Facility ID: 59-0174 Talos Engineered Products, LLC
Permit: 80073

Emmission Summary

		PTE Emission (tpy)						Actual Emissions (tpy)						Allowable Emission (tpy)					
	Unit	PM	SO2	CO	VOC	NOx	Single HAP	PM	SO2	CO	VOC	NOx	Single HAP	PM	SO2	CO	VOC	NOx	Single HAP
Source 01 (Solvent Base Surface Coating)	Booth	0.022			6.11		2.87	0.005			1.41		0.70	0.162			6.11		
Source 02 (Powder coating line)	Dry-off Oven	0.10	0.01	1.12	0.07	1.33		0.05	0.00	0.52	0.03	0.62		0.10	0.01	1.12	0.07	1.33	
	Booth 1	1.26						0.00						0.15					
	Booth 2	1.26						0.00						0.15					
	Booth 3	1.26						0.00						0.15					
	Cure Oven 1	0.10	0.01	1.12	0.07	1.33		0.05	0.00	0.52	0.03	0.62		0.10	0.01	1.12	0.07	1.33	
	Cure Oven 2	0.10	0.01	1.12	0.07	1.33		0.05	0.00	0.52	0.03	0.62		0.10	0.01	1.12	0.07	1.33	
Total (Source 2)		4.08	0.02	3.35	0.22	3.99		0.14	0.01	1.56	0.10	1.86		0.76	0.03	3.36	0.21	3.99	
Total (Facility)		4.11	0.02	3.35	6.33	3.99	2.87	0.15	0.01	1.56	1.51	1.86	0.70	0.92	0.03	3.36	6.32	3.99	

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Material	Solids %	VOC %	Density (lbs/gal)	Usage (Gal/day)	Usage (Gal/Month)	Filter Efficiency (%)	VOC (lbs/month)	VOC (lbs/yr)	Actual PM (lbs/hr)	Actual PM (tpy)	Xylene %	Xylene (lbs/yr)
Quick Dry Enamel Repose Gray	38.30	61.70	7.88	0.42	8.9	98.00%	43.27144	519.2573	0.000792	0.000808	25	210.396
Quick Dry Enamel RAL7035	38.30	61.70	7.88	0.39	8.3	98.00%	40.35427	484.2512	0.000736	0.00075	25	196.212
Quick Dry Enamel RAL9003	40.90	59.10	8.44	0	0	98.00%	0	0	0	0	25	0
Quick Dry Enamel RAL5003	36.40	63.60	7.7	0	0	98.00%	0	0	0	0	22	0
Quick Dry Enamel RAL5015	36.40	63.60	7.7	0.02	0.5	98.00%	2.4486	29.3832	3.5E-05	3.57E-05	25	11.55
Quick Dry Enamel RAL1023	39.10	60.90	7.66	0.16	3.3	98.00%	15.3943	184.7316	0.0003	0.000305	22	66.73392
Quick Dry Enamel Safety Yellow	39.10	60.90	7.66	0.24	5	98.00%	23.3247	279.8964	0.000449	0.000458	25	114.9
E61 Gray Primer	74.50	25.50	12.82	0.32	6.7	98.00%	21.90297	262.8356	0.00191	0.001948	1	10.30728
Xylene	0.00	100.00	7.17	0.44	9.2	98.00%	65.964	791.568	0	0	100	791.568
Acetone	0.00	100.00	6.59	0.16	3.3	98.00%	21.747	260.964	0	0	0	0
							Total:	2812.887	0.004222	0.004306		1401.667

Note: Xylene is the largest contributor to HAP emissions and exceeds 1000 lbs/yr making it a significant source of HAP
Calculations are based on the average monthly usage.

1200-03-07 Particulate Matter Calculator

		Units
Input:	0.017	lbs/hr
Emission Flow Rate (dscf/min):	216.5	CFM

New Source Input[1] (tons/hr):	8.44E-06
Emission Flow Rate (dscf/min):	216.5
Factor (3.59 or 17.31):	3.59
Exponent (0.62 or 0.16):	0.62

		Allowable Emissions (tons/yr):
Table 2 Emissions (lbs/hr):	0.002568	0.011247
Emissions (lbs/hr) at 0.02 grain per dscf:	0.037114	0.162561 <---
Emissions (lbs/hr) at 0.25 grain per dscf:	0.463929	2.032007

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							VOC		PM (Controlled)			Individual and Total HAP							
Material	Solids %	VOC %	Overspray %	Density (lbs/gal)	Usage (Gal/day)	Filter Efficiency %	PTE VOC (lbs/hr)	PTE VOC (tpy)	Solids (lbs/hr)	PTE PM (lbs/hr)	PTE PM (tpy)	Xylene %	Xylene (tpy)	Toluene	Ethylbenzene	98-82-8	91-20-3	108-10-1	PTE Total HAP (tpy)
Quick Dry Enamel Repose Gray	38.30	61.70	25.00	7.88	0.42	98%	0.255	1.118	0.003	0.001	0.003	25	0.453	24	5	0.3	0.3	0	0.989
Quick Dry Enamel RAL7035	38.30	61.70	25.00	7.88	0.39	98%	0.237	1.038	0.003	0.001	0.003	25	0.421	23	5	0.3	0.3	0	0.902
Quick Dry Enamel RAL9003	40.90	59.10	25.00	8.44	0	98%	0.000	0.000	0.000	0.000	0.000	25	0.000	23	5	0.3	0.3	0	0.000
Quick Dry Enamel RAL5003	36.40	63.60	25.00	7.7	0	98%	0.000	0.000	0.000	0.000	0.000	22	0.000	24	4	0.3	0.3	0	0.000
Quick Dry Enamel RAL5015	36.40	63.60	25.00	7.7	0.02	98%	0.012	0.054	0.000	0.000	0.000	25	0.021	25	5	0.3	0.3	0	0.047
Quick Dry Enamel RAL1023	39.10	60.90	25.00	7.66	0.16	98%	0.093	0.409	0.001	0.000	0.001	22	0.148	24	4.1	0.3	0	0	0.338
Quick Dry Enamel Safety Yellow	39.10	60.90	25.00	7.66	0.24	98%	0.140	0.613	0.002	0.000	0.002	25	0.252	22	5	0	0.3	0	0.526
E61 Gray Primer	74.50	25.50	25.00	12.82	0.32	98%	0.131	0.573	0.008	0.002	0.008	1	0.022	0	0.3	0.3	0	15	0.373
Xylene	0.00	100.00	25.00	7.17	0.44	98%	0.394	1.727	0.000	0.000	0.000	90	1.555	0.3	9.7	0	0	0	1.727
Acetone	0.00	100.00	25.00	6.59	0.16	98%	0.132	0.577	0.000	0.000	0.000	0	0.000	0	0	0	0	0	0.000
							Total:	6.109	0.0169	0.0042	0.0185		2.870967						4.903

Note: Xylene is the largest contributor to HAP emissions and exceeds 1000 lbs/yr making it a significant source of Individual HAP. The average daily usage data assumes 8 hours of operation. The annual PTE assumes 8760 hours of operation per year.

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Coating	Type	% Solids	% VOC	Overspray	Usage (lbs/day)	Average Usage (lbs/month)	Operating Hours (hr/day)	Usage (lbs/hr)	Usage (lbs/yr)	Usage (tons/yr)	PTE PM (lbs/hr)	PTE PM (tons/yr)	PTE PM (tons/yr)	PTE PM w/ 100% Settling (tons/yr)
Box Black	Powder	100%	0%	25%	0.1	3.3	16	0.00625	54.75	0.027375	0.001563	0.006844		
Flat Black	Powder	100%	0%	25%	3.4	103.8	16	0.2125	1861.5	0.93075	0.053125	0.232688		
Raven Texture I	Powder	100%	0%	25%	2.6	78.5	16	0.1625	1423.5	0.71175	0.040625	0.177938		
Satin Black	Powder	100%	0%	25%	0.8	25.7	16	0.05	438	0.219	0.0125	0.05475		
A. A. Tan	Powder	100%	0%	25%	0.1	4.2	16	0.00625	54.75	0.027375	0.001563	0.006844		
Big Country Blue	Powder	100%	0%	25%	1.4	42.6	16	0.0875	766.5	0.38325	0.021875	0.095813		
RAL 1023 GL SD	Powder	100%	0%	25%	1.8	56.1	16	0.1125	985.5	0.49275	0.028125	0.123188		
RAL 1033 GL SD	Powder	100%	0%	25%	0.3	7.9	16	0.01875	164.25	0.082125	0.004688	0.020531		
RAL 2010 GL SD	Powder	100%	0%	25%	0.7	21.7	16	0.04375	383.25	0.191625	0.010938	0.047906	3.78459375	0
RAL 5015 GL SD	Powder	100%	0%	25%	3.7	113.9	16	0.23125	2025.75	1.012875	0.057813	0.253219		
RAL 7001 GL SD	Powder	100%	0%	25%	0.4	13.3	16	0.025	219	0.1095	0.00625	0.027375		
RAL 7035 GL SD	Powder	100%	0%	25%	0.1	2.2	16	0.00625	54.75	0.027375	0.001563	0.006844		
ral 7042 Traffic Gray	Powder	100%	0%	25%	0.1	3.3	16	0.00625	54.75	0.027375	0.001563	0.006844		
SW 4084 Safety YLW	Powder	100%	0%	25%	0.2	6.7	16	0.0125	109.5	0.05475	0.003125	0.013688		
RAL 5015-HR	Powder	100%	0%	25%	0.3	10.1	16	0.01875	164.25	0.082125	0.004688	0.020531		
SW7015 REPOSE GRAY	Powder	100%	0%	25%	39.1	1190.4	16	2.44375	21407.25	10.70363	0.610938	2.675906		
QD F77AL7 REPOSE Gray	Powder	100%	0%	25%	0.2	6.2	16	0.0125	109.5	0.05475	0.003125	0.013688		

PTE particulate matter is calculated for the source (3 Spray booths). All powder coating operations take place in an enclosed environmental room. 100% settling is assumed.

1200-03-07 Particulate Matter Calculator

		Units
Input:	1.152	lbs/hr
Emission Flow Rate (dscf/min):		CFM

New Source Input[1] (tons/hr):	0.000576042	
Emission Flow Rate (dscf/min):	0	
Factor (3.59 or 17.31):	3.59	
Exponent (0.62 or 0.16):	0.62	
		Allowable Emissions (tons/yr):
Table 2 Emissions (lbs/hr):	0.035202691	0.154188 <---
Emissions (lbs/hr) at 0.02 grain per dscf:	0	0
Emissions (lbs/hr) at 0.25 grain per dscf:	0	0

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Heat Input (NG): 3.1 MMBtu/hr

Potential Emission from Natural Gas Combustion

Pollutant	Emission Factor* ($lb/10^6 ft^3$)	Heat Input (MMBTU/ hr)	=	Emissions (lb/hr)	Op. Time (hr/yr)	=	Potential Emissions (ton/yr)
PM	7.6	3.10	=	0.023	8760	=	0.101
SO_2	0.6	3.10	=	0.002	8760	=	0.008
CO	84	3.10	=	0.255	8760	=	1.118
VOC	5.5	3.10	=	0.017	8760	=	0.073
NO_x	100	3.10	=	0.304	8760	=	1.331

*** Emission Factors are from EPA AP-42, Chapter 1, Table 1.4-1 and Table 1.4-2**

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Facility Heat Input (NG): 3.1 MMBtu/hr Per oven (2)

Potential Emission from Natural Gas Combustion

Pollutant	Emission Factor* ($lb/10^6 ft^3$)	Heat Input (MMBTU/hr)	=	Emissions (lb/hr)	Op. Time (hr/yr)	=	Potential Emissions(ton/yr)
PM	7.6	3.10	=	0.023	8760	=	0.101
SO_2	0.6	3.10	=	0.002	8760	=	0.008
CO	84	3.10	=	0.255	8760	=	1.118
VOC	5.5	3.10	=	0.017	8760	=	0.073
NO_x	100	3.10	=	0.304	8760	=	1.331

*** Emission Factors are from EPA AP-42, Chapter 1, Table 1.4-1 and Table 1.4-2**