United States
Environmental Protection
Agency

Office Of Air Quality
Planning And Standards
Research Triangle Park, NC 27711

EPA-453/R-01-005
January 2001
FINAL REPORT

Air

National Emission Standards for Hazardous Air Pollutants (NESHAP) for Integrated Iron and Steel Plants - Background Information for Proposed Standards

Final Report

EPA-R5-2012-0005960000277

TABLE 3-6. ESTIMATES OF PM EMISSIONS FROM BLAST FURNACE OPERATIONS

Plant	Furnace	Capacity (million tpy)	Casthouse control	Particulate matter emissions (tpy)					
				Casthouse	Raw materials	Slips	Stoves	Slag	Total
	H4	2.0	Covered runners with flame suppression; hood over tapping and tilting spout to baghouse	50	40	30	50	26	196
National Steel, Granite City, IL	A,B	2.4	Hoods over tapping and torpedo car to baghouse; covered runners	60	48	36	60	31	235
National Steel, Ecorse MI	A,B,D	4.9	Hoods over tapping and tilting spout to baghouse	123	98	74	137	64	495
Rouge Steel, Dearborn, MI	B, C	2.7	Flame suppression at taphole & at covered runners	810	54	41	76	35	1,015
USX, Braddock, PA	1, 3	2.3	Air curtain at tapping to baghouse, flame suppression	57	46	35	64	30	232
USX, Fairfield, AL	8	2.0	Covered runners with flame suppression	600	40	30	56	26	752
USX, Gary, IN	4,6,8	3.4	Flame suppression	1,020	68	51	95	44	1,278
USX, Gary, IN	13	2.7	Hood and evacuated covered runners to baghouse	68	54	41	76	35	273
USS/Kobe Steel, Lorain, OH	3	1.3	Hood over tapping to baghouse, covered runners	33	26	20	36	17	131
	4	1.0	Flame suppression	300	20	15	28	13	376
WCI Steel, Warren, OH	1	1.6	Hoods over tapping and pouring station to baghouse	40	32	24	45	21	162
Weirton Steel, Weirton, WV	1,3	2.1	Covered runners with flame suppression for iron & slag	630	42	32	59	27	790
Wheeling Pittsburgh Steel, Mingo Junction, OH	1N	0.7	Partially covered runners with flame suppression	210	14	11	20	9	263

EPA-USS-0298514