APPENDIX B.2

Analysis of Aromatic Content in Binders Used in Plants 706 and 1603

APPENDIX B.2: ANALYSIS OF AROMATIC CONTENT IN BINDERS USED IN PLANTS 706 AND 1603

An evaluation of binder usage in Plant 703 over a period from January 2004 through June 2006 indicated the maximum amount of binder used during that period is approximately 40,000 lbs/month, as shown in Table B.2.1. The MSDS for GP 862D60 Resi-Shell Binder indicates the binder is up to 2.5% phenol and does not list any other aromatic compounds. The MSDS for GP 5520 PARAC Powdered Phenolic Resin indicates the resin is up to 4.7% phenol and does not list any other aromatic compounds. Assuming that phenol represents all the aromatic content in the binder and conservatively assuming that the only binder used is the one with the higher phenol content (up to 4.7%), Plant 703 uses approximately 1,900 lbs aromatic per month in the binder.

A similar evaluation of binder composition and usage in Plant 1603 was also conducted for comparison. From the MSDS for the three binders/catalysts used in the greatest quantities at Plant 1603, the aromatic content is in the range of 63 – 96.1% for PepSet I 1670, 90 – 99% for PepSet II 2670 and 100% for PepSet 3400 (catalyst). Based on PepSet consumption records for 2005, the average monthly usage of the PepSets were approximately 18,000, 14,500, and 1,000 lbs/month of PepSet I 1670, PepSet II 2670 and PepSet 3400, respectively. As a conservative assumption, the lowest aromatic content was used to calculate the total monthly aromatic consumption (as an example, for PepSet I 1670, using 63% aromatic and 18,000 lbs/month results in approximately 11,000 lbs aromatic/month) and a total average monthly aromatic usage was approximately 25,000 lbs/month.

Therefore, as shown in Table B.2.3 the maximum aromatic usage at Plant 703 is roughly 8% that of the average used at Plant 1603. Note that this is conservative estimate as the maximum quantity calculated for Plant 703 is compared to an average value from Plant 1603.

Table B.2.1
Plant 703 Binder Aromatic Content Determination
Pacific Steel Casting Company
Berkeley, California

Binders used and aromatic content of binders		Maximum monthly binder usage		Monthly aromatic throughput	
GP 862D60 Resi-Shell Binder	2.5% phenol	40,000	lbs/month	1,880	lbs/month
GP 5520 PARAC Powdered Phenolic Resin	4.7% phenol				

Notes:

Maximum monthly binder throughput for a period from January 2004 through June 2006, based on Facility records
Phenol represents all the aromatic content in the binder
Use higher aromatic content (4.7% from GP 5520)

Acronyms:

lbs = pounds

Table B.2.2
Plant 1603 Binder Aromatic Content Determination
Pacific Steel Casting Company
Berkeley, California

Binders used and aromatic content of binders		Average monthly binder usage	Monthly aromatic throughput
PepSet I 1670	63% to 96% aromatic	18,000 lbs/month	11,340 lbs/month
PepSet II 2670	90% to 99% aromatic	14,500 lbs/month	13,050 lbs/month
PepSet 3400 (catalyst)	100% aromatic	1,000 lbs/month	1,000 lbs/month
		Total:	25,390 lbs/month

Notes:

Average monthly binder throughput for a period from January 2005 through December 2005, based on Facility records

Acronyms:

lbs = pounds

Table B.2.3. Ratio of Aromatic Content Usage in Plants 703 and 1603

Pacific Steel Casting Company
Berkeley, California

$$\frac{1{,}880 \text{ lbs/month aromatic, Plant 703}}{25{,}390 \text{ lbs/month aromatic, Plant 1603}} = 7.4\%$$

Acronyms:

lbs = pounds

APPENDIX B.3

Control Efficiency for Plant 1603 Exempt Finishing Sources

Table B.3.1
Determination of Composite Control Efficiency of Plant 1603 Exempt Finishing Sources
Pacific Steel Casting Company
Berkeley, California

ID	Name	Device Control	Control Efficiency[a]	Air Flow[b] (cfm)	Weighted Control Efficiency[c] (% of total control)
35	Small Grind	Knock-out box	50%	16,000	6%
36	Large Weld	None	0%	6,500	0%
37	Medium Weld	None	0%	12,300	0%
38	Small Weld	None	0%	16,000	0%
39	Small Chip	Dust Collector	65%	16,000	8%
40	Small & med Arc	Bag House	98%	20,000	14%
41	Large Arc	Bag House	98%	30,000	21%
42	Large Chip	Knock-out box	50%	9,600	3%
43	Medium Chip	None	0%	11,250	0%
				Overall Weighted Control Efficiency[d]	52%

Notes:

[a]Control efficiency for baghouses assume to be the same as the lower bound presented in AP-42 Table 12.13-2 for baghouses on an electric arc furnace (98%); control efficiency for dust collector assumed the same as that of the carbon treatment unit prefilter (65%) as they are both similar cartridge systems; and the control efficiency of knockout boxes estimated as 50% by T. Mitchell Engineers.

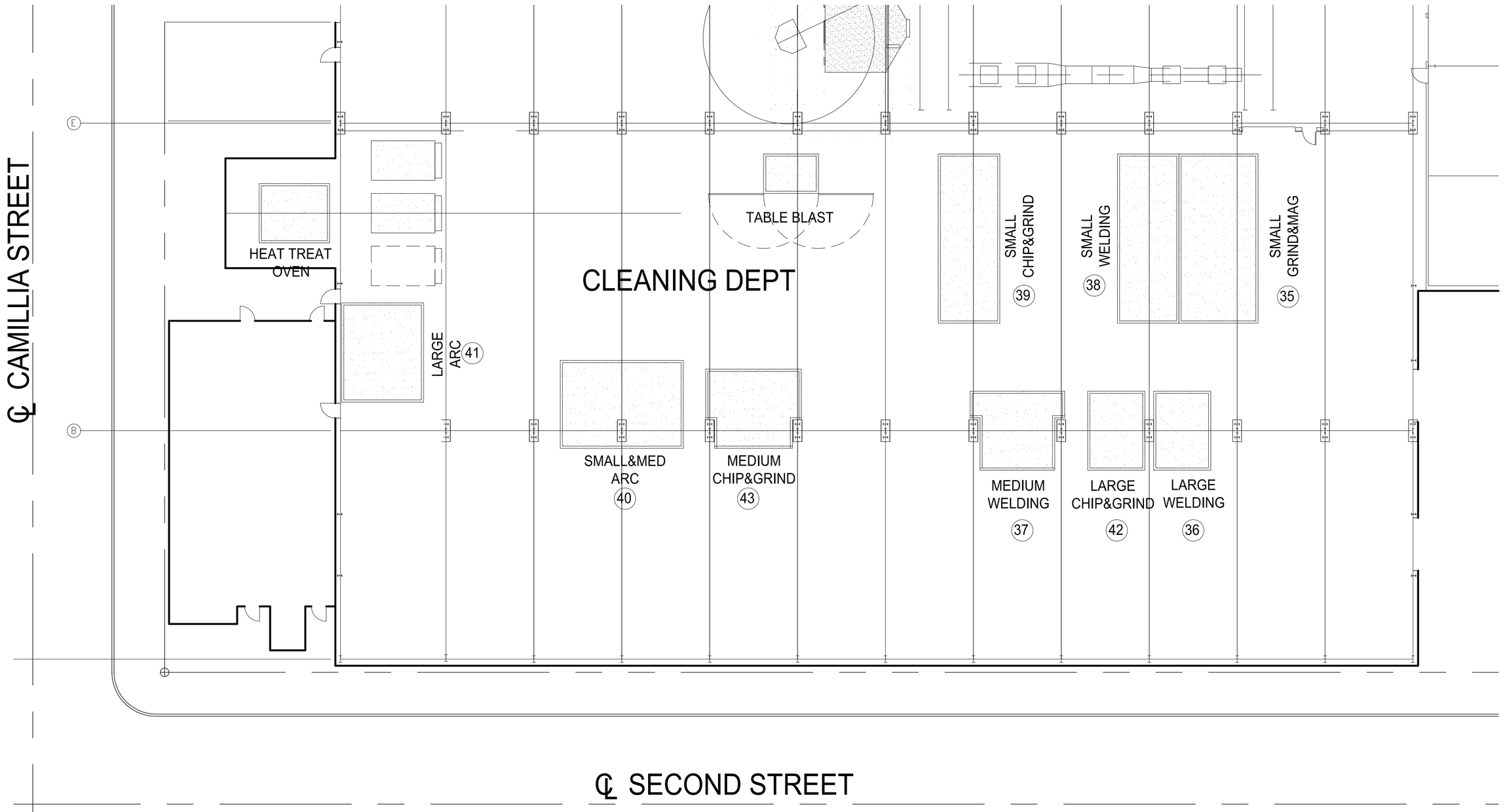
[b]Air flow based on estimates provided in Figure B.2-1, provided by T. Mitchell Engineers.

[c]Weighted control efficiency = (Assumed control efficiency * Air flow)/Total air flow

[d]Assumes air flow rate approximates particulate loading (e.g., lower air flow, less particulate), therefore composite control efficiency is weighted by flow rate.

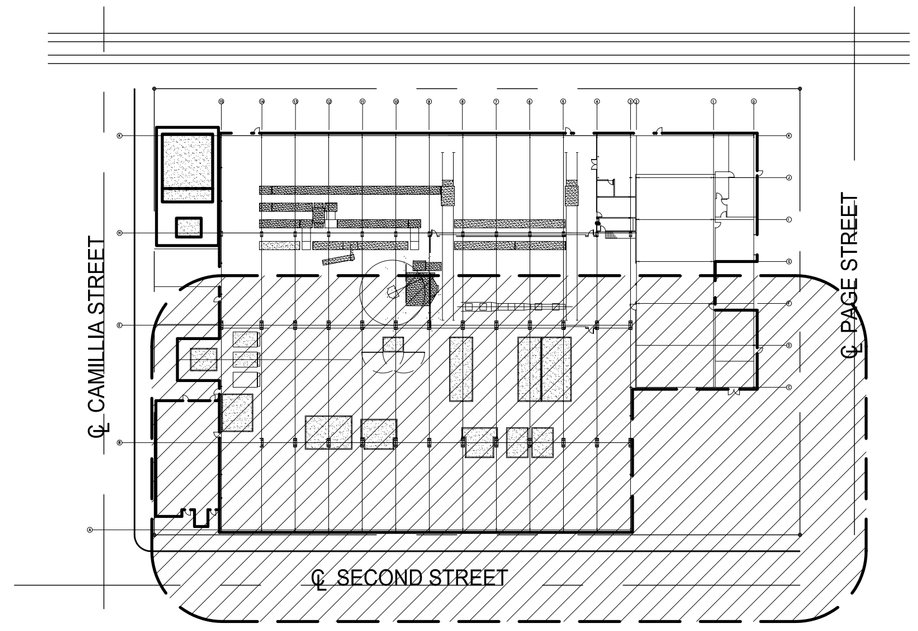
Abbreviations:

cfm - cubic feet per minute



PARTIAL PLAN

SCALE: 1/8"=1'-0"



KEY PLAN

TREATMENT SYSTEMS

ROOM	ROOM	TREATMENT	APPROX AIR FLOW	NOTES
35	SMALL GRIND&MAG	KNOCK OUT BOX	16,000	DUCT VELOCITY 3500FPM / APPROX 200 FPM THRU KNOCK OUT
36	LARGE WELDING	DISCHARGE THRU ROOF	6,500	12X18.5 RECT DUCT THRU ROOF APPROX 5000FPM
37	MEDIUM WELDING	DISCHARGE THRU ROOF	12,300	16.5X18.5 RECT DUCT THRU ROOF APPROX 58000FPM
38	SMALL WELDING	DISCHARGE THRU ROOF	16,000	
39	SMALL CHIP&GRIND	DUST COLLECTOR	16,000	ORIGIONAL KNOCK OUT RETROFIT WITH CARTRIDGE FILTERS
40	SMALL&MED ARC	BAG HOUSE	20,000	TO CLEANING ROOM BAG HOUSE(S)
41	LARGE ARC	BAG HOUSE	30,000	TO CLEANING ROOM BAG HOUSE(S)
42	LARGE CHIP&GRIND	KNOCK OUT BOX	9,600	15X20.5 RECT DUCT THRU ROOF APPROX 4500FPM APPROX 150FPM THRU KNOCK OUT
43	MEDIUM CHIP&GRIND	DISCHARGE THRU ROOF	11,250	21.5X21.5 RECT DUCT THRU ROOF APPROX 3500FPM

NOTE: VALUES GIVEN BASED UPON ORIGIONAL SYSTEM DESIGN DRAWINGS SUPLEMENTED WITH ACTUAL FIELD OBSERVATIONS AND MEASURMENTS WHERE NECESSARY.

REV.	DESCRIPTION	BY	DATE
0	FOR CLIENT REVIEW	TM	

PACIFIC STEEL CASTING CO.
BERKELEY, CALIF.

T. MITCHELL ENGINEERS
OAKLAND CALIFORNIA

SCALE 1/8"=1'-0"	FOR PLANT III CLEANING ROOM
DATE 3/07	
DRWN	
CHECKED	TITLE GENERAL ARRANGEMENT
APPROVED	
JOB 0516.3	DWG. NO. SK-1

APPENDIX B.4

Revised Emissions Estimates for Existing Operations

Table B.4.1: Plant 187 COPC Emissions by Source

Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation								Secondary Emissions Calculation					Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	COPC	CAS Number	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	6.15E-04	ND	Arsenic	7440382	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-27	A5 Baghouse	95%	99.57%	Plant 1 P5	9.25E-06	3.05E-02	Arsenic	7440382						9.25E-06	3.05E-02
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	ND	Beryllium	7440417	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	95%	99.57%	Plant 1 P5	0.00E+00	0.00E+00	Beryllium	7440417						0.00E+00	0.00E+00
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	1.37E-05	Cadmium	7440439	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	95%	99.57%	Plant 1 P5	4.80E-05	1.58E-01	Cadmium	7440439						4.80E-05	1.58E-01
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	3.02E-04	Chromium, Total	7440473	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	95%	99.57%	Plant 1 P5	1.06E-03	3.49E+00	Chromium, Total	7440473						1.06E-03	3.49E+00
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	2.66E-06	Chromium(VI)	18540299	Ratio to Chromium, total based on PSC Source Test[7,8,10,11] Tables 7-27 & 7-28	A5 Baghouse	95%	99.57%	Plant 1 P5	9.29E-06	3.07E-02	Chromium(VI)	18540299						9.29E-06	3.07E-02
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	1.57E-04	Copper	7440508	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	95%	99.57%	Plant 1 P5	5.48E-04	1.81E+00	Copper	7440508						5.48E-04	1.81E+00
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	1.06E-04	Lead	7439921	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	95%	99.57%	Plant 1 P5	3.72E-04	1.23E+00	Lead	7439921						3.72E-04	1.23E+00
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	2.68E-03	Manganese	7439965	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	95%	99.57%	Plant 1 P5	9.39E-03	3.10E+01	Manganese	7439965						9.39E-03	3.10E+01
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	1.86E-05	Mercury	7439976	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	95%	99.57%	Plant 1 P5	6.52E-05	2.15E-01	Mercury	7439976						6.52E-05	2.15E-01
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	9.22E-05	Nickel	7440020	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	95%	99.57%	Plant 1 P5	3.23E-04	1.06E+00	Nickel	7440020						3.23E-04	1.06E+00
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	2.05E-05	Selenium	7782492	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	95%	99.57%	Plant 1 P5	7.17E-05	2.37E-01	Selenium	7782492						7.17E-05	2.37E-01
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	1.38E-02	Zinc	7440666	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	95%	99.57%	Plant 1 P5	4.83E-02	1.59E+02	Zinc	7440666						4.83E-02	1.59E+02
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	3.30E-04	NA	Arsenic	7440382	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Arsenic	7440382	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	6.08E-05	2.01E-01	6.08E-05	2.01E-01
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	ND	NA	Beryllium	7440417	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Beryllium	7440417	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	2.92E-04	NA	Cadmium	7440439	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Cadmium	7440439	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	5.38E-05	1.78E-01	5.38E-05	1.78E-01
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	2.25E-02	NA	Chromium, Total	7440473	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Chromium, Total	7440473	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	4.14E-03	1.37E+01	4.14E-03	1.37E+01
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	1.97E-04	NA	Chromium(VI)	18540299	PSC Source Test for Plant 703 EAF[8,11] Table 7-28	A5 Baghouse	95%	100%				Chromium(VI)	18540299	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	3.63E-05	1.20E-01	3.63E-05	1.20E-01
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	6.24E-03	NA	Copper	7440508	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Copper	7440508	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	1.15E-03	3.79E+00	1.15E-03	3.79E+00
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	7.58E-03	NA	Lead	7439921	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Lead	7439921	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	1.40E-03	4.61E+00	1.40E-03	4.61E+00
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	2.92E-01	NA	Manganese	7439965	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Manganese	7439965	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	5.38E-02	1.78E+02	5.38E-02	1.78E+02
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	1.00E-05	NA	Mercury	7439976	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Mercury	7439976	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	1.84E-06	6.08E-03	1.84E-06	6.08E-03
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	3.34E-03	NA	Nickel	7440020	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Nickel	7440020	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	6.15E-04	2.03E+00	6.15E-04	2.03E+00
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	2.65E-05	NA	Selenium	7782492	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Selenium	7782492	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	4.88E-06	1.61E-02	4.88E-06	1.61E-02
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	1.48E+00	NA	Zinc	7440666	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	95%	100%				Zinc	7440666	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	2.73E-01	9.00E+02	2.73E-01	9.00E+02
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	5.40E-06	NA	Arsenic	7440382	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	2.83E-08	8.42E-05	Arsenic	7440382	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	2.96E-06	8.79E-03	2.99E-06	8.87E-03
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	ND	NA	Beryllium	7440417	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	0.00E+00	0.00E+00	Beryllium	7440417	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	1.84E-05	NA	Cadmium	7440439	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	9.66E-08	2.87E-04	Cadmium	7440439	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	1.01E-05	2.99E-02	1.02E-05	3.02E-02
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	7.70E-05	NA	Chromium, Total	7440473	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	4.04E-07	1.20E-03	Chromium, Total	7440473	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	4.22E-05	1.25E-01	4.26E-05	1.26E-01
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	1.89E-04	NA	Copper	7440508	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	9.92E-07	2.95E-03	Copper	7440508	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	1.04E-04	3.08E-01	1.05E-04	3.10E-01
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	8.58E-05	NA	Lead	7439921	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	4.50E-07	1.34E-03	Lead	7439921	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	4.70E-05	1.40E-01	4.75E-05	1.41E-01
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	1.11E-03	NA	Manganese	7439965	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	5.83E-06	1.73E-02	Manganese	7439965	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	6.08E-04	1.81E+00	6.14E-04	1.82E+00
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	ND	NA	Mercury	7439976	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	0.00E+00	0.00E+00	Mercury	7439976	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	9.67E-05	NA	Nickel	7440020	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	5.08E-07	1.51E-03	Nickel	7440020	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	5.30E-05	1.57E-01	5.35E-05	1.59E-01
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	ND	NA	Selenium	7782492	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	0.00E+00	0.00E+00	Selenium	7782492	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	5.11E-04	NA	Zinc	7440666	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	2.68E-06	7.97E-03	Zinc	7440666	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	2.80E-04	8.31E-01	2.83E-04	8.39E-01
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	ND	NA	Formaldehyde	50000	PSC Source Test,[8] Table 6-3	A8 Baghouse/prefilter/A7 Carbon	86.5%	0%	Plant 1 P7 - Pour	0.00E+00	0.00E+00	Formaldehyde	50000	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	1.16E-02	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 6-3	A8 Baghouse/prefilter/A7 Carbon	86.5%	90.5%	Plant 1 P7 - Pour	3.86E-03	1.15E+01	Acetaldehyde	75070	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	6.35E-03	1.89E+01	1.02E-02	3.03E+01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	2.19E-05	NA	Arsenic	7440382	PSC Source Test,[8] Table 6-6	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	1.64E-07	3.86E-04	Arsenic	7440382	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	5.76E-06	1.36E-02	5.93E-06	1.39E-02
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	5.47E-06	NA	Beryllium	7440417	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	4.10E-08	9.65E-05	Beryllium	7440417	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.44E-06	3.39E-03	1.48E-06	3.48E-03
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	8.91E-06	NA	Cadmium	7440439	PSC Source Test,[8] Table 6-8	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	6.68E-08	1.57E-04	Cadmium	7440439	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	2.34E-06	5.51E-03	2.41E-06	5.67E-03
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	2.80E-04	NA	Chromium, Total	7440473	PSC Source Test,[8] Table 6-9	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	2.10E-06	4.94E-03	Chromium, Total	7440473	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	7.37E-05	1.73E-01	7.58E-05	1.78E-01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	6.51E-04	NA	Copper	7440508	PSC Source Test,[8] Table 6-6	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	4.88E-06	1.15E-02	Copper	7440508	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.71E-04	4.03E-01	1.76E-04	4.14E-01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	1.28E-04	NA	Lead	7439921	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	9.60E-07	2.26E-03	Lead	7439921	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	3.37E-05	7.92E-02	3.46E-05	8.15E-02
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	2.10E-03	NA	Manganese	7439965	PSC Source Test,[8] Table 6-8	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	1.57E-05	3.70E-02	Manganese	7439965	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	5.53E-04	1.30E+00	5.68E-04	1.34E+00
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	ND	NA	Mercury	7439976	PSC Source Test,[8] Table 6-9	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	0.00E+00	0.00E+00	Mercury	7439976	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	2.24E-04	NA	Nickel	7440020	PSC Source Test,[8] Table 6-10	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	1.68E-06	3.95E-03	Nickel	7440020	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	5.89E-05	1.39E-01	6.06E-05	1.43E-01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	9.63E-06	NA	Selenium	7782492	PSC Source Test,[8] Table 6-11	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	7.22E-08	1.70E-04	Selenium	7782492	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	2.53E-06	5.96E-03	2.61E-06	6.13E-03
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	1.02E-03	NA	Zinc	7440666	PSC Source Test,[8] Table 6-12	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	7.65E-06	1.80E-02	Zinc	7440666	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	2.68E-04	6.31E-01	2.76E-04	6.49E-01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	1.73E-03	NA	Formaldehyde	50000	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	95.0%	0%	Plant 1 P7 - Shakeout	8.65E-03	2.03E+01	Formaldehyde	50000	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	4.55E-04	1.07E+00	9.11E-03	2.14E+01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	1.88E-03	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	95.0%	90.5%	Plant 1 P7 - Shakeout	8.93E-04	2.10E+00	Acetaldehyde	75070	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	4.95E-04	1.16E+00	1.39E-03	3.26E+00
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	2.19E-05	NA	Arsenic	7440382	PSC Source Test,[8] Table 6-6	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	1.64E-07	7.72E-04	Arsenic	7440382	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.11E-06	5.20E-03	1.27E-06	5.97E-03
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	5.47E-06	NA	Beryllium	7440417	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	4.10E-08	1.93E-04	Beryllium	7440417	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	2.76E-07	1.30E-03	3.17E-07	1.49E-03
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	8.91E-06	NA	Cadmium	7440439	PSC Source Test,[8] Table 6-8	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	6.68E-08	3.14E-04	Cadmium	7440439	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	4.50E-07	2.12E-03	5.17E-07	2.43E-03
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	2.80E-04	NA	Chromium, Total	7440473	PSC Source Test,[8] Table 6-9	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	2.10E-06	9.88E-03	Chromium, Total	7440473	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.41E-05	6.65E-02	1.62E-05	7.64E-02
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	6.51E-04	NA	Copper	7440508	PSC Source Test,[8] Table 6-6	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	4.88E-06	2.30E-02	Copper	7440508	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	3.29E-05	1.55E-01	3.78E-05	1.78E-01
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	1.28E-04	NA	Lead	7439921	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	9.60E-07	4.51E-03	Lead	7439921	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	6.46E-06	3.04E-02	7.42E-06	3.49E-02
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	2.10E-03	NA	Manganese	7439965	PSC Source Test,[8] Table 6-8	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	1.57E-05	7.41E-02	Manganese	7439965	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.06E-04	4.99E-01	1.22E-04	5.73E-01
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	ND	NA	Mercury	7439976	PSC Source Test,[8] Table 6-9	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	0.00E+00	0.00E+00	Mercury	7439976	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	2.24E-04	NA	Nickel	7440020	PSC Source Test,[8] Table 6-10	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	1.68E-06	7.90E-03	Nickel	7440020	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.13E-05	5.32E-02	1.30E-05	6.11E-02
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	9.63E-06	NA	Selenium	7782492	PSC Source Test,[8] Table 6-11	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	7.22E-08	3.40E-04	Selenium	7782492	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	4.86E-07	2.29E-03	5.59E-07	2.63E-03
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	1.02E-03	NA	Zinc	7440666	PSC Source Test,[8] Table 6-12	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	7.65E-06	3.60E-02	Zinc	7440666	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	5.15E-05	2.42E-01	5.92E-05	2.78E-01
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	1.73E-03	NA	Formaldehyde	50000	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	99.0%	0%	Plant 1 P7 - Shakeout	8.65E-03	4.07E+01	Formaldehyde	50000	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	8.74E-05	4.11E-01	8.74E-03	4.11E+01
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	1.88E-03	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	99.0%	90.5%	Plant 1 P7 - Shakeout	8.93E-04	4.20E+00	Acetaldehyde	75070	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	9.49E-05	4.47E-01	9.88E-04	4.65E+00
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	8.25E-06	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	6.38E-08	2.54E-04	Arsenic	7440382	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.65E-06	6.55E-03	1.71E-06	6.81E-03
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Beryllium	7440417	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	3.77E-06	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	2.92E-08	1.16E-04	Cadmium	7440439	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	7.54E-07	2.99E-03	7.83E-07	3.11E-03
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	3.27E-05	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	2.53E-07	1.01E-03	Chromium, Total	7440473	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	6.55E-06	2.60E-02	6.80E-06	2.70E-02
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	9.15E-05	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	7.08E-07	2.81E-03	Copper	7440508	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.83E-05	7.27E-02	1.90E-05	7.55E-02
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	7.91E-04	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	6.13E-06	2.43E-02	Lead	7439921	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.58E-04	6.29E-01	1.64E-04	6.53E-01
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	1.08E-03	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	8.33E-06	3.31E-02	Manganese	7439965	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	2.15E-04	8.55E-01	2.23E-04	8.88E-01
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	7.80E-06	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	6.04E-08	2.40E-04	Mercury	7439976	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.56E-06	6.20E-03	1.62E-06	6.44E-03
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Nickel	7440020	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Selenium	7782492	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	5.46E-04	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	4.23E-06	1.68E-02	Zinc	7440666	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.09E-04	4.34E-01	1.13E-04	4.51E-01
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	4.85E-09	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	1.88E-11	7.46E-08	Arsenic	7440382	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.85E-10	1.93E-06	5.04E-10	2.00E-06
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Beryllium	7440417	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	2.22E-09	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	8.58E-12	3.41E-08	Cadmium	7440439	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	2.22E-10	8.81E-07	2.30E-10	9.15E-07
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	1.93E-08	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	7.45E-11	2.96E-07	Chromium, Total	7440473	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.93E-09	7.65E-06	2.00E-09	7.95E-06
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	1.69E-10	NA	NA	Chromium(VI)	18540299	Ratio to Chromium, total based on PSC Source Test,[7,8] Tables 7-27 and 7-28	A4 Baghouse	90%	99.57%	Plant 1 P4	6.56E-13	2.61E-09	Chromium(VI)	18540299	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.69E-11	6.73E-08	1.76E-11	7.00E-08
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	5.38E-08	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	2.08E-10	8.27E-07	Copper	7440508	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	5.38E-09	2.14E-05	5.59E-09	2.22E-05
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	4.66E-07	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	1.80E-09	7.16E-06	Lead	7439921	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.66E-08	1.85E-04	4.84E-08	1.92E-04
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	6.33E-07	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	2.45E-09	9.73E-06	Manganese	7439965	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	6.33E-08	2.51E-04	6.57E-08	2.61E-04
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	4.59E-09	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	1.78E-11	7.06E-08	Mercury	7439976	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.59E-10	1.82E-06	4.77E-10	1.89E-06
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Nickel	7440020	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Selenium	7782492	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	3.21E-07	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	1.24E-09	4.94E-06	Zinc	7440666	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	3.21E-08	1.28E-04	3.34E-08	1.33E-04
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	4.85E-09	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	1.88E-11	7.46E-08	Arsenic	7440382	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.85E-10	1.93E-06	5.04E-10	2.00E-06
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	0.00E+00	0.00E+00	Beryllium	7440417	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	2.22E-09	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	8.58E-12	3.41E-08	Cadmium	7440439	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	2.22E-10	8.81E-07	2.30E-10	9.15E-07
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	1.93E-08	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	7.45E-11	2.96E-07	Chromium, Total	7440473	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.93E-09	7.65E-06	2.00E-09	7.95E-06
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	1.69E-10	NA	NA	Chromium(VI)	18540299	Ratio to Chromium, total based on PSC Source Test,[7,8] Tables 7-27 and 7-28	A6 Baghouse	90%	99.57%	Plant 1 P6	6.56E-13	2.61E-09	Chromium(VI)	18540299	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.69E-11	6.73E-08	1.76E-11	7.00E-08
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	5.38E-08	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	2.08E-10	8.27E-07	Copper	7440508	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	5.38E-09	2.14E-05	5.59E-09	2.22E-05
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	4.66E-07	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	1.80E-09	7.16E-06	Lead	7439921	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.66E-08	1.85E-04	4.84E-08	1.92E-04
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	6.33E-07	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	2.45E-09	9.73E-06	Manganese	7439965	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	6.33E-08	2.51E-04	6.57E-08	2.61E-04
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	4.59E-09	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	1.78E-11	7.06E-08	Mercury	7439976	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.59E-10	1.82E-06	4.77E-10	1.89E-06
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	0.00E+00	0.00E+00	Nickel	7440020	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	0.00E+00	0.00E+00	Selenium	7782492	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	3.21E-07	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	1.24E-09	4.94E-06	Zinc	7440666	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	3.21E-08	1.28E-04	3.34E-08	1.33E-04

Table B.4.1: Plant 187 COPC Emissions by Source
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Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation								Secondary Emissions Calculation					Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	COPC	CAS Number	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	1.92E-07	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	8.26E-09	2.86E-06	Arsenic	7440382				0.00E+00	0.00E+00	8.26E-09	2.86E-06
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	0.00E+00	0.00E+00	Beryllium	7440417				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	8.77E-08	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	3.77E-09	1.31E-06	Cadmium	7440439				0.00E+00	0.00E+00	3.77E-09	1.31E-06
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	7.62E-07	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	3.28E-08	1.14E-05	Chromium, Total	7440473				0.00E+00	0.00E+00	3.28E-08	1.14E-05
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	2.13E-06	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	9.16E-08	3.17E-05	Copper	7440508				0.00E+00	0.00E+00	9.16E-08	3.17E-05
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	1.84E-05	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	7.93E-07	2.75E-04	Lead	7439921				0.00E+00	0.00E+00	7.93E-07	2.75E-04
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	2.51E-05	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	1.08E-06	3.73E-04	Manganese	7439965				0.00E+00	0.00E+00	1.08E-06	3.73E-04
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	1.82E-07	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	7.81E-09	2.71E-06	Mercury	7439976				0.00E+00	0.00E+00	7.81E-09	2.71E-06
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	0.00E+00	0.00E+00	Nickel	7440020				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	0.00E+00	0.00E+00	Selenium	7782492				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	1.27E-05	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	5.47E-07	1.89E-04	Zinc	7440666				0.00E+00	0.00E+00	5.47E-07	1.89E-04
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	1.92E-07	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.54E-08	1.33E-05	Arsenic	7440382				0.00E+00	0.00E+00	1.54E-08	1.33E-05
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Beryllium	7440417				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	8.77E-08	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	7.02E-09	6.08E-06	Cadmium	7440439				0.00E+00	0.00E+00	7.02E-09	6.08E-06
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	7.62E-07	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	6.10E-08	5.28E-05	Chromium, Total	7440473				0.00E+00	0.00E+00	6.10E-08	5.28E-05
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	2.13E-06	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.70E-07	1.48E-04	Copper	7440508				0.00E+00	0.00E+00	1.70E-07	1.48E-04
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	1.84E-05	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.47E-06	1.28E-03	Lead	7439921				0.00E+00	0.00E+00	1.47E-06	1.28E-03
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	2.51E-05	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	2.00E-06	1.74E-03	Manganese	7439965				0.00E+00	0.00E+00	2.00E-06	1.74E-03
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	1.82E-07	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.45E-08	1.26E-05	Mercury	7439976				0.00E+00	0.00E+00	1.45E-08	1.26E-05
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Nickel	7440020				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Selenium	7782492				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	1.27E-05	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.02E-06	8.81E-04	Zinc	7440666				0.00E+00	0.00E+00	1.02E-06	8.81E-04
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	1.92E-07	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.92E-08	1.33E-05	Arsenic	7440382				0.00E+00	0.00E+00	1.92E-08	1.33E-05
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Beryllium	7440417				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	8.77E-08	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	8.77E-09	6.08E-06	Cadmium	7440439				0.00E+00	0.00E+00	8.77E-09	6.08E-06
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	7.62E-07	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	7.62E-08	5.28E-05	Chromium, Total	7440473				0.00E+00	0.00E+00	7.62E-08	5.28E-05
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	2.13E-06	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	2.13E-07	1.48E-04	Copper	7440508				0.00E+00	0.00E+00	2.13E-07	1.48E-04
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	1.84E-05	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.84E-06	1.28E-03	Lead	7439921				0.00E+00	0.00E+00	1.84E-06	1.28E-03
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	2.51E-05	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	2.51E-06	1.74E-03	Manganese	7439965				0.00E+00	0.00E+00	2.51E-06	1.74E-03
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	1.82E-07	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.82E-08	1.26E-05	Mercury	7439976				0.00E+00	0.00E+00	1.82E-08	1.26E-05
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Nickel	7440020				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Selenium	7782492				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	1.27E-05	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.27E-06	8.81E-04	Zinc	7440666				0.00E+00	0.00E+00	1.27E-06	8.81E-04
S18	Plant 1 S18	Heat treating furnaces	64	283,970	therm	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	1.34E-05	5.96E-02	Benzene	71432				0.00E+00	0.00E+00	1.34E-05	5.96E-02
S18	Plant 1 S18	Heat treating furnaces	64	283,970	therm	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	4.80E-04	2.13E+00	Formaldehyde	50000				0.00E+00	0.00E+00	4.80E-04	2.13E+00
S18	Plant 1 S18	Heat treating furnaces	64	283,970	therm	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	2.18E-05	9.65E-02	Toluene	108883				0.00E+00	0.00E+00	2.18E-05	9.65E-02
S22	Plant 1 S22	Core Bake Oven	16	20,000	therm	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	3.36E-06	4.20E-03	Benzene	71432				0.00E+00	0.00E+00	3.36E-06	4.20E-03
S22	Plant 1 S22	Core Bake Oven	16	20,000	therm	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	1.20E-04	1.50E-01	Formaldehyde	50000				0.00E+00	0.00E+00	1.20E-04	1.50E-01
S22	Plant 1 S22	Core Bake Oven	16	20,000	therm	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	5.44E-06	6.80E-03	Toluene	108883				0.00E+00	0.00E+00	5.44E-06	6.80E-03
32001	Plant 1 3200	Small ladle heater	3.39	6,780	therm	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	7.12E-07	1.42E-03	Benzene	71432				0.00E+00	0.00E+00	7.12E-07	1.42E-03
32001	Plant 1 3200	Small ladle heater	3.39	6,780	therm	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	2.54E-05	5.09E-02	Formaldehyde	50000				0.00E+00	0.00E+00	2.54E-05	5.09E-02
32001	Plant 1 3200	Small ladle heater	3.39	6,780	therm	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	1.15E-06	2.31E-03	Toluene	108883				0.00E+00	0.00E+00	1.15E-06	2.31E-03

Table B.4.1: Plant 187 COPC Emissions by Source

Pacific Steel Casting Company
Berkeley, California

NOTES:

(1) Throughput information:
Maximum hourly throughput based on limits set forth in BAAQMD permit to operate except for S32001. S32001 based on annual throughput divided by 2000 hours of operation.
Annual throughput based on "Plant #187 Permit Update" submitted to BAAQMD by PSC on September 12, 2006, reports throughput from August 1, 2005 to July 31, 2006. S3 and S4 are based on previous year's values as quantities not requested by BAAQMD in 2006.

(2) ND = COPC was not detected in all test runs. NA = not applicable

(3) Capture efficiency represents the percentage of emissions routed to primary capture device or area. Values based on analysis by T. Mitchell Engineers & Associates dated August 30, 2006 (included as Appendix A of the February 15, 2007 EIR) with certain modifications based on discussions with the BAAQMD or as mandated by the BAAQMD in the comments (included as Appendix F of the February 15, 2007 EIR) on the November 16, 2006 EIR.
For S2 (Casting, Pour-off Area), the capture efficiency was assumed a composite of the capture efficiencies estimated for the "A" side and "B" side pour areas, scaled by the relative sand throughput of the "A" side and "B' side shakeout areas.
S4 ("A" Shake out) is in an enclosed room with all ventilation routed to A1 baghouse/prefilter/A7 carbon.

(4) Control efficiency represents percent of mass emissions reduced by abatement device.
Baghouses:
Control efficiency for baghouses based on Plant 703 EAF baghouse inlet and outlet source test for particulate matter (PSC Source Test (8), Tables 7-26 and 7-29. As mandated by the BAAQMD, particulate control calculated as 99.57% for particulate-bound COPCs.
Activated Carbon Adsorbers:
Control efficiency for adsorbers assumed to be 90.5% for VOCs, based on data collected at the Plant 1603 carbon unit.
90.5% control efficiency used unless data from manufacturer suggest high frequency breakthrough. For example, 0% control used for formaldehyde.
Carbon adsorbers have particulate prefilters to prevent fouling of activated carbon, the prefilter has a control efficiency of 65% for particulates larger than 1 micron. The carbon adsorption unit will likely remove additional particulate, however, for this analysis it is conservatively assumed that no additional particulate removal will occur in the carbon unit.

(5) Derivation of speciated metals emissions for finishing processes:
Speciated metal emission factors (lb metal/tons steel) are estimated by multiplying the weight fraction of metals COPCs (metal/PM10) found in the testing for the finishing operations of P703, S33-S40 to arc-air booth PM10 emission factors (lb PM10/tons steel).
Speciated metal emission factors (lb metal/tons steel) are derived using following PM10 emission factors.

1.7	PM10 Emission factor (lb PM10/ton steel) for Casting Cleaning, AP-42, Chapter 12.13 Steel Foundries, January 1995, Table 12.13-2. Used to convert S33-S40 source test results into Metal/PM10 weight fraction [metal/PM10=unabated emission factor for S33-S40 (lb metal/tons steel) / PM10 emission factor (lb PM10/ton steel)]. Assume weight fractions between Plant 703 S33-S40 and Plant 187 are similar.
0.001	PM10 Emissions (lb/ton) from BAAQMD's PSC inventory data bank for Arc Air Booth. Used to convert metal weight fractions (metal/PM10) to uncontrolled metal emission factors (lb metal/tons steel).
0.040	PM10 Emission factor (lb PM10/ton steel) for Abrasive Blasting with steel shots. Based on AP-42, Table 13.2.6-1, emission factor=(1.3 lb PM10/1000 lb steel shots) x (2000 lb/ 1 ton) x(121 tons steel shots/7947 tons steel casting). Steel shots and steel casting quantities based on Plant 187 throughput from August 1, 2004 through July 31, 2005. Casting quantity based on 90% of EAF, assumes 10% lost to slag. Per AP-42 Chapter 13.2.6, assume PM10 from using shots equals 10% of using sand for abrasive blasting.

COPC	Speciation profile (lb metal/lb PM10) From S33-40 Source Test	Uncontrolled Emission Factor for arc air booth (lb metal/ton steel)	Uncontrolled Emission Factor for pangborn table and rotoblasts (lb metal/ton steel)
Arsenic	4.85E-06	4.85E-09	1.92E-07
Beryllium	ND	ND	ND
Cadmium	2.22E-06	2.22E-09	8.77E-08
Chromium, Total	1.93E-05	1.93E-08	7.62E-07
Copper	5.38E-05	5.38E-08	2.13E-06
Lead	4.66E-04	4.66E-07	1.84E-05
Manganese	6.33E-04	6.33E-07	2.51E-05
Mercury	4.59E-06	4.59E-09	1.82E-07
Nickel	ND	ND	ND
Selenium	ND	ND	ND
Zinc	3.21E-04	3.21E-07	1.27E-05

(6) Natural gas combustion emissions factors from AP-42, Chapter 1.4 Natural Gas Combustion, Table 1.4-3 "Emission Factors for Speciated Organic Compounds from Natural Gas Combustion." Upon BAAQMD request, emissions for benzene, toluene and formaldehyde were calculated.
Assumes 1 therm = 100 scf for natural gas

(7) As emissions of chromium (VI) were only measured in the Plant 703 EAF (Source 27), a separate analysis was conducted by GT Engineering (included as Appendix B of the February 15, 2007 EIR) to determine the potential for other sources of chromium (VI) in other operations at the facility. Based on that analysis, emissions of chromium (VI) are estimated for areas where molten steel is produced (i.e., in the EAF and welding operations). As mandated by the BAAQMD, the chromium (VI) emission factor is based on Plant 703 EAF source test data (inlet) using the chromium (VI) to chromium (total) ratio listed below (Note: this is an extremely conservative assumption for arc air welding processes as only portions of the cast are welded):

0.88% chromium (VI)/chomium (total)

(8) BAAQMD Comments (dated October 18, 2006) on "Source Test Report 2005-2006 Emissions Source Tests Toxic Air Contaminants, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC dated August 30, 2006

(9) The following permitted sources were not considered as potentially emitting COPCs.

Source	
S5	Sand system (dust collection)
S6	Sand cooler 6 screen
S7	Sand screen
S8	Muller
S10	Muller, core sand
S11	Muller
S19	Raw sand receiving

(10) As requested by the BAAQMD, emissions from the Plant 187 EAF (Source 1) are based on source test of Plant 703 EAF (Source 27), scaled by a ratio of the filterable particulate matter measured at Plant 187 EAF (Source 1) to that measured at Plant 703 EAF (Source 27)

0.095	Filterable particulate matter emission factor (lb/ton steel) at Plant 187 EAF (Source 1) baghouse outlet, Table 6-9(8)
0.051	Filterable particulate matter emission factor (lb/ton steel) at Plant 703 EAF (Source 27) baghouse outlet, Table 7-29(8)
1.9	Ratio

As discussed for the Plant 703 EAF (Source 27), since arsenic was ND at the outlet of the baghouse but detected at the inlet of the baghouse, then the inlet value was used and the appropriate baghouse control efficiency applied, as madated by the BAAQMD.

(11) As mandated by the BAAQMD, fugitive emissions for the EAFs from all three plants were calculated based on the emission factors measured at the Plant 703 EAF (Source 27) baghouse inlet. To implement this methodology, the emission estimates for EAFs were split into two categories - primary and fugitive (denoted by the source number modified with"-fug", e.g., S1-fug). To ensure emission estimates were not double-counted, secondary emission were not calucated for the primary emissions and primary emissions were not caluclated for the fugitive emissions.

Table B.4.2: Plant 703 COPC Emissions by Source
Page 1 of 4
Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation						Secondary Emissions Calculation							Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	COPC	CAS Number	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S6	Plant 2 S6	Sand heater	6	7,795	therms	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[12]	A4 Baghouse	100%	0%	Plant 2 P4	1.26E-06	1.64E-03	Benzene	71432						1.26E-06	1.64E-03
S6	Plant 2 S6	Sand heater	6	7,795	therms	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[12]	A4 Baghouse	100%	0%	Plant 2 P4	4.50E-05	5.85E-02	Formaldehyde	50000						4.50E-05	5.85E-02
S6	Plant 2 S6	Sand heater	6	7,795	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	A4 Baghouse	100%	0%	Plant 2 P4	2.04E-06	2.65E-03	Toluene	108883						2.04E-06	2.65E-03
	Plant 2																									
S7	Plant 2 S7	Sand coating	3.5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	7.00E-02	8.12E+01	Phenol	108952						7.00E-02	8.12E+01
S7	Plant 2 S7	Sand coating	3.5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	1.75E-02	2.03E+01	Formaldehyde	50000						1.75E-02	2.03E+01
S7	Plant 2 S7	Sand coating	3.5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	5.60E-02	6.50E+01	Isopropanol	67630						5.60E-02	6.50E+01
	Plant 2																									
S8	Plant 2 S8	Coated sand pug mill	5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	1.00E-01	8.12E+01	Phenol	108952						1.00E-01	8.12E+01
S8	Plant 2 S8	Coated sand pug mill	5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	2.50E-02	2.03E+01	Formaldehyde	50000						2.50E-02	2.03E+01
S8	Plant 2 S8	Coated sand pug mill	5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	8.00E-02	6.50E+01	Isopropanol	67630						8.00E-02	6.50E+01
	Plant 2																									
S9	Plant 2 S9	Coated sand vibrating screen	5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	1.00E-01	8.12E+01	Phenol	108952						1.00E-01	8.12E+01
S9	Plant 2 S9	Coated sand vibrating screen	5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	2.50E-02	2.03E+01	Formaldehyde	50000						2.50E-02	2.03E+01
S9	Plant 2 S9	Coated sand vibrating screen	5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	8.00E-02	6.50E+01	Isopropanol	67630						8.00E-02	6.50E+01
	Plant 2																									
S10	Plant 2 S10	Bucket elevator	5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	1.00E-01	8.12E+01	Phenol	108952						1.00E-01	8.12E+01
S10	Plant 2 S10	Bucket elevator	5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	2.50E-02	2.03E+01	Formaldehyde	50000						2.50E-02	2.03E+01
S10	Plant 2 S10	Bucket elevator	5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	8.00E-02	6.50E+01	Isopropanol	67630						8.00E-02	6.50E+01
	Plant 2																									
S11	Plant 2 S11	Cooling tower, coated sand	5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	1.00E-01	8.12E+01	Phenol	108952						1.00E-01	8.12E+01
S11	Plant 2 S11	Cooling tower, coated sand	5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	2.50E-02	2.03E+01	Formaldehyde	50000						2.50E-02	2.03E+01
S11	Plant 2 S11	Cooling tower, coated sand	5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	8.00E-02	6.50E+01	Isopropanol	67630						8.00E-02	6.50E+01
	Plant 2																									
S12	Plant 2 S12	Bucket elevator	5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	1.00E-01	8.12E+01	Phenol	108952						1.00E-01	8.12E+01
S12	Plant 2 S12	Bucket elevator	5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	2.50E-02	2.03E+01	Formaldehyde	50000						2.50E-02	2.03E+01
S12	Plant 2 S12	Bucket elevator	5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	8.00E-02	6.50E+01	Isopropanol	67630						8.00E-02	6.50E+01
	Plant 2																									
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	4.23E-03	Benzene	71432						7.05E-05	4.23E-03
S13	Plant 2 S13	Core molding machine	1.1	1,985	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	3.74E-07	6.75E-04	Toluene	108883						3.74E-07	6.75E-04
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	2.40E-01	Formaldehyde	50000						4.00E-03	2.40E-01
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	3.51E-02	Acetaldehyde	75070						5.85E-04	3.51E-02
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	1.01E+00	Phenol	108952						1.68E-02	1.01E+00
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	8.06E-01	Isopropanol	67630						1.34E-02	8.06E-01
	Plant 2																									
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	3.95E-03	Benzene	71432						7.05E-05	3.95E-03
S14	Plant 2 S14	Core molding machine	1.1	1,805	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	3.74E-07	6.14E-04	Toluene	108883						3.74E-07	6.14E-04
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	2.24E-01	Formaldehyde	50000						4.00E-03	2.24E-01
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	3.28E-02	Acetaldehyde	75070						5.85E-04	3.28E-02
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	9.41E-01	Phenol	108952						1.68E-02	9.41E-01
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	7.53E-01	Isopropanol	67630						1.34E-02	7.53E-01
	Plant 2																									
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	1.30E-02	Benzene	71432						7.05E-05	1.30E-02
S15	Plant 2 S15	Core molding machine	1.972	5,978	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	6.70E-07	2.03E-03	Toluene	108883						6.70E-07	2.03E-03
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	7.36E-01	Formaldehyde	50000						4.00E-03	7.36E-01
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	1.08E-01	Acetaldehyde	75070						5.85E-04	1.08E-01
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	3.09E+00	Phenol	108952						1.68E-02	3.09E+00
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	2.47E+00	Isopropanol	67630						1.34E-02	2.47E+00
	Plant 2																									
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	1.30E-02	Benzene	71432						7.05E-05	1.30E-02
S16	Plant 2 S16	Core molding machine	1.972	5,978	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	6.70E-07	2.03E-03	Toluene	108883						6.70E-07	2.03E-03
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	7.36E-01	Formaldehyde	50000						4.00E-03	7.36E-01
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	1.08E-01	Acetaldehyde	75070						5.85E-04	1.08E-01
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	3.09E+00	Phenol	108952						1.68E-02	3.09E+00
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	2.47E+00	Isopropanol	67630						1.34E-02	2.47E+00
	Plant 2																									
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	1.30E-02	Benzene	71432						7.05E-05	1.30E-02
S17	Plant 2 S17	Core molding machine	1.972	5,978	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	6.70E-07	2.03E-03	Toluene	108883						6.70E-07	2.03E-03
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	7.36E-01	Formaldehyde	50000						4.00E-03	7.36E-01
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	1.08E-01	Acetaldehyde	75070						5.85E-04	1.08E-01
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	3.09E+00	Phenol	108952						1.68E-02	3.09E+00
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	2.47E+00	Isopropanol	67630						1.34E-02	2.47E+00
	Plant 2																									
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	1.30E-02	Benzene	71432						7.05E-05	1.30E-02
S18	Plant 2 S18	Core molding machine	1.972	5,978	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	6.70E-07	2.03E-03	Toluene	108883						6.70E-07	2.03E-03
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	7.36E-01	Formaldehyde	50000						4.00E-03	7.36E-01
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	1.08E-01	Acetaldehyde	75070						5.85E-04	1.08E-01
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	3.09E+00	Phenol	108952						1.68E-02	3.09E+00
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	2.47E+00	Isopropanol	67630						1.34E-02	2.47E+00
	Plant 2																									
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.41E-04	1.04E-01	Benzene	71432						1.41E-04	1.04E-01
S20	Plant 2 S20	Shell molding machine, single	6.5	15,483	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	2.21E-06	5.26E-03	Toluene	108883						2.21E-06	5.26E-03
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	8.00E-03	5.89E+00	Formaldehyde	50000						8.00E-03	5.89E+00
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.17E-03	8.61E-01	Acetaldehyde	75070						1.17E-03	8.61E-01
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	3.36E-02	2.47E+01	Phenol	108952						3.36E-02	2.47E+01
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	2.69E-02	1.98E+01	Isopropanol	67630						2.69E-02	1.98E+01
	Plant 2																									
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	1.41E-04	ND	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	2.12E-04	3.29E-01	Benzene	71432						2.12E-04	3.29E-01
S21	Plant 2 S21	Shell molding machine, twin	10.97	49,043	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	3.73E-06	1.67E-02	Toluene	108883						3.73E-06	1.67E-02
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	8.00E-03	8.00E-03	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.20E-02	1.87E+01	Formaldehyde	50000						1.20E-02	1.87E+01
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	1.17E-03	ND	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.76E-03	2.73E+00	Acetaldehyde	75070						1.76E-03	2.73E+00
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	3.36E-02	3.36E-02	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.04E-02	7.84E+01	Phenol	108952						5.04E-02	7.84E+01
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	ND	ND	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	ND	ND	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	2.69E-02	ND	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.03E-02	6.27E+01	Isopropanol	67630						4.03E-02	6.27E+01
	Plant 2																									
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	1.81E-05	2.81E-02	Benzene	71432	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	2.12E-05	3.29E-02	3.92E-05	6.10E-02
S22	Plant 2 S22	Shell molding machine, twin	10.97	49,093	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	3.19E-07	1.43E-03	Toluene	108883	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	3.73E-07	1.67E-03	6.92E-07	3.10E-03
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	A7 Carbon	90.0%	0%	Plant 2 P1 - Molding	1.08E-02	1.68E+01	Formaldehyde	50000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	1.20E-03	1.87E+00	1.20E-02	1.87E+01
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	1.50E-04	2.33E-01	Acetaldehyde	75070	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	1.76E-04	2.73E-01	3.26E-04	5.06E-01
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	4.31E-03	6.70E+00	Phenol	108952	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	5.04E-03	7.84E+00	9.35E-03	1.45E+01
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	0.00E+00	0.00E+00	m,p-Cresol	108394	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	0.00E+00	0.00E+00	o-Cresol	95487	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	3.45E-03	5.36E+00	Isopropanol	67630	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	4.03E-03	6.27E+00	7.48E-03	1.16E+01
	Plant 2																									
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	1.81E-05	2.81E-02	Benzene	71432	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	2.12E-05	3.29E-02	3.92E-05	6.10E-02
S23	Plant 2 S23	Shell molding machine, twin	10.97	49,093	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	3.19E-07	1.43E-03	Toluene	108883	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	3.73E-07	1.67E-03	6.92E-07	3.10E-03
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	A7 Carbon	90.0%	0%	Plant 2 P1 - Molding	1.08E-02	1.68E+01	Formaldehyde	50000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	1.20E-03	1.87E+00	1.20E-02	1.87E+01
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	1.50E-04	2.33E-01	Acetaldehyde	75070	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	1.76E-04	2.73E-01	3.26E-04	5.06E-01
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	4.31E-03	6.70E+00	Phenol	108952	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	5.04E-03	7.84E+00	9.35E-03	1.45E+01
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	0.00E+00	0.00E+00	m,p-Cresol	108394	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	0.00E+00	0.00E+00	o-Cresol	95487	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	3.45E-03	5.36E+00	Isopropanol	67630	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	4.03E-03	6.27E+00	7.48E-03	1.16E+01
	Plant 2																									
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	1.41E-04	1.04E-01	Benzene	71432						1.41E-04	1.04E-01
S24	Plant 2 S24	Shell molding machine, twin	6.5	15,483	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	2.21E-06	5.26E-03	Toluene	108883						2.21E-06	5.26E-03
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	8.00E-03	5.89E+00	Formaldehyde	50000						8.00E-03	5.89E+00
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	1.17E-03	8.61E-01	Acetaldehyde	75070						1.17E-03	8.61E-01
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	3.36E-02	2.47E+01	Phenol	108952						3.36E-02	2.47E+01
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	2.69E-02	1.98E+01	Isopropanol	67630						2.69E-02	1.98E+01
	Plant 2																									
S26	Plant 2 S26	Large Ladle Heater	12	1,542	therms	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[12]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	90.5%	Plant 2 P1 - EAF	2.39E-07	3.08E-05	Benzene	71432						2.39E-07	3.08E-05

Table B.4.2: Plant 703 COPC Emissions by Source

Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation						Secondary Emissions Calculation							Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	COPC	CAS Number	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S26	Plant 2 S26	Large Ladle Heater	12	1,542	therms	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[12]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	0.0%	Plant 2 P1 - EAF	9.00E-05	1.16E-02	Formaldehyde	50000						9.00E-05	1.16E-02
S26	Plant 2 S26	Large Ladle Heater	12	1,542	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	90.5%	Plant 2 P1 - EAF	3.88E-07	4.98E-05	Toluene	108883						3.88E-07	4.98E-05
	Plant 2																									
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	3.30E-04	ND	Arsenic	7440382	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	99.57%	Plant 2 P3	5.39E-06	2.65E-02	Arsenic	7440382						5.39E-06	2.65E-02
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	ND	Beryllium	7440417	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	0.00E+00	0.00E+00	Beryllium	7440417						0.00E+00	0.00E+00
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	7.36E-06	Cadmium	7440439	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	2.80E-05	1.37E-01	Cadmium	7440439						2.80E-05	1.37E-01
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	1.62E-04	Chromium, Total	7440473	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	6.16E-04	3.02E+00	Chromium, Total	7440473						6.16E-04	3.02E+00
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	1.43E-06	Chromium(VI)	18540299	Chromium,total based on PSC Source Test[8,9,13] Tables	A3 Baghouse	99%	99.57%	Plant 2 P3	5.42E-06	2.66E-02	Chromium(VI)	18540299						5.42E-06	2.66E-02
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	8.41E-05	Copper	7440508	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	3.20E-04	1.57E+00	Copper	7440508						3.20E-04	1.57E+00
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	5.70E-05	Lead	7439921	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	2.17E-04	1.06E+00	Lead	7439921						2.17E-04	1.06E+00
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	1.44E-03	Manganese	7439965	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	5.47E-03	2.69E+01	Manganese	7439965						5.47E-03	2.69E+01
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	1.00E-05	Mercury	7439976	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	3.80E-05	1.87E-01	Mercury	7439976						3.80E-05	1.87E-01
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	4.95E-05	Nickel	7440020	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	1.88E-04	9.24E-01	Nickel	7440020						1.88E-04	9.24E-01
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	1.10E-05	Selenium	7782492	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	4.18E-05	2.05E-01	Selenium	7782492						4.18E-05	2.05E-01
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	7.41E-03	Zinc	7440666	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	2.82E-02	1.38E+02	Zinc	7440666						2.82E-02	1.38E+02
	Plant 2																									
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	3.30E-04	NA	Arsenic	7440382	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Arsenic	7440382	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.27E-05	6.22E-02	1.27E-05	6.22E-02
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	ND	NA	Beryllium	7440417	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Beryllium	7440417	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	2.92E-04	NA	Cadmium	7440439	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Cadmium	7440439	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.12E-05	5.51E-02	1.12E-05	5.51E-02
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	2.25E-02	NA	Chromium, Total	7440473	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Chromium, Total	7440473	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.64E-04	4.24E+00	8.64E-04	4.24E+00
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	1.97E-04	NA	Chromium(VI)	18540299	PSC Source Test[8,9] Table 7-28	A3 Baghouse	99%	100%				Chromium(VI)	18540299	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.56E-06	3.72E-02	7.56E-06	3.72E-02
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	6.24E-03	NA	Copper	7440508	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Copper	7440508	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.40E-04	1.18E+00	2.40E-04	1.18E+00
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	7.58E-03	NA	Lead	7439921	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Lead	7439921	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.91E-04	1.43E+00	2.91E-04	1.43E+00
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	2.92E-01	NA	Manganese	7439965	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Manganese	7439965	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.12E-02	5.51E+01	1.12E-02	5.51E+01
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	1.00E-05	NA	Mercury	7439976	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Mercury	7439976	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.84E-07	1.89E-03	3.84E-07	1.89E-03
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	3.34E-03	NA	Nickel	7440020	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Nickel	7440020	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.28E-04	6.30E-01	1.28E-04	6.30E-01
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	2.65E-05	NA	Selenium	7782492	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Selenium	7782492	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.02E-06	5.00E-03	1.02E-06	5.00E-03
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	1.48E+00	NA	Zinc	7440666	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Zinc	7440666	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	5.68E-02	2.79E+02	5.68E-02	2.79E+02
	Plant 2																									
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.15E-05	NA	Arsenic	7440382	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	2.36E-07	7.94E-04	Arsenic	7440382	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.75E-05	5.88E-02	1.77E-05	5.96E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	ND	NA	Beryllium	7440417	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	0.00E+00	0.00E+00	Beryllium	7440417	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	6.31E-05	NA	Cadmium	7440439	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	4.73E-07	1.59E-03	Cadmium	7440439	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.51E-05	1.18E-01	3.55E-05	1.19E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.06E-03	NA	Chromium, Total	7440473	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	7.95E-06	2.67E-02	Chromium, Total	7440473	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	5.89E-04	1.98E+00	5.97E-04	2.01E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.46E-03	NA	Copper	7440508	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.09E-05	3.68E-02	Copper	7440508	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.11E-04	2.73E+00	8.22E-04	2.76E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.15E-03	NA	Lead	7439921	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	8.62E-06	2.90E-02	Lead	7439921	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	6.39E-04	2.15E+00	6.48E-04	2.18E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.99E-02	NA	Manganese	7439965	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.49E-04	5.02E-01	Manganese	7439965	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.11E-02	3.72E+01	1.12E-02	3.77E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	ND	NA	Mercury	7439976	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	0.00E+00	0.00E+00	Mercury	7439976	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	7.08E-04	NA	Nickel	7440020	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	5.31E-06	1.78E-02	Nickel	7440020	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.93E-04	1.32E+00	3.99E-04	1.34E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.66E-05	NA	Selenium	7782492	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.24E-07	4.18E-04	Selenium	7782492	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	9.22E-06	3.10E-02	9.35E-06	3.14E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.78E-02	NA	Zinc	7440666	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.33E-04	4.49E-01	Zinc	7440666	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	9.89E-03	3.32E+01	1.00E-02	3.37E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.60E-02	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-5	A1 Baghouse/prefilter/A7 Carbon	90%	0%	Plant 2 P1 - EAF	8.00E-02	2.69E+02	Formaldehyde	50000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.89E-03	2.99E+01	8.89E-02	2.99E+02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.70E-03	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-5	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	8.08E-04	2.71E+00	Acetaldehyde	75070	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	9.44E-04	3.17E+00	1.75E-03	5.89E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.27E-02	NA	Phenol	108952	PSC Source Test,[8] Table 7-4	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	6.03E-03	2.03E+01	Phenol	108952	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.06E-03	2.37E+01	1.31E-02	4.40E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.28E-03	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-4	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	1.56E-03	5.24E+00	m,p-Cresol	108394	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.82E-03	6.12E+00	3.38E-03	1.14E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	4.24E-03	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-4	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	2.01E-03	6.77E+00	o-Cresol	95487	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.36E-03	7.92E+00	4.37E-03	1.47E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.02E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	4.83E-03	1.62E+01	Isopropanol	67630	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	5.64E-03	1.90E+01	1.05E-02	3.52E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.35E-02	NA	Benzene	71432	PSC Source Test,[8] Table 7-6	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	6.41E-03	2.16E+01	Benzene	71432	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.50E-03	2.52E+01	1.39E-02	4.68E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.53E-03	NA	Naphthalene	91203	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	90.55%	Plant 2 P1 - EAF	1.20E-03	4.02E+00	Naphthalene	91203	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.41E-03	4.72E+00	2.60E-03	8.74E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.31E-04	NA	2-Methylnaphthalene	91576	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	90.75%	Plant 2 P1 - EAF	1.53E-04	5.15E-01	2-Methylnaphthalene	91576	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.84E-04	6.18E-01	3.37E-04	1.13E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.94E-04	NA	Acenaphthylene	208968	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	91.04%	Plant 2 P1 - EAF	1.32E-04	4.43E-01	Acenaphthylene	208968	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.63E-04	5.49E-01	2.95E-04	9.91E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.13E-05	NA	Acenaphthene	83329	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	92.05%	Plant 2 P1 - EAF	4.49E-06	1.51E-02	Acenaphthene	83329	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	6.28E-06	2.11E-02	1.08E-05	3.62E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.56E-04	NA	Fluorene	86737	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	93.42%	Plant 2 P1 - EAF	1.17E-04	3.94E-01	Fluorene	86737	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.98E-04	6.65E-01	3.15E-04	1.06E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.98E-04	NA	Phenanthrene	85018	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	98.59%	Plant 2 P1 - EAF	2.81E-05	9.44E-02	Phenanthrene	85018	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.21E-04	7.43E-01	2.49E-04	8.38E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.06E-04	NA	Anthracene	120127	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	98.59%	Plant 2 P1 - EAF	2.16E-05	7.26E-02	Anthracene	120127	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.70E-04	5.71E-01	1.92E-04	6.44E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.10E-04	NA	Fluoranthene	206440	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.69%	Plant 2 P1 - EAF	1.68E-06	5.66E-03	Fluoranthene	206440	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	6.11E-05	2.05E-01	6.28E-05	2.11E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	6.24E-05	NA	Pyrene	129000	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.74%	Plant 2 P1 - EAF	8.06E-07	2.71E-03	Pyrene	129000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.47E-05	1.17E-01	3.55E-05	1.19E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.67E-05	NA	Benz(a)anthracene	56553	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.84%	Plant 2 P1 - EAF	2.09E-07	7.01E-04	Benz(a)anthracene	56553	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.48E-05	4.99E-02	1.50E-05	5.06E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.94E-05	NA	Chrysene	218019	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.84%	Plant 2 P1 - EAF	1.52E-07	5.09E-04	Chrysene	218019	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.08E-05	3.62E-02	1.09E-05	3.67E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.89E-05	NA	Benzo(b)fluoranthene	205992	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.81%	Plant 2 P1 - EAF	2.79E-07	9.37E-04	Benzo(b)fluoranthene	205992	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.61E-05	5.40E-02	1.63E-05	5.49E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	7.35E-06	NA	Benzo(k)fluoranthene	207089	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	5.52E-08	1.86E-04	Benzo(k)fluoranthene	207089	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	4.08E-06	1.37E-02	4.14E-06	1.39E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.19E-05	NA	Benzo(e)pyrene	192972	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	8.93E-08	3.00E-04	Benzo(e)pyrene	192972	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	6.61E-06	2.22E-02	6.70E-06	2.25E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.33E-05	NA	Benzo(a)pyrene	50328	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	9.98E-08	3.36E-04	Benzo(a)pyrene	50328	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.39E-06	2.48E-02	7.49E-06	2.52E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.14E-06	NA	Perylene	198550	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.65E-08	5.56E-05	Perylene	198550	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.19E-06	4.00E-03	1.21E-06	4.05E-03
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	8.35E-06	NA	Indeno(1,2,3-cd)pyrene	193395	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	6.26E-08	2.10E-04	Indeno(1,2,3-cd)pyrene	193395	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	4.64E-06	1.56E-02	4.70E-06	1.58E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.18E-06	NA	Dibenzo(a,h)anthracene	53703	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.64E-08	5.50E-05	Dibenzo(a,h)anthracene	53703	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.21E-06	4.07E-03	1.23E-06	4.13E-03
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	8.64E-06	NA	Benzo(g,h,i)perylene	191242	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	6.48E-08	2.18E-04	Benzo(g,h,i)perylene	191242	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	4.80E-06	1.61E-02	4.86E-06	1.63E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	7.848E-12	NA	Total PCDD/PCDF	1086	Not measured at source, BAAQMD mandated[14]	A1 Baghouse/prefilter/A7 Carbon	90%	90.50%	Plant 2 P1 - EAF	3.73E-12	1.25E-08	Total PCDD/PCDF	1086	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	4.36E-12	1.47E-08	8.09E-12	2.72E-08
	Plant 2																									
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.68E-06	NA	Arsenic	7440382	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	9.58E-09	4.23E-05	Arsenic	7440382	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	6.38E-10	2.82E-06	1.02E-08	4.52E-05
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	ND	NA	Beryllium	7440417	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	0.00E+00	0.00E+00	Beryllium	7440417	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	6.25E-06	NA	Cadmium	7440439	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	3.56E-08	1.58E-04	Cadmium	7440439	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.38E-09	1.05E-05	3.80E-08	1.68E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	6.03E-05	NA	Chromium, Total	7440473	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	3.44E-07	1.52E-03	Chromium, Total	7440473	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.29E-08	1.01E-04	3.67E-07	1.62E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	6.83E-05	NA	Copper	7440508	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	3.89E-07	1.72E-03	Copper	7440508	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.60E-08	1.15E-04	4.15E-07	1.84E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	6.80E-05	NA	Lead	7439921	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	3.88E-07	1.71E-03	Lead	7439921	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.58E-08	1.14E-04	4.13E-07	1.83E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	8.14E-04	NA	Manganese	7439965	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	4.64E-06	2.05E-02	Manganese	7439965	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.09E-07	1.37E-03	4.95E-06	2.19E-02
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	ND	NA	Mercury	7439976	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	0.00E+00	0.00E+00	Mercury	7439976	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	4.75E-05	NA	Nickel	7440020	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	2.71E-07	1.20E-03	Nickel	7440020	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.81E-08	7.98E-05	2.89E-07	1.28E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	3.08E-06	NA	Selenium	7782492	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	1.76E-08	7.76E-05	Selenium	7782492	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.17E-09	5.18E-06	1.87E-08	8.28E-05
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	4.72E-04	NA	Zinc	7440666	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	2.69E-06	1.19E-02	Zinc	7440666	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.79E-07	7.93E-04	2.87E-06	1.27E-02
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.35E-03	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-19	A2 Baghouse/prefilter/A7 Carbon	99.99%	0%	Plant 2 P1 - Cooling	8.93E-03	3.95E+01	Formaldehyde	50000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.93E-07	3.95E-03	8.93E-03	3.95E+01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	3.72E-03	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-19	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	1.34E-03	5.94E+00	Acetaldehyde	75070	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.41E-06	6.25E-03	1.34E-03	5.94E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	9.60E-03	NA	Phenol	108952	PSC Source Test,[8] Table 7-18	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	3.47E-03	1.53E+01	Phenol	108952	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.65E-06	1.61E-02	3.47E-03	1.53E+01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.89E-03	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-18	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	1.04E-03	4.61E+00	m,p-Cresol	108394	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.10E-06	4.86E-03	1.04E-03	4.62E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	5.89E-03	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-18	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	2.13E-03	9.40E+00	o-Cresol	95487	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.24E-06	9.90E-03	2.13E-03	9.41E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	7.68E-03	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	2.77E-03	1.23E+01	Isopropanol	67630	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.92E-06	1.29E-02	2.78E-03	1.23E+01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	3.48E-02	NA	Benzene	71432	PSC Source Test,[8] Table 7-20	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	1.26E-02	5.56E+01	Benzene	71432	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.32E-05	5.85E-02	1.26E-02	5.56E+01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.85E-03	NA	Naphthalene	91203	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.51%	Plant 2 P1 - Cooling	1.03E-03	4.55E+00	Naphthalene	91203	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.08E-06	4.79E-03	1.03E-03	4.55E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	6.06E-04	NA	2-Methylnaphthalene	91576	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.53%	Plant 2 P1 - Cooling	2.18E-04	9.64E-01	2-Methylnaphthalene	91576	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.30E-07	1.02E-03	2.18E-04	9.65E-01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	4.42E-04	NA	Acenaphthylene	208968	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.58%	Plant 2 P1 - Cooling	1.58E-04	7.00E-01	Acenaphthylene	208968	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.68E-07	7.43E-04	1.58E-04	7.00E-01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.33E-05	NA	Acenaphthene	83329	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.75%	Plant 2 P1 - Cooling	8.19E-06	3.62E-02	Acenaphthene	83329	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.85E-09	3.92E-05	8.20E-06	3.63E-02
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.05E-03	NA	Fluorene	86737	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	91.05%	Plant 2 P1 - Cooling	3.57E-04	1.58E+00	Fluorene	86737	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.99E-07	1.76E-03	3.57E-04	1.58E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	8.29E-04	NA	Phenanthrene	85018	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	94.90%	Plant 2 P1 - Cooling	1.61E-04	7.11E-01	Phenanthrene	85018	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.15E-07	1.39E-03	1.61E-04	7.12E-01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.15E-03	NA	Anthracene	120127	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	94.90%	Plant 2 P1 - Cooling	2.23E-04	9.86E-01	Anthracene	120127	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	4.37E-07	1.93E-03	2.23E-04	9.88E-01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.86E-04	NA	Fluoranthene	206440	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	98.83%	Plant 2 P1 - Cooling	8.28E-06	3.66E-02	Fluoranthene	206440	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.07E-08	3.13E-04	8.36E-06	3.69E-02
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.04E-04	NA	Pyrene	129000	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.12%	Plant 2 P1 - Cooling	3.48E-06	1.54E-02	Pyrene	129000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.95E-08	1.75E-04	3.52E-06	1.55E-02
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	5.55E-05	NA	Benz(a)anthracene	56553	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.80%	Plant 2 P1 - Cooling	4.12E-07	1.82E-03	Benz(a)anthracene	56553	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.11E-08	9.33E-05	4.33E-07	1.91E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.91E-05	NA	Chrysene	218019	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.80%	Plant 2 P1 - Cooling	2.16E-07	9.54E-04	Chrysene	218019	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.11E-08	4.89E-05	2.27E-07	1.00E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	4.97E-05	NA	Benzo(b)fluoranthene	205992	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.55%	Plant 2 P1 - Cooling	8.54E-07	3.78E-03	Benzo(b)fluoranthene	205992	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.89E-08	8.35E-05	8.73E-07	3.86E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	8.24E-06	NA	Benzo(k)fluoranthene	207089	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	4.74E-08	2.10E-04	Benzo(k)fluoranthene	207089	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.13E-09	1.38E-05	5.05E-08	2.24E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.12E-05	NA	Benzo(e)pyrene	192972	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	1.22E-07	5.38E-04	Benzo(e)pyrene	192972	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.06E-09	3.56E-05	1.30E-07	5.74E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.01E-05	NA	Benzo(a)pyrene	50328	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	1.15E-07	5.10E-04	Benzo(a)pyrene	50328	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.64E-09	3.38E-05	1.23E-07	5.44E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	3.40E-06	NA	Perylene	198550	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.82%	Plant 2 P1 - Cooling	2.36E-08	1.05E-04	Perylene	198550	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.29E-09	5.71E-06	2.49E-08	1.10E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.41E-05	NA	Indeno(1,2,3-cd)pyrene	193395	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	8.04E-08	3.56E-04	Indeno(1,2,3-cd)pyrene	193395	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	5.36E-09	2.37E-05	8.58E-08	3.79E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	3.76E-06	NA	Dibenzo(a,h)anthracene	53703	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	2.14E-08	9.48E-05	Dibenzo(a,h)anthracene	53703	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.43E-09	6.32E-06	2.29E-08	1.01E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.39E-05	NA	Benzo(g,h,i)perylene	191242	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	7.95E-08	3.52E-04	Benzo(g,h,i)perylene	191242	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	5.28E-09	2.34E-05	8.48E-08	3.75E-04
	Plant 2																									
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	1.64E-07	NA	NA	Arsenic	7440382	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	9.84E-09	4.13E-06	Arsenic	7440382						9.84E-09	4.13E-06
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	0.00E+00	0.00E+00	Beryllium	7440417						0.00E+00	0.00E+00
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	7.49E-08	NA	NA	Cadmium	7440439	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	4.49E-09	1.89E-06	Cadmium	7440439						4.49E-09	1.89E-06
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	6.51E-07	NA	NA	Chromium, Total	7440473	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	3.91E-08	1.64E-05	Chromium, Total	7440473						3.91E-08	1.64E-05
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	1.82E-06	NA	NA	Copper	7440508	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	1.09E-07	4.58E-05	Copper	7440508						1.09E-07	4.58E-05
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	1.57E-05	NA	NA	Lead	7439921	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	9.44E-07	3.97E-04	Lead	7439921						9.44E-07	3.97E-04
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	2.14E-05	NA	NA	Manganese	7439965	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	1.28E-06	5.39E-04	Manganese	7439965						1.28E-06	5.39E-04
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	1.55E-07	NA	NA	Mercury	7439976	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	9.31E-09	3.91E-06	Mercury	7439976						9.31E-09	3.91E-06
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	0.00E+00	0.00E+00	Nickel	7440020						0.00E+00	0.00E+00
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	0.00E+00	0.00E+00	Selenium	7782492						0.00E+00	0.00E+00
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	1.09E-05	NA	NA	Zinc	7440666	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	6.51E-07	2.74E-04	Zinc	7440666						6.51E-07	2.74E-04
	Plant 2																									
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	2.38E-08	Arsenic	7440382	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	7.60E-08	3.99E-04	Arsenic	7440382	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	1.96E-06	1.03E-02	2.04E-06	1.07E-02
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	ND	Beryllium	7440417	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	0.00E+00	0.00E+00	Beryllium	7440417	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	1.09E-08	Cadmium	7440439	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	3.47E-08	1.82E-04	Cadmium	7440439	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	8.97E-07	4.71E-03	9.32E-07	4.89E-03
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	9.43E-08	Chromium, Total	7440473	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	3.02E-07	1.58E-03	Chromium, Total	7440473	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	7.80E-06	4.09E-02	8.10E-06	4.25E-02
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	2.63E-07	Copper	7440508	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	8.43E-07	4.43E-03	Copper	7440508	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	2.18E-05	1.14E-01	2.26E-05	1.19E-01
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	2.28E-06	Lead	7439921	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	7.29E-06	3.83E-02	Lead	7439921	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	1.88E-04	9.90E-01	1.96E-04	1.03E+00
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	3.10E-06	Manganese	7439965	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	9.92E-06	5.21E-02	Manganese	7439965	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	2.56E-04	1.35E+00	2.66E-04	1.40E+00
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	2.25E-08	Mercury	7439976	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	7.19E-08	3.78E-04	Mercury	7439976	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	1.86E-06	9.76E-03	1.93E-06	1.01E-02
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	ND	Nickel	7440020	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	0.00E+00	0.00E+00	Nickel	7440020	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	ND	Selenium	7782492	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	0.00E+00	0.00E+00	Selenium	7782492	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B.4.2: Plant 703 COPC Emissions by Source
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Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors					Primary Emissions Calculation						Secondary Emissions Calculation							Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[3]	Primary Discharge Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	COPC	CAS Number	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	1.57E-06	Zinc	7440666	PSC Source Test, Nov. 1989 [11]	AS Baghouse	90%	99.57%	Plant 2 P5	5.03E-06	2.64E-02	Zinc	7440666	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	1.30E-04	6.83E-01	1.35E-04	7.09E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Arsenic	7440382	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	0.00E+00	0.00E+00	Arsenic	7440382	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Beryllium	7440417	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	0.00E+00	0.00E+00	Beryllium	7440417	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.71E-06	Cadmium	7440439	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	5.42E-06	2.03E-02	Cadmium	7440439	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.27E-05	4.76E-02	1.82E-05	6.78E-02
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	1.86E-05	Chromium, Total	7440473	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	3.72E-05	1.39E-01	Chromium, Total	7440473	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	8.74E-05	3.27E-01	1.25E-04	4.66E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.55E-05	Copper	7440508	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	5.10E-05	1.91E-01	Copper	7440508	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.20E-04	4.48E-01	1.71E-04	6.38E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	6.10E-05	Lead	7439921	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	1.22E-04	4.56E-01	Lead	7439921	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	2.87E-04	1.07E+00	4.09E-04	1.53E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	5.15E-05	Manganese	7439965	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	1.03E-04	3.85E-01	Manganese	7439965	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	2.42E-04	9.04E-01	3.45E-04	1.29E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	5.50E-06	Mercury	7439976	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	1.10E-05	4.11E-02	Mercury	7439976	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	2.58E-05	9.66E-02	3.68E-05	1.38E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.93E-05	Nickel	7440020	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	5.86E-05	2.19E-01	Nickel	7440020	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.38E-04	5.14E-01	1.96E-04	7.33E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	7.84E-06	Selenium	7782492	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	1.57E-05	5.86E-02	Selenium	7782492	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	3.68E-05	1.38E-01	5.25E-05	1.96E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.38E-04	Zinc	7440666	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	4.76E-04	1.78E+00	Zinc	7440666	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.12E-03	4.18E+00	1.59E-03	5.96E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	1.90E-03	Formaldehyde	50000	PSC Source Test,[9] Table 7-12	A10 Baghouse	99%	0.00%	Plant 2 P10	3.80E-03	1.42E+01	Formaldehyde	50000	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	3.84E-05	1.43E-01	3.84E-03	1.43E+01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Acetaldehyde	75070	PSC Source Test,[9] Table 7-12	A10 Baghouse	99%	0.00%	Plant 2 P10	0.00E+00	0.00E+00	Acetaldehyde	75070	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Phenol	108952	PSC Source Test,[9] Table 7-11	A10 Baghouse	99%	0.00%	Plant 2 P10	0.00E+00	0.00E+00	Phenol	108952	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.79E-04	m,p-Cresol	108394	PSC Source Test,[9] Table 7-11	A10 Baghouse	99%	0.00%	Plant 2 P10	5.58E-04	2.09E+00	m,p-Cresol	108394	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	5.64E-06	2.11E-02	5.64E-04	2.11E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	o-Cresol	95487	PSC Source Test,[9] Table 7-11	A10 Baghouse	99%	0.00%	Plant 2 P10	0.00E+00	0.00E+00	o-Cresol	95487	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A10 Baghouse	99%	0.00%	Plant 2 P10	0.00E+00	0.00E+00	Isopropanol	67630	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	9.43E-05	Benzene	71432	PSC Source Test,[9] Table 7-13	A10 Baghouse	99%	0.00%	Plant 2 P10	1.89E-04	7.05E-01	Benzene	71432	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.91E-06	7.12E-03	1.91E-04	7.12E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	6.80E-06	Naphthalene	91203	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	0.01%	Plant 2 P10	1.36E-05	5.08E-02	Naphthalene	91203	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.37E-07	5.13E-04	1.37E-05	5.13E-02
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	2-Methylnaphthalene	91576	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	2-Methylnaphthalene	91576	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Acenaphthylene	208968	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Acenaphthylene	208968	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Acenaphthene	83329	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Acenaphthene	83329	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	8.52E-08	Fluorene	86737	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	0.44%	Plant 2 P10	1.70E-07	5.37E-04	Fluorene	86737	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.73E-09	6.46E-06	1.72E-07	6.42E-04
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	5.56E-07	Phenanthrene	85018	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	5.89%	Plant 2 P10	1.11E-06	4.16E-03	Phenanthrene	85018	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.19E-08	4.46E-05	1.12E-06	4.20E-03
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	9.70E-08	Anthracene	120127	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	5.89%	Plant 2 P10	1.94E-07	7.25E-04	Anthracene	120127	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	2.08E-09	7.78E-06	1.96E-07	7.33E-04
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.72E-07	Fluoranthene	206440	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	36.42%	Plant 2 P10	5.44E-07	2.03E-03	Fluoranthene	206440	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	8.64E-09	3.23E-05	5.53E-07	2.07E-03
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.94E-07	Pyrene	129000	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	45.36%	Plant 2 P10	5.88E-07	2.20E-03	Pyrene	129000	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.09E-08	4.06E-05	5.99E-07	2.24E-03
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Benz(a)anthracene	56553	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Benz(a)anthracene	56553	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Chrysene	218019	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Chrysene	218019	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	8.75E-08	Benzo(b)fluoranthene	205992	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	67.67%	Plant 2 P10	1.75E-07	6.54E-04	Benzo(b)fluoranthene	205992	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	5.47E-09	2.04E-05	1.80E-07	6.74E-04
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Benzo(k)fluoranthene	207089	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Benzo(k)fluoranthene	207089	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Benzo(e)pyrene	192972	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Benzo(e)pyrene	192972	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Benzo(a)pyrene	50328	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Benzo(a)pyrene	50328	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Perylene	198550	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Perylene	198550	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Indeno(1,2,3-cd)pyrene	193395	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Indeno(1,2,3-cd)pyrene	193395	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Dibenzo(a,h)anthracene	53703	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Dibenzo(a,h)anthracene	53703	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Benzo(g,h,i)perylene	191242	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Benzo(g,h,i)perylene	191242	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	30	112,602	tons sand	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[10]	A10 Baghouse	99%	0%	Plant 2 P10	1.01E-05	3.79E-02	Toluene	108883	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.02E-07	3.83E-04	1.02E-05	3.83E-02
32000	Plant 2 32000	Small ladle heater	6	19,000	therms	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[10]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	90.5%	Plant 2 P1 - EAF	1.20E-07	3.79E-04	Benzene	71432						1.20E-07	3.79E-04
32000	Plant 2 32000	Small ladle heater	6	19,000	therms	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[10]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	0.0%	Plant 2 P1 - EAF	4.50E-05	1.43E-01	Formaldehyde	50000						4.50E-05	1.43E-01
32000	Plant 2 32000	Small ladle heater	6	19,000	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[10]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	90.5%	Plant 2 P1 - EAF	1.94E-07	6.14E-04	Toluene	108883						1.94E-07	6.14E-04

Table B.4.2: Plant 703 COPC Emissions by Source

Pacific Steel Casting Company
Berkeley, California

NOTES:

(1) Throughput information:
Maximum hourly throughput based on limits set forth in BAAQMD permit to operate.
Annual throughput based on "Plant #703 Permit Update" submitted to BAAQMD by PSC on September 12, 2006, reports throughput from August 1, 2005 to July 31, 2006

(2) ND = COPC was not detected in all test runs. NA = not applicable

(3) Capture efficiency represents the percentage of emissions routed to primary capture device or area. Values based on analysis by T. Mitchell Engineers & Associates dated August 30, 2006 (included as Appendix A of the February 15, 2007 EIR) with certain modifications based on discussions with the BAAQMD or as mandated by the BAAQMD in the comments (included as Appendix F of the February 15, 2007 EIR) on the November 16, 2006 EIR.
Sources 6-12 are enclosed devices under negative pressure.
Source 30 (cast mold cooling room) is fully enclosed under negative pressure.

(4) Control efficiency represents percent of mass emissions reduced by abatement device.
Baghouses:
Control efficiency for baghouses based on Plant 703 EAF baghouse inlet and outlet source test for particulate matter (PSC Source Test (8), Tables 7-26 and 7-29. As mandated by the BAAQMD, particulate control calculated as 99.57% for particulate-bound COPCs.
Activated Carbon Adsorbers:
Control efficiency for adsorbers assumed to be 90.5% for VOCs, based on data collected at the Plant 1603 carbon unit.
90.5% control efficiency used unless data from manufacturer suggest high frequency breakthrough. For example, 0% control used for formaldehyde.
Carbon adsorbers have particulate prefilters to prevent fouling of activated carbon, the prefilter has a control efficiency of 65% for particulates larger than 1 micron. The carbon adsorption unit will likely remove additional particulate, however, for this analysis it is conservatively assumed that no additional particulate removal will occur in the carbon unit.

(5) Unabated phenol emission factor from BAAQMD source testing of P4 stack dated 4/14/05 and following per source equation
S7-S12 lbs phenol/ton steel= (P4 emissions from Plant 703 source test, lb/hr)/(1.25 tons steel/hr)/(6 sources); Assumes no phenol in S6 (binder not added until S7)

(6) Primary capture emission factor from source testing of stack P4 and following per source equation:
S7-S12 lbs/ton = (P4 emissions from Plant 703 source test, 0.094 lb/hr) * (8 hrs/day) * (250 days/yr)/(6,270 tons sand/yr) / (6 sources) = 5.00E-3 lb formaldehyde/ton sand, Table V-Corrected Formaldehyde Emission Results
in "AB2588 Compliance Source Test Results, Emissions Quantification and Forms PRO", January 8, 1990.; S6 does not handle "coated" sand.

(7) Isopropanol emission factor based on ratio of phenol to IPA as listed on the GP 862D60 Resi Shell Binder MSDS - <2% IPA to 2.5% phenol.

(8) BAAQMD Comments (dated October 18, 2006) on "Source Test Report 2005-2006 Emissions Source Tests Toxic Air Contaminants, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC dated August 30, 2006
All core and shell mold machine emission factors based on S21 source test.
For the Plant 703 EAF (Source 27), as arsenic was ND at the outlet of the baghouse but detected at the inlet of the baghouse, then the inlet value was used and the appropriate baghouse control efficiency applied, as mandated by the BAAQMD.

(9) As mandated by the BAAQMD, fugitive emissions for the EAFs from all three plants were calculated based on the emission factors measured at the Plant 703 EAF (Source 27) baghouse inlet. To implement this methodology, the emission estimates for EAFs were split into two categories - primary and fugitive (denoted by the source number modified with"-fug", e.g., S1-fug). To ensure emission estimates were not double-counted, secondary emission were not calucated for the primary emissions and primary emissions were not caluclated for the fugitive emissions.

(10) Speciated metals emissions for S32 Rotoblast based on following:

1.7	Speciated metal emission factors (lb metal/tons steel) are estimated by multiplying the weight fraction of COPC metals (metal/PM10) found in the testing for the finishing operations of P703, S33-S40 to ladle station and rotoblast PM10 emission factors (lb PM10/tons steel). Speciated metal emission factors (lb metal/tons steel) are derived using following PM10 emission factors.
0.034	PM10 Emission factor (lb PM10/ton steel) for Casting Cleaning, AP-42, Chapter 12.13 Steel Foundries, January 1995, Table 12.13-2. Used to convert S33-S40 source test results into Metal/PM10 weight fraction [metal/PM10=unabated emission factor for S33-S40 (lb metal/tons steel) / PM10 emission factor (lb PM10/ton steel)]. Assume weight fractions between S33-S40 and rotoblast are the same since handling same casting.

COPC	Speciation profile (lb metal/lb PM10) From S33-40 Source Test	Uncontrolled Emission Factor for roto-blast (lb metal/ton steel)
Arsenic	4.85E-06	1.64E-07
Beryllium	ND	ND
Cadmium	2.22E-06	7.49E-08
Chromium, Total	1.93E-05	6.51E-07
Copper	5.38E-05	1.82E-06
Lead	4.66E-04	1.57E-05
Manganese	6.33E-04	2.14E-05
Mercury	4.59E-06	1.55E-07
Nickel	ND	ND
Selenium	ND	ND
Zinc	3.21E-04	1.09E-05

(11) Controlled emission factors based on BAAQMD emission rate data for S33-S40. BAAQMD data from Table III-Emission Results for Stack P5 reported in " AB2588 Compliance Source Test Results, Emissions Quantification and Forms PRO", January 8, 1990.
Emission rate values in report preceded by "<" indicates that values are less than the method detection limit. Per AB2588 guidelines, half of these values are used in calculating the emission factor.

Controlled lbs metal/tons steel = (controlled emission rate, mg/hr) * (lbs/453600mg) * (8 hrs/day) * (5 days/wk) * (50 wks/yr)/(6400 tons/yr) / (8 sources); Equation uses abatement and capture efficiency of stack P5, Plant 703.
Uncontrolled and uncaptured emission factors based on following efficiencies for S33-S40

Capture Efficiency (%)	90.0%
Control Efficiency (%)	99.57%

Saw and Grinding Emission Factors

COPC:	Controlled Emission Rate (mg/hr)	Controlled Emission Factor (lb/tons)	Uncontrolled/Uncaptured Emission Factors (lb/ton)
Arsenic	0.28	2.38E-08	8.25E-06
Beryllium	ND	ND	ND
Cadmium	0.13	1.09E-08	3.77E-06
Chromium, Total	1.10	9.43E-08	3.27E-05
Copper	3.06	2.63E-07	9.15E-05
Lead	26.47	2.28E-06	7.91E-04
Manganese	35.98	3.10E-06	1.08E-03
Mercury	0.26	2.25E-08	7.80E-06
Nickel	ND	ND	ND
Selenium	ND	ND	ND
Zinc	18.260	1.57E-06	5.46E-04

(12) Natural gas combustion emissions factors from AP-42, Chapter 1.4 Natural Gas Combustion, Table 1.4-3 "Emission Factors for Speciated Organic Compounds from Natural Gas Combustion." Upon BAAQMD request, emissions for benzene, toluene and formaldehyde were calculated.
Assumes 1 therm = 100 scf for natural gas

(13) As mandated by the BAAQMD, the chromium (VI) emission factor is based on Plant 703 EAF source test data (inlet) using the chromium (VI) to chromium (total) ratio listed below:
0.88% chromium (VI)/chomium (total)

(14) From "Source Test Report 2006 Dioxin/Furan Emissions Tests, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC for BAAQMD dated July 14, 2006

These source test data are dependent on, and therefore only representative of, the materials used in Plant 1603. The sand molds and cores used in the other two Plants are prepared with binders and additives that are different than the ones used in Plant 1603. Plant 703 and 1603 use phenolic-type binders, however as shown in Appendix C of the February 15, 2007 EIR, none of the same binders and additives are used at both plants. Appendix C also shows the chemical constituents of the binders and additives used in plants 703 and 1603 and there are only three chemicals – isopropanol, phenol and water – that are common to the binders and additives used at both plants. Because of different chemical composition of the binders and additives used at Plant 703, the source test of Plant 1603 would not likely be representative of the operations at Plant 703, however the BAAQMD mandated that PCDDs/PCDFs were estimated for Plant 703 Source 29/31, scaled by the ratio of the aromatic content of the binders used in each plant. If PCDDs/PCDFs were present in the pouring/cooling area of Plant 703 and if aromatic content is a predictor of dioxin formation, then the concentrations of PCDDs/PCDFs in the pouring/cooling area of Plant 703 would theoretically at a maximum be approximately 8% of those measured at Plant 1603 pouring/cooling, which is well below the detection limits for PCDDs/PCDFs in source testing conducted by the BAAQMD.

(15) The following permitted sources were not considered as potentiallly emitting COPCs.
Sources
S1 - Sand silo loading elevator
S2 - Sand silo #1
S3 - Sand silo #2
S4 - Bucket elevator
S5 - Resin tank (liqui-bin)
S19 - Coated sand bin
S25 - Abrasive blaster, core area
S28 - EAF ladle station w/ canopy hood (not in service)

Table B.4.3: Plant 1603 COPC Emissions by Source
Page 1 of 3
Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation						Secondary Emissions Calculation					Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	5.18E-05	ND	Arsenic	7440382	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-27	A1 Baghouse	NA	99.57%	Plant 3 P1	6.68E-07	2.19E-03						6.68E-07	2.19E-03
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	ND	Beryllium	7440417	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	NA	99.57%	Plant 3 P1	0.00E+00	0.00E+00						0.00E+00	0.00E+00
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	1.15E-06	Cadmium	7440439	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	NA	99.57%	Plant 3 P1	3.46E-06	1.14E-02						3.46E-06	1.14E-02
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	2.54E-05	Chromium, Total	7440473	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	NA	99.57%	Plant 3 P1	7.62E-05	2.50E-01						7.62E-05	2.50E-01
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	2.24E-07	Chromium(VI)	18540299	Ratio to Chromium, total based on PSC Source Test[7,8,9,10] Tables 7-27 and 7-28	A1 Baghouse	NA	99.57%	Plant 3 P1	6.71E-07	2.20E-03						6.71E-07	2.20E-03
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	1.32E-05	Copper	7440508	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	NA	99.57%	Plant 3 P1	3.96E-05	1.30E-01						3.96E-05	1.30E-01
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	8.94E-06	Lead	7439921	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	NA	99.57%	Plant 3 P1	2.68E-05	8.80E-02						2.68E-05	8.80E-02
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	2.26E-04	Manganese	7439965	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	NA	99.57%	Plant 3 P1	6.78E-04	2.22E+00						6.78E-04	2.22E+00
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	1.57E-06	Mercury	7439976	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	NA	99.57%	Plant 3 P1	4.71E-06	1.54E-02						4.71E-06	1.54E-02
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	7.76E-06	Nickel	7440020	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	NA	99.57%	Plant 3 P1	2.33E-05	7.64E-02						2.33E-05	7.64E-02
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	1.73E-06	Selenium	7782492	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	NA	99.57%	Plant 3 P1	5.18E-06	1.70E-02						5.18E-06	1.70E-02
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	1.16E-03	Zinc	7440666	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	NA	99.57%	Plant 3 P1	3.49E-03	1.14E+01						3.49E-03	1.14E+01
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	2.72E-06	NA	Arsenic	7440382	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	8.15E-06	2.67E-02	8.15E-06	2.67E-02
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	ND	NA	Beryllium	7440417	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	2.75E-05	NA	Cadmium	7440439	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	8.26E-05	2.71E-01	8.26E-05	2.71E-01
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	1.54E-04	NA	Chromium, Total	7440473	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	4.62E-04	1.52E+00	4.62E-04	1.52E+00
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	1.36E-06	NA	Chromium(VI)	18540299	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	4.07E-06	1.33E-02	4.07E-06	1.33E-02
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	4.17E-04	NA	Copper	7440508	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	1.25E-03	4.10E+00	1.25E-03	4.10E+00
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	1.22E-03	NA	Lead	7439921	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	3.66E-03	1.20E+01	3.66E-03	1.20E+01
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	4.73E-03	NA	Manganese	7439965	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	1.42E-02	4.65E+01	1.42E-02	4.65E+01
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	6.04E-06	NA	Mercury	7439976	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	1.81E-05	5.95E-02	1.81E-05	5.95E-02
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	7.45E-04	NA	Nickel	7440020	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	2.23E-03	7.33E+00	2.23E-03	7.33E+00
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	8.93E-05	NA	Selenium	7782492	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	2.68E-04	8.78E-01	2.68E-04	8.78E-01
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	8.84E-04	NA	Zinc	7440666	BAAQMD Source Test for Plant 1603 EAF Roof Vents[10]	A1 Baghouse	NA	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	2.65E-03	8.70E+00	2.65E-03	8.70E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Arsenic	7440382	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Beryllium	7440417	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.90E-05	NA	Cadmium	7440439	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	2.04E-04	1.34E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.37E-03	9.00E-01	1.58E-03	1.03E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	5.25E-04	NA	Chromium, Total	7440473	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	2.76E-03	1.81E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.85E-02	1.21E+01	2.13E-02	1.39E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.91E-04	NA	Copper	7440508	PSC Source Test,[8] Table 8-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	2.05E-03	1.35E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.38E-02	9.04E+00	1.58E-02	1.04E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.06E-04	NA	Lead	7439921	PSC Source Test,[8] Table 8-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	5.57E-04	3.65E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	3.74E-03	2.45E+00	4.29E-03	2.81E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.17E-03	NA	Manganese	7439965	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	6.13E-03	4.02E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	4.12E-02	2.70E+01	4.73E-02	3.10E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Mercury	7439976	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.85E-04	NA	Nickel	7440020	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	2.02E-03	1.33E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.36E-02	8.90E+00	1.56E-02	1.02E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.71E-05	NA	Selenium	7782492	PSC Source Test, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	1.42E-04	9.33E-02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	9.55E-04	6.26E-01	1.10E-03	7.20E-01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.01E-03	NA	Zinc	7440666	PSC Source Test,[8] Table 8-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	1.06E-02	6.92E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	7.08E-02	4.64E+01	8.14E-02	5.34E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.04E-01	NA	Phenol	108952	PSC Source Test,[8] Table 8-5	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	4.33E-01	2.84E+02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	4.61E-02	3.02E+01	4.79E-01	3.14E+02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.15E-03	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 8-5	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	3.06E-03	2.01E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	3.26E-04	2.14E-01	3.39E-03	2.22E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.65E-02	NA	o-Cresol	95487	PSC Source Test,[8] Table 8-5	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	3.78E-02	2.48E+01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	4.02E-03	2.63E+00	4.18E-02	2.74E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	4.97E-02	NA	Benzene	71432	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	7.08E-02	4.64E+01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	7.53E-03	4.94E+00	7.84E-02	5.14E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.28E-02	NA	Toluene	108883	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	3.25E-02	2.13E+01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	3.45E-03	2.27E+00	3.59E-02	2.36E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.01E-03	NA	Ethyl Benzene	100414	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	1.44E-03	9.44E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.53E-04	1.00E-01	1.59E-03	1.04E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.06E-02	NA	m,p-Xylene	108383	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	1.51E-02	9.91E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.61E-03	1.05E+00	1.67E-02	1.10E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	4.73E-03	NA	o-Xylene	95476	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	6.74E-03	4.42E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	7.17E-04	4.70E-01	7.46E-03	4.89E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.53E-02	NA	Total Xylene	1330207	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	2.18E-02	1.43E+01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.32E-03	1.52E+00	2.42E-02	1.58E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	8.00E-04	NA	MDI	101688	PSC Source Test,[8] Table 8-4	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	1.14E-03	7.48E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.21E-04	7.95E-02	1.26E-03	8.27E-01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.23E-01	NA	Naphthalene	91203	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.48%	Plant 3 P3	3.18E-01	2.09E+02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	3.38E-02	2.22E+01	3.52E-01	2.31E+02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.15E-02	NA	2-Methylnaphthalene	91576	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.42%	Plant 3 P3	1.65E-02	1.08E+01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.75E-03	1.15E+00	1.83E-02	1.20E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.02E-05	NA	Acenaphthylene	208968	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.31%	Plant 3 P3	4.39E-05	2.88E-02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	4.61E-06	3.02E-03	4.85E-05	3.18E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	4.30E-05	NA	Acenaphthene	83329	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	89.89%	Plant 3 P3	6.52E-05	4.27E-02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	6.67E-06	4.38E-03	7.19E-05	4.71E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.60E-04	NA	Fluorene	86737	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	89.16%	Plant 3 P3	2.60E-04	1.71E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.56E-05	1.68E-02	2.86E-04	1.87E-01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.20E-04	NA	Phenanthrene	85018	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	79.28%	Plant 3 P3	6.84E-04	4.48E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	5.93E-05	3.89E-02	7.43E-04	4.87E-01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	7.08E-05	NA	Anthracene	120127	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	79.28%	Plant 3 P3	2.20E-04	1.44E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.91E-05	1.25E-02	2.39E-04	1.57E-01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	9.00E-06	NA	Fluoranthene	206440	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	68.11%	Plant 3 P3	4.31E-05	2.82E-02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.09E-05	7.12E-03	5.39E-05	3.54E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.54E-06	NA	Pyrene	129000	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	67.23%	Plant 3 P3	1.74E-05	1.14E-02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	5.88E-06	3.86E-03	2.33E-05	1.53E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	8.44E-07	NA	Benz(a)anthracene	56553	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.14%	Plant 3 P3	4.41E-06	2.89E-03	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.31E-05	8.62E-03	1.76E-05	1.15E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.84E-06	NA	Chrysene	218019	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.14%	Plant 3 P3	9.62E-06	6.31E-03	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.86E-05	1.88E-02	3.83E-05	2.51E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	5.34E-07	NA	Benzo(b)fluoranthene	205992	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.93%	Plant 3 P3	2.73E-06	1.79E-03	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.00E-06	1.31E-03	4.73E-06	3.10E-03
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Benzo(k)fluoranthene	207089	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%		Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Benzo(e)pyrene	192972	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%		Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	7.09E-07	NA	Benzo(a)pyrene	50328	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	3.72E-06	2.44E-03	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.43E-05	1.59E-02	2.80E-05	1.84E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.52E-07	NA	Perylene	198550	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.10%	Plant 3 P3	1.84E-06	1.21E-03	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	6.45E-06	4.23E-03	8.30E-06	5.44E-03
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Indeno(1,2,3-cd)pyrene	193395	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%		Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Dibenzo(a,h)anthracene	53703	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%		Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Benzo(g,h,i)perylene	191242	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%		Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	9.81E-11	NA	Total PCDD/PCDF	1086	BAAQMD Source Test[11] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	1.40E-10	9.17E-08	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.49E-11	9.75E-09	1.55E-10	1.01E-07
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	4.40E-04	NA	Formaldehyde	50000	PSC Source Test[8] Table 8-11	A3/A7 Baghouse/prefilter/A8 carbon	75%	0%	Plant 3 P3	8.03E-03	1.06E+01	P3 Molding Room	0%	Roof vents - P3 Molding Room	2.68E-03	3.54E+00	1.07E-02	1.42E+01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	7.00E-05	NA	Acetaldehyde	75070	PSC Source Test[8] Table 8-11	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	1.21E-04	1.61E-01	P3 Molding Room	0%	Roof vents - P3 Molding Room	4.26E-04	5.64E-01	5.47E-04	7.24E-01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	2.45E-03	NA	Phenol	108952	PSC Source Test[8] Table 8-10	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	4.25E-03	5.62E+00	P3 Molding Room	0%	Roof vents - P3 Molding Room	1.49E-02	1.97E+01	1.92E-02	2.54E+01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	5.80E-05	NA	m,p-Cresol	108394	PSC Source Test[8] Table 8-10	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	1.01E-04	1.33E-01	P3 Molding Room	0%	Roof vents - P3 Molding Room	3.53E-04	4.67E-01	4.53E-04	6.00E-01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	2.18E-04	NA	o-Cresol	95487	PSC Source Test[8] Table 8-10	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	3.78E-04	5.00E-01	P3 Molding Room	0%	Roof vents - P3 Molding Room	1.33E-03	1.76E+00	1.70E-03	2.26E+00
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	2.76E-03	NA	Benzene	71432	PSC Source Test[8] Table 8-12	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	4.79E-03	6.34E+00	P3 Molding Room	0%	Roof vents - P3 Molding Room	1.68E-02	2.22E+01	2.16E-02	2.86E+01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	6.62E-05	NA	MDI	101688	PSC Source Test[8] Table 8-9	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	1.15E-04	1.52E-01	P3 Molding Room	0%	Roof vents - P3 Molding Room	4.03E-04	5.33E-01	5.17E-04	6.85E-01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	1.26	1,970	pounds	1.00E+00	NA	NA	Isopropanol	67630	Based on PTO Limit for Coating Usage[13]	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	8.98E-02	1.40E+02	P3 Molding Room	0%	Roof vents - P3 Molding Room	3.15E-01	4.93E+02	4.05E-01	6.33E+02
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	1.81E-03	NA	Naphthalene	91203	Based on phenol emission factor and ratio of naphthalene to phenol in S4/S19[14]	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	3.13E-03	4.15E+00	P3 Molding Room	0%	Roof vents - P3 Molding Room	1.10E-02	1.46E+01	1.41E-02	1.87E+01
S5	Plant 3 S5	Blast table	10	4,427	tons steel	1.60E-07	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	6.86E-09	3.04E-06				0.00E+00	0.00E+00	6.86E-09	3.04E-06
S5	Plant 3 S5	Blast table	10	4,427	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5	Plant 3 S5	Blast table	10	4,427	tons steel	7.29E-08	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	3.13E-09	1.39E-06				0.00E+00	0.00E+00	3.13E-09	1.39E-06
S5	Plant 3 S5	Blast table	10	4,427	tons steel	6.33E-07	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	2.72E-08	1.21E-05				0.00E+00	0.00E+00	2.72E-08	1.21E-05
S5	Plant 3 S5	Blast table	10	4,427	tons steel	1.77E-06	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	7.61E-08	3.37E-05				0.00E+00	0.00E+00	7.61E-08	3.37E-05
S5	Plant 3 S5	Blast table	10	4,427	tons steel	1.53E-05	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	6.58E-07	2.92E-04				0.00E+00	0.00E+00	6.58E-07	2.92E-04
S5	Plant 3 S5	Blast table	10	4,427	tons steel	2.08E-05	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	8.95E-07	3.96E-04				0.00E+00	0.00E+00	8.95E-07	3.96E-04
S5	Plant 3 S5	Blast table	10	4,427	tons steel	1.51E-07	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	6.49E-09	2.87E-06				0.00E+00	0.00E+00	6.49E-09	2.87E-06
S5	Plant 3 S5	Blast table	10	4,427	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5	Plant 3 S5	Blast table	10	4,427	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5	Plant 3 S5	Blast table	10	4,427	tons steel	1.06E-05	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	4.54E-07	2.01E-04				0.00E+00	0.00E+00	4.54E-07	2.01E-04
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	1.60E-07	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	1.72E-09	3.04E-06				0.00E+00	0.00E+00	1.72E-09	3.04E-06
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	7.29E-08	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	7.84E-10	1.39E-06				0.00E+00	0.00E+00	7.84E-10	1.39E-06
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	6.33E-07	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	6.81E-09	1.21E-05				0.00E+00	0.00E+00	6.81E-09	1.21E-05
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	1.77E-06	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	1.90E-08	3.37E-05				0.00E+00	0.00E+00	1.90E-08	3.37E-05
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	1.53E-05	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	1.65E-07	2.92E-04				0.00E+00	0.00E+00	1.65E-07	2.92E-04
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	2.08E-05	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	2.24E-07	3.96E-04				0.00E+00	0.00E+00	2.24E-07	3.96E-04
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	1.51E-07	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	1.62E-09	2.87E-06				0.00E+00	0.00E+00	1.62E-09	2.87E-06
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	1.06E-05	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	1.14E-07	2.01E-04				0.00E+00	0.00E+00	1.14E-07	2.01E-04

Table B.4.3: Plant 1603 COPC Emissions by Source

Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation						Secondary Emissions Calculation					Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
Exempt-Heat Treat Furnaces	Plant 3 Exempt-Heat Treat Furnaces	Heat treat furnaces	12	98.445	therms	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	2.46E-06	2.07E-02				0.00E+00	0.00E+00	2.46E-06	2.07E-02
Exempt-Heat Treat Furnaces	Plant 3 Exempt-Heat Treat Furnaces	Heat treat furnaces	12	98.445	therms	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	8.79E-05	7.38E-01				0.00E+00	0.00E+00	8.79E-05	7.38E-01
Exempt-Heat Treat Furnaces	Plant 3 Exempt-Heat Treat Furnaces	Heat treat furnaces	12	98.445	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	3.98E-06	3.35E-02				0.00E+00	0.00E+00	3.98E-06	3.35E-02
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	8.25E-06	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	1.11E-05	3.65E-02				0.00E+00	0.00E+00	1.11E-05	3.65E-02
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	3.77E-06	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	5.09E-06	1.67E-02				0.00E+00	0.00E+00	5.09E-06	1.67E-02
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	3.27E-05	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	4.42E-05	1.45E-01				0.00E+00	0.00E+00	4.42E-05	1.45E-01
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	9.15E-05	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	1.23E-04	4.05E-01				0.00E+00	0.00E+00	1.23E-04	4.05E-01
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	7.91E-04	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	1.07E-03	3.50E+00				0.00E+00	0.00E+00	1.07E-03	3.50E+00
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	1.08E-03	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	1.45E-03	4.76E+00				0.00E+00	0.00E+00	1.45E-03	4.76E+00
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	7.80E-06	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	1.05E-05	3.45E-02				0.00E+00	0.00E+00	1.05E-05	3.45E-02
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	5.46E-04	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	7.37E-04	2.42E+00				0.00E+00	0.00E+00	7.37E-04	2.42E+00
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	4.85E-09	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	6.55E-09	2.15E-05				0.00E+00	0.00E+00	6.55E-09	2.15E-05
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	2.22E-09	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	2.99E-09	9.81E-06				0.00E+00	0.00E+00	2.99E-09	9.81E-06
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	1.93E-08	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	2.60E-08	8.53E-05				0.00E+00	0.00E+00	2.60E-08	8.53E-05
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	1.69E-10	NA	NA	Chromium(VI)	18540299	Ratio to Chromium, total based on PSC Source Test[6] 45 Tables 7-27 and 7-28	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	2.29E-10	7.50E-07				0.00E+00	0.00E+00	2.29E-10	7.50E-07
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	5.38E-08	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	7.26E-08	2.38E-04				0.00E+00	0.00E+00	7.26E-08	2.38E-04
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	4.66E-07	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	6.29E-07	2.06E-03				0.00E+00	0.00E+00	6.29E-07	2.06E-03
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	6.33E-07	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	8.54E-07	2.80E-03				0.00E+00	0.00E+00	8.54E-07	2.80E-03
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	4.59E-09	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	6.20E-09	2.03E-05				0.00E+00	0.00E+00	6.20E-09	2.03E-05
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	3.21E-07	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[6]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	4.34E-07	1.42E-03				0.00E+00	0.00E+00	4.34E-07	1.42E-03

Table B.4.3: Plant 1603 COPC Emissions by Source

Pacific Steel Casting Company
Berkeley, California

NOTES:

(1) Throughput information:
Maximum hourly throughput based on limits set forth in BAAQMD permit to operate, except for the following:
Hourly for S13 through S24 (mold mixing area) based on the sum of maximum throughput of the new (3.25 tons per hour) and reclaimed (15 tons per hour) sand feeds.
Annual throughput based on "Plant #1603 Permit Update" submitted to BAAQMD by PSC on July 31, 2006, reports throughput from May 1, 2005 to April 30, 2006

(2) ND = COPC was not detected in all test runs. NA = not applicable

(3) Capture efficiency represents the percentage of emissions routed to primary capture device or area. Values based on analysis by T. Mitchell Engineers & Associates dated August 30, 2006 (included as Appendix A of the February 15, 2007 EIR) with certain modifications based on discussions with the BAAQMD or as mandated by the BAAQMD in the comments (included as Appendix F of the February 15, 2007 EIR) on the November 16, 2006 EIR.

(4) Control efficiency represents percent of mass emissions reduced by abatement device.
Baghouses:
Control efficiency for baghouses based on Plant 703 EAF baghouse inlet and outlet source test for particulate matter (PSC Source Test (8), Tables 7-26 and 7-29. As mandated by the BAAQMD, particulate control calculated as 99.57% for particulate-bound COPCs.
Activated Carbon Adsorbers:
Control efficiency for adsorbers assumed to be 90.5% for VOCs, based on data collected at the Plant 1603 carbon unit.
90.5% control efficiency used unless data from manufacturer suggest high frequency breakthrough. For example, 0% control used for formaldehyde.
Carbon adsorbers have particulate prefilters to prevent fouling of activated carbon, the prefilter has a control efficiency of 65% for particulates larger than 1 micron. The carbon adsorption unit will likely remove additional particulate, however, for this analysis it is conservatively assumed that no additional particulate removal will occur in the carbon unit.
For S4/S19, the source test was taken at a point after the baghouse, before the prefilter and carbon unit, therefore the control efficiency reflect the those of the prefilter and carbon units.

(5) Speciated metals emissions for S5 blast table and S6 tumbler blaster based on following:
Speciated metal emission factors (lb metal/tons steel) are estimated by multiplying the weight fraction of metals COPCs (metal/PM10) found in the testing for the finishing operations of P703, S33-S40 to arc-air booth PM10 emission factors (lb PM10/tons steel).
Speciated metal emission factors (lb metal/tons steel) are derived using following PM10 emission factors.

1.7	PM10 Emission factor (lb PM10/ton steel) for Casting Cleaning, AP-42, Chapter 12.13 Steel Foundries, January 1995, Table 12.13-2. Used to convert S33-S40 source test results into Metal/PM10 weight fraction [metal/PM10=unabated emission factor for S33-S40 (lb metal/tons steel) / PM10 emission factor (lb PM10/ton steel)]. Assume weight fractions between Plant 703 S33-S40 and Plant 187 are similar.
0.033	PM10 Emission factor (lb PM10/ton steel) for Abrasive Blasting with steel shots. Based on AP-42, Table 13.2.6-1, emission factor=(1.3 lb PM10/1000 lb steel shots) x (2000 lb/ 1 ton) x(112 tons steel shots/8853 tons steel casting). Steel shots and steel casting quantities based on Plant 1603 throughput from May 1, 2005 through A Casting quantity based on 90% of EAF, assumes 10% lost to slag and pigs. Per AP-42 Chapter 13.2.6, assume PM10 from using shots equals 10% of using sand for abrasive blasting.
0.001	PM10 Emissions (lb/ton) from BAAQMD's PSC inventory data bank for Arc Air Booth. Used to convert metal weight fractions (metal/PM10) to uncontrolled metal emission factors (lb metal/tons steel).

COPC	Speciation profile (lb metal/lb PM10) From S33-40 Source Test	Uncontrolled Emission Factor for blast table and tumbler blast	Uncontrolled Emission Factor for arc air booth (lb metal/ton steel)
Arsenic	4.85E-06	1.60E-07	4.85E-09
Beryllium	ND	ND	ND
Cadmium	2.22E-06	7.29E-08	2.22E-09
Chromium, Total	1.93E-05	6.33E-07	1.93E-08
Copper	5.38E-05	1.77E-06	5.38E-08
Lead	4.66E-04	1.53E-05	4.66E-07
Manganese	6.33E-04	2.08E-05	6.33E-07
Mercury	4.59E-06	1.51E-07	4.59E-09
Nickel	ND	ND	ND
Selenium	ND	ND	ND
Zinc	3.21E-04	1.06E-05	3.21E-07

(6) Natural gas combustion emissions factors from AP-42, Chapter 1.4 Natural Gas Combustion, Table 1.4-3 "Emission Factors for Speciated Organic Compounds from Natural Gas Combustion." Upon BAAQMD request, emissions for benzene, toluene and formaldehyde were calculated.
Assumes 1 therm = 100 scf for natural gas

(7) As emissions of chromium (VI) were only measured in the Plant 703 EAF (Source 27), a separate analysis was conducted by GT Engineering (included as Appendix B of the February 15, 2007 EIR) to determine the potential for other sources of chromium (VI) in other operations at the facility. Based on that analysis, emissions of chromium (VI) are estimated for areas where molten steel is produced (i.e., in the EAF and welding operations). As mandated by the BAAQDM, the chromium (VI) emission factor is based on Plant 703 EAF source test data (inlet) using the chromium (VI) to chromium (total) ratio listed below (Note: this is an extremely conservative assumption for arc air welding processes as only portions of the cast are welded):

0.88% chromium (VI)/chomium (total)

(8) BAAQMD Comments (dated October 18, 2006) on "Source Test Report 2005-2006 Emissions Source Tests Toxic Air Contaminants, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC dated August 30, 2006.

(9) As requested by the BAAQMD, emissions from the Plant 1603 EAF (Source 1) are based on source test of Plant 703 EAF (Source 27), scaled by a ratio of the filterable particulate matter measured at Plant 1603 EAF (Source 1) to that measured at Plant 703 EAF (Source 27)

0.008	Filterable particulate matter emission factor (lb/ton steel) at Plant 1603 EAF (Source 1) baghouse outlet, Table 1-2 of BAAQMD Comments (dated October 19, 2006) on "2006 Particulate Matter Tests, Plant 3 Electric Arc Furnace, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC dated August 24, 2006. Pacific Steel conducted this re-test because of the concern that the baghouse was not operating as it routinely does when initially tested in December 2005. Prior to the June 2006 source test, Pacific Steel performed and documented maintenance on the baghouse to address this concern.
0.051	Filterable particulate matter emission factor (lb/ton steel) at Plant 703 EAF (Source 27) baghouse outlet, Table 7-29(8)
0.16	Ratio

As discussed for the Plant 703 EAF (Source 27), if a specific metal was ND at the outlet of the baghouse but detected at the inlet of the baghouse, then the inlet value was used and the appropriate baghouse control efficiency applied, as recommended by the BAAQMD.

(10) On March 6-8, 2007, the BAAQMD conducted a source test to measure fugitive emissions from the EAF through roof vents in the meltshop. Emission factors developed from that source test are used directly to estimate fugitive emissions from the EAF; as a result a capture efficiency is not used in the calculation.

(11) From "Source Test Report 2006 Dioxin/Furan Emissions Tests, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC for BAAQMD dated July 14, 2006
These source test data are dependent on, and therefore only representative of, the materials used in Plant 1603. The sand molds and cores used in the other two Plants are prepared with binders and additives that are different than the ones used in Plant 1603. Plant 187 uses a green sand process where natural clay, corn starch, and water are used as binders to form the casting molds. Since no chemical binders are used, the source test for Plant 1603 would not be representative of operations at Plant 187. Plant 703 and 1603 use phenolic-type binders, however as shown in Appendix C of the February 15, 2007 EIR, none of the same binders and additives are used at both plants. Appendix C of the February 15, 2007 EIR also shows the chemical constituents of the binders and additives used in plants 703 and 1603 and there are only three chemicals – isopropanol, phenol and water – that are common to the binders and additives used at both plants. Because of different chemical composition of the binders and additives used at Plant 703, the source test of Plant 1603 would not likely be representative of the operations at Plant 703.

(12) BAAQMD Comments (dated October 19, 2006) on ""2006 Particulate Matter and Trace Metals Emissions Re-Tests, Plant 3 Cast Mold Pouring / Cooling / and Shakeout, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC dated September 22, 2006.
From this source test, the BAAQMD deemed results for copper, lead and zinc to be anomolous and rejected their use in the EIR. For all other detected metals, the average emission factor for metals reported in (8) were averaged with the average emission factor reported in this source test (12) to develop the emission factor used in the EIR.

(13) Ceramol is the only coating used in S18 that contains IPA, at a maximum of 7% by weight. Based on facility records of Ceramol usage the total annual quantity of IPA in Ceramol is 1970 lbs/yr.
The maximum hourly value is based on the maximum over the reporting period of average daily usage (as calculated from monthly logs) divided by an 8 hour shift.

(14) As requested by the BAAQMD, since naphthalene was not measured at the mold mixing area, emissions were estimated based on measured phenol emissions in the mold mixing area and the ratio of phenol to naphthalene emissions measured at S4/19 pour area.

(15) The following permitted sources were not considered as potentiallly emitting COPCs.

Source	
S2	Ladle heater (out of service)
S7	New sand silo #1
S9	Sand cooler classifier
S10	Sand conditioning unit #1
S11	Sand conditioning unit #2
S12	Return sand bin #1
S13	Reclaimed sand bin #2
S15	Bucket elevator #1, new sand receiving
S16	Bucket elevator #2, returned sand
S17	Bucket elevator #3, reclaimed sand

APPENDIX B.5

Emissions Estimates for Future Controlled Conditions

Table B.5.1: Plant 187 COPC Emissions by Source
Page 1 of 3
Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation								Secondary Emissions Calculation					Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	COPC	CAS Number	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	6.15E-04	ND	Arsenic	7440382	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-27	A5 Baghouse	99%	99.57%	Plant 1 P5	9.25E-06	3.05E-02	Arsenic	7440382						9.25E-06	3.05E-02
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	ND	Beryllium	7440417	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	99%	99.57%	Plant 1 P5	0.00E+00	0.00E+00	Beryllium	7440417						0.00E+00	0.00E+00
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	1.37E-05	Cadmium	7440439	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	99%	99.57%	Plant 1 P5	4.80E-05	1.58E-01	Cadmium	7440439						4.80E-05	1.58E-01
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	3.02E-04	Chromium, Total	7440473	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	99%	99.57%	Plant 1 P5	1.06E-03	3.49E+00	Chromium, Total	7440473						1.06E-03	3.49E+00
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	2.66E-06	Chromium(VI)	18540299	Ratio to Chromium, total based on PSC Source Test[7,8,10,11] Tables 7-27 & 7-28	A5 Baghouse	99%	99.57%	Plant 1 P5	9.29E-06	3.07E-02	Chromium(VI)	18540299						9.29E-06	3.07E-02
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	1.57E-04	Copper	7440508	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	99%	99.57%	Plant 1 P5	5.48E-04	1.81E+00	Copper	7440508						5.48E-04	1.81E+00
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	1.06E-04	Lead	7439921	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	99%	99.57%	Plant 1 P5	3.72E-04	1.23E+00	Lead	7439921						3.72E-04	1.23E+00
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	2.68E-03	Manganese	7439965	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	99%	99.57%	Plant 1 P5	9.39E-03	3.10E+01	Manganese	7439965						9.39E-03	3.10E+01
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	1.86E-05	Mercury	7439976	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	99%	99.57%	Plant 1 P5	6.52E-05	2.15E-01	Mercury	7439976						6.52E-05	2.15E-01
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	9.22E-05	Nickel	7440020	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	99%	99.57%	Plant 1 P5	3.23E-04	1.06E+00	Nickel	7440020						3.23E-04	1.06E+00
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	2.05E-05	Selenium	7782492	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	99%	99.57%	Plant 1 P5	7.17E-05	2.37E-01	Selenium	7782492						7.17E-05	2.37E-01
S1	Plant 1 S1	Electric Arc Furnace	3.5	11,550	tons steel	NA	NA	1.38E-02	Zinc	7440666	PSC Source Test for Plant 703 EAF[8,10,11] Table 7-30	A5 Baghouse	99%	99.57%	Plant 1 P5	4.83E-02	1.59E+02	Zinc	7440666						4.83E-02	1.59E+02
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	3.30E-04	NA	Arsenic	7440382	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Arsenic	7440382	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	1.17E-05	3.85E-02	1.17E-05	3.85E-02
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	ND	NA	Beryllium	7440417	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Beryllium	7440417	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	2.92E-04	NA	Cadmium	7440439	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Cadmium	7440439	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	1.03E-05	3.41E-02	1.03E-05	3.41E-02
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	2.25E-02	NA	Chromium, Total	7440473	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Chromium, Total	7440473	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	7.95E-04	2.63E+00	7.95E-04	2.63E+00
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	1.97E-04	NA	Chromium(VI)	18540299	PSC Source Test for Plant 703 EAF[8,11] Table 7-28	A5 Baghouse	99%	100%				Chromium(VI)	18540299	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	6.96E-06	2.30E-02	6.96E-06	2.30E-02
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	6.24E-03	NA	Copper	7440508	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Copper	7440508	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	2.21E-04	7.28E-01	2.21E-04	7.28E-01
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	7.58E-03	NA	Lead	7439921	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Lead	7439921	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	2.68E-04	8.84E-01	2.68E-04	8.84E-01
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	2.92E-01	NA	Manganese	7439965	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Manganese	7439965	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	1.03E-02	3.41E+01	1.03E-02	3.41E+01
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	1.00E-05	NA	Mercury	7439976	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Mercury	7439976	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	3.54E-07	1.17E-03	3.54E-07	1.17E-03
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	3.34E-03	NA	Nickel	7440020	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Nickel	7440020	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	1.18E-04	3.90E-01	1.18E-04	3.90E-01
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	2.65E-05	NA	Selenium	7782492	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Selenium	7782492	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	9.37E-07	3.09E-03	9.37E-07	3.09E-03
S1-fug	Plant 1 S1-fu	Electric Arc Furnace, fugitive	3.5	11,550	tons steel	NA	1.48E+00	NA	Zinc	7440666	PSC Source Test for Plant 703 EAF[8,11] Table 7-27	A5 Baghouse	99%	100%				Zinc	7440666	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - EAF	5.23E-02	1.73E+02	5.23E-02	1.73E+02
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	5.40E-06	NA	Arsenic	7440382	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	2.83E-08	8.42E-05	Arsenic	7440382	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	2.96E-06	8.79E-03	2.99E-06	8.87E-03
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	ND	NA	Beryllium	7440417	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	0.00E+00	0.00E+00	Beryllium	7440417	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	1.84E-05	NA	Cadmium	7440439	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	9.66E-08	2.87E-04	Cadmium	7440439	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	1.01E-05	2.99E-02	1.02E-05	3.02E-02
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	7.70E-05	NA	Chromium, Total	7440473	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	4.04E-07	1.20E-03	Chromium, Total	7440473	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	4.22E-05	1.25E-01	4.26E-05	1.26E-01
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	1.89E-04	NA	Copper	7440508	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	9.92E-07	2.95E-03	Copper	7440508	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	1.04E-04	3.08E-01	1.05E-04	3.10E-01
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	8.58E-05	NA	Lead	7439921	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	4.50E-07	1.34E-03	Lead	7439921	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	4.70E-05	1.40E-01	4.75E-05	1.41E-01
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	1.11E-03	NA	Manganese	7439965	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	5.83E-06	1.73E-02	Manganese	7439965	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	6.08E-04	1.81E+00	6.14E-04	1.82E+00
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	ND	NA	Mercury	7439976	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	0.00E+00	0.00E+00	Mercury	7439976	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	9.67E-05	NA	Nickel	7440020	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	5.08E-07	1.51E-03	Nickel	7440020	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	5.30E-05	1.57E-01	5.35E-05	1.59E-01
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	ND	NA	Selenium	7782492	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	0.00E+00	0.00E+00	Selenium	7782492	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	5.11E-04	NA	Zinc	7440666	PSC Source Test,[8] Table 6-2	A8 Baghouse/prefilter/A7 Carbon	86.5%	99.85%	Plant 1 P7 - Pour	2.68E-06	7.97E-03	Zinc	7440666	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	2.80E-04	8.31E-01	2.83E-04	8.39E-01
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	ND	NA	Formaldehyde	50000	PSC Source Test,[8] Table 6-3	A8 Baghouse/prefilter/A7 Carbon	86.5%	0%	Plant 1 P7 - Pour	0.00E+00	0.00E+00	Formaldehyde	50000	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S2	Plant 1 S2	Casting, Pour-off area	3.5	10,395	tons steel	NA	1.16E-02	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 6-3	A8 Baghouse/prefilter/A7 Carbon	86.5%	90.5%	Plant 1 P7 - Pour	3.86E-03	1.15E+01	Acetaldehyde	75070	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Pour	6.35E-03	1.89E+01	1.02E-02	3.03E+01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	2.19E-05	NA	Arsenic	7440382	PSC Source Test,[8] Table 6-6	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	1.64E-07	3.86E-04	Arsenic	7440382	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	5.76E-06	1.36E-02	5.93E-06	1.39E-02
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	5.47E-06	NA	Beryllium	7440417	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	4.10E-08	9.65E-05	Beryllium	7440417	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.44E-06	3.39E-03	1.48E-06	3.48E-03
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	8.91E-06	NA	Cadmium	7440439	PSC Source Test,[8] Table 6-8	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	6.68E-08	1.57E-04	Cadmium	7440439	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	2.34E-06	5.51E-03	2.41E-06	5.67E-03
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	2.80E-04	NA	Chromium, Total	7440473	PSC Source Test,[8] Table 6-9	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	2.10E-06	4.94E-03	Chromium, Total	7440473	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	7.37E-05	1.73E-01	7.58E-05	1.78E-01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	6.51E-04	NA	Copper	7440508	PSC Source Test,[8] Table 6-6	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	4.88E-06	1.15E-02	Copper	7440508	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.71E-04	4.03E-01	1.76E-04	4.14E-01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	1.28E-04	NA	Lead	7439921	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	9.60E-07	2.26E-03	Lead	7439921	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	3.37E-05	7.92E-02	3.46E-05	8.15E-02
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	2.10E-03	NA	Manganese	7439965	PSC Source Test,[8] Table 6-8	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	1.57E-05	3.70E-02	Manganese	7439965	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	5.53E-04	1.30E+00	5.68E-04	1.34E+00
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	ND	NA	Mercury	7439976	PSC Source Test,[8] Table 6-9	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	0.00E+00	0.00E+00	Mercury	7439976	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	2.24E-04	NA	Nickel	7440020	PSC Source Test,[8] Table 6-10	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	1.68E-06	3.95E-03	Nickel	7440020	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	5.89E-05	1.39E-01	6.06E-05	1.43E-01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	9.63E-06	NA	Selenium	7782492	PSC Source Test,[8] Table 6-11	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	7.22E-08	1.70E-04	Selenium	7782492	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	2.53E-06	5.96E-03	2.61E-06	6.13E-03
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	1.02E-03	NA	Zinc	7440666	PSC Source Test,[8] Table 6-12	A1 Baghouse/prefilter/A7 Carbon	95.0%	99.85%	Plant 1 P7 - Shakeout	7.65E-06	1.80E-02	Zinc	7440666	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	2.68E-04	6.31E-01	2.76E-04	6.49E-01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	1.73E-03	NA	Formaldehyde	50000	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	95.0%	0%	Plant 1 P7 - Shakeout	8.65E-03	2.03E+01	Formaldehyde	50000	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	4.55E-04	1.07E+00	9.11E-03	2.14E+01
S3	Plant 1 S3	"B" Shake out (dust collection)	5	11,758	tons sand	NA	1.88E-03	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	95.0%	90.5%	Plant 1 P7 - Shakeout	8.93E-04	2.10E+00	Acetaldehyde	75070	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	4.95E-04	1.16E+00	1.39E-03	3.26E+00
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	2.19E-05	NA	Arsenic	7440382	PSC Source Test,[8] Table 6-6	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	1.64E-07	7.72E-04	Arsenic	7440382	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.11E-06	5.20E-03	1.27E-06	5.97E-03
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	5.47E-06	NA	Beryllium	7440417	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	4.10E-08	1.93E-04	Beryllium	7440417	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	2.76E-07	1.30E-03	3.17E-07	1.49E-03
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	8.91E-06	NA	Cadmium	7440439	PSC Source Test,[8] Table 6-8	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	6.68E-08	3.14E-04	Cadmium	7440439	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	4.50E-07	2.12E-03	5.17E-07	2.43E-03
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	2.80E-04	NA	Chromium, Total	7440473	PSC Source Test,[8] Table 6-9	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	2.10E-06	9.88E-03	Chromium, Total	7440473	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.41E-05	6.65E-02	1.62E-05	7.64E-02
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	6.51E-04	NA	Copper	7440508	PSC Source Test,[8] Table 6-6	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	4.88E-06	2.30E-02	Copper	7440508	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	3.29E-05	1.55E-01	3.78E-05	1.78E-01
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	1.28E-04	NA	Lead	7439921	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	9.60E-07	4.51E-03	Lead	7439921	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	6.46E-06	3.04E-02	7.42E-06	3.49E-02
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	2.10E-03	NA	Manganese	7439965	PSC Source Test,[8] Table 6-8	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	1.57E-05	7.41E-02	Manganese	7439965	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.06E-04	4.99E-01	1.22E-04	5.73E-01
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	ND	NA	Mercury	7439976	PSC Source Test,[8] Table 6-9	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	0.00E+00	0.00E+00	Mercury	7439976	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	2.24E-04	NA	Nickel	7440020	PSC Source Test,[8] Table 6-10	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	1.68E-06	7.90E-03	Nickel	7440020	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	1.13E-05	5.32E-02	1.30E-05	6.11E-02
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	9.63E-06	NA	Selenium	7782492	PSC Source Test,[8] Table 6-11	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	7.22E-08	3.40E-04	Selenium	7782492	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	4.86E-07	2.29E-03	5.59E-07	2.63E-03
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	1.02E-03	NA	Zinc	7440666	PSC Source Test,[8] Table 6-12	A1 Baghouse/prefilter/A7 Carbon	99.0%	99.85%	Plant 1 P7 - Shakeout	7.65E-06	3.60E-02	Zinc	7440666	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	5.15E-05	2.42E-01	5.92E-05	2.78E-01
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	1.73E-03	NA	Formaldehyde	50000	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	99.0%	0%	Plant 1 P7 - Shakeout	8.65E-03	4.07E+01	Formaldehyde	50000	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	8.74E-05	4.11E-01	8.74E-03	4.11E+01
S4	Plant 1 S4	"A" Shake out (dust collection)	5	23,515	tons sand	NA	1.88E-03	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 6-7	A1 Baghouse/prefilter/A7 Carbon	99.0%	90.5%	Plant 1 P7 - Shakeout	8.93E-04	4.20E+00	Acetaldehyde	75070	P1 Main Floor	0.0%	Roof Vents - P1 Main Floor - Shakeout	9.49E-05	4.47E-01	9.88E-04	4.65E+00
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	8.25E-06	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	6.38E-08	2.54E-04	Arsenic	7440382	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.65E-06	6.55E-03	1.71E-06	6.81E-03
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Beryllium	7440417	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	3.77E-06	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	2.92E-08	1.16E-04	Cadmium	7440439	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	7.54E-07	2.99E-03	7.83E-07	3.11E-03
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	3.27E-05	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	2.53E-07	1.01E-03	Chromium, Total	7440473	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	6.55E-06	2.60E-02	6.80E-06	2.70E-02
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	9.15E-05	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	7.08E-07	2.81E-03	Copper	7440508	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.83E-05	7.27E-02	1.90E-05	7.55E-02
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	7.91E-04	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	6.13E-06	2.43E-02	Lead	7439921	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.58E-04	6.29E-01	1.64E-04	6.53E-01
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	1.08E-03	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	8.33E-06	3.31E-02	Manganese	7439965	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	2.15E-04	8.55E-01	2.23E-04	8.88E-01
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	7.80E-06	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	6.04E-08	2.40E-04	Mercury	7439976	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.56E-06	6.20E-03	1.62E-06	6.44E-03
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Nickel	7440020	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Selenium	7782492	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S12	Plant 1 S12	Cleaning and grinding	2	7,947	tons steel	5.46E-04	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	4.23E-06	1.68E-02	Zinc	7440666	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.09E-04	4.34E-01	1.13E-04	4.51E-01
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	4.85E-09	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	1.88E-11	7.46E-08	Arsenic	7440382	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.85E-10	1.93E-06	5.04E-10	2.00E-06
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Beryllium	7440417	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	2.22E-09	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	8.58E-12	3.41E-08	Cadmium	7440439	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	2.22E-10	8.81E-07	2.30E-10	9.15E-07
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	1.93E-08	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	7.45E-11	2.96E-07	Chromium, Total	7440473	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.93E-09	7.65E-06	2.00E-09	7.95E-06
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	1.69E-10	NA	NA	Chromium(VI)	18540299	Ratio to Chromium, total based on PSC Source Test,[7,8] Tables 7-27 and 7-28	A4 Baghouse	90%	99.57%	Plant 1 P4	6.56E-13	2.61E-09	Chromium(VI)	18540299	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.69E-11	6.73E-08	1.76E-11	7.00E-08
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	5.38E-08	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	2.08E-10	8.27E-07	Copper	7440508	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	5.38E-09	2.14E-05	5.59E-09	2.22E-05
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	4.66E-07	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	1.80E-09	7.16E-06	Lead	7439921	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.66E-08	1.85E-04	4.84E-08	1.92E-04
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	6.33E-07	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	2.45E-09	9.73E-06	Manganese	7439965	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	6.33E-08	2.51E-04	6.57E-08	2.61E-04
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	4.59E-09	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	1.78E-11	7.06E-08	Mercury	7439976	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.59E-10	1.82E-06	4.77E-10	1.89E-06
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Nickel	7440020	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	0.00E+00	0.00E+00	Selenium	7782492	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S13	Plant 1 S13	Arc-air booth	1	3,974	tons steel	3.21E-07	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A4 Baghouse	90%	99.57%	Plant 1 P4	1.24E-09	4.94E-06	Zinc	7440666	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	3.21E-08	1.28E-04	3.34E-08	1.33E-04
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	4.85E-09	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	1.88E-11	7.46E-08	Arsenic	7440382	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.85E-10	1.93E-06	5.04E-10	2.00E-06
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	0.00E+00	0.00E+00	Beryllium	7440417	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	2.22E-09	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	8.58E-12	3.41E-08	Cadmium	7440439	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	2.22E-10	8.81E-07	2.30E-10	9.15E-07
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	1.93E-08	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	7.45E-11	2.96E-07	Chromium, Total	7440473	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.93E-09	7.65E-06	2.00E-09	7.95E-06
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	1.69E-10	NA	NA	Chromium(VI)	18540299	Ratio to Chromium, total based on PSC Source Test,[7,8] Tables 7-27 and 7-28	A6 Baghouse	90%	99.57%	Plant 1 P6	6.56E-13	2.61E-09	Chromium(VI)	18540299	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	1.69E-11	6.73E-08	1.76E-11	7.00E-08
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	5.38E-08	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	2.08E-10	8.27E-07	Copper	7440508	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	5.38E-09	2.14E-05	5.59E-09	2.22E-05
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	4.66E-07	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	1.80E-09	7.16E-06	Lead	7439921	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.66E-08	1.85E-04	4.84E-08	1.92E-04
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	6.33E-07	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	2.45E-09	9.73E-06	Manganese	7439965	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	6.33E-08	2.51E-04	6.57E-08	2.61E-04
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	4.59E-09	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	1.78E-11	7.06E-08	Mercury	7439976	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	4.59E-10	1.82E-06	4.77E-10	1.89E-06
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	0.00E+00	0.00E+00	Nickel	7440020	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	0.00E+00	0.00E+00	Selenium	7782492	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S14	Plant 1 S14	Arc-air booth	1	3,974	tons steel	3.21E-07	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A6 Baghouse	90%	99.57%	Plant 1 P6	1.24E-09	4.94E-06	Zinc	7440666	P1 Finishing Room	0.0%	Roof Vents - P1 Finishing Room	3.21E-08	1.28E-04	3.34E-08	1.33E-04

Table B.5.1: Plant 187 COPC Emissions by Source
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Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation							Secondary Emissions Calculation						Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	COPC	CAS Number	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	1.92E-07	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	8.26E-09	2.86E-06	Arsenic	7440382				0.00E+00	0.00E+00	8.26E-09	2.86E-06
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	0.00E+00	0.00E+00	Beryllium	7440417				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	8.77E-08	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	3.77E-09	1.31E-06	Cadmium	7440439				0.00E+00	0.00E+00	3.77E-09	1.31E-06
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	7.62E-07	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	3.28E-08	1.14E-05	Chromium, Total	7440473				0.00E+00	0.00E+00	3.28E-08	1.14E-05
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	2.13E-06	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	9.16E-08	3.17E-05	Copper	7440508				0.00E+00	0.00E+00	9.16E-08	3.17E-05
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	1.84E-05	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	7.93E-07	2.75E-04	Lead	7439921				0.00E+00	0.00E+00	7.93E-07	2.75E-04
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	2.51E-05	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	1.08E-06	3.73E-04	Manganese	7439965				0.00E+00	0.00E+00	1.08E-06	3.73E-04
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	1.82E-07	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	7.81E-09	2.71E-06	Mercury	7439976				0.00E+00	0.00E+00	7.81E-09	2.71E-06
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	0.00E+00	0.00E+00	Nickel	7440020				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	0.00E+00	0.00E+00	Selenium	7782492				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S15	Plant 1 S15	Pangborn table blast	10	3,465	tons steel	1.27E-05	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A3 Baghouse	100%	99.57%	Plant 1 P3	5.47E-07	1.89E-04	Zinc	7440666				0.00E+00	0.00E+00	5.47E-07	1.89E-04
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	1.92E-07	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.54E-08	1.33E-05	Arsenic	7440382				0.00E+00	0.00E+00	1.54E-08	1.33E-05
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Beryllium	7440417				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	8.77E-08	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	7.02E-09	6.08E-06	Cadmium	7440439				0.00E+00	0.00E+00	7.02E-09	6.08E-06
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	7.62E-07	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	6.10E-08	5.28E-05	Chromium, Total	7440473				0.00E+00	0.00E+00	6.10E-08	5.28E-05
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	2.13E-06	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.70E-07	1.48E-04	Copper	7440508				0.00E+00	0.00E+00	1.70E-07	1.48E-04
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	1.84E-05	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.47E-06	1.28E-03	Lead	7439921				0.00E+00	0.00E+00	1.47E-06	1.28E-03
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	2.51E-05	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	2.00E-06	1.74E-03	Manganese	7439965				0.00E+00	0.00E+00	2.00E-06	1.74E-03
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	1.82E-07	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.45E-08	1.26E-05	Mercury	7439976				0.00E+00	0.00E+00	1.45E-08	1.26E-05
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Nickel	7440020				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Selenium	7782492				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S16	Plant 1 S16	Roto-blast	4	3,465	tons steel	1.27E-05	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.02E-06	8.81E-04	Zinc	7440666				0.00E+00	0.00E+00	1.02E-06	8.81E-04
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	1.92E-07	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.92E-08	1.33E-05	Arsenic	7440382				0.00E+00	0.00E+00	1.92E-08	1.33E-05
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Beryllium	7440417				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	8.77E-08	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	8.77E-09	6.08E-06	Cadmium	7440439				0.00E+00	0.00E+00	8.77E-09	6.08E-06
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	7.62E-07	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	7.62E-08	5.28E-05	Chromium, Total	7440473				0.00E+00	0.00E+00	7.62E-08	5.28E-05
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	2.13E-06	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	2.13E-07	1.48E-04	Copper	7440508				0.00E+00	0.00E+00	2.13E-07	1.48E-04
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	1.84E-05	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.84E-06	1.28E-03	Lead	7439921				0.00E+00	0.00E+00	1.84E-06	1.28E-03
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	2.51E-05	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	2.51E-06	1.74E-03	Manganese	7439965				0.00E+00	0.00E+00	2.51E-06	1.74E-03
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	1.82E-07	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.82E-08	1.26E-05	Mercury	7439976				0.00E+00	0.00E+00	1.82E-08	1.26E-05
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Nickel	7440020				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	0.00E+00	0.00E+00	Selenium	7782492				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S17	Plant 1 S17	Roto-blast	5	3,465	tons steel	1.27E-05	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2 Baghouse	100%	98%	Plant 1 P2	1.27E-06	8.81E-04	Zinc	7440666				0.00E+00	0.00E+00	1.27E-06	8.81E-04
S18	Plant 1 S18	Heat treating furnaces	64	283,970	therm	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	1.34E-05	5.96E-02	Benzene	71432				0.00E+00	0.00E+00	1.34E-05	5.96E-02
S18	Plant 1 S18	Heat treating furnaces	64	283,970	therm	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	4.80E-04	2.13E+00	Formaldehyde	50000				0.00E+00	0.00E+00	4.80E-04	2.13E+00
S18	Plant 1 S18	Heat treating furnaces	64	283,970	therm	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	2.18E-05	9.65E-02	Toluene	108883				0.00E+00	0.00E+00	2.18E-05	9.65E-02
S22	Plant 1 S22	Core Bake Oven	16	20,000	therm	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	3.36E-06	4.20E-03	Benzene	71432				0.00E+00	0.00E+00	3.36E-06	4.20E-03
S22	Plant 1 S22	Core Bake Oven	16	20,000	therm	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	1.20E-04	1.50E-01	Formaldehyde	50000				0.00E+00	0.00E+00	1.20E-04	1.50E-01
S22	Plant 1 S22	Core Bake Oven	16	20,000	therm	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	5.44E-06	6.80E-03	Toluene	108883				0.00E+00	0.00E+00	5.44E-06	6.80E-03
32001	Plant 1 3200	Small ladle heater	3.39	6,780	therm	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	7.12E-07	1.42E-03	Benzene	71432				0.00E+00	0.00E+00	7.12E-07	1.42E-03
32001	Plant 1 3200	Small ladle heater	3.39	6,780	therm	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	2.54E-05	5.09E-02	Formaldehyde	50000				0.00E+00	0.00E+00	2.54E-05	5.09E-02
32001	Plant 1 3200	Small ladle heater	3.39	6,780	therm	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[6]	P1 Main Floor	100%	0%	Roof Vents - P1 Main Floor - S18	1.15E-06	2.31E-03	Toluene	108883				0.00E+00	0.00E+00	1.15E-06	2.31E-03

Table B.5.1: Plant 187 COPC Emissions by Source

Pacific Steel Casting Company
Berkeley, California

NOTES:

(1) Throughput information:
Maximum hourly throughput based on limits set forth in BAAQMD permit to operate except for S32001. S32001 based on annual throughput divided by 2000 hours of operation.
Annual throughput based on "Plant #187 Permit Update" submitted to BAAQMD by PSC on September 12, 2006, reports throughput from August 1, 2005 to July 31, 2006. S3 and S4 are based on previous year's values as quantities not requested by BAAQMD in 2006.

(2) ND = COPC was not detected in all test runs. NA = not applicable

(3) Capture efficiency represents the percentage of emissions routed to primary capture device or area. Values based on analysis by T. Mitchell Engineers & Associates dated August 30, 2006 (included as Appendix A of the February 15, 2007 EIR) with certain modifications based on discussions with the BAAQMD or as mandated by the BAAQMD in the comments (included as Appendix F of the February 15, 2007 EIR) on the November 16, 2006 EIR.
For S2 (Casting, Pour-off Area), the capture efficiency was assumed a composite of the capture efficiencies estimated for the "A" side and "B" side pour areas, scaled by the relative sand throughput of the "A" side and "B' side shakeout areas.
S4 ("A" Shake out) is in an enclosed room with all ventilation routed to A1 baghouse/prefilter/A7 carbon.

(4) Control efficiency represents percent of mass emissions reduced by abatement device.
Baghouses:
Control efficiency for baghouses based on Plant 703 EAF baghouse inlet and outlet source test for particulate matter (PSC Source Test (8), Tables 7-26 and 7-29. As mandated by the BAAQMD, particulate control calculated as 99.57% for particulate-bound COPCs.
Activated Carbon Adsorbers:
Control efficiency for adsorbers assumed to be 90.5% for VOCs, based on data collected at the Plant 1603 carbon unit.
90.5% control efficiency used unless data from manufacturer suggest high frequency breakthrough. For example, 0% control used for formaldehyde.
Carbon adsorbers have particulate prefilters to prevent fouling of activated carbon, the prefilter has a control efficiency of 65% for particulates larger than 1 micron. The carbon adsorption unit will likely remove additional particulate, however, for this analysis it is conservatively assumed that no additional particulate removal will occur in the carbon unit.

(5) Derivation of speciated metals emissions for finishing processes:
Speciated metal emission factors (lb metal/tons steel) are estimated by multiplying the weight fraction of metals COPCs (metal/PM10) found in the testing for the finishing operations of P703, S33-S40 to arc-air booth PM10 emission factors (lb PM10/tons steel).
Speciated metal emission factors (lb metal/tons steel) are derived using following PM10 emission factors.

1.7	PM10 Emission factor (lb PM10/ton steel) for Casting Cleaning, AP-42, Chapter 12.13 Steel Foundries, January 1995, Table 12.13-2. Used to convert S33-S40 source test results into Metal/PM10 weight fraction [metal/PM10=unabated emission factor for S33-S40 (lb metal/tons steel) / PM10 emission factor (lb PM10/ton steel)]. Assume weight fractions between Plant 703 S33-S40 and Plant 187 are similar.
0.001	PM10 Emissions (lb/ton) from BAAQMD's PSC inventory data bank for Arc Air Booth. Used to convert metal weight fractions (metal/PM10) to uncontrolled metal emission factors (lb metal/tons steel).
0.040	PM10 Emission factor (lb PM10/ton steel) for Abrasive Blasting with steel shots. Based on AP-42, Table 13.2.6-1, emission factor=(1.3 lb PM10/1000 lb steel shots) x (2000 lb/ 1 ton) x(121 tons steel shots/7947 tons steel casting). Steel shots and steel casting quantities based on Plant 187 throughput from August 1, 2004 through July 31, 2005. Casting quantity based on 90% of EAF, assumes 10% lost to slag. Per AP-42 Chapter 13.2.6, assume PM10 from using shots equals 10% of using sand for abrasive blasting.

COPC	Speciation profile (lb metal/lb PM10) From S33-40 Source Test	Uncontrolled Emission Factor for arc air booth (lb metal/ton steel)	Uncontrolled Emission Factor for pangborn table and rotoblasts (lb metal/ton steel)
Arsenic	4.85E-06	4.85E-09	1.92E-07
Beryllium	ND	ND	ND
Cadmium	2.22E-06	2.22E-09	8.77E-08
Chromium, Total	1.93E-05	1.93E-08	7.62E-07
Copper	5.38E-05	5.38E-08	2.13E-06
Lead	4.66E-04	4.66E-07	1.84E-05
Manganese	6.33E-04	6.33E-07	2.51E-05
Mercury	4.59E-06	4.59E-09	1.82E-07
Nickel	ND	ND	ND
Selenium	ND	ND	ND
Zinc	3.21E-04	3.21E-07	1.27E-05

(6) Natural gas combustion emissions factors from AP-42, Chapter 1.4 Natural Gas Combustion, Table 1.4-3 "Emission Factors for Speciated Organic Compounds from Natural Gas Combustion." Upon BAAQMD request, emissions for benzene, toluene and formaldehyde were calculated.
Assumes 1 therm = 100 scf for natural gas

(7) As emissions of chromium (VI) were only measured in the Plant 703 EAF (Source 27), a separate analysis was conducted by GT Engineering (included as Appendix B of the February 15, 2007 EIR) to determine the potential for other sources of chromium (VI) in other operations at the facility. Based on that analysis, emissions of chromium (VI) are estimated for areas where molten steel is produced (i.e., in the EAF and welding operations). As mandated by the BAAQMD, the chromium (VI) emission factor is based on Plant 703 EAF source test data (inlet) using the chromium (VI) to chromium (total) ratio listed below (Note: this is an extremely conservative assumption for arc air welding processes as only portions of the cast are welded):

0.88% chromium (VI)/chomium (total)

(8) BAAQMD Comments (dated October 18, 2006) on "Source Test Report 2005-2006 Emissions Source Tests Toxic Air Contaminants, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC dated August 30, 2006

(9) The following permitted sources were not considered as potentially emitting COPCs.

Source	
S5	Sand system (dust collection)
S6	Sand cooler 6 screen
S7	Sand screen
S8	Muller
S10	Muller, core sand
S11	Muller
S19	Raw sand receiving

(10) As requested by the BAAQMD, emissions from the Plant 187 EAF (Source 1) are based on source test of Plant 703 EAF (Source 27), scaled by a ratio of the filterable particulate matter measured at Plant 187 EAF (Source 1) to that measured at Plant 703 EAF (Source 27)

0.095	Filterable particulate matter emission factor (lb/ton steel) at Plant 187 EAF (Source 1) baghouse outlet, Table 6-9(8)
0.051	Filterable particulate matter emission factor (lb/ton steel) at Plant 703 EAF (Source 27) baghouse outlet, Table 7-29(8)
1.9	Ratio

As discussed for the Plant 703 EAF (Source 27), since arsenic was ND at the outlet of the baghouse but detected at the inlet of the baghouse, then the inlet value was used and the appropriate baghouse control efficiency applied, as madated by the BAAQMD.

(11) As mandated by the BAAQMD, fugitive emissions for the EAFs from all three plants were calculated based on the emission factors measured at the Plant 703 EAF (Source 27) baghouse inlet. To implement this methodology, the emission estimates for EAFs were split into two categories - primary and fugitive (denoted by the source number modified with"-fug", e.g., S1-fug). To ensure emission estimates were not double-counted, secondary emission were not calucated for the primary emissions and primary emissions were not caluclated for the fugitive emissions.

Table B.5.2: Plant 703 COPC Emissions by Source
Page 1 of 4
Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation								Secondary Emissions Calculation					Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	COPC	CAS Number	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S6	Plant 2 S6	Sand heater	6	7,795	therms	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[12]	A4 Baghouse	100%	0%	Plant 2 P4	1.26E-06	1.64E-03	Benzene	71432						1.26E-06	1.64E-03
S6	Plant 2 S6	Sand heater	6	7,795	therms	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[12]	A4 Baghouse	100%	0%	Plant 2 P4	4.50E-05	5.85E-02	Formaldehyde	50000						4.50E-05	5.85E-02
S6	Plant 2 S6	Sand heater	6	7,795	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	A4 Baghouse	100%	0%	Plant 2 P4	2.04E-06	2.65E-03	Toluene	108883						2.04E-06	2.65E-03
	Plant 2																									
S7	Plant 2 S7	Sand coating	3.5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	7.00E-02	8.12E+01	Phenol	108952						7.00E-02	8.12E+01
S7	Plant 2 S7	Sand coating	3.5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	1.75E-02	2.03E+01	Formaldehyde	50000						1.75E-02	2.03E+01
S7	Plant 2 S7	Sand coating	3.5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	5.60E-02	6.50E+01	Isopropanol	67630						5.60E-02	6.50E+01
	Plant 2																									
S8	Plant 2 S8	Coated sand pug mill	5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	1.00E-01	8.12E+01	Phenol	108952						1.00E-01	8.12E+01
S8	Plant 2 S8	Coated sand pug mill	5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	2.50E-02	2.03E+01	Formaldehyde	50000						2.50E-02	2.03E+01
S8	Plant 2 S8	Coated sand pug mill	5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	8.00E-02	6.50E+01	Isopropanol	67630						8.00E-02	6.50E+01
	Plant 2																									
S9	Plant 2 S9	Coated sand vibrating screen	5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	1.00E-01	8.12E+01	Phenol	108952						1.00E-01	8.12E+01
S9	Plant 2 S9	Coated sand vibrating screen	5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	2.50E-02	2.03E+01	Formaldehyde	50000						2.50E-02	2.03E+01
S9	Plant 2 S9	Coated sand vibrating screen	5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	8.00E-02	6.50E+01	Isopropanol	67630						8.00E-02	6.50E+01
	Plant 2																									
S10	Plant 2 S10	Bucket elevator	5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	1.00E-01	8.12E+01	Phenol	108952						1.00E-01	8.12E+01
S10	Plant 2 S10	Bucket elevator	5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	2.50E-02	2.03E+01	Formaldehyde	50000						2.50E-02	2.03E+01
S10	Plant 2 S10	Bucket elevator	5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	8.00E-02	6.50E+01	Isopropanol	67630						8.00E-02	6.50E+01
	Plant 2																									
S11	Plant 2 S11	Cooling tower, coated sand	5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	1.00E-01	8.12E+01	Phenol	108952						1.00E-01	8.12E+01
S11	Plant 2 S11	Cooling tower, coated sand	5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	2.50E-02	2.03E+01	Formaldehyde	50000						2.50E-02	2.03E+01
S11	Plant 2 S11	Cooling tower, coated sand	5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	8.00E-02	6.50E+01	Isopropanol	67630						8.00E-02	6.50E+01
	Plant 2																									
S12	Plant 2 S12	Bucket elevator	5	4,060	tons sand	NA	2.00E-02	NA	Phenol	108952	Testing by BAAQMD 4/14/05 [5]	A4 Baghouse	100%	0%	Plant 2 P4	1.00E-01	8.12E+01	Phenol	108952						1.00E-01	8.12E+01
S12	Plant 2 S12	Bucket elevator	5	4,060	tons sand	NA	5.00E-03	NA	Formaldehyde	50000	Testing by Plant for AB2588 Nov. 1989 [6]	A4 Baghouse	100%	0%	Plant 2 P4	2.50E-02	2.03E+01	Formaldehyde	50000						2.50E-02	2.03E+01
S12	Plant 2 S12	Bucket elevator	5	4,060	tons sand	NA	1.60E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A4 Baghouse	100%	0%	Plant 2 P4	8.00E-02	6.50E+01	Isopropanol	67630						8.00E-02	6.50E+01
	Plant 2																									
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	4.23E-03	Benzene	71432						7.05E-05	4.23E-03
S13	Plant 2 S13	Core molding machine	1.1	1,985	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	3.74E-07	6.75E-04	Toluene	108883						3.74E-07	6.75E-04
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	2.40E-01	Formaldehyde	50000						4.00E-03	2.40E-01
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	3.51E-02	Acetaldehyde	75070						5.85E-04	3.51E-02
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	1.01E+00	Phenol	108952						1.68E-02	1.01E+00
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S13	Plant 2 S13	Core molding machine	0.5	30	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	8.06E-01	Isopropanol	67630						1.34E-02	8.06E-01
	Plant 2																									
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	3.95E-03	Benzene	71432						7.05E-05	3.95E-03
S14	Plant 2 S14	Core molding machine	1.1	1,805	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	3.74E-07	6.14E-04	Toluene	108883						3.74E-07	6.14E-04
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	2.24E-01	Formaldehyde	50000						4.00E-03	2.24E-01
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	3.28E-02	Acetaldehyde	75070						5.85E-04	3.28E-02
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	9.41E-01	Phenol	108952						1.68E-02	9.41E-01
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S14	Plant 2 S14	Core molding machine	0.5	28	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	7.53E-01	Isopropanol	67630						1.34E-02	7.53E-01
	Plant 2																									
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	1.30E-02	Benzene	71432						7.05E-05	1.30E-02
S15	Plant 2 S15	Core molding machine	1.972	5,978	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	6.70E-07	2.03E-03	Toluene	108883						6.70E-07	2.03E-03
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	7.36E-01	Formaldehyde	50000						4.00E-03	7.36E-01
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	1.08E-01	Acetaldehyde	75070						5.85E-04	1.08E-01
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	3.09E+00	Phenol	108952						1.68E-02	3.09E+00
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S15	Plant 2 S15	Core molding machine	0.5	92	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	2.47E+00	Isopropanol	67630						1.34E-02	2.47E+00
	Plant 2																									
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	1.30E-02	Benzene	71432						7.05E-05	1.30E-02
S16	Plant 2 S16	Core molding machine	1.972	5,978	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	6.70E-07	2.03E-03	Toluene	108883						6.70E-07	2.03E-03
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	7.36E-01	Formaldehyde	50000						4.00E-03	7.36E-01
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	1.08E-01	Acetaldehyde	75070						5.85E-04	1.08E-01
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	3.09E+00	Phenol	108952						1.68E-02	3.09E+00
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S16	Plant 2 S16	Core molding machine	0.5	92	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	2.47E+00	Isopropanol	67630						1.34E-02	2.47E+00
	Plant 2																									
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	1.30E-02	Benzene	71432						7.05E-05	1.30E-02
S17	Plant 2 S17	Core molding machine	1.972	5,978	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	6.70E-07	2.03E-03	Toluene	108883						6.70E-07	2.03E-03
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	7.36E-01	Formaldehyde	50000						4.00E-03	7.36E-01
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	1.08E-01	Acetaldehyde	75070						5.85E-04	1.08E-01
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	3.09E+00	Phenol	108952						1.68E-02	3.09E+00
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S17	Plant 2 S17	Core molding machine	0.5	92	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	2.47E+00	Isopropanol	67630						1.34E-02	2.47E+00
	Plant 2																									
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	7.05E-05	1.30E-02	Benzene	71432						7.05E-05	1.30E-02
S18	Plant 2 S18	Core molding machine	1.972	5,978	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	6.70E-07	2.03E-03	Toluene	108883						6.70E-07	2.03E-03
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.00E-03	7.36E-01	Formaldehyde	50000						4.00E-03	7.36E-01
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.85E-04	1.08E-01	Acetaldehyde	75070						5.85E-04	1.08E-01
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.68E-02	3.09E+00	Phenol	108952						1.68E-02	3.09E+00
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S18	Plant 2 S18	Core molding machine	0.5	92	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.34E-02	2.47E+00	Isopropanol	67630						1.34E-02	2.47E+00
	Plant 2																									
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.41E-04	1.04E-01	Benzene	71432						1.41E-04	1.04E-01
S20	Plant 2 S20	Shell molding machine, single	6.5	15,483	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	2.21E-06	5.26E-03	Toluene	108883						2.21E-06	5.26E-03
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	8.00E-03	5.89E+00	Formaldehyde	50000						8.00E-03	5.89E+00
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.17E-03	8.61E-01	Acetaldehyde	75070						1.17E-03	8.61E-01
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	3.36E-02	2.47E+01	Phenol	108952						3.36E-02	2.47E+01
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S20	Plant 2 S20	Shell molding machine, single	1.0	736	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	2.69E-02	1.98E+01	Isopropanol	67630						2.69E-02	1.98E+01
	Plant 2																									
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	1.41E-04	ND	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	2.12E-04	3.29E-01	Benzene	71432						2.12E-04	3.29E-01
S21	Plant 2 S21	Shell molding machine, twin	10.97	49,043	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	3.73E-06	1.67E-02	Toluene	108883						3.73E-06	1.67E-02
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	8.00E-03	8.00E-03	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.20E-02	1.87E+01	Formaldehyde	50000						1.20E-02	1.87E+01
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	1.17E-03	ND	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	1.76E-03	2.73E+00	Acetaldehyde	75070						1.76E-03	2.73E+00
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	3.36E-02	3.36E-02	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	5.04E-02	7.84E+01	Phenol	108952						5.04E-02	7.84E+01
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	ND	ND	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	ND	ND	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S21	Plant 2 S21	Shell molding machine, twin	1.5	2,333	tons sand	2.69E-02	ND	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	P2 Molding Room	100%	0%	Roof vents - P2 Molding Room - Molds	4.03E-02	6.27E+01	Isopropanol	67630						4.03E-02	6.27E+01
	Plant 2																									
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	1.81E-05	2.81E-02	Benzene	71432	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	2.12E-05	3.29E-02	3.92E-05	6.10E-02
S22	Plant 2 S22	Shell molding machine, twin	10.97	49,093	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	3.19E-07	1.43E-03	Toluene	108883	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	3.73E-07	1.67E-03	6.92E-07	3.10E-03
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	A7 Carbon	90.0%	0%	Plant 2 P1 - Molding	1.08E-02	1.68E+01	Formaldehyde	50000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	1.20E-03	1.87E+00	1.20E-02	1.87E+01
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	1.50E-04	2.33E-01	Acetaldehyde	75070	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	1.76E-04	2.73E-01	3.26E-04	5.06E-01
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	4.31E-03	6.70E+00	Phenol	108952	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	5.04E-03	7.84E+00	9.35E-03	1.45E+01
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	0.00E+00	0.00E+00	m,p-Cresol	108394	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	0.00E+00	0.00E+00	o-Cresol	95487	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S22	Plant 2 S22	Shell molding machine, twin	1.5	2,333	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	3.45E-03	5.36E+00	Isopropanol	67630	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	4.03E-03	6.27E+00	7.48E-03	1.16E+01
	Plant 2																									
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	1.81E-05	2.81E-02	Benzene	71432	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	2.12E-05	3.29E-02	3.92E-05	6.10E-02
S23	Plant 2 S23	Shell molding machine, twin	10.97	49,093	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	3.19E-07	1.43E-03	Toluene	108883	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	3.73E-07	1.67E-03	6.92E-07	3.10E-03
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	A7 Carbon	90.0%	0%	Plant 2 P1 - Molding	1.08E-02	1.68E+01	Formaldehyde	50000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	1.20E-03	1.87E+00	1.20E-02	1.87E+01
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	1.50E-04	2.33E-01	Acetaldehyde	75070	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	1.76E-04	2.73E-01	3.26E-04	5.06E-01
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	4.31E-03	6.70E+00	Phenol	108952	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	5.04E-03	7.84E+00	9.35E-03	1.45E+01
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	0.00E+00	0.00E+00	m,p-Cresol	108394	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	0.00E+00	0.00E+00	o-Cresol	95487	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S23	Plant 2 S23	Shell molding machine, twin	1.5	2,333	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A7 Carbon	90.0%	90.5%	Plant 2 P1 - Molding	3.45E-03	5.36E+00	Isopropanol	67630	P2 Molding Room	0%	Roof vents - P2 Molding Room - Molds	4.03E-03	6.27E+00	7.48E-03	1.16E+01
	Plant 2																									
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	1.41E-04	NA	NA	Benzene	71432	PSC Source Test,[8] Table 7-24	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	1.41E-04	1.04E-01	Benzene	71432						1.41E-04	1.04E-01
S24	Plant 2 S24	Shell molding machine, twin	6.5	15,483	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	2.21E-06	5.26E-03	Toluene	108883						2.21E-06	5.26E-03
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	8.00E-03	NA	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-23	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	8.00E-03	5.89E+00	Formaldehyde	50000						8.00E-03	5.89E+00
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	1.17E-03	NA	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-23	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	1.17E-03	8.61E-01	Acetaldehyde	75070						1.17E-03	8.61E-01
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	3.36E-02	NA	NA	Phenol	108952	PSC Source Test,[8] Table 7-22	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	3.36E-02	2.47E+01	Phenol	108952						3.36E-02	2.47E+01
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	ND	NA	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-22	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	0.00E+00	0.00E+00	m,p-Cresol	108394						0.00E+00	0.00E+00
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	ND	NA	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-22	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	0.00E+00	0.00E+00	o-Cresol	95487						0.00E+00	0.00E+00
S24	Plant 2 S24	Shell molding machine, twin	1.0	736	tons sand	2.69E-02	NA	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	S24 Roof Stack	100%	0%	Plant 2 S24 Stack	2.69E-02	1.98E+01	Isopropanol	67630						2.69E-02	1.98E+01
	Plant 2																									
S26	Plant 2 S26	Large Ladle Heater	12	1,542	therms	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[12]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	90.5%	Plant 2 P1 - EAF	2.39E-07	3.08E-05	Benzene	71432						2.39E-07	3.08E-05

Table B.5.2: Plant 703 COPC Emissions by Source

Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation						Secondary Emissions Calculation							Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	COPC	CAS Number	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S26	Plant 2 S26	Large Ladle Heater	12	1,542	therms	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[12]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	0.0%	Plant 2 P1 - EAF	9.00E-05	1.16E-02	Formaldehyde	50000						9.00E-05	1.16E-02
S26	Plant 2 S26	Large Ladle Heater	12	1,542	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[12]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	90.5%	Plant 2 P1 - EAF	3.88E-07	4.98E-05	Toluene	108883						3.88E-07	4.98E-05
	Plant 2																									
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	3.30E-04	ND	Arsenic	7440382	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	99.57%	Plant 2 P3	5.39E-06	2.65E-02	Arsenic	7440382						5.39E-06	2.65E-02
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	ND	Beryllium	7440417	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	0.00E+00	0.00E+00	Beryllium	7440417						0.00E+00	0.00E+00
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	7.36E-06	Cadmium	7440439	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	2.80E-05	1.37E-01	Cadmium	7440439						2.80E-05	1.37E-01
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	1.62E-04	Chromium, Total	7440473	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	6.16E-04	3.02E+00	Chromium, Total	7440473						6.16E-04	3.02E+00
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	1.43E-06	Chromium(VI)	18540299	) Chromium,total based on PSC Source Test[8,9,13] Tables 7	A3 Baghouse	99%	99.57%	Plant 2 P3	5.42E-06	2.66E-02	Chromium(VI)	18540299						5.42E-06	2.66E-02
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	8.41E-05	Copper	7440508	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	3.20E-04	1.57E+00	Copper	7440508						3.20E-04	1.57E+00
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	5.70E-05	Lead	7439921	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	2.17E-04	1.06E+00	Lead	7439921						2.17E-04	1.06E+00
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	1.44E-03	Manganese	7439965	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	5.47E-03	2.69E+01	Manganese	7439965						5.47E-03	2.69E+01
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	1.00E-05	Mercury	7439976	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	3.80E-05	1.87E-01	Mercury	7439976						3.80E-05	1.87E-01
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	4.95E-05	Nickel	7440020	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	1.88E-04	9.24E-01	Nickel	7440020						1.88E-04	9.24E-01
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	1.10E-05	Selenium	7782492	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	4.18E-05	2.05E-01	Selenium	7782492						4.18E-05	2.05E-01
S27	Plant 2 S27	Electric Arc Furnace	3.8	18,671	tons steel	NA	NA	7.41E-03	Zinc	7440666	PSC Source Test[8,9] Table 7-30	A3 Baghouse	99%	99.57%	Plant 2 P3	2.82E-02	1.38E+02	Zinc	7440666						2.82E-02	1.38E+02
	Plant 2																									
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	3.30E-04	NA	Arsenic	7440382	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Arsenic	7440382	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.27E-05	6.22E-02	1.27E-05	6.22E-02
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	ND	NA	Beryllium	7440417	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Beryllium	7440417	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	2.92E-04	NA	Cadmium	7440439	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Cadmium	7440439	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.12E-05	5.51E-02	1.12E-05	5.51E-02
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	2.25E-02	NA	Chromium, Total	7440473	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Chromium, Total	7440473	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.64E-04	4.24E+00	8.64E-04	4.24E+00
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	1.97E-04	NA	Chromium(VI)	18540299	PSC Source Test[8,9] Table 7-28	A3 Baghouse	99%	100%				Chromium(VI)	18540299	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.56E-06	3.72E-02	7.56E-06	3.72E-02
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	6.24E-03	NA	Copper	7440508	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Copper	7440508	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.40E-04	1.18E+00	2.40E-04	1.18E+00
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	7.58E-03	NA	Lead	7439921	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Lead	7439921	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.91E-04	1.43E+00	2.91E-04	1.43E+00
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	2.92E-01	NA	Manganese	7439965	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Manganese	7439965	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.12E-02	5.51E+01	1.12E-02	5.51E+01
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	1.00E-05	NA	Mercury	7439976	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Mercury	7439976	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.84E-07	1.89E-03	3.84E-07	1.89E-03
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	3.34E-03	NA	Nickel	7440020	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Nickel	7440020	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.28E-04	6.30E-01	1.28E-04	6.30E-01
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	2.65E-05	NA	Selenium	7782492	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Selenium	7782492	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.02E-06	5.00E-03	1.02E-06	5.00E-03
S27-fug	Plant 2 S27-fug	Electric Arc Furnace, fugitive	3.8	18,671	tons steel	NA	1.48E+00	NA	Zinc	7440666	PSC Source Test[8,9] Table 7-27	A3 Baghouse	99%	100%				Zinc	7440666	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	5.68E-02	2.79E+02	5.68E-02	2.79E+02
	Plant 2																									
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.15E-05	NA	Arsenic	7440382	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	2.36E-07	7.94E-04	Arsenic	7440382	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.75E-05	5.88E-02	1.77E-05	5.96E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	ND	NA	Beryllium	7440417	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	0.00E+00	0.00E+00	Beryllium	7440417	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	6.31E-05	NA	Cadmium	7440439	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	4.73E-07	1.59E-03	Cadmium	7440439	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.51E-05	1.18E-01	3.55E-05	1.19E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.06E-03	NA	Chromium, Total	7440473	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	7.95E-06	2.67E-02	Chromium, Total	7440473	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	5.89E-04	1.98E+00	5.97E-04	2.01E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.46E-03	NA	Copper	7440508	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.09E-05	3.68E-02	Copper	7440508	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.11E-04	2.73E+00	8.22E-04	2.76E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.15E-03	NA	Lead	7439921	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	8.62E-06	2.90E-02	Lead	7439921	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	6.39E-04	2.15E+00	6.48E-04	2.18E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.99E-02	NA	Manganese	7439965	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.49E-04	5.02E-01	Manganese	7439965	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.11E-02	3.72E+01	1.12E-02	3.77E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	ND	NA	Mercury	7439976	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	0.00E+00	0.00E+00	Mercury	7439976	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	7.08E-04	NA	Nickel	7440020	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	5.31E-06	1.78E-02	Nickel	7440020	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.93E-04	1.32E+00	3.99E-04	1.34E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.66E-05	NA	Selenium	7782492	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.24E-07	4.18E-04	Selenium	7782492	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	9.22E-06	3.10E-02	9.35E-06	3.14E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.78E-02	NA	Zinc	7440666	PSC Source Test,[8] Table 7-2	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.33E-04	4.49E-01	Zinc	7440666	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	9.89E-03	3.32E+01	1.00E-02	3.37E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.60E-02	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-5	A1 Baghouse/prefilter/A7 Carbon	90%	0%	Plant 2 P1 - EAF	8.00E-02	2.69E+02	Formaldehyde	50000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.89E-03	2.99E+01	8.89E-02	2.99E+02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.70E-03	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-5	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	8.08E-04	2.71E+00	Acetaldehyde	75070	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	9.44E-04	3.17E+00	1.75E-03	5.89E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.27E-02	NA	Phenol	108952	PSC Source Test,[8] Table 7-4	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	6.03E-03	2.03E+01	Phenol	108952	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.06E-03	2.37E+01	1.31E-02	4.40E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.28E-03	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-4	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	1.56E-03	5.24E+00	m,p-Cresol	108394	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.82E-03	6.12E+00	3.38E-03	1.14E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	4.24E-03	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-4	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	2.01E-03	6.77E+00	o-Cresol	95487	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.36E-03	7.92E+00	4.37E-03	1.47E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.02E-02	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	4.83E-03	1.62E+01	Isopropanol	67630	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	5.64E-03	1.90E+01	1.05E-02	3.52E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.35E-02	NA	Benzene	71432	PSC Source Test,[8] Table 7-6	A1 Baghouse/prefilter/A7 Carbon	90%	91%	Plant 2 P1 - EAF	6.41E-03	2.16E+01	Benzene	71432	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.50E-03	2.52E+01	1.39E-02	4.68E+01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.53E-03	NA	Naphthalene	91203	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	90.55%	Plant 2 P1 - EAF	1.20E-03	4.02E+00	Naphthalene	91203	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.41E-03	4.72E+00	2.60E-03	8.74E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.31E-04	NA	2-Methylnaphthalene	91576	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	90.75%	Plant 2 P1 - EAF	1.53E-04	5.15E-01	2-Methylnaphthalene	91576	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.84E-04	6.18E-01	3.37E-04	1.13E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.94E-04	NA	Acenaphthylene	208968	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	91.04%	Plant 2 P1 - EAF	1.32E-04	4.43E-01	Acenaphthylene	208968	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.63E-04	5.49E-01	2.95E-04	9.91E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.13E-05	NA	Acenaphthene	83329	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	92.05%	Plant 2 P1 - EAF	4.49E-06	1.51E-02	Acenaphthene	83329	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	6.28E-06	2.11E-02	1.08E-05	3.62E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.56E-04	NA	Fluorene	86737	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	93.42%	Plant 2 P1 - EAF	1.17E-04	3.94E-01	Fluorene	86737	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.98E-04	6.65E-01	3.15E-04	1.06E+00
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.98E-04	NA	Phenanthrene	85018	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	98.59%	Plant 2 P1 - EAF	2.81E-05	9.44E-02	Phenanthrene	85018	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.21E-04	7.43E-01	2.49E-04	8.38E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	3.06E-04	NA	Anthracene	120127	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	98.59%	Plant 2 P1 - EAF	2.16E-05	7.26E-02	Anthracene	120127	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.70E-04	5.71E-01	1.92E-04	6.44E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.10E-04	NA	Fluoranthene	206440	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.69%	Plant 2 P1 - EAF	1.68E-06	5.66E-03	Fluoranthene	206440	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	6.11E-05	2.05E-01	6.28E-05	2.11E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	6.24E-05	NA	Pyrene	129000	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.74%	Plant 2 P1 - EAF	8.06E-07	2.71E-03	Pyrene	129000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.47E-05	1.17E-01	3.55E-05	1.19E-01
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.67E-05	NA	Benz(a)anthracene	56553	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.84%	Plant 2 P1 - EAF	2.09E-07	7.01E-04	Benz(a)anthracene	56553	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.48E-05	4.99E-02	1.50E-05	5.06E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.94E-05	NA	Chrysene	218019	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.84%	Plant 2 P1 - EAF	1.52E-07	5.09E-04	Chrysene	218019	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.08E-05	3.62E-02	1.09E-05	3.67E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.89E-05	NA	Benzo(b)fluoranthene	205992	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.81%	Plant 2 P1 - EAF	2.79E-07	9.37E-04	Benzo(b)fluoranthene	205992	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.61E-05	5.40E-02	1.63E-05	5.49E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	7.35E-06	NA	Benzo(k)fluoranthene	207089	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	5.52E-08	1.86E-04	Benzo(k)fluoranthene	207089	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	4.08E-06	1.37E-02	4.14E-06	1.39E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.19E-05	NA	Benzo(e)pyrene	192972	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	8.93E-08	3.00E-04	Benzo(e)pyrene	192972	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	6.61E-06	2.22E-02	6.70E-06	2.25E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	1.33E-05	NA	Benzo(a)pyrene	50328	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	9.98E-08	3.36E-04	Benzo(a)pyrene	50328	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.39E-06	2.48E-02	7.49E-06	2.52E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.14E-06	NA	Perylene	198550	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.65E-08	5.56E-05	Perylene	198550	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.19E-06	4.00E-03	1.21E-06	4.05E-03
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	8.35E-06	NA	Indeno(1,2,3-cd)pyrene	193395	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	6.26E-08	2.10E-04	Indeno(1,2,3-cd)pyrene	193395	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	4.64E-06	1.56E-02	4.70E-06	1.58E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	2.18E-06	NA	Dibenzo(a,h)anthracene	53703	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	1.64E-08	5.50E-05	Dibenzo(a,h)anthracene	53703	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.21E-06	4.07E-03	1.23E-06	4.13E-03
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	8.64E-06	NA	Benzo(g,h,i)perylene	191242	PSC Source Test,[8] Table 7-3	A1 Baghouse/prefilter/A7 Carbon	90%	99.85%	Plant 2 P1 - EAF	6.48E-08	2.18E-04	Benzo(g,h,i)perylene	191242	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	4.80E-06	1.61E-02	4.86E-06	1.63E-02
S29&S31	Plant 2 S29&S31	Shell mold pouring station & Shakeout and tr	5	16,804	tons steel	NA	7.848E-12	NA	Total PCDD/PCDF	1086	Not measured at source, BAAQMD mandated[14]	A1 Baghouse/prefilter/A7 Carbon	90%	90.50%	Plant 2 P1 - EAF	3.73E-12	1.25E-08	Total PCDD/PCDF	1086	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	4.36E-12	1.47E-08	8.09E-12	2.72E-08
	Plant 2																									
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.68E-06	NA	Arsenic	7440382	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	9.58E-09	4.23E-05	Arsenic	7440382	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	6.38E-10	2.82E-06	1.02E-08	4.52E-05
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	ND	NA	Beryllium	7440417	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	0.00E+00	0.00E+00	Beryllium	7440417	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	6.25E-06	NA	Cadmium	7440439	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	3.56E-08	1.58E-04	Cadmium	7440439	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.38E-09	1.05E-05	3.80E-08	1.68E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	6.03E-05	NA	Chromium, Total	7440473	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	3.44E-07	1.52E-03	Chromium, Total	7440473	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.29E-08	1.01E-04	3.67E-07	1.62E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	6.83E-05	NA	Copper	7440508	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	3.89E-07	1.72E-03	Copper	7440508	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.60E-08	1.15E-04	4.15E-07	1.84E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	6.80E-05	NA	Lead	7439921	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	3.88E-07	1.71E-03	Lead	7439921	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.58E-08	1.14E-04	4.13E-07	1.83E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	8.14E-04	NA	Manganese	7439965	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	4.64E-06	2.05E-02	Manganese	7439965	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.09E-07	1.37E-03	4.95E-06	2.19E-02
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	ND	NA	Mercury	7439976	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	0.00E+00	0.00E+00	Mercury	7439976	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	4.75E-05	NA	Nickel	7440020	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	2.71E-07	1.20E-03	Nickel	7440020	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.81E-08	7.98E-05	2.89E-07	1.28E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	3.08E-06	NA	Selenium	7782492	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	1.76E-08	7.76E-05	Selenium	7782492	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.17E-09	5.18E-06	1.87E-08	8.28E-05
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	4.72E-04	NA	Zinc	7440666	PSC Source Test,[8] Table 7-16	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	2.69E-06	1.19E-02	Zinc	7440666	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.79E-07	7.93E-04	2.87E-06	1.27E-02
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.35E-03	NA	Formaldehyde	50000	PSC Source Test,[8] Table 7-19	A2 Baghouse/prefilter/A7 Carbon	99.99%	0%	Plant 2 P1 - Cooling	8.93E-03	3.95E+01	Formaldehyde	50000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.93E-07	3.95E-03	8.93E-03	3.95E+01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	3.72E-03	NA	Acetaldehyde	75070	PSC Source Test,[8] Table 7-19	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	1.34E-03	5.94E+00	Acetaldehyde	75070	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.41E-06	6.25E-03	1.34E-03	5.94E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	9.60E-03	NA	Phenol	108952	PSC Source Test,[8] Table 7-18	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	3.47E-03	1.53E+01	Phenol	108952	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.65E-06	1.61E-02	3.47E-03	1.53E+01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.89E-03	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 7-18	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	1.04E-03	4.61E+00	m,p-Cresol	108394	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.10E-06	4.86E-03	1.04E-03	4.62E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	5.89E-03	NA	o-Cresol	95487	PSC Source Test,[8] Table 7-18	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	2.13E-03	9.40E+00	o-Cresol	95487	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.24E-06	9.90E-03	2.13E-03	9.41E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	7.68E-03	NA	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	2.77E-03	1.23E+01	Isopropanol	67630	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.92E-06	1.29E-02	2.78E-03	1.23E+01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	3.48E-02	NA	Benzene	71432	PSC Source Test,[8] Table 7-20	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.5%	Plant 2 P1 - Cooling	1.26E-02	5.56E+01	Benzene	71432	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.32E-05	5.85E-02	1.26E-02	5.56E+01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.85E-03	NA	Naphthalene	91203	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.51%	Plant 2 P1 - Cooling	1.03E-03	4.55E+00	Naphthalene	91203	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.08E-06	4.79E-03	1.03E-03	4.55E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	6.06E-04	NA	2-Methylnaphthalene	91576	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.53%	Plant 2 P1 - Cooling	2.18E-04	9.64E-01	2-Methylnaphthalene	91576	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.30E-07	1.02E-03	2.18E-04	9.65E-01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	4.42E-04	NA	Acenaphthylene	208968	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.58%	Plant 2 P1 - Cooling	1.58E-04	7.00E-01	Acenaphthylene	208968	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.68E-07	7.43E-04	1.58E-04	7.00E-01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.33E-05	NA	Acenaphthene	83329	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	90.75%	Plant 2 P1 - Cooling	8.19E-06	3.62E-02	Acenaphthene	83329	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.85E-09	3.92E-05	8.20E-06	3.63E-02
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.05E-03	NA	Fluorene	86737	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	91.05%	Plant 2 P1 - Cooling	3.57E-04	1.58E+00	Fluorene	86737	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.99E-07	1.76E-03	3.57E-04	1.58E+00
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	8.29E-04	NA	Phenanthrene	85018	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	94.90%	Plant 2 P1 - Cooling	1.61E-04	7.11E-01	Phenanthrene	85018	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.15E-07	1.39E-03	1.61E-04	7.12E-01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.15E-03	NA	Anthracene	120127	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	94.90%	Plant 2 P1 - Cooling	2.23E-04	9.86E-01	Anthracene	120127	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	4.37E-07	1.93E-03	2.23E-04	9.88E-01
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.86E-04	NA	Fluoranthene	206440	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	98.83%	Plant 2 P1 - Cooling	8.28E-06	3.66E-02	Fluoranthene	206440	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.07E-08	3.13E-04	8.36E-06	3.69E-02
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.04E-04	NA	Pyrene	129000	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.12%	Plant 2 P1 - Cooling	3.48E-06	1.54E-02	Pyrene	129000	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.95E-08	1.75E-04	3.52E-06	1.55E-02
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	5.55E-05	NA	Benz(a)anthracene	56553	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.80%	Plant 2 P1 - Cooling	4.12E-07	1.82E-03	Benz(a)anthracene	56553	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	2.11E-08	9.33E-05	4.33E-07	1.91E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.91E-05	NA	Chrysene	218019	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.80%	Plant 2 P1 - Cooling	2.16E-07	9.54E-04	Chrysene	218019	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.11E-08	4.89E-05	2.27E-07	1.00E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	4.97E-05	NA	Benzo(b)fluoranthene	205992	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.55%	Plant 2 P1 - Cooling	8.54E-07	3.78E-03	Benzo(b)fluoranthene	205992	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.89E-08	8.35E-05	8.73E-07	3.86E-03
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	8.24E-06	NA	Benzo(k)fluoranthene	207089	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	4.74E-08	2.10E-04	Benzo(k)fluoranthene	207089	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	3.13E-09	1.38E-05	5.05E-08	2.24E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.12E-05	NA	Benzo(e)pyrene	192972	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	1.22E-07	5.38E-04	Benzo(e)pyrene	192972	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	8.06E-09	3.56E-05	1.30E-07	5.74E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	2.01E-05	NA	Benzo(a)pyrene	50328	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	1.15E-07	5.10E-04	Benzo(a)pyrene	50328	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	7.64E-09	3.38E-05	1.23E-07	5.44E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	3.40E-06	NA	Perylene	198550	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.82%	Plant 2 P1 - Cooling	2.36E-08	1.05E-04	Perylene	198550	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.29E-09	5.71E-06	2.49E-08	1.10E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.41E-05	NA	Indeno(1,2,3-cd)pyrene	193395	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	8.04E-08	3.56E-04	Indeno(1,2,3-cd)pyrene	193395	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	5.36E-09	2.37E-05	8.58E-08	3.79E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	3.76E-06	NA	Dibenzo(a,h)anthracene	53703	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	2.14E-08	9.48E-05	Dibenzo(a,h)anthracene	53703	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	1.43E-09	6.32E-06	2.29E-08	1.01E-04
S30	Plant 2 S30	Cast mold cooling room	3.8	16,804	tons steel	NA	1.39E-05	NA	Benzo(g,h,i)perylene	191242	PSC Source Test,[8] Table 7-17	A2 Baghouse/prefilter/A7 Carbon	99.99%	99.85%	Plant 2 P1 - Cooling	7.95E-08	3.52E-04	Benzo(g,h,i)perylene	191242	P2 Molding Room	0%	Roof vents - P2 Molding Room - Shakeout	5.28E-09	2.34E-05	8.48E-08	3.75E-04
	Plant 2																									
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	1.64E-07	NA	NA	Arsenic	7440382	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	9.84E-09	4.13E-06	Arsenic	7440382						9.84E-09	4.13E-06
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	0.00E+00	0.00E+00	Beryllium	7440417						0.00E+00	0.00E+00
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	7.49E-08	NA	NA	Cadmium	7440439	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	4.49E-09	1.89E-06	Cadmium	7440439						4.49E-09	1.89E-06
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	6.51E-07	NA	NA	Chromium, Total	7440473	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	3.91E-08	1.64E-05	Chromium, Total	7440473						3.91E-08	1.64E-05
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	1.82E-06	NA	NA	Copper	7440508	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	1.09E-07	4.58E-05	Copper	7440508						1.09E-07	4.58E-05
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	1.57E-05	NA	NA	Lead	7439921	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	9.44E-07	3.97E-04	Lead	7439921						9.44E-07	3.97E-04
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	2.14E-05	NA	NA	Manganese	7439965	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	1.28E-06	5.39E-04	Manganese	7439965						1.28E-06	5.39E-04
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	1.55E-07	NA	NA	Mercury	7439976	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	9.31E-09	3.91E-06	Mercury	7439976						9.31E-09	3.91E-06
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	0.00E+00	0.00E+00	Nickel	7440020						0.00E+00	0.00E+00
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	0.00E+00	0.00E+00	Selenium	7782492						0.00E+00	0.00E+00
S32	Plant 2 S32	Roto-blast	40	16,804	tons steel	1.09E-05	NA	NA	Zinc	7440666	PSC Source Test, Nov. 1989 [10]	A2 Baghouse/prefilter/A7 Carbon	100%	99.85%	Plant 2 P1 - Finishing	6.51E-07	2.74E-04	Zinc	7440666						6.51E-07	2.74E-04
	Plant 2																									
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	2.38E-08	Arsenic	7440382	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	7.60E-08	3.99E-04	Arsenic	7440382	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	1.96E-06	1.03E-02	2.04E-06	1.07E-02
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	ND	Beryllium	7440417	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	0.00E+00	0.00E+00	Beryllium	7440417	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	1.09E-08	Cadmium	7440439	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	3.47E-08	1.82E-04	Cadmium	7440439	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	8.97E-07	4.71E-03	9.32E-07	4.89E-03
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	9.43E-08	Chromium, Total	7440473	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	3.02E-07	1.58E-03	Chromium, Total	7440473	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	7.80E-06	4.09E-02	8.10E-06	4.25E-02
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	2.63E-07	Copper	7440508	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	8.43E-07	4.43E-03	Copper	7440508	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	2.18E-05	1.14E-01	2.26E-05	1.19E-01
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	2.28E-06	Lead	7439921	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	7.29E-06	3.83E-02	Lead	7439921	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	1.88E-04	9.90E-01	1.96E-04	1.03E+00
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	3.10E-06	Manganese	7439965	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	9.92E-06	5.21E-02	Manganese	7439965	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	2.56E-04	1.35E+00	2.66E-04	1.40E+00
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	2.25E-08	Mercury	7439976	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	7.19E-08	3.78E-04	Mercury	7439976	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	1.86E-06	9.76E-03	1.93E-06	1.01E-02
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	ND	Nickel	7440020	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	0.00E+00	0.00E+00	Nickel	7440020	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	ND	Selenium	7782492	PSC Source Test, Nov. 1989 [11]	A5 Baghouse	90%	99.57%	Plant 2 P5	0.00E+00	0.00E+00	Selenium	7782492	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B.5.2: Plant 703 COPC Emissions by Source
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Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors					Primary Emissions Calculation						Secondary Emissions Calculation							Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Discharge Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	COPC	CAS Number	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S33-S40	Plant 2 S33-S40	Abrasive cut-off saw & grinders	3.2	16,804	tons steel	NA	NA	1.57E-06	Zinc	7440666	PSC Source Test, Nov. 1989 [11]	AS Baghouse	90%	99.57%	Plant 2 P5	5.03E-06	2.64E-02	Zinc	7440666	P2 Finishing Room	0%	Roof vents - P2 Finishing Room	1.30E-04	6.83E-01	1.35E-04	7.09E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Arsenic	7440382	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	0.00E+00	0.00E+00	Arsenic	7440382	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Beryllium	7440417	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	0.00E+00	0.00E+00	Beryllium	7440417	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.71E-06	Cadmium	7440439	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	5.42E-06	2.03E-02	Cadmium	7440439	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.27E-05	4.76E-02	1.82E-05	6.78E-02
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	1.86E-05	Chromium, Total	7440473	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	3.72E-05	1.39E-01	Chromium, Total	7440473	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	8.74E-05	3.27E-01	1.25E-04	4.66E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.55E-05	Copper	7440508	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	5.10E-05	1.91E-01	Copper	7440508	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.20E-04	4.48E-01	1.71E-04	6.38E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	6.10E-05	Lead	7439921	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	1.22E-04	4.56E-01	Lead	7439921	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	2.87E-04	1.07E+00	4.09E-04	1.53E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	5.15E-05	Manganese	7439965	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	1.03E-04	3.85E-01	Manganese	7439965	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	2.42E-04	9.04E-01	3.45E-04	1.29E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	5.50E-06	Mercury	7439976	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	1.10E-05	4.11E-02	Mercury	7439976	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	2.58E-05	9.66E-02	3.68E-05	1.38E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.93E-05	Nickel	7440020	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	5.86E-05	2.19E-01	Nickel	7440020	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.38E-04	5.14E-01	1.96E-04	7.33E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	7.84E-06	Selenium	7782492	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	1.57E-05	5.86E-02	Selenium	7782492	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	3.68E-05	1.38E-01	5.25E-05	1.96E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.38E-04	Zinc	7440666	PSC Source Test,[9] Table 7-9	A10 Baghouse	99%	99.57%	Plant 2 P10	4.76E-04	1.78E+00	Zinc	7440666	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.12E-03	4.18E+00	1.59E-03	5.96E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	1.90E-03	Formaldehyde	50000	PSC Source Test,[9] Table 7-12	A10 Baghouse	99%	0.00%	Plant 2 P10	3.80E-03	1.42E+01	Formaldehyde	50000	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	3.84E-05	1.43E-01	3.84E-03	1.43E+01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Acetaldehyde	75070	PSC Source Test,[9] Table 7-13	A10 Baghouse	99%	0.00%	Plant 2 P10	0.00E+00	0.00E+00	Acetaldehyde	75070	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Phenol	108952	PSC Source Test,[9] Table 7-11	A10 Baghouse	99%	0.00%	Plant 2 P10	0.00E+00	0.00E+00	Phenol	108952	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.79E-04	m,p-Cresol	108394	PSC Source Test,[9] Table 7-11	A10 Baghouse	99%	0.00%	Plant 2 P10	5.58E-04	2.09E+00	m,p-Cresol	108394	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	5.64E-06	2.11E-02	5.64E-04	2.11E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	o-Cresol	95487	PSC Source Test,[9] Table 7-11	A10 Baghouse	99%	0.00%	Plant 2 P10	0.00E+00	0.00E+00	o-Cresol	95487	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Isopropanol	67630	Ratio of IPA/Phenol in MSDS[7]	A10 Baghouse	99%	0.00%	Plant 2 P10	0.00E+00	0.00E+00	Isopropanol	67630	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	9.43E-05	Benzene	71432	PSC Source Test,[9] Table 7-13	A10 Baghouse	99%	0.00%	Plant 2 P10	1.89E-04	7.05E-01	Benzene	71432	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.91E-06	7.12E-03	1.91E-04	7.12E-01
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	6.80E-06	Naphthalene	91203	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	0.01%	Plant 2 P10	1.36E-05	5.08E-02	Naphthalene	91203	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.37E-07	5.13E-04	1.37E-05	5.13E-02
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	2-Methylnaphthalene	91576	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	2-Methylnaphthalene	91576	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Acenaphthylene	208968	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Acenaphthylene	208968	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Acenaphthene	83329	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Acenaphthene	83329	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	8.52E-08	Fluorene	86737	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	0.44%	Plant 2 P10	1.70E-07	3.37E-04	Fluorene	86737	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.73E-09	6.46E-06	1.72E-07	6.42E-04
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	5.56E-07	Phenanthrene	85018	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	5.89%	Plant 2 P10	1.11E-06	4.16E-03	Phenanthrene	85018	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.19E-08	4.46E-05	1.12E-06	4.20E-03
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	9.70E-08	Anthracene	120127	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	5.89%	Plant 2 P10	1.94E-07	7.25E-04	Anthracene	120127	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	2.08E-09	7.78E-06	1.96E-07	7.33E-04
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.72E-07	Fluoranthene	206440	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	36.42%	Plant 2 P10	5.44E-07	2.03E-03	Fluoranthene	206440	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	8.64E-09	3.23E-05	5.53E-07	2.07E-03
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	2.94E-07	Pyrene	129000	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	45.36%	Plant 2 P10	5.88E-07	2.20E-03	Pyrene	129000	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.09E-08	4.06E-05	5.99E-07	2.24E-03
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Benz(a)anthracene	56553	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Benz(a)anthracene	56553	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Chrysene	218019	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Chrysene	218019	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	8.75E-08	Benzo(b)fluoranthene	205992	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%	67.67%	Plant 2 P10	1.75E-07	6.54E-04	Benzo(b)fluoranthene	205992	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	5.47E-09	2.04E-05	1.80E-07	6.74E-04
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Benzo(k)fluoranthene	207089	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Benzo(k)fluoranthene	207089	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Benzo(e)pyrene	192972	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Benzo(e)pyrene	192972	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Benzo(a)pyrene	50328	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Benzo(a)pyrene	50328	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Perylene	198550	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Perylene	198550	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Indeno(1,2,3-cd)pyrene	193395	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Indeno(1,2,3-cd)pyrene	193395	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Dibenzo(a,h)anthracene	53703	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Dibenzo(a,h)anthracene	53703	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	2	7,474	tons sand	NA	NA	ND	Benzo(g,h,i)perylene	191242	PSC Source Test,[9] Table 7-10	A10 Baghouse	99%		Plant 2 P10	0.00E+00	0.00E+00	Benzo(g,h,i)perylene	191242	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S44-49	Plant 2 S44-49	Thermal Sand Recycling Unit	30	112,602	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[10]	A10 Baghouse	99%	0%	Plant 2 P10	1.01E-05	3.79E-02	Toluene	108883	Thermal Sand Recycling Unit Room	0%	Thermal Sand Recycling Unit Door	1.02E-07	3.83E-04	1.02E-05	3.83E-02
	Plant 2																									
32000	Plant 2 32000	Small ladle heater	6	19,000	therms	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[10]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	90.5%	Plant 2 P1 - EAF	1.20E-07	3.79E-04	Benzene	71432						1.20E-07	3.79E-04
32000	Plant 2 32000	Small ladle heater	6	19,000	therms	7.50E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[10]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	0.0%	Plant 2 P1 - EAF	4.50E-05	1.43E-01	Formaldehyde	50000						4.50E-05	1.43E-01
32000	Plant 2 32000	Small ladle heater	6	19,000	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[10]	P2 Meltshop, A1/A2 Baghouse/prefilter/A7 Carbon	100%	90.5%	Plant 2 P1 - EAF	1.94E-07	6.14E-04	Toluene	108883						1.94E-07	6.14E-04

Table B.5.2: Plant 703 COPC Emissions by Source

Pacific Steel Casting Company
Berkeley, California

NOTES:

(1) Throughput information:
Maximum hourly throughput based on limits set forth in BAAQMD permit to operate.
Annual throughput based on "Plant #703 Permit Update" submitted to BAAQMD by PSC on September 12, 2006, reports throughput from August 1, 2005 to July 31, 2006

(2) ND = COPC was not detected in all test runs. NA = not applicable

(3) Capture efficiency represents the percentage of emissions routed to primary capture device or area. Values based on analysis by T. Mitchell Engineers & Associates dated August 30, 2006 (included as Appendix A of the February 15, 2007 EIR) with certain modifications based on discussions with the BAAQMD or as mandated by the BAAQMD in the comments (included as Appendix F of the February 15, 2007 EIR) on the November 16, 2006 EIR.
Sources 6-12 are enclosed devices under negative pressure.
Source 30 (cast mold cooling room) is fully enclosed under negative pressure.

(4) Control efficiency represents percent of mass emissions reduced by abatement device.
Baghouses:
Control efficiency for baghouses based on Plant 703 EAF baghouse inlet and outlet source test for particulate matter (PSC Source Test (8), Tables 7-26 and 7-29. As mandated by the BAAQMD, particulate control calculated as 99.57% for particulate-bound COPCs.
Activated Carbon Adsorbers:
Control efficiency for adsorbers assumed to be 90.5% for VOCs, based on data collected at the Plant 1603 carbon unit.
90.5% control efficiency used unless data from manufacturer suggest high frequency breakthrough. For example, 0% control used for formaldehyde.
Carbon adsorbers have particulate prefilters to prevent fouling of activated carbon, the prefilter has a control efficiency of 65% for particulates larger than 1 micron. The carbon adsorption unit will likely remove additional particulate, however, for this analysis it is conservatively assumed that no additional particulate removal will occur in the carbon unit.

(5) Unabated phenol emission factor from BAAQMD source testing of P4 stack dated 4/14/05 and following per source equation
S7-S12 lbs phenol/ton steel= (P4 emissions from Plant 703 source test, lb/hr)/(1.25 tons steel/hr)/(6 sources); Assumes no phenol in S6 (binder not added until S7)

(6) Primary capture emission factor from source testing of stack P4 and following per source equation:
S7-S12 lbs/ton = (P4 emissions from Plant 703 source test, 0.094 lb/hr) * (8 hrs/day) * (250 days/yr)/(6,270 tons sand/yr) / (6 sources) = 5.00E-3 lb formaldehyde/ton sand, Table V-Corrected Formaldehyde Emission Results
in "AB2588 Compliance Source Test Results, Emissions Quantification and Forms PRO", January 8, 1990.; S6 does not handle "coated" sand.

(7) Isopropanol emission factor based on ratio of phenol to IPA as listed on the GP 862D60 Resi Shell Binder MSDS - <2% IPA to 2.5% phenol.

(8) BAAQMD Comments (dated October 18, 2006) on "Source Test Report 2005-2006 Emissions Source Tests Toxic Air Contaminants, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC dated August 30, 2006
All core and shell mold machine emission factors based on S21 source test.
For the Plant 703 EAF (Source 27), as arsenic was ND at the outlet of the baghouse but detected at the inlet of the baghouse, then the inlet value was used and the appropriate baghouse control efficiency applied, as mandated by the BAAQMD.

(9) As mandated by the BAAQMD, fugitive emissions for the EAFs from all three plants were calculated based on the emission factors measured at the Plant 703 EAF (Source 27) baghouse inlet. To implement this methodology, the emission estimates for EAFs were split into two categories - primary and fugitive (denoted by the source number modified with"-fug", e.g., S1-fug). To ensure emission estimates were not double-counted, secondary emission were not calucated for the primary emissions and primary emissions were not caluclated for the fugitive emissions.

(10) Speciated metals emissions for S32 Rotoblast based on following:

1.7	Speciated metal emission factors (lb metal/tons steel) are estimated by multiplying the weight fraction of COPC metals (metal/PM10) found in the testing for the finishing operations of P703, S33-S40 to ladle station and rotoblast PM10 emission factors (lb PM10/tons steel). Speciated metal emission factors (lb metal/tons steel) are derived using following PM10 emission factors.
0.034	PM10 Emission factor (lb PM10/ton steel) for Casting Cleaning, AP-42, Chapter 12.13 Steel Foundries, January 1995, Table 12.13-2. Used to convert S33-S40 source test results into Metal/PM10 weight fraction [metal/PM10=unabated emission factor for S33-S40 (lb metal/tons steel) / PM10 emission factor (lb PM10/ton steel)]. Assume weight fractions between S33-S40 and rotoblast are the same since handling same casting.

COPC	Speciation profile (lb metal/lb PM10) From S33-40 Source Test	Uncontrolled Emission Factor for roto-blast (lb metal/ton steel)
Arsenic	4.85E-06	1.64E-07
Beryllium	ND	ND
Cadmium	2.22E-06	7.49E-08
Chromium, Total	1.93E-05	6.51E-07
Copper	5.38E-05	1.82E-06
Lead	4.66E-04	1.57E-05
Manganese	6.33E-04	2.14E-05
Mercury	4.59E-06	1.55E-07
Nickel	ND	ND
Selenium	ND	ND
Zinc	3.21E-04	1.09E-05

(11) Controlled emission factors based on BAAQMD emission rate data for S33-S40. BAAQMD data from Table III-Emission Results for Stack P5 reported in " AB2588 Compliance Source Test Results, Emissions Quantification and Forms PRO", January 8, 1990.
Emission rate values in report preceded by "<" indicates that values are less than the method detection limit. Per AB2588 guidelines, half of these values are used in calculating the emission factor.

Controlled lbs metal/tons steel = (controlled emission rate, mg/hr) * (lbs/453600mg) * (8 hrs/day) * (5 days/wk) * (50 wks/yr)/(6400 tons/yr) / (8 sources); Equation uses abatement and capture efficiency of stack P5, Plant 703.
Uncontrolled and uncaptured emission factors based on following efficiencies for S33-S40

Capture Efficiency (%)	90.0%
Control Efficiency (%)	99.57%

Saw and Grinding Emission Factors

COPC:	Controlled Emission Rate (mg/hr)	Controlled Emission Factor (lb/tons)	Uncontrolled/Uncaptured Emission Factors (lb/ton)
Arsenic	0.28	2.38E-08	8.25E-06
Beryllium	ND	ND	ND
Cadmium	0.13	1.09E-08	3.77E-06
Chromium, Total	1.10	9.43E-08	3.27E-05
Copper	3.06	2.63E-07	9.15E-05
Lead	26.47	2.28E-06	7.91E-04
Manganese	35.98	3.10E-06	1.08E-03
Mercury	0.26	2.25E-08	7.80E-06
Nickel	ND	ND	ND
Selenium	ND	ND	ND
Zinc	18.260	1.57E-06	5.46E-04

(12) Natural gas combustion emissions factors from AP-42, Chapter 1.4 Natural Gas Combustion, Table 1.4-3 "Emission Factors for Speciated Organic Compounds from Natural Gas Combustion." Upon BAAQMD request, emissions for benzene, toluene and formaldehyde were calculated.
Assumes 1 therm = 100 scf for natural gas

(13) As mandated by the BAAQMD, the chromium (VI) emission factor is based on Plant 703 EAF source test data (inlet) using the chromium (VI) to chromium (total) ratio listed below:
0.88% chromium (VI)/chomium (total)

(14) From "Source Test Report 2006 Dioxin/Furan Emissions Tests, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC for BAAQMD dated July 14, 2006

These source test data are dependent on, and therefore only representative of, the materials used in Plant 1603. The sand molds and cores used in the other two Plants are prepared with binders and additives that are different than the ones used in Plant 1603. Plant 703 and 1603 use phenolic-type binders, however as shown in Appendix C of the February 15, 2007 EIR, none of the same binders and additives are used at both plants. Appendix C also shows the chemical constituents of the binders and additives used in plants 703 and 1603 and there are only three chemicals – isopropanol, phenol and water – that are common to the binders and additives used at both plants. Because of different chemical composition of the binders and additives used at Plant 703, the source test of Plant 1603 would not likely be representative of the operations at Plant 703, however the BAAQMD mandated that PCDDs/PCDFs were estimated for Plant 703 Source 29/31, scaled by the ratio of the aromatic content of the binders used in each plant. If PCDDs/PCDFs were present in the pouring/cooling area of Plant 703 and if aromatic content is a predictor of dioxin formation, then the concentrations of PCDDs/PCDFs in the pouring/cooling area of Plant 703 would theoretically at a maximum be approximately 8% of those measured at Plant 1603 pouring/cooling, which is well below the detection limits for PCDDs/PCDFs in source testing conducted by the BAAQMD.

(15) The following permitted sources were not considered as potentiallly emitting COPCs.
Sources
S1 - Sand silo loading elevator
S2 - Sand silo #1
S3 - Sand silo #2
S4 - Bucket elevator
S5 - Resin tank (liqui-bin)
S19 - Coated sand bin
S25 - Abrasive blaster, core area
S28 - EAF ladle station w/ canopy hood (not in service)

Table B.5.3: Plant 1603 COPC Emissions by Source

Pacific Steel Casting Company

Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation						Secondary Emissions Calculation					Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	5.18E-05	ND	Arsenic	7440382	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-27	A1 Baghouse	99%	99.57%	Plant 3 P1	6.68E-07	2.19E-03						6.68E-07	2.19E-03
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	ND	Beryllium	7440417	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	99%	99.57%	Plant 3 P1	0.00E+00	0.00E+00						0.00E+00	0.00E+00
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	1.15E-06	Cadmium	7440439	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	99%	99.57%	Plant 3 P1	3.46E-06	1.14E-02						3.46E-06	1.14E-02
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	2.54E-05	Chromium, Total	7440473	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	99%	99.57%	Plant 3 P1	7.62E-05	2.50E-01						7.62E-05	2.50E-01
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	2.24E-07	Chromium(VI)	18540299	Ratio to Chromium, total based on PSC Source Test[7,8,9,10] Tables 7-27 and 7-28	A1 Baghouse	99%	99.57%	Plant 3 P1	6.71E-07	2.20E-03						6.71E-07	2.20E-03
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	1.32E-05	Copper	7440508	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	99%	99.57%	Plant 3 P1	3.96E-05	1.30E-01						3.96E-05	1.30E-01
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	8.94E-06	Lead	7439921	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	99%	99.57%	Plant 3 P1	2.68E-05	8.80E-02						2.68E-05	8.80E-02
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	2.26E-04	Manganese	7439965	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	99%	99.57%	Plant 3 P1	6.78E-04	2.22E+00						6.78E-04	2.22E+00
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	1.57E-06	Mercury	7439976	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	99%	99.57%	Plant 3 P1	4.71E-06	1.54E-02						4.71E-06	1.54E-02
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	7.76E-06	Nickel	7440020	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	99%	99.57%	Plant 3 P1	2.33E-05	7.64E-02						2.33E-05	7.64E-02
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	1.73E-06	Selenium	7782492	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	99%	99.57%	Plant 3 P1	5.18E-06	1.70E-02						5.18E-06	1.70E-02
S1	Plant 3 S1	Electric Arc Furnace	3	9,837	tons steel	NA	NA	1.16E-03	Zinc	7440666	PSC Source Test for Plant 703 EAF[8,9,10] Table 7-30	A1 Baghouse	99%	99.57%	Plant 3 P1	3.49E-03	1.14E+01						3.49E-03	1.14E+01
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	5.44E-07	NA	Arsenic	7440382	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	1.63E-06	5.35E-03	1.63E-06	5.35E-03
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	ND	NA	Beryllium	7440417	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	5.51E-06	NA	Cadmium	7440439	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	1.65E-05	5.42E-02	1.65E-05	5.42E-02
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	3.08E-05	NA	Chromium, Total	7440473	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	9.25E-05	3.03E-01	9.25E-05	3.03E-01
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	2.71E-07	NA	Chromium(VI)	18540299	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	8.14E-07	2.67E-03	8.14E-07	2.67E-03
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	8.34E-05	NA	Copper	7440508	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	2.50E-04	8.21E-01	2.50E-04	8.21E-01
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	2.44E-04	NA	Lead	7439921	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	7.33E-04	2.40E+00	7.33E-04	2.40E+00
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	9.45E-04	NA	Manganese	7439965	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	2.84E-03	9.30E+00	2.84E-03	9.30E+00
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	1.21E-06	NA	Mercury	7439976	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	3.63E-06	1.19E-02	3.63E-06	1.19E-02
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	1.49E-04	NA	Nickel	7440020	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	4.47E-04	1.47E+00	4.47E-04	1.47E+00
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	1.79E-05	NA	Selenium	7782492	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	5.36E-05	1.76E-01	5.36E-05	1.76E-01
S1-fug	Plant 3 S1-fug	Electric Arc Furnace, fugitive	3	9,837	tons steel	NA	1.77E-04	NA	Zinc	7440666	BAAQMD Source Test for Plant 1603 EAF Roof Vents [10]	A1 Baghouse	99%	100%				P3 Meltshop	0.0%	Roof vents - P3 Meltshop	5.30E-04	1.74E+00	5.30E-04	1.74E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Arsenic	7440382	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Beryllium	7440417	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.90E-05	NA	Cadmium	7440439	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	2.04E-04	1.34E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.37E-03	9.00E-01	1.58E-03	1.03E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	5.25E-04	NA	Chromium, Total	7440473	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	2.76E-03	1.81E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.85E-02	1.21E+01	2.13E-02	1.39E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.91E-04	NA	Copper	7440508	PSC Source Test,[8] Table 8-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	2.05E-03	1.35E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.38E-02	9.04E+00	1.58E-02	1.04E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.06E-04	NA	Lead	7439921	PSC Source Test,[8] Table 8-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	5.57E-04	3.65E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	3.74E-03	2.45E+00	4.29E-03	2.81E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.17E-03	NA	Manganese	7439965	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	6.13E-03	4.02E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	4.12E-02	2.70E+01	4.73E-02	3.10E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Mercury	7439976	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.85E-04	NA	Nickel	7440020	Average of PSC Source Tests,[8] Table 8-2, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	2.02E-03	1.33E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.36E-02	8.90E+00	1.56E-02	1.02E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.71E-05	NA	Selenium	7782492	PSC Source Test, [12] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	1.42E-04	9.33E-02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	9.55E-04	6.26E-01	1.10E-03	7.20E-01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.01E-03	NA	Zinc	7440666	PSC Source Test,[8] Table 8-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	1.06E-02	6.92E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	7.08E-02	4.64E+01	8.14E-02	5.34E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.04E-01	NA	Phenol	108952	PSC Source Test,[8] Table 8-5	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	4.33E-01	2.84E+02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	4.61E-02	3.02E+01	4.79E-01	3.14E+02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.15E-03	NA	m,p-Cresol	108394	PSC Source Test,[8] Table 8-5	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	3.06E-03	2.01E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	3.26E-04	2.14E-01	3.39E-03	2.22E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.65E-02	NA	o-Cresol	95487	PSC Source Test,[8] Table 8-5	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	3.78E-02	2.48E+01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	4.02E-03	2.63E+00	4.18E-02	2.74E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	4.97E-02	NA	Benzene	71432	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	7.08E-02	4.64E+01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	7.53E-03	4.94E+00	7.84E-02	5.14E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.28E-02	NA	Toluene	108883	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	3.25E-02	2.13E+01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	3.45E-03	2.27E+00	3.59E-02	2.36E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.01E-03	NA	Ethyl Benzene	100414	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	1.44E-03	9.44E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.53E-04	1.00E-01	1.59E-03	1.04E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.06E-02	NA	m,p-Xylene	108383	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	1.51E-02	9.91E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.61E-03	1.05E+00	1.67E-02	1.10E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	4.73E-03	NA	o-Xylene	95476	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	6.74E-03	4.42E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	7.17E-04	4.70E-01	7.46E-03	4.89E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.53E-02	NA	Total Xylene	1330207	PSC Source Test,[8] Table 8-6	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	2.18E-02	1.43E+01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.32E-03	1.52E+00	2.42E-02	1.58E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	8.00E-04	NA	MDI	101688	PSC Source Test,[8] Table 8-4	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	1.14E-03	7.48E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.21E-04	7.95E-02	1.26E-03	8.27E-01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.65E-01	NA	Naphthalene	91203	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.48%	Plant 3 P3	2.36E-01	1.55E+02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.50E-02	1.64E+01	2.61E-01	1.71E+02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.15E-02	NA	2-Methylnaphthalene	91576	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.42%	Plant 3 P3	1.65E-02	1.08E+01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.75E-03	1.15E+00	1.83E-02	1.20E+01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.02E-05	NA	Acenaphthylene	208968	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.31%	Plant 3 P3	4.39E-05	2.88E-02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	4.61E-06	3.02E-03	4.85E-05	3.18E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	4.30E-05	NA	Acenaphthene	83329	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	89.89%	Plant 3 P3	6.52E-05	4.27E-02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	6.67E-06	4.38E-03	7.19E-05	4.71E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.60E-04	NA	Fluorene	86737	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	89.16%	Plant 3 P3	2.60E-04	1.71E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.56E-05	1.68E-02	2.86E-04	1.87E-01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	2.20E-04	NA	Phenanthrene	85018	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	79.28%	Plant 3 P3	6.84E-04	4.48E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	5.93E-05	3.89E-02	7.43E-04	4.87E-01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	7.08E-05	NA	Anthracene	120127	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	79.28%	Plant 3 P3	2.20E-04	1.44E-01	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.91E-05	1.25E-02	2.39E-04	1.57E-01
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	9.00E-06	NA	Fluoranthene	206440	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	68.11%	Plant 3 P3	4.31E-05	2.82E-02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.09E-05	7.12E-03	5.39E-05	3.54E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.54E-06	NA	Pyrene	129000	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	67.23%	Plant 3 P3	1.74E-05	1.14E-02	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	5.88E-06	3.86E-03	2.33E-05	1.53E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	8.44E-07	NA	Benz(a)anthracene	56553	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.14%	Plant 3 P3	4.41E-06	2.89E-03	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.31E-05	8.62E-03	1.76E-05	1.15E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	1.84E-06	NA	Chrysene	218019	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.14%	Plant 3 P3	9.62E-06	6.31E-03	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.86E-05	1.88E-02	3.83E-05	2.51E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	5.34E-07	NA	Benzo(b)fluoranthene	205992	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.93%	Plant 3 P3	2.73E-06	1.79E-03	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.00E-06	1.31E-03	4.73E-06	3.10E-03
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Benzo(k)fluoranthene	207089	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%		Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Benzo(e)pyrene	192972	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%		Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	7.09E-07	NA	Benzo(a)pyrene	50328	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.00%	Plant 3 P3	3.72E-06	2.44E-03	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	2.43E-05	1.59E-02	2.80E-05	1.84E-02
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	3.52E-07	NA	Perylene	198550	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%	65.10%	Plant 3 P3	1.84E-06	1.21E-03	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	6.45E-06	4.23E-03	8.30E-06	5.44E-03
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Indeno(1,2,3-cd)pyrene	193395	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%		Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Dibenzo(a,h)anthracene	53703	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%		Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	ND	NA	Benzo(g,h,i)perylene	191242	PSC Source Test,[8] Table 8-3	A3/A7 Baghouse/prefilter/A8 carbon	99%		Plant 3 P3	0.00E+00	0.00E+00	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4, S19	Plant 3 S4, S19	Casting mold shake out + Pour Area	15	9,837	tons steel	NA	9.81E-11	NA	Total PCDD/PCDF	1086	BAAQMD Source Test[11] Table 6-2	A3/A7 Baghouse/prefilter/A8 carbon	99%	90.5%	Plant 3 P3	1.40E-10	9.17E-08	P3 Molding Room	0.0%	Roof vents - P3 Molding Room	1.49E-11	9.75E-09	1.55E-10	1.01E-07
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	4.40E-04	NA	Formaldehyde	50000	PSC Source Test[8] Table 8-11	A3/A7 Baghouse/prefilter/A8 carbon	75%	0%	Plant 3 P3	8.03E-03	1.06E+01	P3 Molding Room	0%	Roof vents - P3 Molding Room	2.68E-03	3.54E+00	1.07E-02	1.42E+01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	7.00E-05	NA	Acetaldehyde	75070	PSC Source Test[8] Table 8-11	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	1.21E-04	1.61E-01	P3 Molding Room	0%	Roof vents - P3 Molding Room	4.26E-04	5.64E-01	5.47E-04	7.24E-01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	2.45E-03	NA	Phenol	108952	PSC Source Test[8] Table 8-10	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	4.25E-03	5.62E+00	P3 Molding Room	0%	Roof vents - P3 Molding Room	1.49E-02	1.97E+01	1.92E-02	2.54E+01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	5.80E-05	NA	m,p-Cresol	108394	PSC Source Test[8] Table 8-10	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	1.01E-04	1.33E-01	P3 Molding Room	0%	Roof vents - P3 Molding Room	3.53E-04	4.67E-01	4.53E-04	6.00E-01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	2.18E-04	NA	o-Cresol	95487	PSC Source Test[8] Table 8-10	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	3.78E-04	5.00E-01	P3 Molding Room	0%	Roof vents - P3 Molding Room	1.33E-03	1.76E+00	1.70E-03	2.26E+00
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	2.76E-03	NA	Benzene	71432	PSC Source Test[8] Table 8-12	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	4.79E-03	6.34E+00	P3 Molding Room	0%	Roof vents - P3 Molding Room	1.68E-02	2.22E+01	2.16E-02	2.86E+01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	6.62E-05	NA	MDI	101688	PSC Source Test[8] Table 8-9	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	1.15E-04	1.52E-01	P3 Molding Room	0%	Roof vents - P3 Molding Room	4.03E-04	5.33E-01	5.17E-04	6.85E-01
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	1.26	1,970	pounds	1.00E+00	NA	NA	Isopropanol	67630	Based on PTO Limit for Coating Usage [13]	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	8.98E-02	1.40E+02	P3 Molding Room	0%	Roof vents - P3 Molding Room	3.15E-01	4.93E+02	4.05E-01	6.33E+02
Mold Mixing Area (S14/S18)	Plant 3 Mold Mixing Area (S14/S18)	Mold Mixing Area (S14/S18)	18.25	24,161	tons sand	NA	1.34E-03	NA	Naphthalene	91203	Based on phenol emission factor and ratio of naphthalene to phenol in S4/S19[14]	A3/A7 Baghouse/prefilter/A8 carbon	75%	90.5%	Plant 3 P3	2.32E-03	3.07E+00	P3 Molding Room	0%	Roof vents - P3 Molding Room	8.14E-03	1.08E+01	1.05E-02	1.38E+01
S5	Plant 3 S5	Blast table	10	4,427	tons steel	1.60E-07	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	6.86E-09	3.04E-06				0.00E+00	0.00E+00	6.86E-09	3.04E-06
S5	Plant 3 S5	Blast table	10	4,427	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5	Plant 3 S5	Blast table	10	4,427	tons steel	7.29E-08	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	3.13E-09	1.39E-06				0.00E+00	0.00E+00	3.13E-09	1.39E-06
S5	Plant 3 S5	Blast table	10	4,427	tons steel	6.33E-07	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	2.72E-08	1.21E-05				0.00E+00	0.00E+00	2.72E-08	1.21E-05
S5	Plant 3 S5	Blast table	10	4,427	tons steel	1.77E-06	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	7.61E-08	3.37E-05				0.00E+00	0.00E+00	7.61E-08	3.37E-05
S5	Plant 3 S5	Blast table	10	4,427	tons steel	1.53E-05	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	6.58E-07	2.92E-04				0.00E+00	0.00E+00	6.58E-07	2.92E-04
S5	Plant 3 S5	Blast table	10	4,427	tons steel	2.08E-05	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	8.95E-07	3.96E-04				0.00E+00	0.00E+00	8.95E-07	3.96E-04
S5	Plant 3 S5	Blast table	10	4,427	tons steel	1.51E-07	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	6.49E-09	2.87E-06				0.00E+00	0.00E+00	6.49E-09	2.87E-06
S5	Plant 3 S5	Blast table	10	4,427	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5	Plant 3 S5	Blast table	10	4,427	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5	Plant 3 S5	Blast table	10	4,427	tons steel	1.06E-05	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	4.54E-07	2.01E-04				0.00E+00	0.00E+00	4.54E-07	2.01E-04
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	1.60E-07	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	1.72E-09	3.04E-06				0.00E+00	0.00E+00	1.72E-09	3.04E-06
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	7.29E-08	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	7.84E-10	1.39E-06				0.00E+00	0.00E+00	7.84E-10	1.39E-06
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	6.33E-07	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	6.81E-09	1.21E-05				0.00E+00	0.00E+00	6.81E-09	1.21E-05
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	1.77E-06	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	1.90E-08	3.37E-05				0.00E+00	0.00E+00	1.90E-08	3.37E-05
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	1.53E-05	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	1.65E-07	2.92E-04				0.00E+00	0.00E+00	1.65E-07	2.92E-04
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	2.08E-05	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	2.24E-07	3.96E-04				0.00E+00	0.00E+00	2.24E-07	3.96E-04
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	1.51E-07	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	1.62E-09	2.87E-06				0.00E+00	0.00E+00	1.62E-09	2.87E-06
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
S6	Plant 3 S6	Tumble blast	2.5	4,427	tons steel	1.06E-05	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	A2/A6 Baghouse	100%	99.57%	Plant 3 P2	1.14E-07	2.01E-04				0.00E+00	0.00E+00	1.14E-07	2.01E-04

Table B.5.3: Plant 1603 COPC Emissions by Source
Page 2 of 3
Pacific Steel Casting Company
Berkeley, California

Sources			Throughput[1]			Emission Factors						Primary Emissions Calculation						Secondary Emissions Calculation					Total Emissions	
District Source List	Source ID	Source Description	Maximum Hourly	Annual	Throughput Unit	Uncontrolled Emission Factor-Upstream of Vent Inlet (lb/throughput unit)[2]	Uncontrolled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	Controlled Emission Factor-Downstream of Vent Inlet (lb/throughput unit)[2]	COPC	CAS Number	Basis for Emissions	Primary Capture Device/Area	Primary Capture Efficiency (%)[3]	Primary Control Efficiency (%)[4]	Primary Dischage Point	Max. Hourly Primary Stack Emissions (lb/hr)	Annual Avg. Primary Stack Emissions (lb/yr)	Secondary Capture Area	Seconday Control Efficiency	Secondary Discharge Point	Max. Hourly Secondary Stack Emissions (lb/hr)	Annual Avg. Secondary Stack Emissions (lb/yr)	Total Max. Hourly Emissions (lb/hr)	Total Annual Avg. Emissions (lb/yr)
Exempt-Heat Treat Furnaces	Plant 3 Exempt-Heat Treat Furnaces	Heat treat furnaces	12	98,445	therms	2.10E-07	NA	NA	Benzene	71432	AP-42, Section 1.4, Table 1.4-3[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	2.46E-06	2.07E-02				0.00E+00	0.00E+00	2.46E-06	2.07E-02
Exempt-Heat Treat Furnaces	Plant 3 Exempt-Heat Treat Furnaces	Heat treat furnaces	12	98,445	therms	7.52E-06	NA	NA	Formaldehyde	50000	AP-42, Section 1.4, Table 1.4-3[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	8.79E-05	7.38E-01				0.00E+00	0.00E+00	8.79E-05	7.38E-01
Exempt-Heat Treat Furnaces	Plant 3 Exempt-Heat Treat Furnaces	Heat treat furnaces	12	98,445	therms	3.40E-07	NA	NA	Toluene	108883	AP-42, Section 1.4, Table 1.4-3[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	3.98E-06	3.35E-02				0.00E+00	0.00E+00	3.98E-06	3.35E-02
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	8.25E-06	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	2.23E-05	7.30E-02				0.00E+00	0.00E+00	2.23E-05	7.30E-02
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	3.77E-06	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	1.02E-05	3.34E-02				0.00E+00	0.00E+00	1.02E-05	3.34E-02
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	3.27E-05	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	8.84E-05	2.90E-01				0.00E+00	0.00E+00	8.84E-05	2.90E-01
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	9.15E-05	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	2.47E-04	8.10E-01				0.00E+00	0.00E+00	2.47E-04	8.10E-01
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	7.91E-04	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	2.14E-03	7.01E+00				0.00E+00	0.00E+00	2.14E-03	7.01E+00
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	1.08E-03	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	2.90E-03	9.52E+00				0.00E+00	0.00E+00	2.90E-03	9.52E+00
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	7.80E-06	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	2.11E-05	6.91E-02				0.00E+00	0.00E+00	2.11E-05	6.91E-02
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Finishing	Plant 3 Exempt-Finishing	Cleaning and Grinding in Finishing Room	2.7	8,853	tons steel	5.46E-04	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	0%	Roof vents - P3 Finishing Room	1.47E-03	4.83E+00				0.00E+00	0.00E+00	1.47E-03	4.83E+00
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	4.85E-09	NA	NA	Arsenic	7440382	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	6.55E-09	2.15E-05				0.00E+00	0.00E+00	6.55E-09	2.15E-05
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Beryllium	7440417	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	2.22E-09	NA	NA	Cadmium	7440439	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	2.99E-09	9.81E-06				0.00E+00	0.00E+00	2.99E-09	9.81E-06
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	1.93E-08	NA	NA	Chromium, Total	7440473	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	2.60E-08	8.53E-05				0.00E+00	0.00E+00	2.60E-08	8.53E-05
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	1.69E-10	NA	NA	Chromium(VI)	18540299	Ratio to Chromium, total based on PSC Source Test[7,8] Tables 7-27 and 7-28	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	2.29E-10	7.50E-07				0.00E+00	0.00E+00	2.29E-10	7.50E-07
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	5.38E-08	NA	NA	Copper	7440508	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	7.26E-08	2.38E-04				0.00E+00	0.00E+00	7.26E-08	2.38E-04
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	4.66E-07	NA	NA	Lead	7439921	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	6.29E-07	2.06E-03				0.00E+00	0.00E+00	6.29E-07	2.06E-03
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	6.33E-07	NA	NA	Manganese	7439965	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	8.54E-07	2.80E-03				0.00E+00	0.00E+00	8.54E-07	2.80E-03
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	4.59E-09	NA	NA	Mercury	7439976	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	6.20E-09	2.03E-05				0.00E+00	0.00E+00	6.20E-09	2.03E-05
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Nickel	7440020	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	ND	NA	NA	Selenium	7782492	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	0.00E+00	0.00E+00				0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exempt-Arc Air Booth/Welding	Plant 3 Exempt-Arc Air Booth/Welding	Welding in Finishing Room	2.7	8,853	tons steel	3.21E-07	NA	NA	Zinc	7440666	PSC Source Test for Plant 703, S33-S40, Nov. 1989[5]	P3 Finishing Room	100%	50%	Roof vents - P3 Finishing Room	4.34E-07	1.42E-03				0.00E+00	0.00E+00	4.34E-07	1.42E-03

Table B.5.3: Plant 1603 COPC Emissions by Source

Pacific Steel Casting Company
Berkeley, California

NOTES:

(1) Throughput information:
Maximum hourly throughput based on limits set forth in BAAQMD permit to operate, except for the following:
Hourly for S13 through S24 (mold mixing area) based on the sum of maximum throughput of the new (3.25 tons per hour) and reclaimed (15 tons per hour) sand feeds.
Annual throughput based on "Plant #1603 Permit Update" submitted to BAAQMD by PSC on July 31, 2006, reports throughput from May 1, 2005 to April 30, 2006

(2) ND = COPC was not detected in all test runs. NA = not applicable

(3) Capture efficiency represents the percentage of emissions routed to primary capture device or area. Values based on analysis by T. Mitchell Engineers & Associates dated August 30, 2006 (included as Appendix A of the February 15, 2007 EIR) with certain modifications based on discussions with the BAAQMD or as mandated by the BAAQMD in the comments (included as Appendix F of the February 15, 2007 EIR) on the November 16, 2006 EIR.

(4) Control efficiency represents percent of mass emissions reduced by abatement device.
Baghouses:
Control efficiency for baghouses based on Plant 703 EAF baghouse inlet and outlet source test for particulate matter (PSC Source Test (8), Tables 7-26 and 7-29. As mandated by the BAAQMD, particulate control calculated as 99.57% for particulate-bound COPCs.
Activated Carbon Adsorbers:
Control efficiency for adsorbers assumed to be 90.5% for VOCs, based on data collected at the Plant 1603 carbon unit.
90.5% control efficiency used unless data from manufacturer suggest high frequency breakthrough. For example, 0% control used for formaldehyde.
Carbon adsorbers have particulate prefilters to prevent fouling of activated carbon, the prefilter has a control efficiency of 65% for particulates larger than 1 micron. The carbon adsorption unit will likely remove additional particulate, however, for this analysis it is conservatively assumed that no additional particulate removal will occur in the carbon unit.
For S4/S19, the source test was taken at a point after the baghouse, before the prefilter and carbon unit, therefore the control efficiency reflect the those of the prefilter and carbon units.

(5) Speciated metals emissions for S5 blast table and S6 tumbler blaster based on following:
Speciated metal emission factors (lb metal/tons steel) are estimated by multiplying the weight fraction of metals COPCs (metal/PM10) found in the testing for the finishing operations of P703, S33-S40 to arc-air booth PM10 emission factors (lb PM10/tons steel).
Speciated metal emission factors (lb metal/tons steel) are derived using following PM10 emission factors.

1.7	PM10 Emission factor (lb PM10/ton steel) for Casting Cleaning, AP-42, Chapter 12.13 Steel Foundries, January 1995, Table 12.13-2. Used to convert S33-S40 source test results into Metal/PM10 weight fraction [metal/PM10=unabated emission factor for S33-S40 (lb metal/tons steel) / PM10 emission factor (lb PM10/ton steel)]. Assume weight fractions between Plant 703 S33-S40 and Plant 187 are similar.
0.033	PM10 Emission factor (lb PM10/ton steel) for Abrasive Blasting with steel shots. Based on AP-42, Table 13.2.6-1, emission factor=(1.3 lb PM10/1000 lb steel shots) x (2000 lb/ 1 ton) x(112 tons steel shots/8853 tons steel casting). Steel shots and steel casting quantities based on Plant 1603 throughput from May 1, 2005 through April 30, Casting quantity based on 90% of EAF, assumes 10% lost to slag and pigs. Per AP-42 Chapter 13.2.6, assume PM10 from using shots equals 10% of using sand for abrasive blasting.
0.001	PM10 Emissions (lb/ton) from BAAQMD's PSC inventory data bank for Arc Air Booth. Used to convert metal weight fractions (metal/PM10) to uncontrolled metal emission factors (lb metal/tons steel).

COPC	Speciation profile (lb metal/lb PM10) From S33-40 Source Test	Uncontrolled Emission Factor for blast table and tumbler blast	Uncontrolled Emission Factor for arc air booth (lb metal/ton steel)
Arsenic	4.85E-06	1.60E-07	4.85E-09
Beryllium	ND	ND	ND
Cadmium	2.22E-06	7.29E-08	2.22E-09
Chromium, Total	1.93E-05	6.33E-07	1.93E-08
Copper	5.38E-05	1.77E-06	5.38E-08
Lead	4.66E-04	1.53E-05	4.66E-07
Manganese	6.33E-04	2.08E-05	6.33E-07
Mercury	4.59E-06	1.51E-07	4.59E-09
Nickel	ND	ND	ND
Selenium	ND	ND	ND
Zinc	3.21E-04	1.06E-05	3.21E-07

(6) Natural gas combustion emissions factors from AP-42, Chapter 1.4 Natural Gas Combustion, Table 1.4-3 "Emission Factors for Speciated Organic Compounds from Natural Gas Combustion." Upon BAAQMD request, emissions for benzene, toluene and formaldehyde were calculated.
Assumes 1 therm = 100 scf for natural gas

(7) As emissions of chromium (VI) were only measured in the Plant 703 EAF (Source 27), a separate analysis was conducted by GT Engineering (included as Appendix B of the February 15, 2007 EIR) to determine the potential for other sources of chromium (VI) in other operations at the facility. Based on that analysis, emissions of chromium (VI) are estimated for areas where molten steel is produced (i.e., in the EAF and welding operations). As mandated by the BAAQDM, the chromium (VI) emission factor is based on Plant 703 EAF source test data (inlet) using the chromium (VI) to chromium (total) ratio listed below (Note: this is an extremely conservative assumption for arc air welding processes as only portions of the cast are welded):

0.88%	chromium (VI)/chomium (total)

(8) BAAQMD Comments (dated October 18, 2006) on "Source Test Report 2005-2006 Emissions Source Tests Toxic Air Contaminants, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC dated August 30, 2006.

(9) As requested by the BAAQMD, emissions from the Plant 1603 EAF (Source 1) are based on source test of Plant 703 EAF (Source 27), scaled by a ratio of the filterable particulate matter measured at Plant 1603 EAF (Source 1) to that measured at Plant 703 EAF (Source 27)

0.008	Filterable particulate matter emission factor (lb/ton steel) at Plant 1603 EAF (Source 1) baghouse outlet, Table 1-2 of BAAQMD Comments (dated October 19, 2006) on "2006 Particulate Matter Tests, Plant 3 Electric Arc Furnace, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC dated August 24, 2006. Pacific Steel conducted this re-test because of the concern that the baghouse was not operating as it routinely does when initially tested in December 2005. Prior to the June 2006 source test, Pacific Steel performed and documented maintenance on the baghouse to address this concern.
0.051	Filterable particulate matter emission factor (lb/ton steel) at Plant 703 EAF (Source 27) baghouse outlet, Table 7-29(8)
0.16	Ratio

As discussed for the Plant 703 EAF (Source 27), if a specific metal was ND at the outlet of the baghouse but detected at the inlet of the baghouse, then the inlet value was used and the appropriate baghouse control efficiency applied, as recommended by the BAAQMD.

(10) On March 6-8, 2007, the BAAQMD conducted a source test to measure fugitive emissions from the EAF through roof vents in the meltshop. Emission factors developed from that source test were adjusted to incorporate the effects of the modification that will be made to the EAF control devices under the Future Controlled Conditions scenario. For the Current Operating Conditions scenario, the BAAQMD assumed a capture efficiency of 95% and with new modifications, the future capture efficiency is likely to be at least 99%. The fugitive emission factors were adjusted accordingly.

(11) From "Source Test Report 2006 Dioxin/Furan Emissions Tests, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC for BAAQMD dated July 14, 2006

This source test data was only used for Plant 1603 as the source test data is dependent on, and therefore only representative of, the materials used in Plant 1603. The sand molds and cores used in the other two Plants are prepared with binders and additives that are different than the ones used in Plant 1603. Plant 187 uses a green sand process where natural clay, corn starch, and water are used as binders to form the casting molds. Since no chemical binders are used, the source test for Plant 1603 would not be representative of operations at Plant 187. Plant 703 and 1603 use phenolic-type binders, however as shown in Appendix C, none of the same binders and additives are used at both plants. Appendix C also shows the chemical constituents of the binders and additives used in plants 703 and 1603 and there are only three chemicals – isopropanol, phenol and water – that are common to the binders and additives used at both plants. Because of different chemical composition of the binders and additives used at Plant 703, the source test of Plant 1603 would not likely be representative of the operations at Plant 703.

(12) BAAQMD Comments (dated October 19, 2006) on ""2006 Particulate Matter and Trace Metals Emissions Re-Tests, Plant 3 Cast Mold Pouring / Cooling / and Shakeout, Pacific Steel Casting Company, Berkeley, California" by Avogadro Group, LLC dated September 22, 2006.
From this source test, the BAAQMD deemed results for copper, lead and zinc to be anomolous and rejected their use in the EIR. For all other detected metals, the average emission factor for metals reported in (8) were averaged with the average emission factor reported in this source test (12) to develop the emission factor used in the EIR.

(13) Ceramol is the only coating used in S18 that contains IPA, at a maximum of 7% by weight. Based on facility records of Ceramol usage the total annual quantity of IPA in Ceramol is 1970 lbs/yr.
The maximum hourly value is based on the maximum over the reporting period of average daily usage (as calculated from monthly logs) divided by an 8 hour shift.

(14) As requested by the BAAQMD, since naphthalene was not measured at the mold mixing area, emissions were estimated based on measured phenol emissions in the mold mixing area and the ratio of phenol to naphthalene emissions measured at S4/19 pour area.

(15) The following permitted sources were not considered as potentiallly emitting COPCs.

Source	
S2	Ladle heater (out of service)
S7	New sand silo #1
S9	Sand cooler classifier
S10	Sand conditioning unit #1
S11	Sand conditioning unit #2
S12	Return sand bin #1
S13	Reclaimed sand bin #2
S15	Bucket elevator #1, new sand receiving
S16	Bucket elevator #2, returned sand
S17	Bucket elevator #3, reclaimed sand