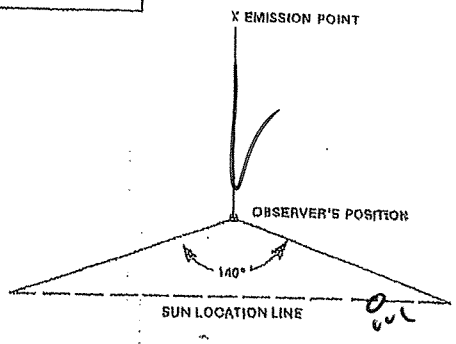
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE	START TIME	STOP TIME
9-7-23	9:00 AM	9:66 AM

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 9-7-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

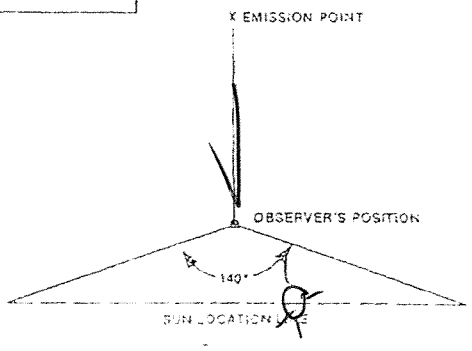
AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau Ameristeel
ADDRESS	801 Gerdau Ameristeel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	None
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT START	Penthouse Canopy Top of Meltshop
DESCRIBE EMISSION POINT STOP	Penthouse Canopy Top of Meltshop
HEIGHT ABOVE GROUND LEVEL START	120 ft
HEIGHT ABOVE GROUND LEVEL STOP	120 ft
HEIGHT RELATIVE TO OBSERVER START	120 ft
HEIGHT RELATIVE TO OBSERVER STOP	120 ft
DISTANCE FROM OBSERVER START	600 ft
DISTANCE FROM OBSERVER STOP	600 ft
DIRECTION FROM OBSERVER START	NE
DIRECTION FROM OBSERVER STOP	NE
DESCRIBE VISIBLE EMISSIONS START	—
DESCRIBE VISIBLE EMISSIONS STOP	—
EMISSION COLOR START	—
EMISSION COLOR STOP	—
IF WATER DROPLET PLUME: ATTACHED	☐
IF WATER DROPLET PLUME: DETACHED	☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START	Outlet (exit)
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED STOP	Outlet (exit)
DESCRIBE PLUME BACKGROUND START	Sky
DESCRIBE PLUME BACKGROUND STOP	Sky
BACKGROUND COLOR START	Gray
BACKGROUND COLOR STOP	Gray
SKY CONDITIONS START	Cloudy
SKY CONDITIONS STOP	Cloudy
WIND SPEED START	0-5 mph
WIND SPEED STOP	0-5 mph
WIND DIRECTION START	N
WIND DIRECTION STOP	N
AMBIENT TEMP. START	66°
AMBIENT TEMP. STOP	66°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
9/8/23	8:10 AM	8:16 AM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 3 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek

OBSERVER'S SIGNATURE: Zach Marek — DATE: 9/8/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau Ameristeel — CERTIFICATION EXPIRATION DATE: 11/07/23

VERIFIED BY: State of Tennessee Singleton Smoke School — DATE: 5/17/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

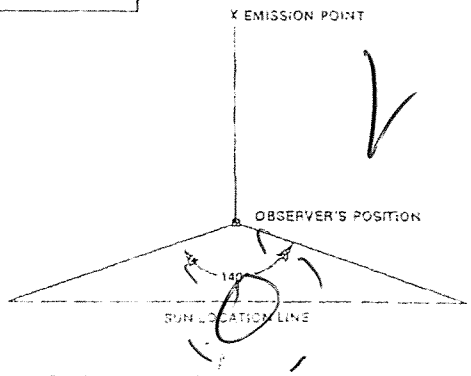
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 79° STOP 79° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ◁



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 9-9-23 | START TIME: 9:20a | STOP TIME: 9:26a

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thomp | DATE: 9-9-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0811

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

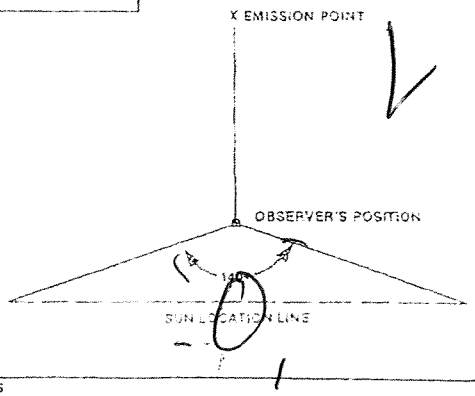
AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau Ameristeel
ADDRESS	801 Gerdau Ameristeel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	None
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Penthouse Canopy Top of Meltshop STOP
HEIGHT ABOVE GROUND LEVEL	START 120 ft STOP 120 ft
HEIGHT RELATIVE TO OBSERVER	START 120 ft STOP 120 ft
DISTANCE FROM OBSERVER	START 600 ft STOP 600 ft
DIRECTION FROM OBSERVER	START NE STOP NE
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Clear STOP Clear
WIND SPEED	START 5-10 STOP 5-10
WIND DIRECTION	START N STOP N
AMBIENT TEMP.	START 75° STOP 75°
WET BULB TEMP.	
RH, percent	

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊂



OBSERVATION DATE	START TIME	STOP TIME
9-10-23	8:30a	8:36a

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thomp

DATE: 9-10-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee (Singleton Smoke School)

DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

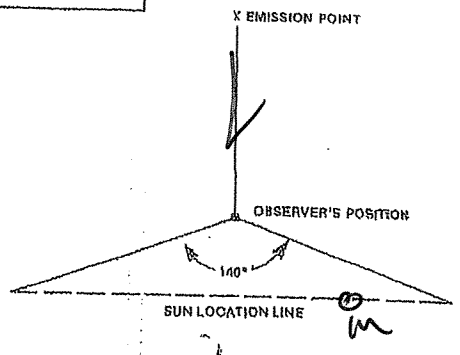
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 85 STOP 85 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
9-11-23	10:45 AM	10:51 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE: [signature] DATE: 9-11-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-12-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

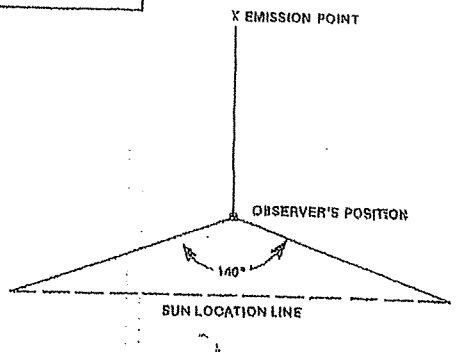
BACKGROUND COLOR: START Gry STOP Gry | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
5-12-23	9:40 Am	9:46 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Ryals

OBSERVER'S SIGNATURE: [signature] DATE: 5-12-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 4-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-12-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop | STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

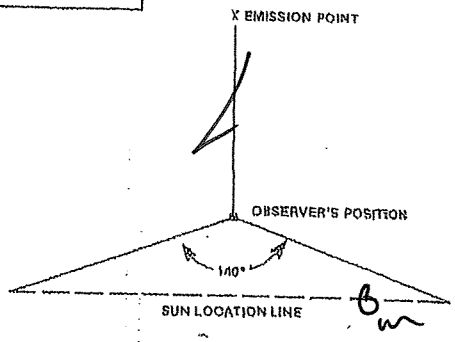
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 5-13-23 | START TIME: 8:00 AM | STOP TIME: 9:06 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE | DATE: 5-13-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-10-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

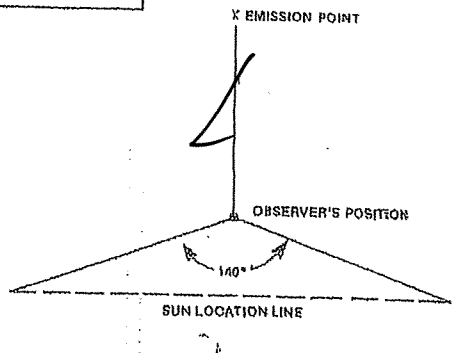
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 60 STOP 60 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 9-15-23 | START TIME: 8:05 AM | STOP TIME: 5:11 PM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE: [signature] | DATE: 9-15-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

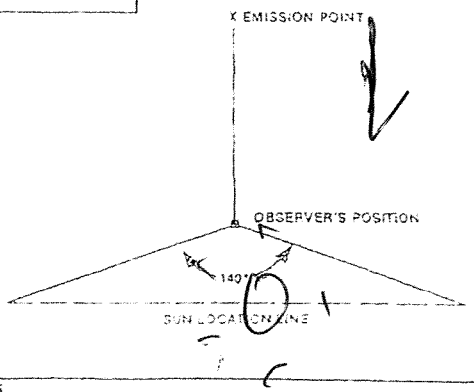
CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

	START	STOP
HEIGHT ABOVE GROUND LEVEL	120 ft	120 ft
HEIGHT RELATIVE TO OBSERVER	120 ft	120 ft
DISTANCE FROM OBSERVER	600 ft	600 ft
DIRECTION FROM OBSERVER	NE	NE
DESCRIBE VISIBLE EMISSIONS	—	—
EMISSION COLOR	—	—
IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐		
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	Outlet (exit)	Outlet (exit)
DESCRIBE PLUME BACKGROUND	Sky	Sky
BACKGROUND COLOR	Blue	Blue
SKY CONDITIONS	Clear	Clear
WIND SPEED	0-5	0-5
WIND DIRECTION	N	N
AMBIENT TEMP.	72°	72°
WET BULB TEMP.		
RH, percent		

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊂



OBSERVATION DATE: 9-16-23 | START TIME: 8:32a | STOP TIME: 8:38a

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 9-16-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 9-17-23

START TIME: 8:15a

STOP TIME: 8:21a

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE: Melt

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5

WIND DIRECTION: START N STOP N

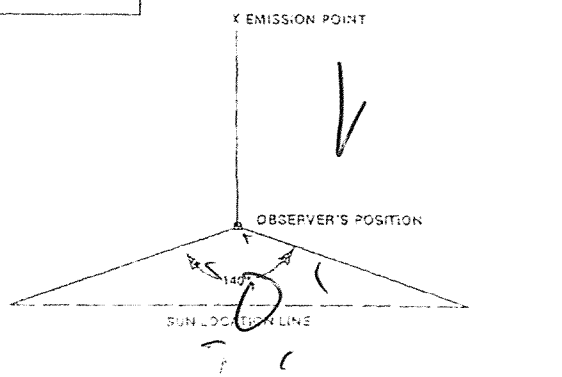
AMBIENT TEMP.: START 75° STOP 75°

WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson

DATE: 9-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE

DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 1-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 5-23-23

CN-0811

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

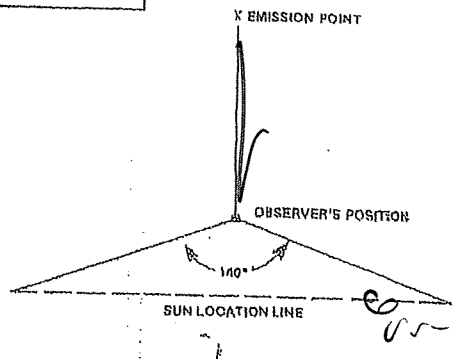
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 65 STOP 65 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 9-18-23	START TIME: 9:10 Am	STOP TIME: 9:16 Am

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE:

DATE: 9-18-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

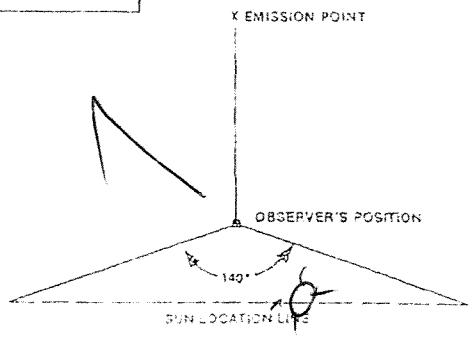
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 mph STOP 0-5 mph | WIND DIRECTION: START SSE STOP SSE

AMBIENT TEMP.: START 69° STOP 69° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 9/19/23 | START TIME: 9:30 AM | STOP TIME: 9:36 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Macek

OBSERVER'S SIGNATURE: Zachary Macek | DATE: 9/19/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5/17/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

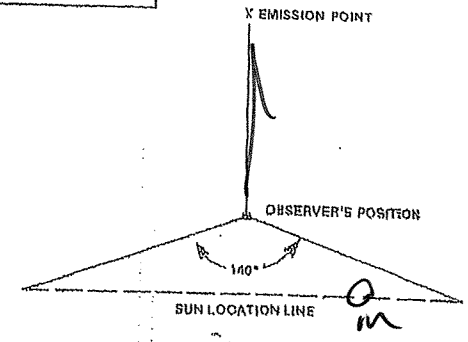
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 72 STOP 72 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 5-20-23 | START TIME: 11:20 Am | STOP TIME: 11:26 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE

DATE: 5-20-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

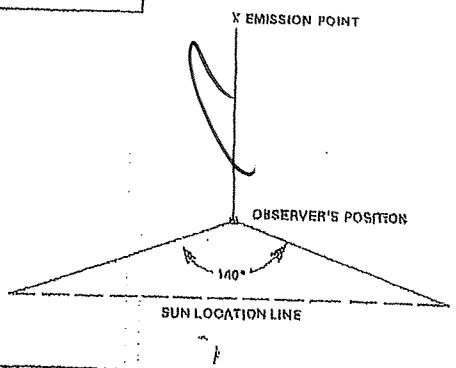
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 65 STOP 65 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 5-22-23	START TIME: 7:10 Am	STOP TIME: 7:26 Am

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Ryan

OBSERVER'S SIGNATURE: Cody Ryan | DATE: 5-22-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop | STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft | STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft | STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft | STOP 600 ft

DIRECTION FROM OBSERVER: START NE | STOP NE

DESCRIBE VISIBLE EMISSIONS: START — | STOP —

EMISSION COLOR: START — | STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ | DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) | STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky | STOP Sky

BACKGROUND COLOR: START Blue | STOP Blue

SKY CONDITIONS: START Clear | STOP Clear

WIND SPEED: START 0-5 | STOP 0-5

WIND DIRECTION: START E | STOP E

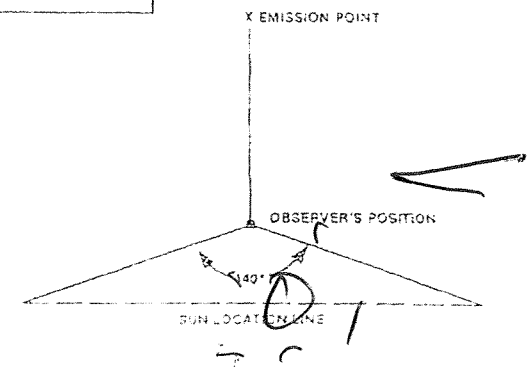
AMBIENT TEMP.: START 80° | STOP 80°

WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 9-23-23 | START TIME: 9:22am | STOP TIME: 9:38am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 [X] | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 9-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0811

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

EW-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

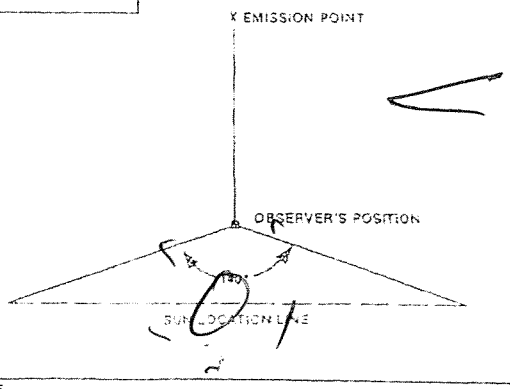
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 76° STOP 76° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 9-24-23 | START TIME: 9:27a | STOP TIME: 9:33a

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | SPA METHOD 3 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE STANDARD: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 9-24-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee (Singleton Smoke School) | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 5-25-23

START TIME: 11:20 Am

STOP TIME: 11:26 Am

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 05 STOP 05

WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 85 STOP 85

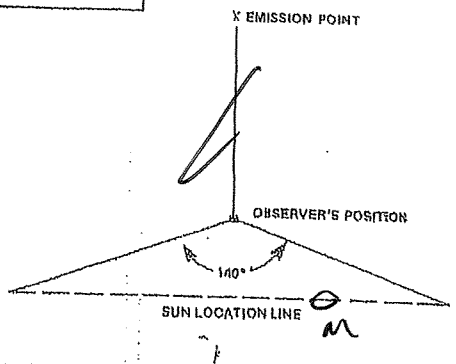
WET BULB TEMP.:

RH, percent

SOURCE LAYOUT SKETCH

DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rynolds

OBSERVER'S SIGNATURE:

DATE: 5-25-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-10-23

VERIFIED BY: State of Tennessee, Singleton Smoke School

DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

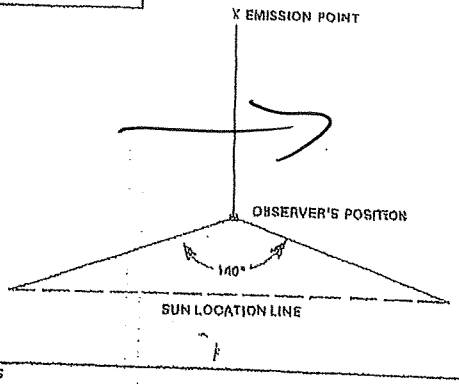
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PCloudy STOP PCloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 83 STOP 83 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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OBSERVATION DATE: 9-26-23 | START TIME: 9:55 AM | STOP TIME: 10:01 AM

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 9-26-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

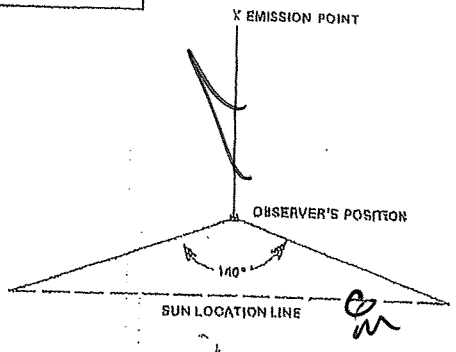
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 75 STOP 75 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS:

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE: TITLE: DATE:

OBSERVATION DATE: 9-27-23 | START TIME: 9:30 Am | STOP TIME: 9:36 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: | DATE: 9-27-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

	START	STOP
HEIGHT ABOVE GROUND LEVEL	120 ft	120 ft
HEIGHT RELATIVE TO OBSERVER	120 ft	120 ft
DISTANCE FROM OBSERVER	600 ft	600 ft
DIRECTION FROM OBSERVER	NE	NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

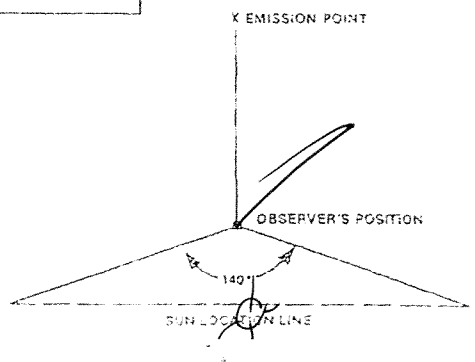
DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

	START	STOP
BACKGROUND COLOR	Blue	Blue
SKY CONDITIONS	Sunny	Sunny
WIND SPEED	0-5 mph	0-5 mph
WIND DIRECTION	SSW	SSW
AMBIENT TEMP.	81°	81°

WET BULB TEMP. — RH, percent —

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 9/29/23 | START TIME: 11:10 AM | STOP TIME: 11:16 AM

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Zach Macek

OBSERVER'S SIGNATURE: Zachary Macek | DATE: 9/29/23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State of Tennessee (Singleton Smoke School) | DATE: 5/17/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

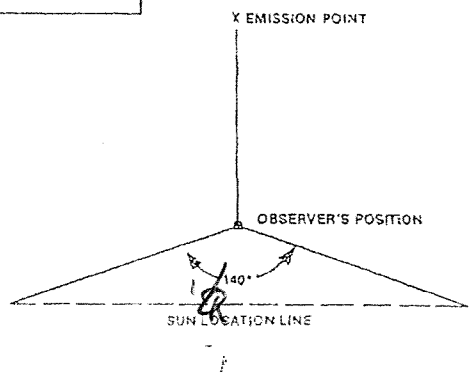
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-05 STOP 0-05 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 88° STOP 88° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
9/30/23	1:10 PM	1:16 PM

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 [X] TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony PERRY

OBSERVER'S SIGNATURE: Tony Perry | DATE: 9/30/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State of Tennessee (Singleton Smoke School) | DATE: 5/17/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

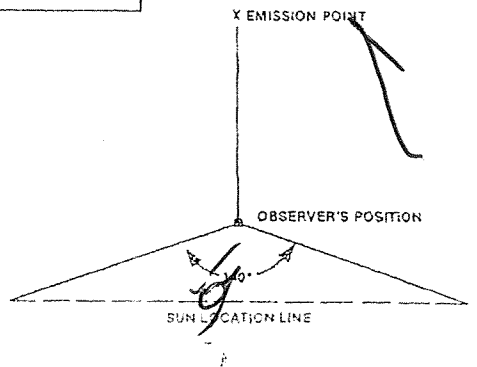
AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME	Gerdau Ameristeel
ADDRESS	801 Gerdau Ameristeel Rd
CITY	Jackson
STATE	TN
ZIP	38305
PHONE	(731) 424-5600
SOURCE ID NUMBER	57-0189-01
PROCESS EQUIPMENT	Electric Arc Furnace
OPERATING MODE	Melt
CONTROL EQUIPMENT	None
OPERATING MODE	Continuous
DESCRIBE EMISSION POINT	START Penthouse Canopy Top of Meltshop STOP
HEIGHT ABOVE GROUND LEVEL	START 120 ft STOP 120 ft
HEIGHT RELATIVE TO OBSERVER	START 120 ft STOP 120 ft
DISTANCE FROM OBSERVER	START 600 ft STOP 600 ft
DIRECTION FROM OBSERVER	START NE STOP NE
DESCRIBE VISIBLE EMISSIONS	START — STOP —
EMISSION COLOR	START — STOP —
IF WATER DROPLET PLUME:	ATTACHED ☐ DETACHED ☐
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	START Outlet (exit) STOP Outlet (exit)
DESCRIBE PLUME BACKGROUND	START Sky STOP Sky
BACKGROUND COLOR	START Blue STOP Blue
SKY CONDITIONS	START Sunny STOP Sunny
WIND SPEED	START 5 to 10 STOP 5 to 10
WIND DIRECTION	START SE STOP SE
AMBIENT TEMP.	START 88° STOP 88°
WET BULB TEMP.	
RH, percent	

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE	START TIME	STOP TIME
10-1-23	2:15 PM	2:21 pm

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Penny

OBSERVER'S SIGNATURE: Tony Penny — DATE: 10-1-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE — DATE

ORGANIZATION: Gerdau Ameristeel — CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee (Singleton Smoke School) — DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop | STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

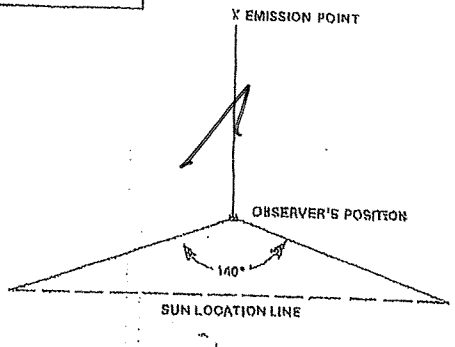
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sun STOP Sun

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 84 STOP 84 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
10-2-23	11:30 Am	11:36 Am

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Bywaters

OBSERVER'S SIGNATURE: [signature] | DATE: 10-2-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 1-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

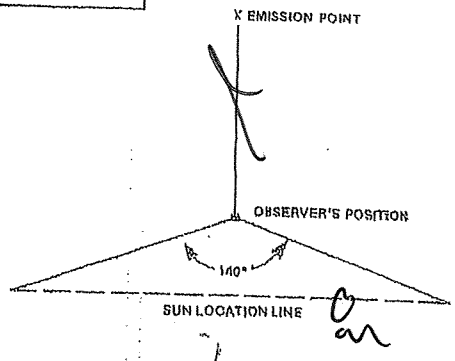
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-3-23 | START TIME: 10:55 AM | STOP TIME: 11:01 AM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Cody Rowlett

OBSERVER'S SIGNATURE:

DATE: 10-3-23

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School

DATE: 5-22-23

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

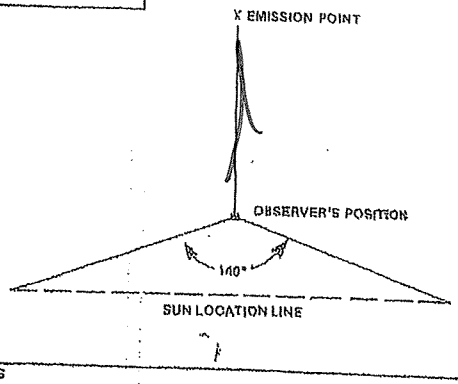
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Cloud STOP Cloud

WIND SPEED: START 1015 STOP 1015 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-4-23 | START TIME: 9:30Am | STOP TIME: 9:36Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Bywaters

OBSERVER'S SIGNATURE: [signature] DATE: 10-4-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

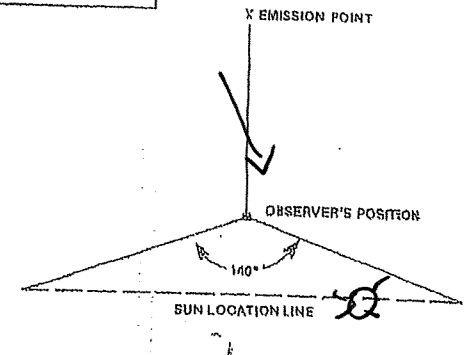
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 64 STOP 64 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-6-23 | START TIME: 7:50 AM | STOP TIME: 7:56 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 10-6-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

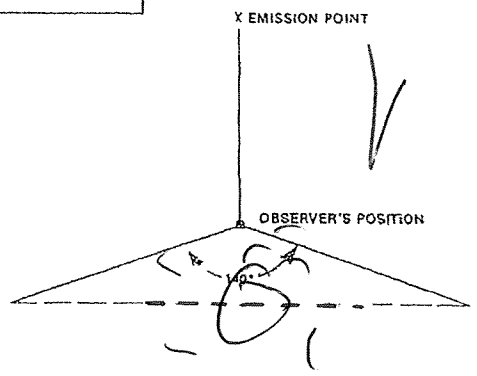
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 58° STOP 58° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-2-23 | START TIME: 9:50am | STOP TIME: 9:56am

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-2-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

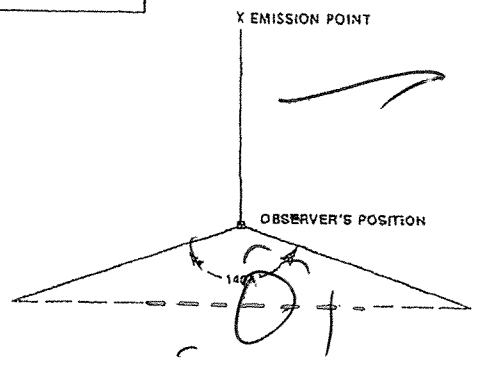
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 62° STOP 63° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 10-8-23 | START TIME: 7:50 am | STOP TIME: 7:56 am

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE ___% WERE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-8-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

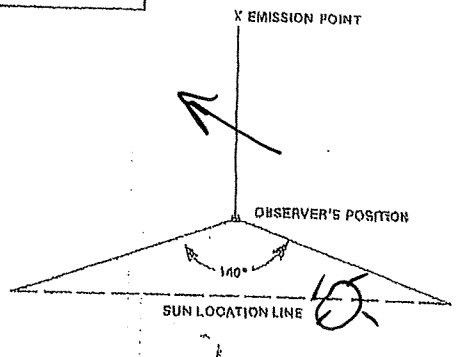
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 69 STOP 69 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-9-23 | START TIME: 9:53 AM | STOP TIME: 10:13AM

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Colenca

OBSERVER'S SIGNATURE: [signature] DATE: 10-9-23

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School DATE: 5-17-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

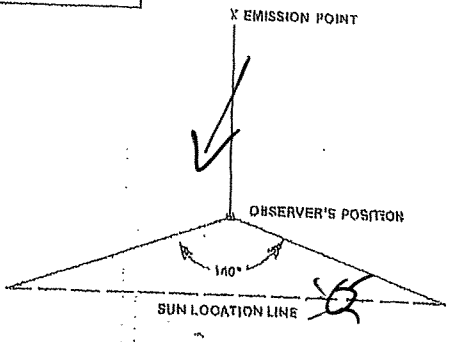
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 72 STOP 72 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 10-10-23 | START TIME: 12:10pm | STOP TIME: 12:16pm

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 10-10-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

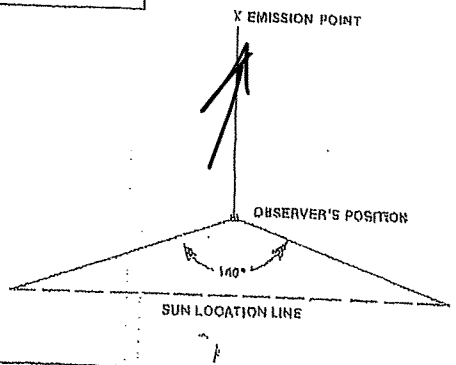
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 71 STOP 71 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
10-11-23	1:26pm	1:26pm

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COMMENTS

APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 6

NUMBER OF READING ABOVE %: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVER'S SIGNATURE | DATE: 10-11-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-4-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

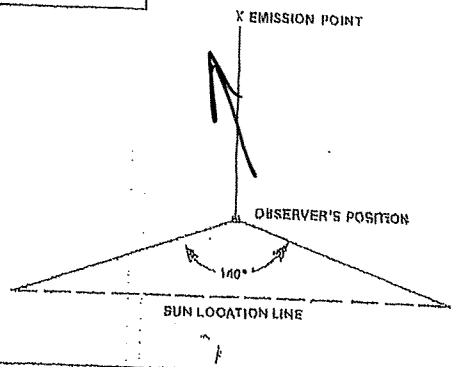
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 69 STOP 69 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
10-13-23	11:00AM	11:06AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 10-13-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

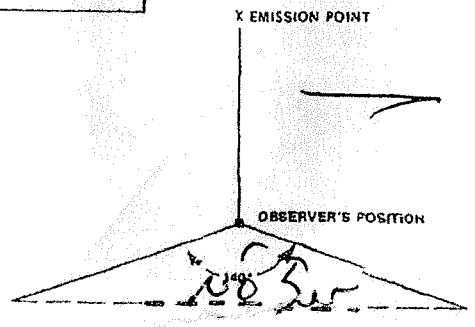
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloud STOP Cloud

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 60° STOP 60° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 10-14-23 | START TIME: 8:20a | STOP TIME: 8:26a

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COMMENTS

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 X | TVEE METHOD 2 ☐ | TVEE METHOD 10 | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE ALLOWABLE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thomp | DATE: 10-15-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION/HYDRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

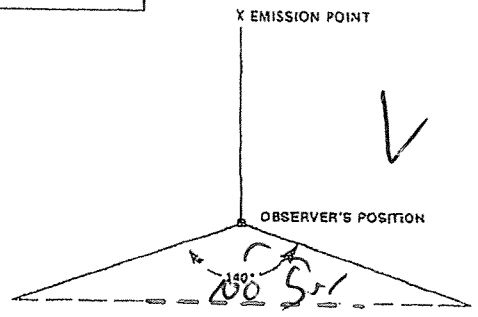
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 59° STOP 59° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10-15-23 | START TIME: 11:50a | STOP TIME: 11:56a

MIN \ SEC	0	15	30	45
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COMMENTS

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-15-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

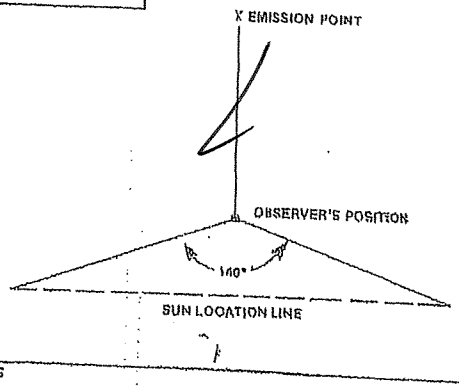
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
10-16-23	9:40 Am	9:46 Am

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] DATE: 10-16-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

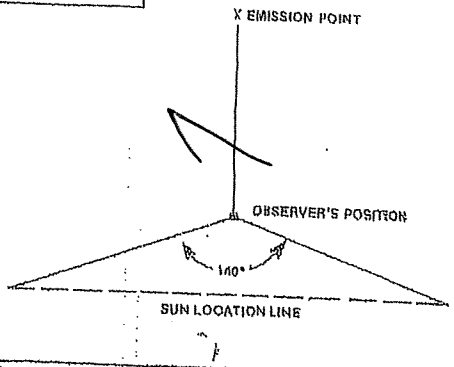
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 64 STOP 64 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE: 10-17-23 | START TIME: 12:10pm | STOP TIME: 12:16pm

MIN \ SEC	0	15	30	46	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 10-17-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

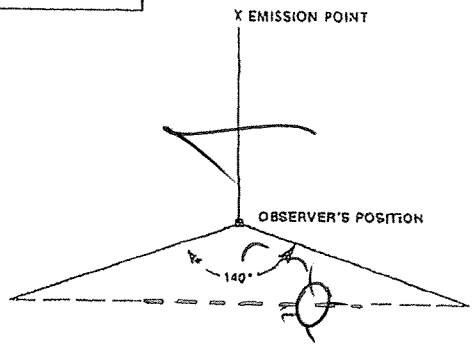
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 mph STOP 0-5 mph | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 60° STOP 60° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 10/20/23 | START TIME: 9:10 AM | STOP TIME: 9:16 AM

SEC / MIN	0	15	30	45	COMMENTS
1	0	0	0	0	
2	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek

OBSERVER'S SIGNATURE: Zach Marek | DATE: 10/20/23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11/17/23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5/17/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

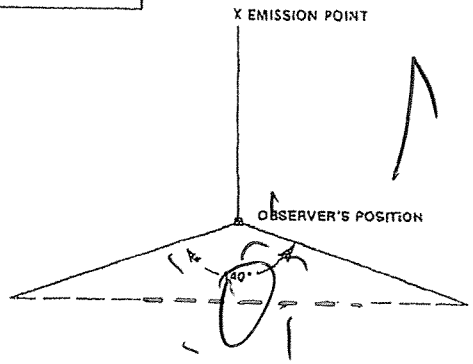
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 73° STOP 73° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 10-21-23 | START TIME: 9:17a | STOP TIME: 9:23a

MIN \ SEC	0	15	30	45	COMMENTS
1	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE ALLOWABLE WERE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-21-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 1-25-25

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

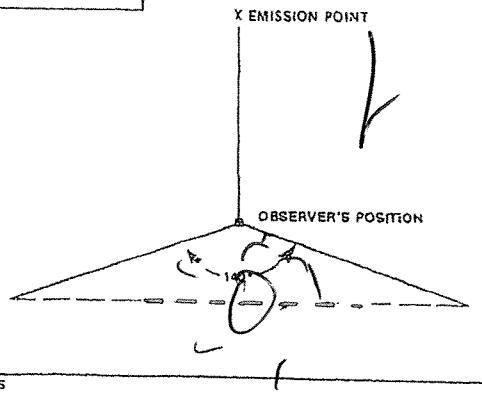
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 62° STOP 62° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 10-22-23 | START TIME: 8:37a | STOP TIME: 8:43a

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 10-22-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5

WIND DIRECTION: START SW STOP SW

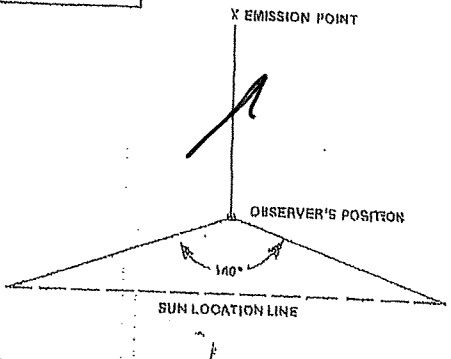
AMBIENT TEMP.: START 78 STOP 78

WET BULB TEMP.:

RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
10-23-23	1:55pm	2:01pm

MIN \ SEC	0	15	30	45
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COMMENTS

APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE

DATE: 10-23-23

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School

DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop | STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START | STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

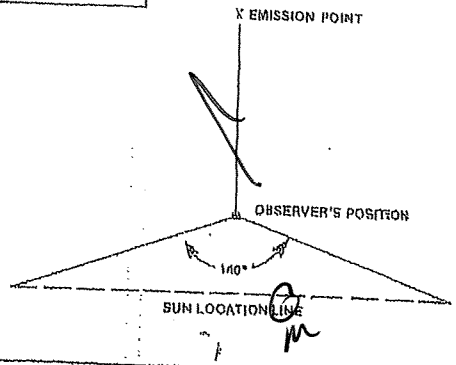
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 74 STOP 74 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
10-24-23	12:00pm	12:06pm

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
3	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 10-24-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

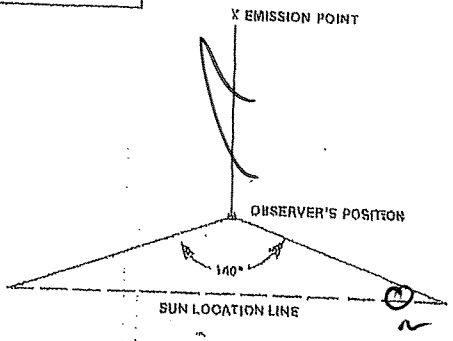
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 63 STOP 63 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVATION DATE	START TIME	STOP TIME
10-25-23	7:30 Am	7:36 Am

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 10-25-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-2023

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

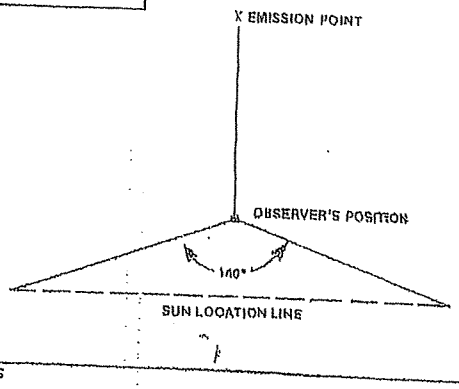
BACKGROUND COLOR: START Gry STOP Gry | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START S-10 STOP S-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 70 STOP 70 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
10-27-23	1:40 Pm	1:46 pm

MIN \ SEC	0	15	30	45	COMMENTS
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2	0	0	0	0	
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE: [signature] DATE: 10-27-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 10-28-23

START TIME: 10:20 AM

STOP TIME: 10:26 AM

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE: Melt

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP —

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 5to10 STOP 5to10

WIND DIRECTION: START SW STOP SW

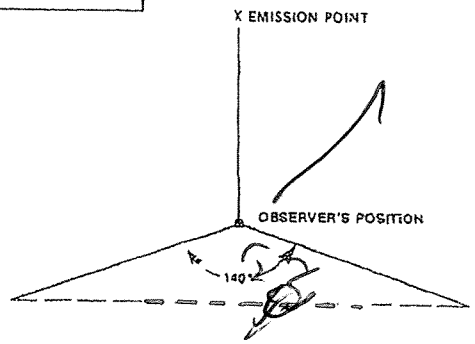
AMBIENT TEMP.: START 78° STOP 78°

WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: Tony Perry DATE: 10-28-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

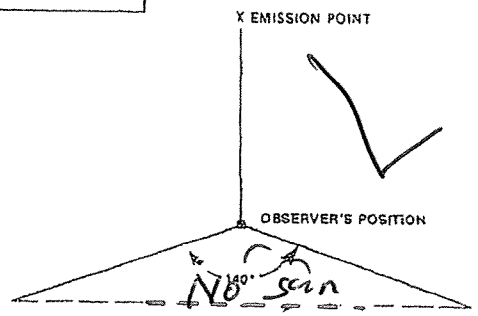
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5to10 STOP 5to10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 64° STOP 64° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 10-29-23 | START TIME: 10:40 AM | STOP TIME: 10:46 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Tony Penrod

OBSERVER'S SIGNATURE: Tony Penrod | DATE: 10-29-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-17-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

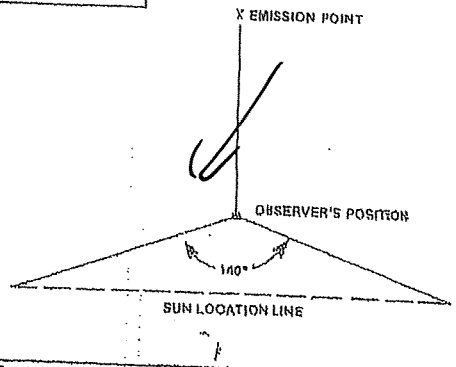
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 41 STOP 41 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
10-30-23	7:30AM	7:36AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: Riley Coleman | DATE: 10-30-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-17-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-17-23

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

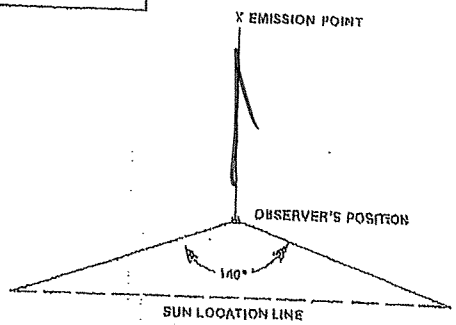
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 30 STOP 30 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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OBSERVATION DATE: 10-31-23 | START TIME: 8:10 am | STOP TIME: 8:16 am

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE | DATE: 10-31-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-7-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop | STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

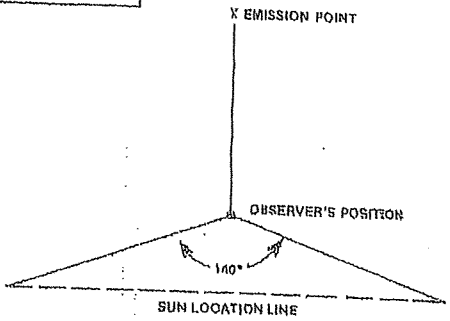
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 40 STOP 40 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 11-1-23 | START TIME: 10:45 Am | STOP TIME: 16:57 Am

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reeves

OBSERVER'S SIGNATURE: [signature] | DATE: 11-1-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop | STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

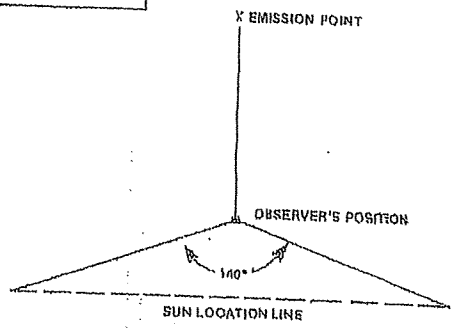
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 50 STOP 50 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
11-3-23	9:40 Am	9:46 Am

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE:

DATE: 11-3-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 11-26-23

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 5-22-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

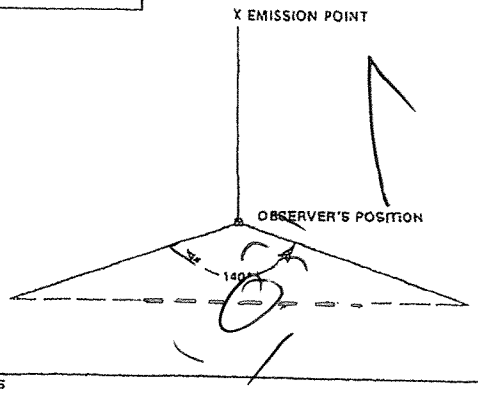
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 63° STOP 63° | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK ⊏

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 11-4-23 | START TIME: 7:30a | STOP TIME: 7:36a

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 11-4-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015 Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

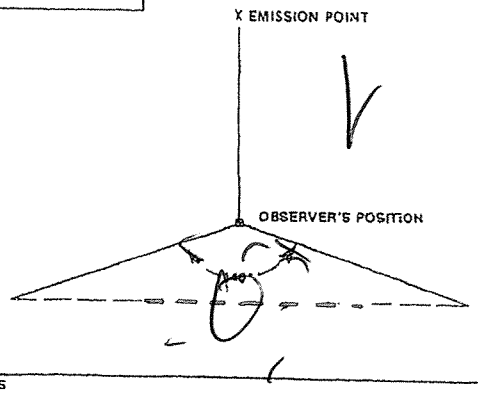
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 66° STOP 66° | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 11-5-23 | START TIME: 7:30 am | STOP TIME: 7:36 am

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thomp | DATE: 11-5-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-23

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

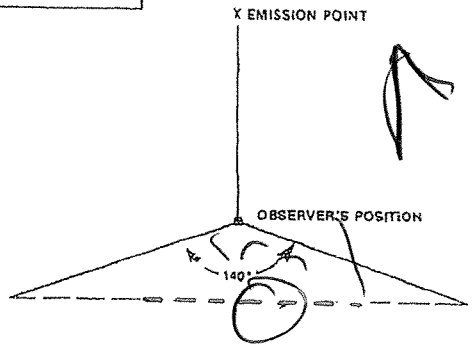
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP: START 62° STOP 62° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
11-18-23	8:42a	8:48a

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS: 1

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson DATE: 11-18-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 11-23-25

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 5-23-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

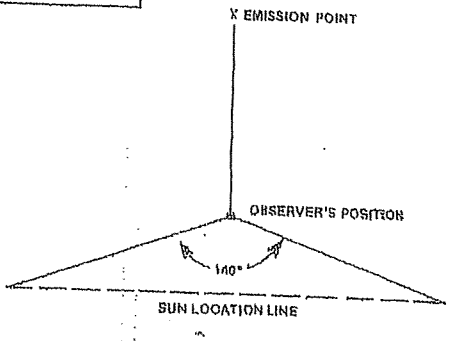
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Rain STOP Rain

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 56 STOP 50 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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OBSERVATION DATE: 11-20-23 | START TIME: 9:12 Am | STOP TIME: 9:18 Am

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE | DATE: 11-20-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 11-21-23

START TIME: 7:20 AM

STOP TIME: 7:26 AM

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

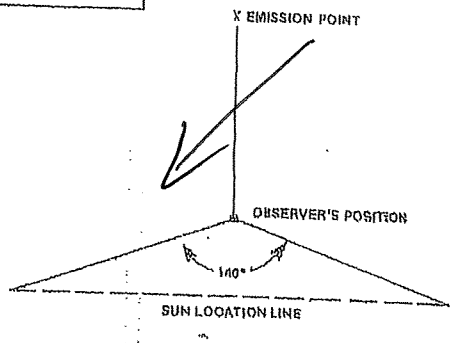
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 45 STOP 45 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 11-21-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-20-23

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 11-20-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

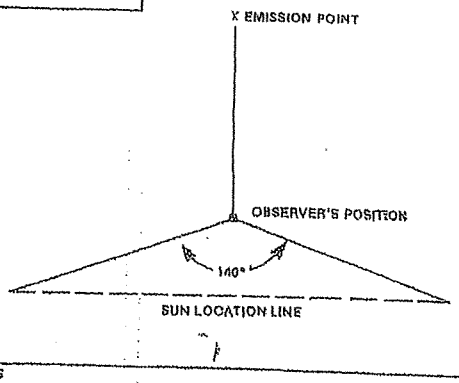
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 42 STOP 42 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
11-22-23	9:12 Am	9:18 Am

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE: [signature] | DATE: 11-22-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 11-15-24

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 11-24-23

START TIME: 10:35 Am

STOP TIME: 10:41 Am

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10

WIND DIRECTION: START N STOP N

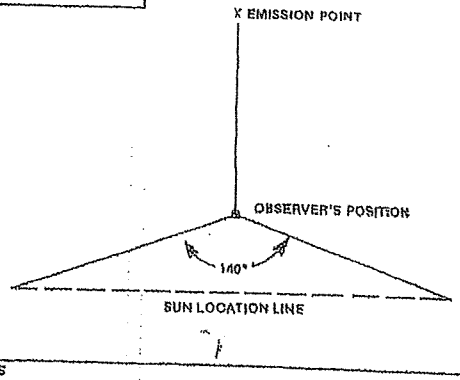
AMBIENT TEMP.: START 80 STOP 80

WET BULB TEMP.:

RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE:

DATE: 11-24-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 5-18-24

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

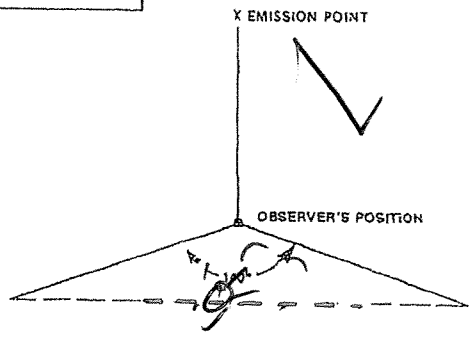
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5to10 STOP 5to10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP: START 53 STOP 53 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 11-25-23 | START TIME: 1:25 PM | STOP TIME: 1:31 PM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Penny

OBSERVER'S SIGNATURE: [signature] DATE: 11.25.23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 12-15-24

VERIFIED BY: State of Tennessee (Singleton Smoke School)

DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

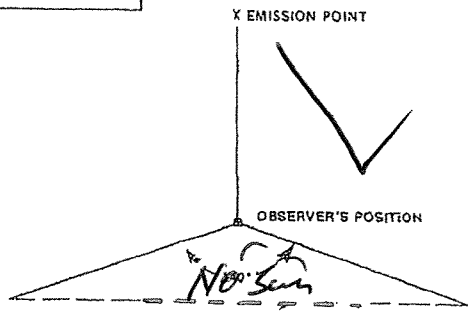
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 49° STOP 49° | WET BULB TEMP. | RH, percent

SUN ☼ WIND → PLUME AND STACK

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW



OBSERVATION DATE: 11-26-23 | START TIME: 1:30 PM | STOP TIME: 1:36 PM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Perry

OBSERVER'S SIGNATURE: [signature] DATE: 11-26-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee (Singleton Smoke School) | DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

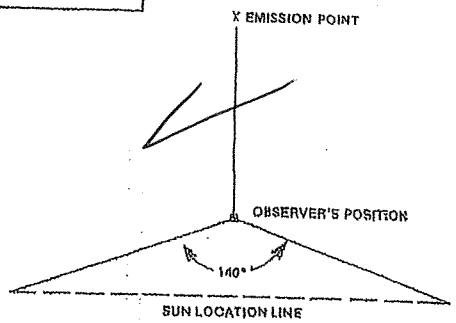
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NE STOP NE

AMBIENT TEMP.: START 39 STOP 39 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 11-27-23 | START TIME: 10:10AM | STOP TIME: 10:16AM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] DATE: 11-27-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-20-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

OBSERVATION DATE: 11-28-13

START TIME: 8:30 Am

STOP TIME: 8:36 Am

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600

SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace

OPERATING MODE:

CONTROL EQUIPMENT: None

OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft

HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft

DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: STOP:

EMISSION COLOR: START STOP

IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky STOP: Sky

BACKGROUND COLOR: START Blue STOP Blue

SKY CONDITIONS: START PC STOP PC

WIND SPEED: START 5-10 STOP 5-10

WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 32 STOP 32

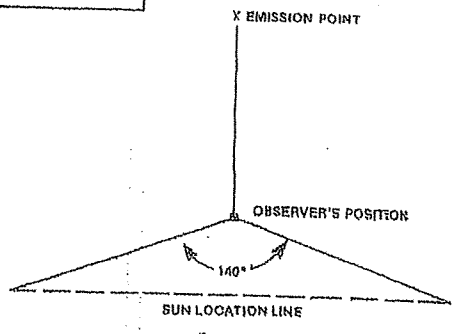
WET BULB TEMP.:

RH, percent:

SOURCE LAYOUT SKETCH

DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Bradley

OBSERVER'S SIGNATURE:

DATE: 11-28-13

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 5-15-14

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 11-15-13

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

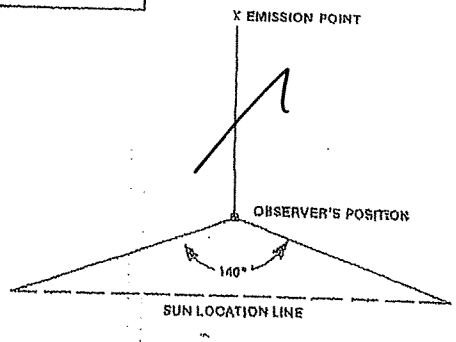
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 88 STOP 88 | WET BULB TEMP.: | RH, percent:

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
11-29-23	12:20 PM	12:26 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Rhodes

OBSERVER'S SIGNATURE: [signature] DATE: 11-29-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

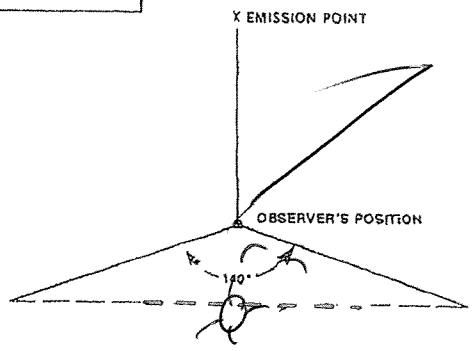
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 mph STOP 10-15 mph | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 60° STOP 60° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12/1/23 | START TIME: 1:30 PM | STOP TIME: 1:36 PM

SEC / MIN	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Macon

OBSERVER'S SIGNATURE: [signature] DATE: 12/1/23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 5/20/24

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 11/20/23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT

START: Penthouse Canopy Top of Meltshop | STOP:

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS

START: | STOP:

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED

START: Outlet (exit) | STOP: Outlet (exit)

DESCRIBE PLUME BACKGROUND

START: Sky | STOP: Sky

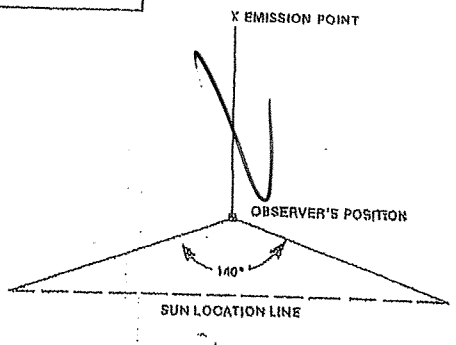
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



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OBSERVATION DATE: 12-7-23 | START TIME: 9:50 am | STOP TIME: 10:9:50 am

APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Brackett

OBSERVER'S SIGNATURE: | DATE: 12-2-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

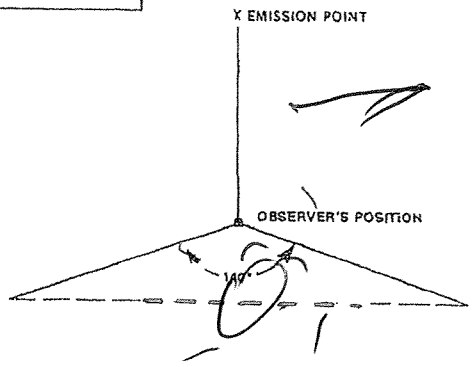
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 52° STOP 52° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 12-3-23 | START TIME: 10:40am | STOP TIME: 11:46am

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE ALLOWABLE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 12-3-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-20-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

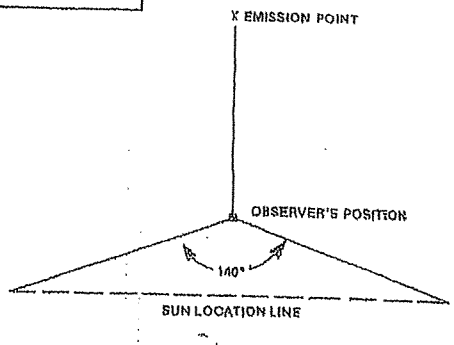
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloud STOP Cloud

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 48 STOP 48 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-4-23 | START TIME: 11:50 Am | STOP TIME: 11:50 Pm

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Ryalls

OBSERVER'S SIGNATURE: [signature] | DATE: 12-4-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

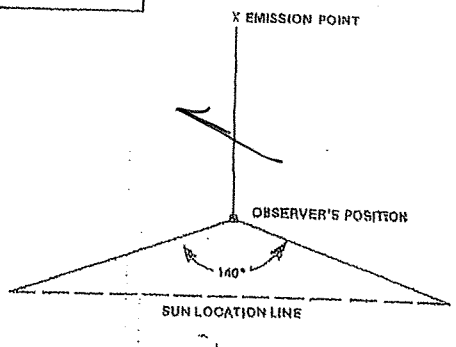
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 15-20 STOP 15-20 | WIND DIRECTION: START SE STOP SE

AMBIENT TEMP.: START 54 STOP 54 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-5-23 | START TIME: 11:40AM | STOP TIME: 11:46AM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE | DATE: 12-5-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-20-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

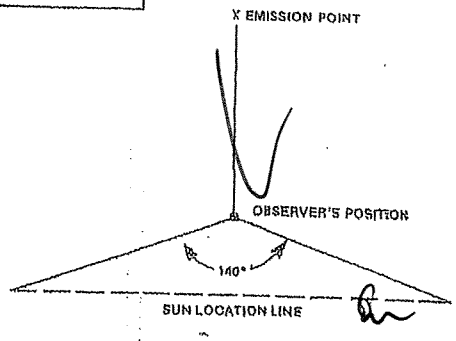
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 41 STOP 41 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊥



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OBSERVATION DATE: 12-6-23 | START TIME: 9:20 Am | STOP TIME: 9:26 Am

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD | NUMBER OF READING ABOVE %WERE

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: Cody Reynolds | DATE: 12-6-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

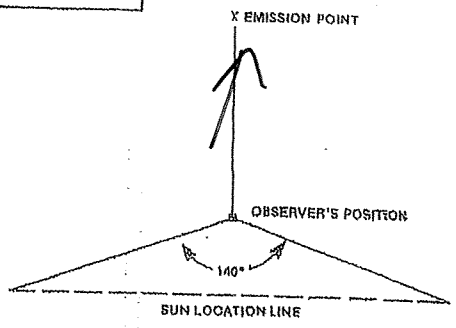
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 10-15 STOP 10-15 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 55 STOP 55 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
12-8-23	11:12AM	11:18AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] DATE: 12-8-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-20-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015 Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

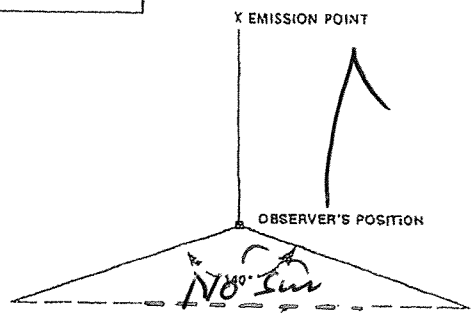
BACKGROUND COLOR: START Grey STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5 to 10 STOP 5 to 10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 63° STOP 63° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
12-9-23	8:15 AM	8:21 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Pruitt

OBSERVER'S SIGNATURE: [signature] DATE: 12-9-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee Singleton Smoke School

DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015 Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

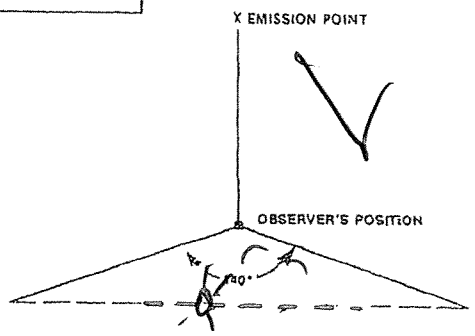
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 5to10 STOP 5to10 | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 46 STOP 46 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 12-10-23 | START TIME: 1:50 PM | STOP TIME: 1:56 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE 0

OBSERVER'S NAME (PRINT): Tony Penn

OBSERVER'S SIGNATURE: Tony Penn | DATE: 12-10-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

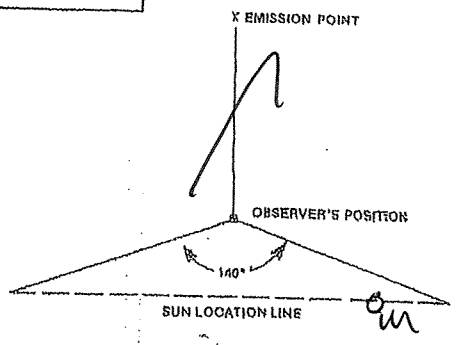
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 05 STOP 05 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 42 STOP 42 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
12-12-23	5:10 Am	5:16 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Cody Ryan Betts

OBSERVER'S SIGNATURE: [signature] DATE: 12-12-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

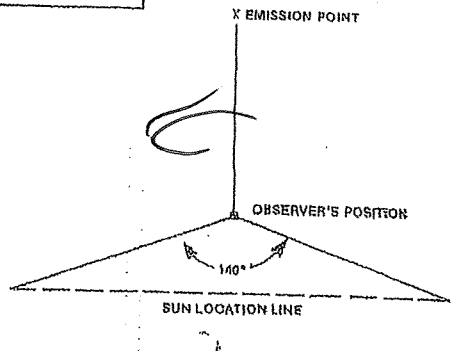
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 32 STOP 32 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-13-23 | START TIME: 7:45 Am | STOP TIME: 7:51 Am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 12-13-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-15-23

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE | TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

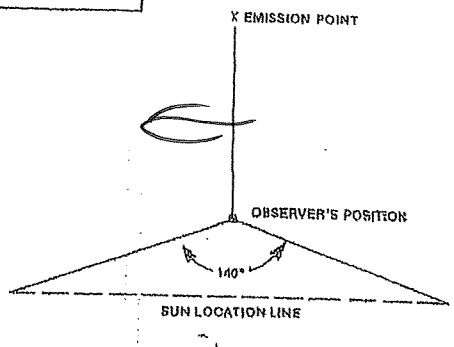
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START E STOP E

AMBIENT TEMP.: START 55 STOP 55 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-14-23 | START TIME: 12:40 pm | STOP TIME: 12:46 pm

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: Cody Reynolds | DATE: 12-14-23

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-15-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

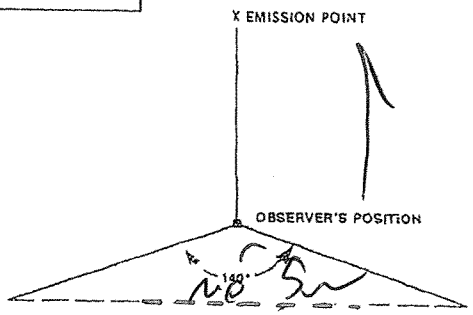
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 53° STOP 53° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊂



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 12-16-23 | START TIME: 9:00a | STOP TIME: 9:06a

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 12-16-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-30-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-20-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

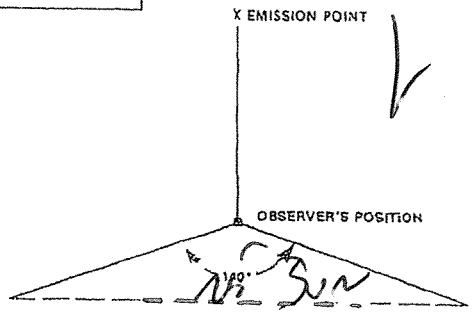
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START Cloudy STOP Cloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START N STOP N

AMBIENT TEMP.: START 50° STOP 50° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

TITLE | DATE

OBSERVATION DATE: 12-17-23 | START TIME: 11:40am | STOP TIME: 11:46am

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Mark Thompson

OBSERVER'S SIGNATURE: Mark Thompson | DATE: 12-17-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-20-23

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

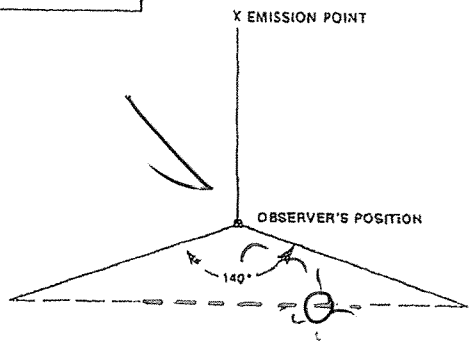
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 10-15 mph STOP 10-15 mph | WIND DIRECTION: START NW STOP NW

AMBIENT TEMP.: START 44° STOP 44° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE	START TIME	STOP TIME
12/18/23	10:00 AM	10:06 AM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Zach Marek

OBSERVER'S SIGNATURE: Zach Marek | DATE: 12/18/23

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 5/20/24

VERIFIED BY: State of Tennessee (Singleton Smoke School) | DATE: 11/20/23

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SIGNATURE

TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

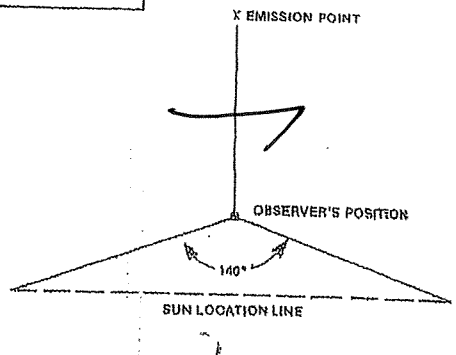
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START PCloudy STOP PCloudy

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START W STOP W

AMBIENT TEMP.: START 34 STOP 34 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE: 12-19-23 | START TIME: 10:20AM | STOP TIME: 10:26AM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] DATE: 12-19-23

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SIGNATURE

TITLE | DATE

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-20-23

CN-0811

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

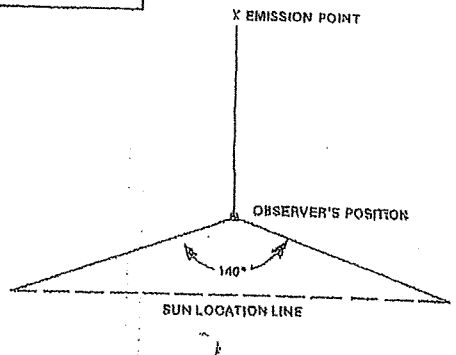
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START OC STOP OC

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 80 STOP 80 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



SEC / MIN	0	15	30	45	COMMENTS
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OBSERVATION DATE: 12-20-23 | START TIME: 10:20 Am | STOP TIME: 10:26 Am

APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 9 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: [signature] | DATE: 12-20-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-15-23

COMMENTS

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TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

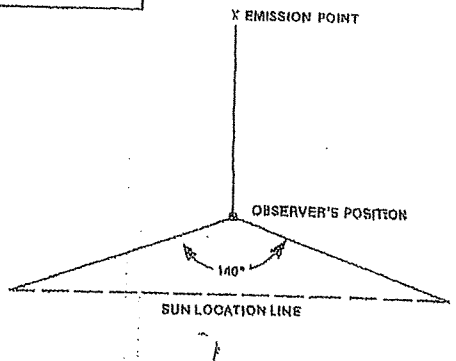
BACKGROUND COLOR: START Grey STOP Grey | SKY CONDITIONS: START Clear STOP Clear

WIND SPEED: START 5-10 STOP 5-10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 60 STOP 60 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK ⊏



OBSERVATION DATE	START TIME	STOP TIME
12-21-23	10:30 Am	10:36 Am

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APPLICABLE OPACITY STANDARD: 20 % OPACITY | EPA METHOD 9 ☒ | TVEE METHOD 2 ☐ | TVEE METHOD 1 ☐ | TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0 | NUMBER OF READING ABOVE % WERE: 0

OBSERVER'S NAME (PRINT): Cody Reynolds

OBSERVER'S SIGNATURE: Cody Reynolds | DATE: 12-21-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

VERIFIED BY: State of Tennessee, Singleton Smoke School | DATE: 11-15-23

COMMENTS

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SIGNATURE | TITLE | DATE

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RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE:

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: Penthouse Canopy Top of Meltshop

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START STOP

EMISSION COLOR: START STOP | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

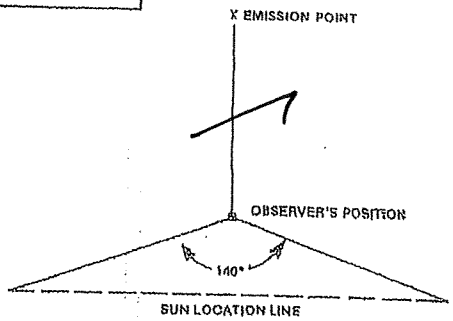
BACKGROUND COLOR: START Blue STOP Blue | SKY CONDITIONS: START Sunny STOP Sunny

WIND SPEED: START 0-5 STOP 0-5 | WIND DIRECTION: START SW STOP SW

AMBIENT TEMP.: START 35 STOP 35 | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-22-23 | START TIME: 7:35Am | STOP TIME: 7:41AM

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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE %WERE: 0

COMMENTS:

OBSERVER'S NAME (PRINT): Riley Coleman

OBSERVER'S SIGNATURE: [signature] DATE: 12-22-23

ORGANIZATION: Gerdau Ameristeel

CERTIFICATION EXPIRATION DATE: 5-20-24

VERIFIED BY: State of Tennessee Singleton Smoke School DATE: 11-20-23

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SIGNATURE

TITLE | DATE

CN-0841

RDA-1298

DEPT. OF ENVIRONMENT & CONSERVATION

ENV-015-Rev.0

AIR POLLUTION CONTROL

VISIBLE EMISSION OBSERVATION

SOURCE NAME: Gerdau Ameristeel

ADDRESS: 801 Gerdau Ameristeel Rd

CITY: Jackson | STATE: TN | ZIP: 38305

PHONE: (731) 424-5600 | SOURCE ID NUMBER: 57-0189-01

PROCESS EQUIPMENT: Electric Arc Furnace | OPERATING MODE: Melt

CONTROL EQUIPMENT: None | OPERATING MODE: Continuous

DESCRIBE EMISSION POINT: START Penthouse Canopy Top of Meltshop STOP

HEIGHT ABOVE GROUND LEVEL: START 120 ft STOP 120 ft | HEIGHT RELATIVE TO OBSERVER: START 120 ft STOP 120 ft

DISTANCE FROM OBSERVER: START 600 ft STOP 600 ft | DIRECTION FROM OBSERVER: START NE STOP NE

DESCRIBE VISIBLE EMISSIONS: START — STOP —

EMISSION COLOR: START — STOP — | IF WATER DROPLET PLUME: ATTACHED ☐ DETACHED ☐

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED: START Outlet (exit) STOP Outlet (exit)

DESCRIBE PLUME BACKGROUND: START Sky STOP Sky

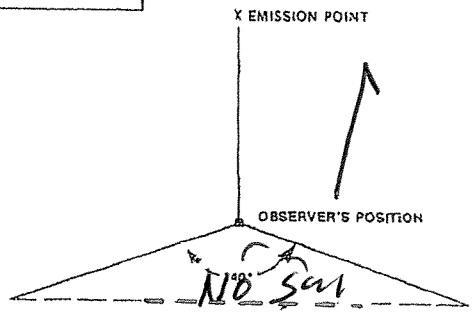
BACKGROUND COLOR: START Gray STOP Gray | SKY CONDITIONS: START cloudy STOP cloudy

WIND SPEED: START 5to10 STOP 5to10 | WIND DIRECTION: START S STOP S

AMBIENT TEMP.: START 63° STOP 63° | WET BULB TEMP. | RH, percent

SOURCE LAYOUT SKETCH — DRAW NORTH ARROW

SUN ☼ WIND → PLUME AND STACK



OBSERVATION DATE: 12-23-23 | START TIME: 1:40 PM | STOP TIME: 1:46 PM

MIN \ SEC	0	15	30	45	COMMENTS
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APPLICABLE OPACITY STANDARD: 20 % OPACITY

EPA METHOD 9 ☒ TVEE METHOD 2 ☐ TVEE METHOD 1 ☐ TVEE METHOD 3 ☐

AVERAGE OPACITY FOR HIGHEST PERIOD: 0

NUMBER OF READING ABOVE % WERE: 0

COMMENTS

OBSERVER'S NAME (PRINT): Tony Pusey

OBSERVER'S SIGNATURE: [signature] DATE: 12-23-23

ORGANIZATION: Gerdau Ameristeel | CERTIFICATION EXPIRATION DATE: 5-15-24

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TITLE | DATE

VERIFIED BY: State of Tennessee Singleton Smoke School | DATE: 11-15 23

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