Table 26
New Steel International, Inc.
Haverhill, Ohio
Coal Grinding and Handling (P902)

Emission Points	Max. Capacity (tons/hr)	Max. Capacity (tons/yr)	Max. Baghouse Flow Rate (acfm)	Max. Baghouse Emission Rate (gr/dscf)	Emission Factors (lbs/ton) PM	Emission Factors (lbs/ton) PM_{10}	Overall Capture & Control Efficiency (%)	Control Description	Max. Uncontrolled Emissions (lbs/hr) PM	Max. Uncontrolled Emissions (lbs/hr) PM_{10}	Max. Controlled Emissions (lbs/hr) PM	Max. Controlled Emissions (lbs/hr) PM_{10}	Max. Controlled Emissions (tons/yr) PM	Max. Controlled Emissions (tons/yr) PM_{10}	Comments
Grizzly Feeders															
Frontend Loader to Grizzly Feeder 2A	66.14	422,710			0.00143	0.000675	94	Hood with Baghouse	0.09	0.04	0.00	0.00	0.02	0.01	Note 1, 2, 3
Frontend Loader to Grizzly Feeder 3A	66.14	422,710			0.00143	0.000675	94	Hood with Baghouse	0.09	0.04	0.00	0.00	0.02	0.01	Note 1, 2, 3
Frontend Loader to Grizzly Feeder 4A	66.14	422,710			0.00143	0.000675	94	Hood with Baghouse	0.09	0.04	0.00	0.00	0.02	0.01	Note 1, 2, 3
Grizzly Feeder 2A to Conveyor 3A	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grizzly Feeder 3A to Conveyor 4A	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grizzly Feeder 4A to Conveyor 5A	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Conveyor 3A to Hopper 1A	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Conveyor 4A to Hopper 2A	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Conveyor 5A to Hopper 3A	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Hopper 1A to Grinder 1A	66.14	422,710			0.0030	0.00110	100	Hard Plumbed	0.20	0.07	0.00	0.00	0.00	0.00	
Hopper 2A to Grinder 2A	66.14	422,710			0.0030	0.00110	100	Hard Plumbed	0.20	0.07	0.00	0.00	0.00	0.00	
Hopper 3A to Grinder 3A	66.14	422,710			0.0030	0.00110	100	Hard Plumbed	0.20	0.07	0.00	0.00	0.00	0.00	
Frontend Loader to Grizzly Feeder 2B	66.14	422,710			0.00143	0.000675	94	Hood with Baghouse	0.09	0.04	0.00	0.00	0.02	0.01	Note 1, 2, 3
Frontend Loader to Grizzly Feeder 3B	66.14	422,710			0.00143	0.000675	94	Hood with Baghouse	0.09	0.04	0.00	0.00	0.02	0.01	Note 1, 2, 3
Frontend Loader to Grizzly Feeder 4B	66.14	422,710			0.00143	0.000675	94	Hood with Baghouse	0.09	0.04	0.00	0.00	0.02	0.01	Note 1, 2, 3
Grizzly Feeder 2B to Conveyor 3B	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grizzly Feeder 3B to Conveyor 4B	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grizzly Feeder 4B to Conveyor 5B	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Conveyor 3B to Hopper 1B	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Conveyor 4B to Hopper 2B	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Conveyor 5B to Hopper 3B	66.14	422,710			0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Hopper 1B to Grinder 1B	66.14	422,710			0.0030	0.00110	100	Hard Plumbed	0.20	0.07	0.00	0.00	0.00	0.00	
Hopper 2B to Grinder 2B	66.14	422,710			0.0030	0.00110	100	Hard Plumbed	0.20	0.07	0.00	0.00	0.00	0.00	
Hopper 3B to Grinder 3B	66.14	422,710			0.0030	0.00110	100	Hard Plumbed	0.20	0.07	0.00	0.00	0.00	0.00	
Fugitive Emissions Total									3.24	1.38	0.45	0.04	0.47	0.16	
Grinders															
Grinder 1A Baghouse 2A	66.14	422,710	75,000	0.00218			99	Under Vacuum to Baghouse	140.14	140.14	1.40	1.40	6.14	6.14	Note 4, 5
Grinder 2A Baghouse 3A	66.14	422,710	75,000	0.00218			99	Under Vacuum to Baghouse	140.14	140.14	1.40	1.40	6.14	6.14	Note 4, 5
Grinder 3A Baghouse 4A	66.14	422,710	75,000	0.00218			99	Under Vacuum to Baghouse	140.14	140.14	1.40	1.40	6.14	6.14	Note 4, 5
Grinder 1B Baghouse 2B	66.14	422,710	75,000	0.00218			99	Under Vacuum to Baghouse	140.14	140.14	1.40	1.40	6.14	6.14	Note 4, 5
Grinder 2B Baghouse 3B	66.14	422,710	75,000	0.00218			99	Under Vacuum to Baghouse	140.14	140.14	1.40	1.40	6.14	6.14	Note 4, 5
Grinder 3B Baghouse 4B	66.14	422,710	75,000	0.00218			99	Under Vacuum to Baghouse	140.14	140.14	1.40	1.40	6.14	6.14	Note 4, 5
Emissions Unit Total									846.84	842.43	8.50	8.47	37.38	37.21	

Note 1 - Fugitive emissions assume 99% capture efficiency and 99% control efficiency

Note 2- All particulate emissions will be controlled with the coal grinder baghouses

Note 3- Controlled emissions are from the uncaptured portion only. The captured portion is accounted for from the grinder baghouses.

Note 4 - Controlled emissions are calculated as follows:
lbs/hr = conc x gasvolu x 60 min/hr / 7,000 gr/lb

Uncontrolled emissions are calculated as follows:
lbs/hr = controlled (lbs/hr) / (1 - control efficiency / 100)

Note 5- Controlled emissions are from the captured portion only. The uncaptured portion is accounted for elsewhere (see Note 3).

Other Notes and Assumptions:

PM emission factor of 0.003 lbs/ton is from AP-42 Table 11.19.2-2 for transfer points

PM_{10} emission factor of 0.0011 lbs/ton is from AP-42 Table 11.19.2-2 for transfer points

PM_{10} emission factor of 0.0024 lbs/ton is from AP-42 Table 11.19.3-2 for tertiary crushing

PM emission factor of 0.0054 lbs/ton is from AP-42 Table 11.19.3-2 for tertiary crushing

Maximum annual capacity is 2,638,386/6 = 422,710 tons/grinder. This assumes all of the coal used in the DRI pellets, RHF burners and boiler burners is processed through this emissions unit.

Each grinder has a rated maximum hourly capacity of 60 min/hr x 1.1023 tons/mt = 66.14 tons/hr

PM emission factor of 0.00143 lbs/ton is based on AP-42 Section 13.2.4 assuming a windspeed on 8.7 mph and a coal moisture content of 4.9%

PM_{10} emission factor of 0.000675 lbs/ton is based on AP-42 Section 13.2.4 assuming a windspeed on 8.7 mph and a coal moisture content of 4.9%

Table 27
New Steel International, Inc.
Haverhill, Ohio
Coal Grinding and Handling (P902)

Emission Points	Annual Hours of Operation	Fuel Max. Volume (Nm^3/hr)	Fuel Max. Volume MMCF/hr	Emission Factors (lb/MMCF)						Max. Uncontrolled Emissions (lbs/hr)						Max. Controlled Emissions (lbs/hr)						Max. Controlled Emissions (tons/yr)					
				PM/PM10 F + C	NOx	SO2	CO	OC	VOC	PM/PM10 F + C	NOx	SO2	CO	OC	VOC	PM/PM10 F + C	NOx	SO2	CO	OC	VOC	PM/PM10 F + C	NOx	SO2	CO	OC	VOC
Hot Gas Generator #1A	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Hot Gas Generator #2A	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Hot Gas Generator #3A	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Hot Gas Generator #1B	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Hot Gas Generator #2B	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Hot Gas Generator #3B	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Totals										**0.46**	**6.04**	**0.04**	**5.07**	**0.66**	**0.33**	**0.46**	**6.04**	**0.04**	**5.07**	**0.66**	**0.33**	**2.01**	**26.45**	**0.16**	**22.22**	**2.91**	**1.45**

Other Notes and Assumptions:

Emission factors from natural gas combustion are from AP42 1.4

Table 28
New Steel International, Inc.
Haverhill, Ohio
Iron Ore Grinding and Handling (P903)

Emission Points	Max. Capacity (tons/hr)	Max. Capacity (tons/yr)	Max. Baghouse Flow Rate (acfm)	Max. Baghouse Emission Rate (gr/dscf)	Emission Factors (lbs/ton)		Overall Capture & Control Efficiency (%)	Control Description	Max. Uncontrolled Emissions (lbs/hr)		Max. Controlled Emissions (lbs/hr)		Max. Controlled Emissions (tons/yr)		Comments
					PM	PM_{10}			PM	PM_{10}	PM	PM_{10}	PM	PM_{10}	
Front End Loader to Grizzly Feeder 5A	165.35	952,398			0.00121	0.000573	94	Hood with Baghouse	0.20	0.09	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grizzly Feeder 5A to Conveyor 6A	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Conveyor 6A to Hopper 4A	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Hopper 4A to Grinder 4A	165.35	952,398			0.0030	0.00110	100	Hard Plumbed	0.50	0.18	0.00	0.00	0.00	0.00	Note 1, 2, 3
Front End Loader to Grizzly Feeder 6A	165.35	952,398			0.00121	0.000573	94	Hood with Baghouse	0.20	0.09	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grizzly Feeder 6A to Conveyor 7A	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Conveyor 7A to Hopper 5A	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Hopper 5A to Grinder 5A	165.35	952,398			0.0030	0.00110	100	Hard Plumbed	0.50	0.18	0.00	0.00	0.00	0.00	Note 1, 2, 3
Front End Loader to Grizzly Feeder 7A	165.35	952,398			0.00121	0.000573	94	Hood with Baghouse	0.20	0.09	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grizzly Feeder 7A to Conveyor 8A	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Conveyor 8A to Hopper 6A	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Hopper 6A to Grinder 6A	165.35	952,398			0.0030	0.00110	100	Hard Plumbed	0.50	0.18	0.00	0.00	0.00	0.00	Note 1, 2, 3
Front End Loader to Grizzly Feeder 5B	165.35	952,398			0.00121	0.000573	94	Hood with Baghouse	0.20	0.09	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grizzly Feeder 5B to Conveyor 6B	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Conveyor 6B to Hopper 4B	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Hopper 4B to Grinder 4B	165.35	952,398			0.0030	0.00110	100	Hard Plumbed	0.50	0.18	0.00	0.00	0.00	0.00	Note 1, 2, 3
Front End Loader to Grizzly Feeder 6B	165.35	952,398			0.00121	0.000573	94	Hood with Baghouse	0.20	0.09	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grizzly Feeder 6B to Conveyor 7B	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Conveyor 7B to Hopper 5B	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Hopper 5B to Grinder 5B	165.35	952,398			0.0030	0.00110	100	Hard Plumbed	0.50	0.18	0.00	0.00	0.00	0.00	Note 1, 2, 3
Front End Loader to Grizzly Feeder 7B	165.35	952,398			0.00121	0.000573	94	Hood with Baghouse	0.20	0.09	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grizzly Feeder 7B to Conveyor 8B	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Conveyor 8B to Hopper 6B	165.35	952,398			0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.07	0.03	Note 1, 2, 3
Hopper 6B to Grinder 6B	165.35	952,398			0.0030	0.00110	100	Hard Plumbed	0.50	0.18	0.00	0.00	0.00	0.00	Note 1, 2, 3
Fugitive Emissions Total									10.13	3.84	0.36	0.14	1.03	0.40	
Grinder 4A Baghouse 5A	165.35	952,398	55,915	0.00218			99	Under Vacuum to Baghouse	104.48	104.48	1.04	1.04	4.58	4.58	
Grinder 5A Baghouse 6A	165.35	952,398	55,915	0.00218			99	Under Vacuum to Baghouse	104.48	104.48	1.04	1.04	4.58	4.58	
Grinder 6A Baghouse 7A	165.35	952,398	55,915	0.00218			99	Under Vacuum to Baghouse	104.48	104.48	1.04	1.04	4.58	4.58	
Grinder 4B Baghouse 5B	165.35	952,398	55,915	0.00218			99	Under Vacuum to Baghouse	104.48	104.48	1.04	1.04	4.58	4.58	
Grinder 5B Baghouse 6B	165.35	952,398	55,915	0.00218			99	Under Vacuum to Baghouse	104.48	104.48	1.04	1.04	4.58	4.58	
Grinder 6B Baghouse 7B	165.35	952,398	55,915	0.00218			99	Under Vacuum to Baghouse	104.48	104.48	1.04	1.04	4.58	4.58	
Emissions Unit Total									637.02	630.73	6.63	6.41	28.49	27.85	

Note 1 - Fugitive emissions assume 95% capture efficiency and 99% control efficiency

Note 2- All particulate emissions will be controlled with the ore grinder baghouses

Note 3- Controlled emissions are from the uncaptured portion only. The captured portion is accounted for from the grinder baghouses.

Note 4 - Controlled emissions are calculated as follows:
lbs/hr = gr/dscf x cf/min x 60 min/hr / 7,000 gr/lb

Uncontrolled emissions are calculated as follows:
lbs/hr = controlled (lbs/hr) / (1 - control efficiency / 100)

Other Notes and Assumptions:

Each grinder has a maximum hourly rate of 150 mt/hr x 1.1023 tons/mt = 165.35 tons/hr

PM emission factor of 0.003 lbs/ton is from AP-42 Table 11.19.2-2 for transfer points

PM_{10} emission factor of 0.0011 lbs/ton is from AP-42 Table 11.19.2-2 for transfer points

PM emission factor of 0.00121 lbs/ton is based on AP-42 Section 13.2.4 assuming a windspeed on 8.7 mph and an iron ore moisture content of 5.4%

PM_{10} emission factor of 0.000573 lbs/ton is based on AP-42 Section 13.2.4 assuming a windspeed on 8.7 mph and an iron ore moisture content of 5.4%

Table 29
New Steel International, Inc.
Haverhill, Ohio
Iron Ore Grinding & Handling (P903)

Emission Points	Annual Hours of Operation	Fuel Max. Volume (Nm^3/hr)	Fuel Max. Volume MMCF/hr	Emission Factors (lb/MMCF)						Max. Uncontrolled Emissions (lbs/hr)						Max. Controlled Emissions (lbs/hr)						Max. Controlled Emissions (tons/yr)					
				PM/PM10 F + C	NOx	SO2	CO	OC	VOC	PM/PM10 F + C	NOx	SO2	CO	OC	VOC	PM/PM10 F + C	NOx	SO2	CO	OC	VOC	PM/PM10 F + C	NOx	SO2	CO	OC	VOC
Hot Gas Generator #4A	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Hot Gas Generator #5A	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Hot Gas Generator #6A	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Hot Gas Generator #4B	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Hot Gas Generator #5B	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.06	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Hot Gas Generator #6B	8,760	285.00	0.01	7.60	100.00	0.60	84.00	11.00	5.50	0.08	1.01	0.01	0.85	0.11	0.08	0.08	1.01	0.01	0.85	0.11	0.06	0.34	4.41	0.03	3.70	0.48	0.24
Totals										**0.46**	**6.04**	**0.04**	**5.07**	**0.66**	**0.33**	**0.46**	**6.04**	**0.04**	**5.07**	**0.66**	**0.33**	**2.01**	**26.46**	**0.16**	**22.22**	**2.91**	**1.45**

Other Notes and Assumptions:

These emission factors are from AP42 Tables 1.4-1 and 1.4-2

Table 30
New Steel International, Inc.
Haverhill, Ohio
RHF Charge Mixers (P904)

Emission Points	Max. Capacity (tons/hr)	Max. Capacity (tons/yr)	Emission Factors (lbs/ton)		Overall Capture & Control Efficiency (%)	Control Description	Max. Uncontrolled Emissions (lbs/hr)		Max. Controlled Emissions (lbs/hr)		Max. Controlled Emissions (tons/yr)		Comments
			PM	PM_{10}			PM	PM_{10}	PM	PM_{10}	PM	PM_{10}	
Grinder 1A (From P901) to Conveyor 9A	66.14	422,710.37	0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grinder 2A (From P901) to Conveyor 9A	66.14	422,710.37	0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grinder 3A (From P901) to Conveyor 9A	66.14	422,710.37	0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Conveyor 9A to Hopper 8A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 9A to Hopper 9A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 9A to Hopper 10A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 9A to Hopper 11A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Grinder 4A (From P902) to Hopper 12A	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grinder 4A (From P902) to Hopper 13A	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grinder 5A (From P902) to Hopper 12A	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grinder 5A (From P902) to Hopper 13A	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grinder 6A (From P902) to Hopper 12A	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grinder 6A (From P902) to Hopper 13A	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Pneumatic Truck to Hopper 14A	4.53	39,683.23	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Pneumatic Loaded to Hopper 15A	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Pneumatic Loaded to Hopper 16A	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Pneumatic Truck to Hopper 17A	2.72	23,809.94	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Front End Loader (From F001) to Hopper 18A	2.27	19,841.62	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Hopper 8A to Conveyor 11A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Hopper 9A to Conveyor 12A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Hopper 10A to Conveyor 13A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Hopper 11A to Conveyor 14A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Hopper 12A to Conveyor 15A	165.35	1,428,596.35	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.11	0.04	Note 1, 2, 3
Hopper 13A to Conveyor 16A	165.35	1,428,596.35	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.11	0.04	Note 1, 2, 3
Hopper 14A to Conveyor 17A	4.53	39,683.23	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Hopper 15A to Conveyor 18A	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Hopper 16A to Conveyor 19A	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Hopper 17A to Conveyor 20A	2.72	23,809.94	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 11A to Conveyor 10A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 12A to Conveyor 10A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 13A to Conveyor 10A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 14A to Conveyor 10A	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 15A to Conveyor 10A	165.35	1,428,596.35	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.11	0.04	Note 1, 2, 3
Conveyor 16A to Conveyor 10A	165.35	1,428,596.35	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.11	0.04	Note 1, 2, 3
Conveyor 17A to Conveyor 10A	4.53	39,683.23	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 18A to Conveyor 10A	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 19A to Conveyor 10A	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 20A to Conveyor 10A	2.72	23,809.94	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Hopper 18A to Conveyor 10A	2.27	19,841.62	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 10A to Mixer #1	1,139.52	4,258,262.64	0.0030	0.00110	94	Hood with Baghouse	3.42	1.25	0.17	0.06	0.32	0.12	Note 1, 2, 3
Conveyor 25 (From P905) to Mixer #1	11.40	42,582.63	0.0030	0.00110	94	Hood with Baghouse	0.03	0.01	0.00	0.00	0.00	0.00	Note 1, 2, 3
Mixer #1 to Conveyor 21	1,150.92	4,300,845.26	0.0030	0.00110	94	Hood with Baghouse	3.45	1.27	0.17	0.06	0.32	0.12	Note 1, 2, 3
Grinder 1B (From P901) to Conveyor 14B	66.14	422,710.37	0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grinder 2B (From P901) to Conveyor 14B	66.14	422,710.37	0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Grinder 3B (From P901) to Conveyor 14B	66.14	422,710.37	0.0030	0.00110	94	Hood with Baghouse	0.20	0.07	0.01	0.00	0.03	0.01	Note 1, 2, 3
Conveyor 14B to Hopper 8B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 14B to Hopper 9B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3

Table 30
New Steel International, Inc.
Haverhill, Ohio
RHF Charge Mixers (P904)

Emission Points	Max. Capacity (tons/hr)	Max. Capacity (tons/yr)	Emission Factors (lbs/ton)		Overall Capture & Control Efficiency (%)	Control Description	Max. Uncontrolled Emissions (lbs/hr)		Max. Controlled Emissions (lbs/hr)		Max. Controlled Emissions (tons/yr)		Comments
			PM	PM_{10}			PM	PM_{10}	PM	PM_{10}	PM	PM_{10}	
Conveyor 14B to Hopper 10B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 14B to Hopper 11B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Grinder 4B (From P902) to Hopper 12B	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grinder 4B (From P902) to Hopper 13B	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grinder 5B (From P902) to Hopper 12B	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grinder 5B (From P902) to Hopper 13B	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grinder 6B (From P902) to Hopper 12B	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grinder 6B (From P902) to Hopper 13B	165.35	476,198.78	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.04	0.01	Note 1, 2, 3
Pneumatic Truck to Hopper 14B	4.53	39,683.23	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Pneumatic Loaded to Hopper 15B	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Pneumatic Loaded to Hopper 16B	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Pneumatic Truck to Hopper 17B	2.72	23,809.94	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Front End Loader (From F001) to Hopper 18B	2.27	19,841.62	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Hopper 8B to Conveyor 11B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Hopper 9B to Conveyor 12B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Hopper 10B to Conveyor 13B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Hopper 11B to Conveyor 14B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Hopper 12B to Conveyor 15B	165.35	1,428,596.35	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.11	0.04	Note 1, 2, 3
Hopper 13B to Conveyor 16B	165.35	1,428,596.35	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.11	0.04	Note 1, 2, 3
Hopper 14B to Conveyor 17B	4.53	39,683.23	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Hopper 15B to Conveyor 18B	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Hopper 16B to Conveyor 19B	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Hopper 17B to Conveyor 20B	2.72	23,809.94	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 11B to Conveyor 15B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 12B to Conveyor 15B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 13B to Conveyor 15B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 14B to Conveyor 15B	198.41	317,032.78	0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 15B to Conveyor 15B	165.35	1,428,596.35	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.11	0.04	Note 1, 2, 3
Conveyor 16B to Conveyor 15B	165.35	1,428,596.35	0.0030	0.00110	94	Hood with Baghouse	0.50	0.18	0.02	0.01	0.11	0.04	Note 1, 2, 3
Conveyor 17B to Conveyor 15B	4.53	39,683.23	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 18B to Conveyor 15B	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 19B to Conveyor 15B	2.83	24,802.02	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 20B to Conveyor 15B	2.72	23,809.94	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Hopper 18B to Conveyor 15B	2.27	19,841.62	0.0030	0.00110	94	Hood with Baghouse	0.01	0.00	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 15B to Mixer #2	1,139.52	4,258,262.64	0.0030	0.00110	94	Hood with Baghouse	3.42	1.25	0.17	0.06	0.32	0.12	Note 1, 2, 3
Conveyor 25 (From P905) to Mixer #2	11.40	42,582.63	0.0030	0.00110	94	Hood with Baghouse	0.03	0.01	0.00	0.00	0.00	0.00	Note 1, 2, 3
Mixer #2 to Conveyor 21	1,150.92	4,300,845.26	0.0030	0.00110	94	Hood with Baghouse	3.45	1.27	0.17	0.06	0.32	0.12	Note 1, 2, 3
Total							39.47	14.47	1.97	0.72	3.39	1.24	

Note 1 - Fugitive emissions assume 95% capture efficiency and 99% control efficiency

Note 2- All particulate emissions will be controlled with the coal grinder baghouses

Note 3- Controlled emissions are from the uncaptured portion only. The captured portion is accounted for from the grinder baghouses.

Other Notes and Assumptions:

PM emission factor of 0.003 lbs/ton is from AP-42 Table 11.19.2-2 for transfer points

PM_{10} emission factor of 0.0011 lbs/ton is from AP-42 Table 11.19.2-2 for transfer points

Mixing occurs inside machinery so it assumed that no emissions occur from the mixing but only from the transfer of material

Fugitive emissions assume 95% capture efficiency and 99% control efficiency

All particulate emissions will be controlled with the coal and ore grinder baghouses

Controlled emissions are from the uncaptured portion only. The captured portion is accounted for from the grinder baghouses.

It is assumed that 1% of the screened material in the RHF building is overs and 1% is unders

Table 31
New Steel International, Inc.
Haverhill, Ohio
RHF Building (P905)

Emission Points	Max. Capacity (tons/hr)	Max. Capacity (tons/yr)	Max. Baghouse Flow Rate (acfm)	Max. Baghouse Emission Rate (gr/dscf)	Emission Factors (lbs/ton) PM	Emission Factors (lbs/ton) PM_{10}	Overall Capture & Control Efficiency (%)	Control Description	Max. Uncontrolled Emissions (lbs/hr) PM	Max. Uncontrolled Emissions (lbs/hr) PM_{10}	Max. Controlled Emissions (lbs/hr) PM	Max. Controlled Emissions (lbs/hr) PM_{10}	Max. Controlled Emissions (tons/yr) PM	Max. Controlled Emissions (tons/yr) PM_{10}	Comments
Limestone and Coke Handling															
Truck to Limestone Storage Pile	120.00	79,366.46			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.01	0.00	Note 1, 2, 3
Truck to Coke Storage Pile	120.00	436,515.55			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.03	0.01	Note 1, 2, 3
Storage Pile to Front End Loader	120.00	515,882.02			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.04	0.01	Note 1, 2, 3
Front End Loader to Grizzly Feeder 8	120.00	515,882.02			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.04	0.01	Note 1, 2, 3
Grizzly Feeder 8 to Conveyor 29	120.00	515,882.02			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.04	0.01	Note 1, 2, 3
Conveyor 29 to Conveyor 30	120.00	515,882.02			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.04	0.01	Note 1, 2, 3
Conveyor 30 to Hopper 19A	120.00	79,366.46			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.01	0.00	Note 1, 2, 3
Conveyor 30 to Hopper 19B	120.00	436,515.55			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.03	0.01	Note 1, 2, 3
Hopper 19A to Conveyor 31	120.00	79,366.46			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.01	0.00	Note 1, 2, 3
Hopper 19B to Conveyor 31	120.00	436,515.55			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.03	0.01	Note 1, 2, 3
RHF No.1 (P001)															
Conveyor 21 (From P904) to Hopper 20A	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Hopper 20A to Conveyor 22A	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 22A to Pelletizer 1A	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Pelletizer 1A to Conveyor 23A	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 23A to Screen 1A	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1A to Conveyor 24A	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1A to Conveyor 25	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Screen 1A to Conveyor 26	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 26 to Storage Pile	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Storage Pile to Front End Loader	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 24A to Conveyor 27A	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 21A to Conveyor 27A	551.15	4,409.25			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.00	0.00	Note 1, 2, 3
Conveyor 27A to Conveyor 28A	551.15	1,409,352.03			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 28A to Rotary Hearth Furnace 1	551.15	1,409,352.03			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 22A to Conveyor 31	120.00	4,409.25			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
Conveyor 31 to Rotary Hearth Furnace 1	120.00	4,409.25			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
RHF 1 to RHF Vessels	551.15	1,413,761.28			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
RHF No.2 (P002)															
Conveyor 21 (From P904) to Hopper 20B	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Hopper 20B to Conveyor 22B	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 22B to Pelletizer 1B	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Pelletizer 1B to Conveyor 23B	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 23B to Screen 1B	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1B to Conveyor 24B	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1B to Conveyor 25	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Screen 1B to Conveyor 26	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 26 to Storage Pile	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Storage Pile to Front End Loader	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 24B to Conveyor 27B	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 21B to Conveyor 27B	551.15	796.45			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.00	0.00	Note 1, 2, 3
Conveyor 27B to Conveyor 28B	551.15	1,405,739.24			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 28B to Rotary Hearth Furnace 2	551.15	1,405,739.24			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 22B to Conveyor 31	120.00	796.45			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
Conveyor 31 to Rotary Hearth Furnace 2	120.00	796.45			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
RHF 2 to RHF Vessels	551.15	1,405,535.69			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3

Table 31
New Steel International, Inc.
Haverhill, Ohio
RHF Building (P905)

RHF No.3 (P003)																
Conveyor 21 (From P904) to Hopper 20C	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Hopper 20C to Conveyor 22C	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 22C to Pelletizer 1C	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Pelletizer 1C to Conveyor 23C	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 23C to Screen 1C	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1C to Conveyor 24C	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1C to Conveyor 25	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Screen 1C to Conveyor 26	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 26 to Storage Pile	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Storage Pile to Front End Loader	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 24C to Conveyor 27C	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 21C to Conveyor 27C	551.15	796.45			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.00	0.00	Note 1, 2, 3
Conveyor 27C to Conveyor 28C	551.15	1,405,739.24			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 28C to Rotary Hearth Furnace 3	551.15	1,405,739.24			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 22C to Conveyor 31	120.00	796.45			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
Conveyor 31 to Rotary Hearth Furnace 3	120.00	796.45			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
RHF 3 to RHF Vessels	551.15	1,406,535.69			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
RHF No.4 (P004)																
Conveyor 21 (From P904) to Hopper 20D	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Hopper 20D to Conveyor 22D	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 22D to Pelletizer 1D	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Pelletizer 1D to Conveyor 23D	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 23D to Screen 1D	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1D to Conveyor 24D	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1D to Conveyor 25	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Screen 1D to Conveyor 26	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 26 to Storage Pile	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Storage Pile to Front End Loader	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 24D to Conveyor 27D	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 21D to Conveyor 27D	551.15	796.45			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.00	0.00	Note 1, 2, 3
Conveyor 27D to Conveyor 28D	551.15	1,405,739.24			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 28D to Rotary Hearth Furnace 4	551.15	1,405,739.24			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 22D to Conveyor 31	120.00	796.45			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
Conveyor 31 to Rotary Hearth Furnace 4	120.00	796.45			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
RHF 4 to RHF Vessels	551.15	1,406,535.69			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
RHF No.5 (P005)																
Conveyor 21 (From P904) to Hopper 20E	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Hopper 20E to Conveyor 22E	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 22E to Pelletizer 1E	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Pelletizer 1E to Conveyor 23E	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 23E to Screen 1E	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1E to Conveyor 24E	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1E to Conveyor 25	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Screen 1E to Conveyor 26	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 26 to Storage Pile	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Storage Pile to Front End Loader	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 24E to Conveyor 27E	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 21E to Conveyor 27E	551.15	796.45			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.00	0.00	Note 1, 2, 3
Conveyor 27E to Conveyor 28E	551.15	1,405,739.24			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 28E to Rotary Hearth Furnace 5	551.15	1,405,739.24			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 22E to Conveyor 31	120.00	796.45			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
Conveyor 31 to Rotary Hearth Furnace 5	120.00	796.45			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
RHF 5 to RHF Vessels	551.15	1,406,535.69			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3

Table 31
New Steel International, Inc.
Haverhill, Ohio
RHF Building (P905)

RHF No.6 (P006)															
Conveyor 21 (From P904) to Hopper 20F	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Hopper 20F to Conveyor 22F	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 22F to Pelletizer 1F	551.15	1,433,615.09			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Pelletizer 1F to Conveyor 23F	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Conveyor 23F to Screen 1F	551.15	1,433,615.09			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1F to Conveyor 24F	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Screen 1F to Conveyor 25	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Screen 1F to Conveyor 26	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 26 to Storage Pile	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Storage Pile to Front End Loader	120.00	14,336.15			0.0030	0.00110	99	Wet Material	0.36	0.13	0.00	0.00	0.00	0.00	Note 1, 2, 3
Conveyor 24F to Conveyor 27F	551.15	1,404,942.79			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 21F to Conveyor 27F	551.15	796.45			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.00	0.00	Note 1, 2, 3
Conveyor 27F to Conveyor 28F	551.15	1,405,739.24			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Conveyor 28F to Rotary Hearth Furnace 6	551.15	1,405,739.24			0.0030	0.00110	99	Wet Material	1.65	0.61	0.02	0.01	0.02	0.01	Note 1, 2, 3
Hopper 22F to Conveyor 31	120.00	796.45			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
Conveyor 31 to Rotary Hearth Furnace 6	120.00	796.45			0.0030	0.00110	94	Hood with Baghouse	0.36	0.13	0.02	0.01	0.00	0.00	Note 1, 2, 3
RHF 6 to RHF Vessels	551.15	1,406,535.69			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.08	0.03	0.11	0.04	Note 1, 2, 3
Screen #1A	551.15	1,433,615.09			0.025	0.0087	99	Wet Material	13.78	4.80	0.14	0.05	0.18	0.06	Note 1, 2, 3
Screen #1B	551.15	1,433,615.09			0.025	0.0087	99	Wet Material	13.78	4.80	0.14	0.05	0.18	0.06	Note 1, 2, 3
Screen #1C	551.15	1,433,615.09			0.025	0.0087	99	Wet Material	13.78	4.80	0.14	0.05	0.18	0.06	Note 1, 2, 3
Screen #1D	551.15	1,433,615.09			0.025	0.0087	99	Wet Material	13.78	4.80	0.14	0.05	0.18	0.06	Note 1, 2, 3
Screen #1E	551.15	1,433,615.09			0.025	0.0087	99	Wet Material	13.78	4.80	0.14	0.05	0.18	0.06	Note 1, 2, 3
Screen #1F	551.15	1,433,615.09			0.025	0.0087	99	Wet Material	13.78	4.80	0.14	0.05	0.18	0.06	Note 1, 2, 3
Fugitive Total									208.36	74.86	4.78	1.74	5.19	1.88	
Baghouse 8A			75,000	0.00218			99	Under Vacuum to Baghouse	140.14	140.14	1.40	1.40	6.14	6.14	
Baghouse 8B			75,000	0.00218			99	Under Vacuum to Baghouse	140.14	140.14	1.40	1.40	6.14	6.14	
Emissions Unit Total									485.05	353.82	7.40	4.47	17.20	14.06	

Note 1 - Fugitive emissions assume 95% capture efficiency and 99% control efficiency

Note 2- All particulate emissions will be controlled with the building baghouses

Note 3- Controlled emissions are from the uncaptured portion only. The captured portion is accounted for from the building baghouses.

Other Notes and Assumptions:

PM emission factor of 0.003 lbs/ton is from AP-42 Table 11.19.2-2

PM_{10} emission factor of 0.0011 lbs/ton is from AP-42 Table 11.19.2-2

Storage piles are enclosed therefore wind errosion and storage pile unloading emissions are assume to be negligible.

Water is added to the RHF charge mix in the pelletizers, it is assumed that this moisture provides a 99% control efficiency for the dust

Conveyors 20, 21, 24, 25 and 26 all operate at a maximum rate of 120 tons/hr; all other conveyors have a maximum rate of 500 mt/hr = 500 x 1.1023 tons/mt = 551.15 tons/hr unless otherwise stated

Table 32
New Steel International, Inc.
Haverhill, Ohio
DRI Storage and Handling (P906)

Emission Points	Max. Capacity (tons/hr)	Max. Capacity (tons/yr)	Max. Baghouse Flow Rate (acfm)	Max. Baghouse Emission Rate (gr/dscf)	Emission Factors (lbs/ton)		Overall Capture & Control Efficiency (%)	Control Description	Max. Uncontrolled Emissions (lbs/hr)		Max. Controlled Emissions (lbs/hr)		Max. Controlled Emissions (tons/yr)		Comments
					PM	PM_{10}			PM	PM_{10}	PM	PM_{10}	PM	PM_{10}	
DRI Storage Building															
DRI Unloading to Storage Piles Load In	551.15	3,968,323			0.0000	0.00000	0		Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	
Storage Piles Wind Erosion	551.15	3,968,323			0.0000	0.00000	0		Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	
Storage Pile Load Out	551.15	3,968,323			0.0000	0.00000	0		Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	
DRI Handling															
Front End Loader to Hopper 22	551.15	3,968,323			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.10	0.04	0.36	0.13	Note 2,3,4
Hopper 22 to Conveyor 32	551.15	3,968,323			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.10	0.04	0.36	0.13	Note 2,3,4
Conveyor 32 to Conveyor 33	551.15	3,968,323			0.0030	0.00110	94	Hood with Baghouse	1.65	0.61	0.10	0.04	0.36	0.13	Note 2,3,4
Total Fugitive Emissions									4.96	1.82	0.30	0.11	1.07	0.39	
Baghouse 10			25,000	0.00218			99	Under Vacuum to Baghouse	46.71	46.71	0.47	0.47	2.05	2.05	
Total									51.67	48.53	0.76	0.58	3.12	2.44	

Note 1 - Unloading and loading emission factors from AP42 13.2-4 are a factor of windspeed, due to windspeed being zero inside the building these emission factors and emissions are therefore are also zero

Note 2 - Fugitive emissions assume 95% capture efficiency and 99% control efficiency

Note 3 - All particulate emissions will be controlled with a baghouse located on the DRI storage building

Note 4 - Controlled emissions are from the uncaptured portion only. The captured portion is accounted for from the crusher baghouses.

Other Notes and Assumptions:

PM emission factor of 0.003 lbs/ton is from AP-42 Table 11.19.2-2 for transfer points

PM_{10} emission factor of 0.0011 lbs/ton is from AP-42 Table 11.19.2-2 for transfer points

Conveyors from the DRI storage building all have a max. throughput rate of 500 metric tons per hour.
500 metric tons/hr x 1.1023 tons / metric ton = 551.15 tons/hr

Table 33
New Steel International, Inc.
Haverhill, Ohio
Alloy-Flux Handling and Storage (P907)

Emission Points	Max. Capacity (tons/hr)	Max. Capacity (tons/yr)	Max. Baghouse Flow Rate (acfm)	Max. Baghouse Emission Rate (gr/dscf)	Emission Factors (lbs/ton) PM	Emission Factors (lbs/ton) PM_{10}	Overall Capture & Control Efficiency (%)	Control Description	Max. Uncontrolled Emissions (lbs/hr) PM	Max. Uncontrolled Emissions (lbs/hr) PM_{10}	Max. Controlled Emissions (lbs/hr) PM	Max. Controlled Emissions (lbs/hr) PM_{10}	Max. Controlled Emissions (tons/yr) PM	Max. Controlled Emissions (tons/yr) PM_{10}	Comments
Alloy Handling															
Railcar to Rail Unloading Chute	200	44,092			0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.00	0.00	Note 5, 6, 7
Unloading Chute 1 to Conveyor 24	100	44,092			0.0030	0.00110	94	Hood with Baghouse	0.30	0.11	0.02	0.01	0.00	0.00	Note 5, 6, 7
Unloading Chute 2 to Conveyor 24	100	44,092			0.0030	0.00110	94	Hood with Baghouse	0.30	0.11	0.02	0.01	0.00	0.00	Note 5, 6, 7
Unloading Chute 3 to Conveyor 25	100	44,092			0.0030	0.00110	94	Hood with Baghouse	0.30	0.11	0.02	0.01	0.00	0.00	Note 5, 6, 7
Unloading Chute 4 to Conveyor 25	100	44,092			0.0030	0.00110	94	Hood with Baghouse	0.30	0.11	0.02	0.01	0.00	0.00	Note 5, 6, 7
Conveyor 24 to Conveyor 26	100	44,092			0.0030	0.00110	94	Hood with Baghouse	0.30	0.11	0.02	0.01	0.00	0.00	Note 5, 6, 7
Conveyor 25 to Conveyor 26	100	44,092			0.0030	0.00110	94	Hood with Baghouse	0.30	0.11	0.02	0.01	0.00	0.00	Note 5, 6, 7
Conveyor 26 to Stair Conveyor 1	200	44,092			0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.00	0.00	Note 5, 6, 7
Stair Conveyor 1 to Conveyor 27	200	44,092			0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.00	0.00	Note 5, 6, 7
Conveyor 27 to Storage Hopper 23	200	44,092			0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.00	0.00	Note 5, 6, 7
Storage Hopper 23 to Conveyor 28	200	44,092			0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.00	0.00	Note 5, 6, 7
Conveyor 28 to Conveyor 29	200	44,092			0.0030	0.00110	94	Hood with Baghouse	0.60	0.22	0.03	0.01	0.00	0.00	Note 5, 6, 7
Flux Handling															
Railcar to Rail Unloading Chute	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Unloading Chute 1 to Conveyor 24	100	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Unloading Chute 2 to Conveyor 24	100	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Unloading Chute 3 to Conveyor 25	100	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Unloading Chute 4 to Conveyor 25	100	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Conveyor 24 to Conveyor 26	100	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Conveyor 25 to Conveyor 26	100	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Conveyor 26 to Stair Conveyor 1	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Stair Conveyor 1 to Conveyor 27	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Conveyor 27 to Storage Hopper 24	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Conveyor 27 to Storage Hopper 25	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Conveyor 27 to Storage Hopper 26	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Conveyor 27 to Storage Hopper 27	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Conveyor 27 to Storage Hopper 28	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Conveyor 27 to Storage Hopper 29	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Storage Hopper 24 to Conveyor 28	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Storage Hopper 25 to Conveyor 28	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Storage Hopper 26 to Conveyor 28	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Storage Hopper 27 to Conveyor 28	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Storage Hopper 28 to Conveyor 28	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Storage Hopper 29 to Conveyor 28	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Conveyor 28 to Conveyor 29	200	303,136			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.02	0.01	Note 5, 6, 7
Carbon Handling															
Railcar to Rail Unloading Chute	200	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Unloading Chute 1 to Conveyor 24	100	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Unloading Chute 2 to Conveyor 24	100	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Unloading Chute 3 to Conveyor 25	100	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Unloading Chute 4 to Conveyor 25	100	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Conveyor 24 to Conveyor 26	100	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Conveyor 25 to Conveyor 26	100	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Conveyor 26 to Stair Conveyor 1	200	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Stair Conveyor 1 to Conveyor 27	200	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Conveyor 27 to Storage Hopper 30	200	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Storage Hopper 30 to Conveyor 28	200	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Conveyor 28 to Conveyor 29	200	66,139			0.0030	0.00110	94	Hood with Baghouse	Note 7	Note 7	Note 7	Note 7	0.00	0.00	Note 5, 6, 7
Total Fugitive Emissions									5.40	1.98	0.27	0.10	0.60	0.22	
Baghouse 11	200	66,139	75,000	0.00218			99	Enclosure and Baghouse	140.14	140.14	1.40	1.40	6.14	6.14	
Total									145.54	142.12	1.67	1.50	6.74	6.36	

Note 1 - This emission point is enclosed and controlled by a baghouse vent hood diverted to the baghouse, the emissions are accounted for in the baghouse calculations

Note 2 - All flux used is assumed to go through Storage Hopper 28 on an annual basis

Note 3 - Conveyor 40 can transfer only 200 tons of material per hour so only one silo may empty at any one time at the max. rate of 200tph

Note 4 - Controlled emissions are calculated as follows:
lbs/hr = gr/cf x acfm x 60 min/hr / 7,000 gr/lb

Uncontrolled emissions are calculated as follows:
lbs/hr = controlled (lbs/hr) / (1 - control efficiency / 100)

Note 5 - Fugitive emissions assume 85% capture efficiency and 99% control efficiency

Note 6 - All particulate emissions will be controlled with the coal grinder baghouses

Note 7 - Controlled emissions are from the uncaptured portion only. The captured portion is accounted for from the grinder baghouses.

Note 7 - Only one railcar will unload at a time so on an hourly basis only one material will be unloaded and subsequently transported via the conveyors to the hoppers at the max hourly conveyor rates, this is assumed to be Alloy

Other Notes and Assumptions:

PM emission factor of 0.003 lbs/ton is from AP-42 Table 11.19.2-2

PM_{10} emission factor of 0.0011 lbs/ton is from AP-42 Table 11.19.2-2

Table 34
New Steel International, Inc.
Haverhill, Ohio
Emission Inventory

Source Number	Operation	Hourly Emission Rates (lbs/hr)									Annual Emission Rates (TPY)								
		Total F + C									Total F + C								
		PM	PM10	NOX	SO2	CO	OC	VOC	Pb	Hg	PM	PM10	NOX	SO2	CO	OC	VOC	Pb	Hg
B001-B006/P001-P006	RHF/Boiler Stack Emissions	128.88	128.88	675.61	847.00	1,320.00	25.20	25.20	0.00042	0.0083	520.77	520.77	2,760.73	3,090.40	5,781.60	110.38	110.38	0.0017	0.0327
B007	Vacuum Degas Boiler #1	0.38	0.38	2.52	0.03	4.23	0.55	0.28	0.00	NA	1.68	1.68	11.04	0.13	18.54	2.43	1.21	0.00	NA
B008	Vacuum Degas Boiler #2	0.38	0.38	2.52	0.03	4.23	0.55	0.28	0.00	NA	1.68	1.68	11.04	0.13	18.54	2.43	1.21	0.00	NA
B009	Emergency Generator #1	1.55	1.28	42.37	0.03	18.96	1.83	1.83	NA	NA	0.39	0.32	10.59	0.01	4.74	0.46	0.46	NA	NA
B010	Emergency Generator #2	1.55	1.28	42.37	0.03	18.96	1.83	1.83	NA	NA	0.39	0.32	10.59	0.01	4.74	0.46	0.46	NA	NA
B011	Emergency Generator #3	1.55	1.28	42.37	0.03	18.96	1.83	1.83	NA	NA	0.39	0.32	10.59	0.01	4.74	0.46	0.46	NA	NA
B012	Emergency Generator #4	1.55	1.28	42.37	0.03	18.96	1.83	1.83	NA	NA	0.39	0.32	10.59	0.01	4.74	0.46	0.46	NA	NA
F001	Scrap Yard	0.42	0.42	NA	NA	NA	NA	NA	NA	NA	1.83	1.83	NA	NA	NA	NA	NA	NA	NA
F002	Roadways	8.58	5.63	NA	NA	NA	NA	NA	NA	NA	37.59	24.66	NA	NA	NA	NA	NA	NA	NA
G001	Fuel Dispensing	NA	NA	NA	NA	NA	2.43	2.43	NA	NA	NA	NA	NA	NA	NA	0.13	0.13	NA	NA
P007	RHF/HRSG Cooling Towers	1.18	1.18	NA	NA	NA	NA	NA	NA	NA	5.17	5.17	NA	NA	NA	NA	NA	NA	NA
P008	Electric Arc Furnace Canopy #1	36.19	36.19	109.46	56.22	661.39	33.07	33.07	0.01	NA	136.97	136.97	364.87	187.39	2,204.62	110.23	110.23	0.05	0.44
P009	Electric Arc Furnace Canopy #2	36.19	36.19	109.46	56.22	661.39	33.07	33.07	0.01	NA	136.97	136.97	364.87	187.39	2,204.62	110.23	110.23	0.05	0.44
P010	Misc. Melt Shop Activities	1.40	1.40	11.05	0.13	18.56	2.43	1.22	0.00	NA	6.14	6.14	48.40	0.58	81.31	10.65	5.32	0.00	NA
P011	Melt Shop Cooling Tower	0.66	0.66	NA	NA	NA	NA	NA	NA	NA	2.89	2.89	NA	NA	NA	NA	NA	NA	NA
P012	Vacuum Degasser	0.12	0.12	1.60	0.01	1.34	0.18	0.09	0.00	NA	0.53	0.53	7.01	0.04	5.89	0.77	0.39	0.00	NA
P013	Tunnel Furnace #1	1.42	1.42	13.09	0.11	15.71	2.06	1.03	0.00	NA	6.22	6.22	57.33	0.49	68.80	9.01	4.50	0.00	NA
P014	Tunnel Furnace #2	1.42	1.42	13.09	0.11	15.71	2.06	1.03	0.00	NA	6.22	6.22	57.33	0.49	68.80	9.01	4.50	0.00	NA
P015	Push-Pull Pickle Line	0.44	0.44	2.87	0.03	4.82	0.63	0.32	0.00	NA	1.91	1.91	12.57	0.15	21.11	2.76	1.38	0.00	NA
P016	PGL No. 1	1.45	1.45	3.00	0.04	5.04	0.66	0.33	0.00	NA	6.33	6.33	13.14	0.16	22.08	2.89	1.45	0.00	NA
P017	PGL No. 2	1.45	1.45	3.00	0.04	5.04	0.66	0.33	0.00	NA	6.33	6.33	13.14	0.16	22.08	2.89	1.45	0.00	NA
P018	Acid Regeneration Plant #1	2.62	2.62	2.32	0.03	3.89	0.51	0.25	0.00	NA	11.49	11.49	10.15	0.12	17.06	2.23	1.12	0.00	NA
P019	Acid Regeneration Plant #2	2.62	2.62	2.32	0.03	3.89	0.51	0.25	0.00	NA	11.49	11.49	10.15	0.12	17.06	2.23	1.12	0.00	NA
P020	Laminar Cooling Tower	0.24	0.24	NA	NA	NA	NA	NA	NA	NA	1.05	1.05	NA	NA	NA	NA	NA	NA	NA
P021	Caster ICW Cooling Tower	0.52	0.52	NA	NA	NA	NA	NA	NA	NA	2.28	2.28	NA	NA	NA	NA	NA	NA	NA
P022	Caster DCW Cooling Tower	0.60	0.60	NA	NA	NA	NA	NA	NA	NA	2.62	2.62	NA	NA	NA	NA	NA	NA	NA
P023	Pickle Line Cooling Tower	0.16	0.16	NA	NA	NA	NA	NA	NA	NA	0.68	0.68	NA	NA	NA	NA	NA	NA	NA
P901	Barge/Railcar Unloading and Storage	4.08	2.89	NA	NA	NA	NA	NA	NA	NA	16.92	12.18	NA	NA	NA	NA	NA	NA	NA
P902	Coal Grinding and Handling	9.47	9.38	6.04	0.04	5.07	0.66	0.33	NA	NA	41.32	41.03	26.45	0.16	22.22	2.91	1.45	NA	NA
P903	Iron Ore Grinding and Handling	7.54	7.32	6.04	0.04	5.07	0.66	0.33	NA	NA	32.51	31.87	26.45	0.16	22.22	2.91	1.45	NA	NA
P904	RHF Charge Mixers	1.97	0.72	NA	NA	NA	NA	NA	NA	NA	3.39	1.24	NA	NA	NA	NA	NA	NA	NA
P905	RHF Building	7.40	4.47	NA	NA	NA	NA	NA	NA	NA	17.20	14.06	NA	NA	NA	NA	NA	NA	NA
P906	DRI Storage and Handling	0.76	0.58	NA	NA	NA	NA	NA	NA	NA	3.12	2.44	NA	NA	NA	NA	NA	NA	NA
P907	Alloy-Flux Handling and Storage	1.67	1.50	NA	NA	NA	NA	NA	NA	NA	6.74	6.36	NA	NA	NA	NA	NA	NA	NA
	Slag Plant	10.58	4.73	NA	NA	NA	NA	NA	NA	NA	37.96	12.30	NA	NA	NA	NA	NA	NA	NA
		277.04	261.09	1,133.46	960.23	2,811.22	113.20	107.14	0.03	0.01	1,069.55	1,018.67	3,837.03	3,468.12	10,615.50	385.92	359.35	0.09	0.91

NA - Not Applicable