Arclin Surfaces - Dillon Plant
Construction Permit Application
Potential Emission Calculations

Criteria Pollutant Summary

Pollutant	CA-1		D-1		CA-2		D-2		CA-3		D-3		HB-1		HB-2		TO-1	
	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
Total PM	--	--	0.01	0.03	--	--	0.01	0.03	--	--	0.005	0.02	--	--	--	--	0.01	0.02
Total PM_{10}	--	--	0.01	0.03	--	--	0.01	0.03	--	--	0.005	0.02	--	--	--	--	0.01	0.02
Total $PM_{2.5}$	--	--	0.01	0.03	--	--	0.005	0.02	--	--	0.004	0.02	--	--	--	--	0.00	0.02
VOC	32.10	140.59	0.07	0.32	1.20	5.26	0.06	0.26	2.02	8.85	0.05	0.23	0.36	1.59	0.13	0.55	0.06	0.26
SO_2	--	--	0.01	0.04	--	--	0.01	0.03	--	--	0.006	0.03	--	--	--	--	0.01	0.03
NO_x	--	--	0.94	4.12	--	--	1.10	4.81	--	--	0.96	4.21	--	--	--	--	1.09	4.77
CO	--	--	1.13	4.94	--	--	0.92	4.04	--	--	0.81	3.53	--	--	--	--	0.91	4.00
CO_2e	--	--	1,604.24	7,026.58	--	--	1,311.50	5,744.36	--	--	1,147.56	5,026.31	--	--	--	--	1,299.79	5,693.07
		7029.451926	3.693627451	16.17808824	60.03	262.9314	3.019607843	13.22588235	101.08	442.7304	2.642156863	11.57264706	18.17425	79.603215	6.272375	27.4730025	2.992647059	13.10779412

Pollutant	CA-4		D-4		CA-5		D-5		CA-6		D-6		TO-2		MIX-1 (Revised)		SC-1		SC-2		Tanks		Total	
	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
Total PM	--	--	0.01	0.04	--	--	0.01	0.02	--	--	0.005	0.02	0.005	0.02	--	--	--	--	--	--	--	--	0.047	0.20
Total PM_{10}	--	--	0.01	0.04	--	--	0.01	0.02	--	--	0.005	0.02	0.005	0.02	--	--	--	--	--	--	--	--	0.047	0.20
Total $PM_{2.5}$	--	--	0.01	0.03	--	--	0.004	0.02	--	--	0.004	0.02	0.00	0.02	--	--	--	--	--	--	--	--	0.04	0.17
VOC	33.80	148.04	0.09	0.38	1.26	5.54	0.05	0.23	2.13	9.32	0.05	0.23	0.05	0.23	0.44	1.92	0.38	1.67	0.38	1.67	0.99	2.17	75.69	329.34
SO_2	--	--	0.01	0.04	--	--	0.01	0.03	--	--	0.006	0.03	0.01	0.03	--	--	--	--	--	--	--	--	0.05	0.24
NO_x	--	--	1.12	4.90	--	--	0.97	4.25	--	--	0.96	4.21	0.67	2.95	--	--	--	--	--	--	--	--	7.81	34.21
CO	--	--	1.34	5.88	--	--	0.82	3.57	--	--	0.81	3.53	0.81	3.53	--	--	--	--	--	--	--	--	7.54	33.04
CO_2e	--	--	1,604.24	7,026.58	--	--	1,311.50	5,744.36	--	--	1,147.56	5,026.31	1,147.56	5,026.31	--	--	--	--	--	--	--	--	10,573.94	46,313.88
	1689.957278	7402.012878	4.394607843	19.24838235	63.21159	276.8667642	2.669117647	11.69073529	106.43724	466.1951112	2.642156863	11.57264706	2.642156863	11.57264706	21.93550228	96.0775	19.07534247	83.55	19.07534247	83.55				

HAP/TAP Pollutant Summary

Pollutant	CA-1		D-1		CA-2		D-2		CA-3		D-3		HB-1		HB-2		TO-1	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
Acetaldehyde (H,T)	--	--	2.04E-07	1.79E-03	--	--	1.67E-07	1.46E-03	--	--	1.46E-07	1.28E-03	--	--	--	--	1.65E-07	1.45E-03
Acrolein (H,T)	--	--	2.42E-07	2.12E-03	--	--	1.98E-07	1.73E-03	--	--	1.73E-07	1.51E-03	--	--	--	--	1.96E-07	1.72E-03
Formaldehyde (H,T)	1.55E+00	1.36E+04	1.01E-03	8.82E+00	1.70E-01	1.49E+03	8.24E-04	7.21E+00	9.52E-02	8.34E+02	7.21E-04	6.31E+00	2.43E-03	2.13E+01	2.43E-03	2.13E+01	8.16E-04	7.15E+00
Benzo(a)pyrene (H,T)	--	--	1.61E-08	1.41E-04	--	--	1.32E-08	1.15E-04	--	--	1.15E-08	1.01E-04	--	--	--	--	1.31E-08	1.14E-04
Cobalt Compounds (H,T)	--	--	1.13E-06	9.88E-03	--	--	9.22E-07	8.08E-03	--	--	8.07E-07	7.07E-03	--	--	--	--	9.14E-07	8.01E-03
n-Hexane (H,T)	--	--	2.42E-02	2.12E+02	--	--	1.98E-02	1.73E+02	--	--	1.73E-02	1.51E+02	--	--	--	--	1.96E-02	1.72E+02
Naphthalene (H,T)	--	--	8.19E-06	7.18E-02	--	--	6.70E-06	5.87E-02	--	--	5.86E-06	5.13E-02	--	--	--	--	6.64E-06	5.82E-02
Phenol (H,T)	1.49E+00	1.30E+04	--	--	--	--	--	--	1.90E+00	1.67E+04	--	--	8.84E-02	7.75E+02	8.84E-02	7.75E+02	--	--
Selenium Compounds (H,T)	--	--	3.22E-07	2.82E-03	--	--	2.64E-07	2.31E-03	--	--	2.31E-07	2.02E-03	--	--	--	--	2.61E-07	2.29E-03
Toluene (H,T)	--	--	4.57E-05	4.00E-01	--	--	3.73E-05	3.27E-01	--	--	3.27E-05	2.86E-01	--	--	--	--	3.70E-05	3.24E-01
Polycyclic Organic Matter (H,T)	--	--	8.21E-06	7.19E-02	--	--	6.71E-06	5.88E-02	--	--	5.87E-06	5.14E-02	--	--	--	--	6.65E-06	5.83E-02
Lead Compounds (H)	--	--	6.72E-06	5.88E-02	--	--	5.49E-06	4.81E-02	--	--	4.80E-06	4.21E-02	--	--	--	--	5.44E-06	4.77E-02
Arsenic Compounds (H,T)	--	--	2.69E-06	2.35E-02	--	--	2.20E-06	1.92E-02	--	--	1.92E-06	1.68E-02	--	--	--	--	2.18E-06	1.91E-02
Beryllium Metal (H,T)	--	--	1.61E-07	1.41E-03	--	--	1.32E-07	1.15E-03	--	--	1.15E-07	1.01E-03	--	--	--	--	1.31E-07	1.14E-03
Cadmium Metal (H,T)	--	--	1.48E-05	1.29E-01	--	--	1.21E-05	1.06E-01	--	--	1.06E-05	9.26E-02	--	--	--	--	1.20E-05	1.05E-01
Chromic Acid VI (H,T)	--	--	1.88E-05	1.65E-01	--	--	1.54E-05	1.35E-01	--	--	1.35E-05	1.18E-01	--	--	--	--	1.52E-05	1.33E-01
Vinyl Acetate (H,T)	--	--	--	--	--	--	--	--	2.52E-02	2.21E+02	--	--	2.71E-01	2.38E+03	2.71E-01	2.38E+03	--	--
Manganese Compounds (H,T)	--	--	5.10E-06	4.47E-02	--	--	4.17E-06	3.66E-02	--	--	3.65E-06	3.20E-02	--	--	--	--	4.14E-06	3.62E-02
Mercury (H,T)	--	--	3.49E-06	3.06E-02	--	--	2.85E-06	2.50E-02	--	--	2.50E-06	2.19E-02	--	--	--	--	2.83E-06	2.48E-02
Nickel Metal (H,T)	--	--	2.82E-05	2.47E-01	--	--	2.31E-05	2.02E-01	--	--	2.02E-05	1.77E-01	--	--	--	--	2.29E-05	2.00E-01
Methanol (H,T)	2.91E+01	2.55E+05	--	--	1.03E+00	9.03E+03	--	--	--	--	--	--	1.39E-03	1.22E+01	1.39E-03	1.22E+01	--	--
Benzene (H,T)	--	--	2.82E-05	2.47E-01	--	--	2.31E-05	2.02E-01	--	--	2.02E-05	1.77E-01	--	--	--	--	2.29E-05	2.00E-01
Total HAP																		
Total TAP																		

Pollutant	CA-4		D-4		CA-5		D-5		CA-6		D-6		TO-2		MIX-1 (Revised)		SC-1		SC-2		Tanks		Total	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
Acetaldehyde (H,T)	--	--	2.43E-07	2.13E-03	--	--	1.48E-07	1.29E-03	--	--	1.46E-07	1.28E-03	1.46E-07	1.28E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	1.37E-06	1.20E-02
Acrolein (H,T)	--	--	2.88E-07	2.52E-03	--	--	1.75E-07	1.53E-03	--	--	1.73E-07	1.51E-03	1.73E-07	1.51E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	1.62E-06	1.42E-02
Formaldehyde (H,T)	1.63E+00	1.43E+04	1.20E-03	1.05E+01	1.79E-01	1.57E+03	7.28E-04	6.38E+00	1.00E-01	8.78E+02	7.21E-04	6.31E+00	7.21E-04	6.31E+00	3.40E-01	2.97E+03	--	--	--	--	3.48E-02	1.52E+02	4.11E+00	3.58E+04
Benzo(a)pyrene (H,T)	--	--	1.92E-08	1.68E-04	--	--	1.16E-08	1.02E-04	--	--	1.15E-08	1.01E-04	1.15E-08	1.01E-04	--	--	--	--	--	--	0.00E+00	0.00E+00	1.08E-07	9.44E-04
Cobalt Compounds (H,T)	--	--	1.34E-06	1.18E-02	--	--	8.15E-07	7.14E-03	--	--	8.07E-07	7.07E-03	8.07E-07	7.07E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	7.54E-06	6.61E-02
n-Hexane (H,T)	--	--	2.88E-02	2.52E+02	--	--	1.75E-02	1.53E+02	--	--	1.73E-02	1.51E+02	1.73E-02	1.51E+02	--	--	--	--	--	--	0.00E+00	0.00E+00	1.62E-01	1.42E+03
Naphthalene (H,T)	--	--	9.75E-06	8.54E-02	--	--	5.92E-06	5.19E-02	--	--	5.86E-06	5.13E-02	5.86E-06	5.13E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	5.48E-05	4.80E-01
Phenol (H,T)	1.57E+00	1.37E+04	--	--	--	--	--	--	2.00E+00	1.75E+04	--	--	--	--	2.26E-02	1.98E+02	--	--	--	--	8.89E-02	3.90E+02	7.25E+00	6.31E+04
Selenium Compounds (H,T)	--	--	3.84E-07	3.36E-03	--	--	2.33E-07	2.04E-03	--	--	2.31E-07	2.02E-03	2.31E-07	2.02E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	2.16E-06	1.89E-02
Toluene (H,T)	--	--	5.43E-05	4.76E-01	--	--	3.30E-05	2.89E-01	--	--	3.27E-05	2.86E-01	3.27E-05	2.86E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	3.05E-04	2.67E+00
Polycyclic Organic Matter (H,T)	--	--	9.77E-06	8.56E-02	--	--	5.93E-06	5.20E-02	--	--	5.87E-06	5.14E-02	5.87E-06	5.14E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	5.49E-05	4.81E-01
Lead Compounds (H)	--	--	7.99E-06	7.00E-02	--	--	4.85E-06	4.25E-02	--	--	4.80E-06	4.21E-02	4.80E-06	4.21E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	4.49E-05	3.93E-01
Arsenic Compounds (H,T)	--	--	3.20E-06	2.80E-02	--	--	1.94E-06	1.70E-02	--	--	1.92E-06	1.68E-02	1.92E-06	1.68E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	1.80E-05	1.57E-01
Beryllium Metal (H,T)	--	--	1.92E-07	1.68E-03	--	--	1.16E-07	1.02E-03	--	--	1.15E-07	1.01E-03	1.15E-07	1.01E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	1.08E-06	9.44E-03
Cadmium Metal (H,T)	--	--	1.76E-05	1.54E-01	--	--	1.07E-05	9.35E-02	--	--	1.06E-05	9.26E-02	1.06E-05	9.26E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	9.88E-05	8.65E-01
Chromic Acid VI (H,T)	--	--	2.24E-05	1.96E-01	--	--	1.36E-05	1.19E-01	--	--	1.35E-05	1.18E-01	1.35E-05	1.18E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	1.26E-04	1.10E+00
Vinyl Acetate (H,T)	--	--	--	--	--	--	--	--	2.65E-02	2.32E+02	--	--	--	--	--	--	--	--	--	--	0.00E+00	0.00E+00	5.94E-01	5.21E+03
Manganese Compounds (H,T)	--	--	6.07E-06	5.32E-02	--	--	3.69E-06	3.23E-02	--	--	3.65E-06	3.20E-02	3.65E-06	3.20E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	3.41E-05	2.99E-01
Mercury (H,T)	--	--	4.15E-06	3.64E-02	--	--	2.52E-06	2.21E-02	--	--	2.50E-06	2.19E-02	2.50E-06	2.19E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	2.33E-05	2.05E-01
Nickel Metal (H,T)	--	--	3.36E-05	2.94E-01	--	--	2.04E-05	1.79E-01	--	--	2.02E-05	1.77E-01	2.02E-05	1.77E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	1.89E-04	1.65E+00
Methanol (H,T)	3.06E+01	2.68E+05	--	--	1.09E+00	9.50E+03	--	--	--	--	--	--	--	--	7.65E-02	6.70E+02	3.82E-01	3.34E+03	3.82E-01	3.34E+03	8.68E-01	3.80E+03	6.35E+01	5.52E+05
Benzene (H,T)	--	--	3.36E-05	2.94E-01	--	--	2.04E-05	1.79E-01	--	--	2.02E-05	1.77E-01	2.02E-05	1.77E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	1.89E-04	1.65E+00
Total HAP																							**75.60**	**657,932.97**
Total TAP																							**75.60**	**657,932.57**

Legacy MDO

Criteria Pollutant Summary

Pollutant	CA-1		D-1		CA-2		D-2		CA-3		D-3		HB-1		HB-2		TO-1		CA-4	
	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
Total PM	--	--	0.01	0.03	--	--	0.01	0.03	--	--	0.005	0.02	--	--	--	--	0.01	0.02	--	--
Total PM_{10}	--	--	0.01	0.03	--	--	0.01	0.03	--	--	0.005	0.02	--	--	--	--	0.01	0.02	--	--
Total $PM_{2.5}$	--	--	0.01	0.03	--	--	0.005	0.02	--	--	0.004	0.02	--	--	--	--	0.00	0.02	--	--
VOC	53.28	233.34	0.07	0.32	2.42	10.60	0.06	0.26	12.76	55.88	0.05	0.23	0.13	0.55	0.13	0.55	0.06	0.26	54.66	239.41
SO_2	--	--	0.01	0.04	--	--	0.01	0.03	--	--	0.006	0.03	--	--	--	--	0.01	0.03	--	--
NO_x	--	--	0.94	4.12	--	--	1.10	4.81	--	--	0.96	4.21	--	--	--	--	1.09	4.77	--	--
CO	--	--	1.13	4.94	--	--	0.92	4.04	--	--	0.81	3.53	--	--	--	--	0.91	4.00	--	--
CO_2e	--	--	1,604.24	7,026.58	--	--	1,311.50	5,744.36	--	--	1,147.56	5,026.31	--	--	--	--	1,299.79	5,693.07	--	--

Pollutant	D-4		CA-5		D-5		CA-6		D-6		TO-2		MIX-1 Legacy MDO		SC-1		SC-2		Tanks		Total	
	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
Total PM	0.01	0.04	--	--	0.01	0.02	--	--	0.005	0.02	0.005	0.02	--	--	--	--	--	--	--	--	0.047	0.20
Total PM_{10}	0.01	0.04	--	--	0.01	0.02	--	--	0.005	0.02	0.005	0.02	--	--	--	--	--	--	--	--	0.047	0.20
Total $PM_{2.5}$	0.01	0.03	--	--	0.004	0.02	--	--	0.004	0.02	0.00	0.02	--	--	--	--	--	--	--	--	0.04	0.17
VOC	0.09	0.38	2.48	10.87	0.05	0.23	13.09	57.33	0.05	0.23	0.05	0.23	0.55	2.39	0.38	1.67	0.38	1.67	1.02	2.23	141.75	618.64
SO_2	0.01	0.04	--	--	0.01	0.03	--	--	0.006	0.03	0.01	0.03	--	--	--	--	--	--	--	--	0.05	0.24
NO_x	1.12	4.90	--	--	0.97	4.25	--	--	0.96	4.21	0.67	2.95	--	--	--	--	--	--	--	--	65.58	287.25
CO	1.34	5.88	--	--	0.82	3.57	--	--	0.81	3.53	0.81	3.53	--	--	--	--	--	--	--	--	7.54	33.04
CO_2e	1,604.24	7,026.58	--	--	1,311.50	5,744.36	--	--	1,147.56	5,026.31	1,147.56	5,026.31	--	--	--	--	--	--	--	--	10,573.94	46,313.88

HAP/TAP Pollutant Summary

Pollutant	CA-1		D-1		CA-2		D-2		CA-3		D-3		HB-1		HB-2		TO-1		CA-4	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
Acetaldehyde (H,T)	--	--	2.04E-07	1.79E-03	--	--	1.67E-07	1.46E-03	--	--	1.46E-07	1.28E-03	--	--	--	--	1.65E-07	1.45E-03	--	--
Acrolein (H,T)	--	--	2.42E-07	2.12E-03	--	--	1.98E-07	1.73E-03	--	--	1.73E-07	1.51E-03	--	--	--	--	1.96E-07	1.72E-03	--	--
Formaldehyde (H,T)	2.61E+00	2.29E+04	1.01E-03	8.82E+00	--	--	8.24E-04	7.21E+00	8.62E-02	7.55E+02	7.21E-04	6.31E+00	2.43E-03	2.13E+01	2.43E-03	2.13E+01	8.16E-04	7.15E+00	2.68E+00	2.35E+04
Benzo(a)pyrene (H,T)	--	--	1.61E-08	1.41E-04	--	--	1.32E-08	1.15E-04	--	--	1.15E-08	1.01E-04	--	--	--	--	1.31E-08	1.14E-04	--	--
Cobalt Compounds (H,T)	--	--	1.13E-06	9.88E-03	--	--	9.22E-07	8.08E-03	--	--	8.07E-07	7.07E-03	--	--	--	--	9.14E-07	8.01E-03	--	--
n-Hexane (H,T)	--	--	2.42E-02	2.12E+02	--	--	1.98E-02	1.73E+02	--	--	1.73E-02	1.51E+02	--	--	--	--	1.96E-02	1.72E+02	--	--
Naphthalene (H,T)	--	--	8.19E-06	7.18E-02	--	--	6.70E-06	5.87E-02	--	--	5.86E-06	5.13E-02	--	--	--	--	6.64E-06	5.82E-02	--	--
Phenol (H,T)	1.22E+00	1.07E+04	--	--	--	--	--	--	3.10E+00	2.72E+04	--	--	8.84E-02	7.75E+02	8.84E-02	7.75E+02	--	--	1.25E+00	1.10E+04
Selenium Compounds (H,T)	--	--	3.22E-07	2.82E-03	--	--	2.64E-07	2.31E-03	--	--	2.31E-07	2.02E-03	--	--	--	--	2.61E-07	2.29E-03	--	--
Toluene (H,T)	--	--	4.57E-05	4.00E-01	--	--	3.73E-05	3.27E-01	--	--	3.27E-05	2.86E-01	--	--	--	--	3.70E-05	3.24E-01	--	--
Polycyclic Organic Matter (H,T)	--	--	8.21E-06	7.19E-02	--	--	6.71E-06	5.88E-02	--	--	5.87E-06	5.14E-02	--	--	--	--	6.65E-06	5.83E-02	--	--
Lead Compounds (H)	--	--	6.72E-06	5.88E-02	--	--	5.49E-06	4.81E-02	--	--	4.80E-06	4.21E-02	--	--	--	--	5.44E-06	4.77E-02	--	--
Arsenic Compounds (H,T)	--	--	2.69E-06	2.35E-02	--	--	2.20E-06	1.92E-02	--	--	1.92E-06	1.68E-02	--	--	--	--	2.18E-06	1.91E-02	--	--
Beryllium Metal (H,T)	--	--	1.61E-07	1.41E-03	--	--	1.32E-07	1.15E-03	--	--	1.15E-07	1.01E-03	--	--	--	--	1.31E-07	1.14E-03	--	--
Cadmium Metal (H,T)	--	--	1.48E-05	1.29E-01	--	--	1.21E-05	1.06E-01	--	--	1.06E-05	9.26E-02	--	--	--	--	1.20E-05	1.05E-01	--	--
Chromic Acid VI (H,T)	--	--	1.88E-05	1.65E-01	--	--	1.54E-05	1.35E-01	--	--	1.35E-05	1.18E-01	--	--	--	--	1.52E-05	1.33E-01	--	--
Vinyl Acetate (H,T)	--	--	--	--	--	--	--	--	9.52E+00	8.34E+04	--	--	2.71E-01	2.38E+03	2.71E-01	2.38E+03	--	--	--	--
Manganese Compounds (H,T)	--	--	5.10E-06	4.47E-02	--	--	4.17E-06	3.66E-02	--	--	3.65E-06	3.20E-02	--	--	--	--	4.14E-06	3.62E-02	--	--
Mercury (H,T)	--	--	3.49E-06	3.06E-02	--	--	2.85E-06	2.50E-02	--	--	2.50E-06	2.19E-02	--	--	--	--	2.83E-06	2.48E-02	--	--
Nickel Metal (H,T)	--	--	2.82E-05	2.47E-01	--	--	2.31E-05	2.02E-01	--	--	2.02E-05	1.77E-01	--	--	--	--	2.29E-05	2.00E-01	--	--
Methanol (H,T)	4.94E+01	4.33E+05	--	--	--	--	--	--	4.74E-02	4.15E+02	--	--	1.39E-03	1.22E+01	1.39E-03	1.22E+01	--	--	5.07E+01	4.44E+05
Benzene (H,T)	--	--	2.82E-05	2.47E-01	--	--	2.31E-05	2.02E-01	--	--	2.02E-05	1.77E-01	--	--	--	--	2.29E-05	2.00E-01	--	--
Total HAP																			54.66	
Total TAP																				

Pollutant	D-4		CA-5		D-5		CA-6		D-6		TO-2		MIX-1 Legacy MDO		SC-1		SC-2		Tanks		Total	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
Acetaldehyde (H,T)	2.43E-07	2.13E-03	--	--	1.48E-07	1.29E-03	--	--	1.46E-07	1.28E-03	1.46E-07	1.28E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	1.37E-06	1.20E-02
Acrolein (H,T)	2.88E-07	2.52E-03	--	--	1.75E-07	1.53E-03	--	--	1.73E-07	1.51E-03	1.73E-07	1.51E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	1.62E-06	1.42E-02
Formaldehyde (H,T)	1.20E-03	1.05E+01	--	--	7.28E-04	6.38E+00	8.85E-02	7.75E+02	7.21E-04	6.31E+00	7.21E-04	6.31E+00	8.16E-04	7.14E+00	--	--	--	--	3.54E-02	1.54E+02	5.52E+00	4.82E+04
Benzo(a)pyrene (H,T)	1.92E-08	1.68E-04	--	--	1.16E-08	1.02E-04	--	--	1.15E-08	1.01E-04	1.15E-08	1.01E-04	--	--	--	--	--	--	0.00E+00	0.00E+00	1.08E-07	9.44E-04
Cobalt Compounds (H,T)	1.34E-06	1.18E-02	--	--	8.15E-07	7.14E-03	--	--	8.07E-07	7.07E-03	8.07E-07	7.07E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	7.54E-06	6.61E-02
n-Hexane (H,T)	2.88E-02	2.52E+02	--	--	1.75E-02	1.53E+02	--	--	1.73E-02	1.51E+02	1.73E-02	1.51E+02	--	--	--	--	--	--	0.00E+00	0.00E+00	1.62E-01	1.42E+03
Naphthalene (H,T)	9.75E-06	8.54E-02	--	--	5.92E-06	5.19E-02	--	--	5.86E-06	5.13E-02	5.86E-06	5.13E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	5.48E-05	4.80E-01
Phenol (H,T)	--	--	--	--	--	--	3.18E+00	2.79E+04	--	--	--	--	3.86E-07	3.38E-03	--	--	--	--	8.89E-02	3.90E+02	9.03E+00	7.87E+04
Selenium Compounds (H,T)	3.84E-07	3.36E-03	--	--	2.33E-07	2.04E-03	--	--	2.31E-07	2.02E-03	2.31E-07	2.02E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	2.16E-06	1.89E-02
Toluene (H,T)	5.43E-05	4.76E-01	--	--	3.30E-05	2.89E-01	--	--	3.27E-05	2.86E-01	3.27E-05	2.86E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	3.05E-04	2.67E+00
Polycyclic Organic Matter (H,T)	9.77E-06	8.56E-02	--	--	5.93E-06	5.20E-02	--	--	5.87E-06	5.14E-02	5.87E-06	5.14E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	5.49E-05	4.81E-01
Lead Compounds (H)	7.99E-06	7.00E-02	--	--	4.85E-06	4.25E-02	--	--	4.80E-06	4.21E-02	4.80E-06	4.21E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	4.49E-05	3.93E-01
Arsenic Compounds (H,T)	3.20E-06	2.80E-02	--	--	1.94E-06	1.70E-02	--	--	1.92E-06	1.68E-02	1.92E-06	1.68E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	1.80E-05	1.57E-01
Beryllium Metal (H,T)	1.92E-07	1.68E-03	--	--	1.16E-07	1.02E-03	--	--	1.15E-07	1.01E-03	1.15E-07	1.01E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	1.08E-06	9.44E-03
Cadmium Metal (H,T)	1.76E-05	1.54E-01	--	--	1.07E-05	9.35E-02	--	--	1.06E-05	9.26E-02	1.06E-05	9.26E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	9.88E-05	8.65E-01
Chromic Acid VI (H,T)	2.24E-05	1.96E-01	--	--	1.36E-05	1.19E-01	--	--	1.35E-05	1.18E-01	1.35E-05	1.18E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	1.26E-04	1.10E+00
Vinyl Acetate (H,T)	--	--	--	--	--	--	9.77E+00	8.56E+04	--	--	--	--	2.66E-01	2.33E+03	--	--	--	--	0.00E+00	0.00E+00	2.01E+01	1.76E+05
Manganese Compounds (H,T)	6.07E-06	5.32E-02	--	--	3.69E-06	3.23E-02	--	--	3.65E-06	3.20E-02	3.65E-06	3.20E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	3.41E-05	2.99E-01
Mercury (H,T)	4.15E-06	3.64E-02	--	--	2.52E-06	2.21E-02	--	--	2.50E-06	2.19E-02	2.50E-06	2.19E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	2.33E-05	2.05E-01
Nickel Metal (H,T)	3.36E-05	2.94E-01	--	--	2.04E-05	1.79E-01	--	--	2.02E-05	1.77E-01	2.02E-05	1.77E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	1.89E-04	1.65E+00
Methanol (H,T)	--	--	--	--	--	--	4.87E-02	4.26E+02	--	--	--	--	2.79E-01	2.45E+03	4.61E-01	4.04E+03	4.61E-01	4.04E+03	8.92E-01	3.85E+03	1.02E+02	8.93E+05
Benzene (H,T)	3.36E-05	2.94E-01	--	--	2.04E-05	1.79E-01	--	--	2.02E-05	1.77E-01	2.02E-05	1.77E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	1.89E-04	1.65E+00
Total HAP																					**137.16**	**1,197,023.08**
Total TAP																					**137.16**	**1,197,022.68**

Next Generation MDO

Criteria Pollutant Summary

Pollutant	CA-1		D-1		CA-2		D-2		CA-3		D-3		HB-1		HB-2		TO-1		CA-4		D-4		CA-5		D-5		CA-6		D-6		TO-2		MIX-1 (Revised)		SC-1		SC-2		Tanks		Total	
	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
Total PM	--	--	0.01	0.03	--	--	0.01	0.03	--	--	0.00	0.02	--	--	--	--	0.01	0.02	--	--	0.01	0.04	--	--	0.01	0.02	--	--	0.00	0.02	0.00	0.02	--	--	--	--	--	--	--	--	0.047	0.20
Total PM_{10}	--	--	0.01	0.03	--	--	0.01	0.03	--	--	0.00	0.02	--	--	--	--	0.01	0.02	--	--	0.01	0.04	--	--	0.01	0.02	--	--	0.00	0.02	0.00	0.02	--	--	--	--	--	--	--	--	0.047	0.20
Total $PM_{2.5}$	--	--	0.01	0.03	--	--	0.00	0.02	--	--	0.00	0.02	--	--	--	--	0.00	0.02	--	--	0.01	0.03	--	--	0.00	0.02	--	--	0.00	0.02	0.00	0.02	--	--	--	--	--	--	--	--	0.04	0.17
VOC	42.08	184.31	0.07	0.32	1.48	6.50	0.06	0.26	7.99	34.98	0.05	0.23	0.36	1.59	0.36	1.59	0.06	0.26	29.72	130.19	0.09	0.38	1.53	6.68	0.05	0.23	8.55	37.44	0.05	0.23	0.05	0.23	0.36	1.57	0.38	1.67	0.38	1.67	0.99	2.17	94.68	412.53
SO_2	--	--	0.01	0.04	--	--	0.01	0.03	--	--	0.01	0.03	--	--	--	--	0.01	0.03	--	--	0.01	0.04	--	--	0.01	0.03	--	--	0.01	0.03	0.01	0.03	--	--	--	--	--	--	--	--	0.05	0.24
NO_x	--	--	0.94	4.12	--	--	1.10	4.81	--	--	0.96	4.21	--	--	--	--	1.09	4.77	--	--	1.12	4.90	--	--	0.97	4.25	--	--	0.96	4.21	0.67	2.95	--	--	--	--	--	--	--	--	7.81	34.21
CO	--	--	1.13	4.94	--	--	0.92	4.04	--	--	0.81	3.53	--	--	--	--	0.91	4.00	--	--	1.34	5.88	--	--	0.82	3.57	--	--	0.81	3.53	0.81	3.53	--	--	--	--	--	--	--	--	7.54	33.04
CO_2e	--	--	1,604.24	7,026.58	--	--	1,311.50	5,744.36	--	--	1,147.56	5,026.31	--	--	--	--	1,299.79	5,693.07	--	--	1,604.24	7,026.58	--	--	1,311.50	5,744.36	--	--	1,147.56	5,026.31	1,147.56	5,026.31	--	--	--	--	--	--	--	--	10,573.94	46,313.88
		9215.466379	3.693627451	16.17808824	74.247075	325.2021885	3.019607843	13.22588235	399.2882884	1748.882703	2.642156863	11.57264706	18.17425	79.603215	18.17425	79.603215	2.992647059	13.10779412	1486.199145	6509.552255	4.394607843	19.24838235	76.28523	334.1293074	2.669117647	11.69073529	427.3875	1871.95725	2.642156863	11.57264706	2.642156863	11.57264706	17.897114	78.37085969	19.07534247	83.55	19.07534247	83.55				

HAP/TAP Pollutant Summary

Pollutant	CA-1		D-1		CA-2		D-2		CA-3		D-3		HB-1		HB-2		TO-1		CA-4		D-4		CA-5		D-5		CA-6		D-6		TO-2		MIX-1 (Revised)		SC-1		SC-2		Tanks		Total	
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
Acetaldehyde (H,T)	--	--	2.04E-07	1.79E-03	--	--	1.67E-07	1.46E-03	--	--	1.46E-07	1.28E-03	--	--	--	--	1.65E-07	1.45E-03	--	--	2.43E-07	2.13E-03	--	--	1.48E-07	1.29E-03	--	--	1.46E-07	1.28E-03	1.46E-07	1.28E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	1.37E-06	1.20E-02
Acrolein (H,T)	--	--	2.42E-07	2.12E-03	--	--	1.98E-07	1.73E-03	--	--	1.73E-07	1.51E-03	--	--	--	--	1.96E-07	1.72E-03	--	--	2.88E-07	2.52E-03	--	--	1.75E-07	1.53E-03	--	--	1.73E-07	1.51E-03	1.73E-07	1.51E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	1.62E-06	1.42E-02
Formaldehyde (H,T)	1.60E+00	1.40E+04	1.01E-03	8.82E+00	--	--	8.24E-04	7.21E+00	4.64E-02	4.07E+02	7.21E-04	6.31E+00	2.43E-03	2.13E+01	2.43E-03	2.13E+01	8.16E-04	7.15E+00	1.91E+00	1.68E+04	1.20E-03	1.05E+01	--	--	7.28E-04	6.38E+00	6.29E-02	5.51E+02	7.21E-04	6.31E+00	7.21E-04	6.31E+00	4.58E-04	4.01E+00	--	--	--	--	3.48E-02	1.52E+02	3.67E+00	3.20E+04
Benzo(a)pyrene (H,T)	--	--	1.61E-08	1.41E-04	--	--	1.32E-08	1.15E-04	--	--	1.15E-08	1.01E-04	--	--	--	--	1.31E-08	1.14E-04	--	--	1.92E-08	1.68E-04	--	--	1.16E-08	1.02E-04	--	--	1.15E-08	1.01E-04	1.15E-08	1.01E-04	--	--	--	--	--	--	0.00E+00	0.00E+00	1.08E-07	9.44E-04
Cobalt Compounds (H,T)	--	--	1.13E-06	9.88E-03	--	--	9.22E-07	8.08E-03	--	--	8.07E-07	7.07E-03	--	--	--	--	9.14E-07	8.01E-03	--	--	1.34E-06	1.18E-02	--	--	8.15E-07	7.14E-03	--	--	8.07E-07	7.07E-03	8.07E-07	7.07E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	7.54E-06	6.61E-02
n-Hexane (H,T)	--	--	2.42E-02	2.12E+02	--	--	1.98E-02	1.73E+02	--	--	1.73E-02	1.51E+02	--	--	--	--	1.96E-02	1.72E+02	--	--	2.88E-02	2.52E+02	--	--	1.75E-02	1.53E+02	--	--	1.73E-02	1.51E+02	1.73E-02	1.51E+02	--	--	--	--	--	--	0.00E+00	0.00E+00	1.62E-01	1.42E+03
Naphthalene (H,T)	--	--	8.19E-06	7.18E-02	--	--	6.70E-06	5.87E-02	--	--	5.86E-06	5.13E-02	--	--	--	--	6.64E-06	5.82E-02	--	--	9.75E-06	8.54E-02	--	--	5.92E-06	5.19E-02	--	--	5.86E-06	5.13E-02	5.86E-06	5.13E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	5.48E-05	4.80E-01
Phenol (H,T)	1.60E+00	1.40E+04	--	--	--	--	--	--	1.67E+00	1.46E+04	--	--	8.84E-02	7.75E+02	8.84E-02	7.75E+02	--	--	1.91E+00	1.68E+04	--	--	--	--	--	--	2.31E+00	2.03E+04	--	--	--	--	2.29E-07	2.02E-03	--	--	--	--	8.89E-02	3.90E+02	7.76E+00	6.76E+04
Selenium Compounds (H,T)	--	--	3.22E-07	2.82E-03	--	--	2.64E-07	2.31E-03	--	--	2.31E-07	2.02E-03	--	--	--	--	2.61E-07	2.29E-03	--	--	3.84E-07	3.36E-03	--	--	2.33E-07	2.04E-03	--	--	2.31E-07	2.02E-03	2.31E-07	2.02E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	2.16E-06	1.89E-02
Toluene (H,T)	--	--	4.57E-05	4.00E-01	--	--	3.73E-05	3.27E-01	--	--	3.27E-05	2.86E-01	--	--	--	--	3.70E-05	3.24E-01	--	--	5.43E-05	4.76E-01	--	--	3.30E-05	2.89E-01	--	--	3.27E-05	2.86E-01	3.27E-05	2.86E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	3.05E-04	2.67E+00
Polycyclic Organic Matter (H,T)	--	--	8.21E-06	7.19E-02	--	--	6.71E-06	5.88E-02	--	--	5.87E-06	5.14E-02	--	--	--	--	6.65E-06	5.83E-02	--	--	9.77E-06	8.56E-02	--	--	5.93E-06	5.20E-02	--	--	5.87E-06	5.14E-02	5.87E-06	5.14E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	5.49E-05	4.81E-01
Lead Compounds (H)	--	--	6.72E-06	5.88E-02	--	--	5.49E-06	4.81E-02	--	--	4.80E-06	4.21E-02	--	--	--	--	5.44E-06	4.77E-02	--	--	7.99E-06	7.00E-02	--	--	4.85E-06	4.25E-02	--	--	4.80E-06	4.21E-02	4.80E-06	4.21E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	4.49E-05	3.93E-01
Arsenic Compounds (H,T)	--	--	2.69E-06	2.35E-02	--	--	2.20E-06	1.92E-02	--	--	1.92E-06	1.68E-02	--	--	--	--	2.18E-06	1.91E-02	--	--	3.20E-06	2.80E-02	--	--	1.94E-06	1.70E-02	--	--	1.92E-06	1.68E-02	1.92E-06	1.68E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	1.80E-05	1.57E-01
Beryllium Metal (H,T)	--	--	1.61E-07	1.41E-03	--	--	1.32E-07	1.15E-03	--	--	1.15E-07	1.01E-03	--	--	--	--	1.31E-07	1.14E-03	--	--	1.92E-07	1.68E-03	--	--	1.16E-07	1.02E-03	--	--	1.15E-07	1.01E-03	1.15E-07	1.01E-03	--	--	--	--	--	--	0.00E+00	0.00E+00	1.08E-06	9.44E-03
Cadmium Metal (H,T)	--	--	1.48E-05	1.29E-01	--	--	1.21E-05	1.06E-01	--	--	1.06E-05	9.26E-02	--	--	--	--	1.20E-05	1.05E-01	--	--	1.76E-05	1.54E-01	--	--	1.07E-05	9.35E-02	--	--	1.06E-05	9.26E-02	1.06E-05	9.26E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	9.88E-05	8.65E-01
Chromic Acid VI (H,T)	--	--	1.88E-05	1.65E-01	--	--	1.54E-05	1.35E-01	--	--	1.35E-05	1.18E-01	--	--	--	--	1.52E-05	1.33E-01	--	--	2.24E-05	1.96E-01	--	--	1.36E-05	1.19E-01	--	--	1.35E-05	1.18E-01	1.35E-05	1.18E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	1.26E-04	1.10E+00
Vinyl Acetate (H,T)	--	--	--	--	--	--	--	--	6.24E+00	5.47E+04	--	--	2.71E-01	2.38E+03	2.71E-01	2.38E+03	--	--	--	--	--	--	--	--	--	--	6.13E+00	5.37E+04	--	--	--	--	1.75E-01	1.54E+03	--	--	--	--	0.00E+00	0.00E+00	1.31E+01	1.15E+05
Manganese Compounds (H,T)	--	--	5.10E-06	4.47E-02	--	--	4.17E-06	3.66E-02	--	--	3.65E-06	3.20E-02	--	--	--	--	4.14E-06	3.62E-02	--	--	6.07E-06	5.32E-02	--	--	3.69E-06	3.23E-02	--	--	3.65E-06	3.20E-02	3.65E-06	3.20E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	3.41E-05	2.99E-01
Mercury (H,T)	--	--	3.49E-06	3.06E-02	--	--	2.85E-06	2.50E-02	--	--	2.50E-06	2.19E-02	--	--	--	--	2.83E-06	2.48E-02	--	--	4.15E-06	3.64E-02	--	--	2.52E-06	2.21E-02	--	--	2.50E-06	2.19E-02	2.50E-06	2.19E-02	--	--	--	--	--	--	0.00E+00	0.00E+00	2.33E-05	2.05E-01
Nickel Metal (H,T)	--	--	2.82E-05	2.47E-01	--	--	2.31E-05	2.02E-01	--	--	2.02E-05	1.77E-01	--	--	--	--	2.29E-05	2.00E-01	--	--	3.36E-05	2.94E-01	--	--	2.04E-05	1.79E-01	--	--	2.02E-05	1.77E-01	2.02E-05	1.77E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	1.89E-04	1.65E+00
Methanol (H,T)	3.89E+01	3.41E+05	--	--	--	--	--	--	2.55E-02	2.24E+02	--	--	1.39E-03	1.22E+01	1.39E-03	1.22E+01	--	--	2.59E+01	2.27E+05	--	--	--	--	--	--	3.54E-02	3.10E+02	--	--	--	--	2.18E-01	1.91E+03	4.57E-01	4.01E+03	4.57E-01	4.01E+03	8.68E-01	3.80E+03	6.68E+01	5.82E+05
Benzene (H,T)	--	--	2.82E-05	2.47E-01	--	--	2.31E-05	2.02E-01	--	--	2.02E-05	1.77E-01	--	--	--	--	2.29E-05	2.00E-01	--	--	3.36E-05	2.94E-01	--	--	2.04E-05	1.79E-01	--	--	2.02E-05	1.77E-01	2.02E-05	1.77E-01	--	--	--	--	--	--	0.00E+00	0.00E+00	1.89E-04	1.65E+00
Total HAP																																									**91.53**	**797,499.00**
Total TAP																																									**91.53**	**797,498.60**

Maximum NOx Emissions from Legacy MDO Application

Emission Unit	Equipment ID	Max Rate[1] (Units/hr)	Legacy MDO NOx Emission Factor[2] (lb /MSF)	Legacy MDO Emissions (tpy)	Legacy MDO Emissions (Unit/hr)	Dryer/RTO Combustion Emissions (tpy)	Dryer/RTO Combustion Emissions (lb/hr)	Total Nox Emissions (tpy)	Total Nox Emissions (lb/hr)
Paper Treating Line 1	CA-1	6.56	0.31	213.4	48.7	17.9	4.1	231.3	52.8
Paper Treating Line 2	CA-4	6.73	0.31	218.8	50.0	16.3	3.7	235.1	53.7

[1] Max Line Rate = ((Line Speed (fpm) x 100)/12,000 * 60 minutes/hr)/Unit Factor

[2] Maximum Legacy MDO NOx emission factor (lb/MSF) derived from October 2021 performance testing at Arclin Surfaces, LLC in Portland, Oregon

Arclin Surfaces - Dillon Plant
Construction Permit Application
Potential Emission Calculations

Standard

Source IDs:	CA-1
	Chemical Application 1

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
4,161	36,450,360	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.79%	74.48	326.23
Formaldehyde (H,T)	50-00-0	1.86%	77.39	338.99
Methanol (H,T)	67-56-1	34.92%	1,453.02	6,364.23
VOC	--	38.57%	1,604.90	7,029.45

		Controlled Chemical Application 1 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.49	6.52
Formaldehyde (H,T)	50-00-0	1.55	6.78
Methanol (H,T)	67-56-1	29.06	127.28
VOC	--	32.10	140.59

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.49	6.52
Formaldehyde (H,T)	50-00-0	1.55	6.78
Methanol (H,T)	67-56-1	29.06	127.28
VOC	--	32.10	140.59

Legacy MDO

Source IDs:	CA-1
	Chemical Application 1

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
5,683	49,779,576	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.07%	61.01	267.23
Formaldehyde (H,T)	50-00-0	2.30%	130.74	572.64
Methanol (H,T)	67-56-1	43.50%	2,472.00	10,827.35
VOC	--	46.88%	2,663.75	11,667.23

		Controlled Chemical Application 1 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.22	5.34
Formaldehyde (H,T)	50-00-0	2.61	11.45
Methanol (H,T)	67-56-1	49.44	216.55
VOC	--	53.28	233.34

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.22	5.34
Formaldehyde (H,T)	50-00-0	2.61	11.45
Methanol (H,T)	67-56-1	49.44	216.55
VOC	--	53.28	233.34

Next Generation MDO

Source IDs:	CA-1
	Chemical Application 1

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
4,416	38,685,474	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.81%	79.91	350.01
Formaldehyde (H,T)	50-00-0	1.81%	79.91	350.01
Methanol (H,T)	67-56-1	44.02%	1,944.17	8,515.45
VOC	--	47.64%	2,103.99	9,215.47

		Controlled Chemical Application 1 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.60	7.00
Formaldehyde (H,T)	50-00-0	1.60	7.00
Methanol (H,T)	67-56-1	38.88	170.31
VOC	--	42.08	184.31

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.60	7.00
Formaldehyde (H,T)	50-00-0	1.60	7.00
Methanol (H,T)	67-56-1	38.88	170.31
VOC	--	42.08	184.31

Arclin Surfaces - Dillon Plant
Construction Permit Application
Potential Emission Calculations

Standard

Source IDs:	CA-2
	Chemical Application 2

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
2,300	20,148,000	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.37%	8.51	37.27
Methanol (H,T)	67-56-1	2.24%	51.52	225.66
VOC	--	2.61%	60.03	262.93

		Controlled Chemical Application 2 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.17	0.75
Methanol (H,T)	67-56-1	1.03	4.51
VOC	--	1.20	5.26

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.17	0.75
Methanol (H,T)	67-56-1	1.03	4.51
VOC	--	1.20	5.26

Legacy MDO

Source IDs:	CA-2
	Chemical Application 2

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
2,930	25,662,420	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--	--
Methanol (H,T)	67-56-1	--	--	--
VOC	--	4.13%	120.99	529.93

		Controlled Chemical Application 2 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--
Methanol (H,T)	67-56-1	--	--
VOC	--	2.42	10.60

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--
Methanol (H,T)	67-56-1	--	--
VOC	--	2.42	10.60

Next Generation MDO

Source IDs:	CA-2
	Chemical Application 2

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
1,798	15,748,290	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--	--
Methanol (H,T)	67-56-1	--	--	--
VOC	--	4.13%	74.25	325.20

		Controlled Chemical Application 2 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--
Methanol (H,T)	67-56-1	--	--
VOC	--	1.48	6.50

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--
Methanol (H,T)	67-56-1	--	--
VOC	--	1.48	6.50

Standard

Source IDs:	CA-3
	Chemical Application 3

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
1,400	12,264,000	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.34%	4.76	20.85
Phenol (H,T)	108-95-2	6.79%	95.06	416.36
Vinyl Acetate (H,T)	108-05-4	0.09%	1.26	5.52
VOC	--	7.22%	101.08	442.73

		Controlled Chemical Application 3 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.10	0.42
Phenol (H,T)	108-95-2	1.90	8.33
Vinyl Acetate (H,T)	108-05-4	0.03	0.11
VOC	--	2.02	8.85

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.10	0.42
Phenol (H,T)	108-95-2	1.90	8.33
Vinyl Acetate (H,T)	108-05-4	0.03	0.11
VOC	--	2.02	8.85

Legacy MDO

Source IDs:	CA-3
	Chemical Application 3

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
3,049	26,710,992	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.14%	4.31	18.88
Phenol (H,T)	108-95-2	5.09%	155.19	679.75
Vinyl Acetate (H,T)	108-05-4	15.61%	475.98	2084.79
Methanol (H,T)	67-56-1	0.08%	2.37	10.39
VOC	--	20.92%	637.86	2793.81

		Controlled Chemical Application 3 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.09	0.38
Phenol (H,T)	108-95-2	3.10	13.60
Vinyl Acetate (H,T)	108-05-4	9.52	41.70
Methanol (H,T)	67-56-1	0.05	0.21
VOC	--	12.76	55.88

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.09	0.38
Phenol (H,T)	108-95-2	3.10	13.60
Vinyl Acetate (H,T)	108-05-4	9.52	41.70
Methanol (H,T)	67-56-1	0.05	0.21
VOC	--	12.76	55.88

Next Generation MDO

Source IDs:	CA-3
	Chemical Application 3

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
1,913	16,753,500	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.12%	2.32	10.17
Phenol (H,T)	108-95-2	4.37%	83.57	366.04
Vinyl Acetate (H,T)	108-05-4	16.32%	312.12	1367.09
Methanol (H,T)	67-56-1	0.07%	1.28	5.59
VOC	--	20.88%	399.29	1748.88

		Controlled Chemical Application 3 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.05	0.20
Phenol (H,T)	108-95-2	1.67	7.32
Vinyl Acetate (H,T)	108-05-4	6.24	27.34
Methanol (H,T)	67-56-1	0.03	0.11
VOC	--	7.99	34.98

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.05	0.20
Phenol (H,T)	108-95-2	1.67	7.32
Vinyl Acetate (H,T)	108-05-4	6.24	27.34
Methanol (H,T)	67-56-1	0.03	0.11
VOC	--	7.99	34.98

Arclin Surfaces - Dillon Plant
Construction Permit Application
Potential Emission Calculations

Standard

Source IDs:	CA-4
	Chemical Application 4

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
4,382	38,382,229	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.79%	78.43	343.52
Formaldehyde (H,T)	50-00-0	1.86%	81.50	356.95
Methanol (H,T)	67-56-1	34.92%	1,530.03	6,701.54
VOC	--	38.57%	1,689.96	7,402.01

		Controlled Chemcial Application 1 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.57	6.87
Formaldehyde (H,T)	50-00-0	1.63	7.14
Methanol (H,T)	67-56-1	30.60	134.03
VOC	--	33.80	148.04

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.57	6.87
Formaldehyde (H,T)	50-00-0	1.63	7.14
Methanol (H,T)	67-56-1	30.60	134.03
VOC	--	33.80	148.04

Legacy MDO

Source IDs:	CA-4
	Chemical Application 1

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
5,830.200	51,072,552	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.07%	62.60	0.00
Formaldehyde (H,T)	50-00-0	2.30%	134.14	587.51
Methanol (H,T)	67-56-1	43.50%	2,536.21	11,108.58
VOC	--	46.88%	2,732.94	11,970.27

		Controlled Chemcial Application 1 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.25	5.48
Formaldehyde (H,T)	50-00-0	2.68	11.75
Methanol (H,T)	67-56-1	50.72	222.17
VOC	--	54.66	239.41

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.25	5.48
Formaldehyde (H,T)	50-00-0	2.68	11.75
Methanol (H,T)	67-56-1	50.72	222.17
VOC	--	54.66	239.41

Next Generation MDO

Source IDs:	CA-1
	Chemical Application 1

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
4,516	39,559,722	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	2.12%	95.74	419.33
Formaldehyde (H,T)	50-00-0	2.12%	95.74	419.33
Methanol (H,T)	67-56-1	28.67%	1,294.72	5,670.89
VOC	--	32.91%	1,486.20	6,509.55

		Controlled Chemcial Application 1 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.91	8.39
Formaldehyde (H,T)	50-00-0	1.91	8.39
Methanol (H,T)	67-56-1	25.89	113.42
VOC	--	29.72	130.19

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Phenol (H,T)	108-95-2	1.91	8.39
Formaldehyde (H,T)	50-00-0	1.91	8.39
Methanol (H,T)	67-56-1	25.89	113.42
VOC	--	29.72	130.19

Arclin Surfaces - Dillon Plant
Construction Permit Application
Potential Emission Calculations

Standard

Source IDs:	CA-5
	Chemical Application 5

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
2,422	21,215,844	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.37%	8.96	39.25
Methanol (H,T)	67-56-1	2.24%	54.25	237.62
VOC	--	2.61%	63.21	276.87

		Controlled Chemical Application 2 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.18	0.78
Methanol (H,T)	67-56-1	1.09	4.75
VOC	--	1.26	5.54

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.18	0.78
Methanol (H,T)	67-56-1	1.09	4.75
VOC	--	1.26	5.54

Legacy MDO

Source IDs:	CA-5
	Chemical Application 5

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
3,004	26,314,164	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--	--
Methanol (H,T)	67-56-1	--	--	--
VOC	--	4.13%	124.06	543.39

		Controlled Chemical Application 2 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--
Methanol (H,T)	67-56-1	--	--
VOC	--	2.48	10.87

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--
Methanol (H,T)	67-56-1	--	--
VOC	--	2.48	10.87

Next Generation MDO

Source IDs:	CA-5
	Chemical Application 5

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
1,847	16,180,596	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--	--
Methanol (H,T)	67-56-1	--	--	--
VOC	--	4.13%	76.29	334.13

		Controlled Chemical Application 2 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--
Methanol (H,T)	67-56-1	--	--
VOC	--	1.53	6.68

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	--	--
Methanol (H,T)	67-56-1	--	--
VOC	--	1.53	6.68

Standard

Source IDs:	CA-6
	Chemical Application 6

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
1,474	12,913,992	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.34%	5.01	21.95
Phenol (H,T)	108-95-2	6.79%	100.10	438.43
Vinyl Acetate (H,T)	108-05-4	0.09%	1.33	5.81
VOC	--	7.22%	106.44	466.20

		Controlled Chemical Application 3 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.10	0.44
Phenol (H,T)	108-95-2	2.00	8.77
Vinyl Acetate (H,T)	108-05-4	0.03	0.12
VOC	--	2.13	9.32

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.10	0.44
Phenol (H,T)	108-95-2	2.00	8.77
Vinyl Acetate (H,T)	108-05-4	0.03	0.12
VOC	--	2.13	9.32

Legacy MDO

Source IDs:	CA-6
	Chemical Application 3

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
3,128	27,404,784	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.14%	4.42	19.37
Phenol (H,T)	108-95-2	5.09%	159.23	697.41
Vinyl Acetate (H,T)	108-05-4	15.61%	488.34	2138.94
Methanol (H,T)	67-56-1	0.08%	2.43	10.65
VOC	--	20.92%	654.42	2866.38

		Controlled Chemical Application 3 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.09	0.39
Phenol (H,T)	108-95-2	3.18	13.95
Vinyl Acetate (H,T)	108-05-4	9.77	42.78
Methanol (H,T)	67-56-1	0.05	0.21
VOC	--	13.09	57.33

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.09	0.39
Phenol (H,T)	108-95-2	3.18	13.95
Vinyl Acetate (H,T)	108-05-4	9.77	42.78
Methanol (H,T)	67-56-1	0.05	0.21
VOC	--	13.09	57.33

Next Generation MDO

Source IDs:	CA-6
	Chemical Application 3

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)	Potential Operating Hours (hr/yr)	Overall Control Efficiency
1,965	17,213,400	8,760	98.00%

Emission Calculations

			Uncontrolled Emissions	
Pollutant	CAS No.	"Super Coating" %	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.16%	3.14	13.77
Phenol (H,T)	108-95-2	5.89%	115.74	506.93
Vinyl Acetate (H,T)	108-05-4	15.61%	306.74	1343.51
Methanol (H,T)	67-56-1	0.09%	1.77	7.75
VOC	--	21.75%	427.39	1871.96

		Controlled Chemical Application 3 Emissions	
Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.06	0.28
Phenol (H,T)	108-95-2	2.31	10.14
Vinyl Acetate (H,T)	108-05-4	6.13	26.87
Methanol (H,T)	67-56-1	0.04	0.15
VOC	--	8.55	37.44

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.06	0.28
Phenol (H,T)	108-95-2	2.31	10.14
Vinyl Acetate (H,T)	108-05-4	6.13	26.87
Methanol (H,T)	67-56-1	0.04	0.15
VOC	--	8.55	37.44

Arclin Surfaces - Dillon Plant
Hot Box
Potential Emission Calculations

Standard, Legacy MDO, and Next Generation MDO

Source IDs:	HB-1, HB-2
	Hot Boxes

Process Information

Potential Throughput (lb/hr)	Potential Throughput (lb/yr)[1]	Potential Operating Hours (hr/yr)	Overall Control Efficiency
87	761,025	8,760	98.00%

Emission Calculations for HB-1

				HB-1 Uncontrolled Emissions
Pollutant	**CAS No.**	**"Super Coating" %[2]**	**(lb/hr)**	**(tpy)**
Formaldehyde (H,T)	50-00-0	0.14%	0.12	0.53
Phenol (H,T)	108-95-2	5.09%	4.42	19.37
Methanol (H,T)	67-56-1	0.08%	0.07	0.30
Vinyl Acetate (H,T)	108-05-4	15.61%	13.56	59.40
VOC	--	20.92%	18.17	79.60

			HB-1 Controlled Emissions
Pollutant	**CAS No.**	**(lb/hr)**	**(tpy)**
Formaldehyde (H,T)	50-00-0	0.00	0.01
Phenol (H,T)	108-95-2	0.09	0.39
Methanol (H,T)	67-56-1	0.00	0.01
Vinyl Acetate (H,T)	108-05-4	0.27	1.19
VOC	--	0.36	1.59

Emission Calculations for HB-2

				HB-2 Uncontrolled Emissions
Pollutant	**CAS No.**	**"Super Coating" %**	**(lb/hr)**	**(tpy)**
Formaldehyde (H,T)	50-00-0	0.14%	0.12	0.53
Phenol (H,T)	108-95-2	5.09%	4.42	19.37
Methanol (H,T)	67-56-1	0.08%	0.07	0.30
Vinyl Acetate (H,T)	108-05-4	15.61%	13.56	59.40
VOC	--	20.92%	18.17	79.60

			HB-2 Controlled Emissions
Pollutant	**CAS No.**	**(lb/hr)**	**(tpy)**
Formaldehyde (H,T)	50-00-0	0.0024	0.01
Phenol (H,T)	108-95-2	0.09	0.39
Methanol (H,T)	67-56-1	0.00	0.01
Vinyl Acetate (H,T)	108-05-4	0.27	1.19
VOC	--	0.36	1.59

Total Potential Emissions Summary for HB-1 and HB-2

Pollutant	CAS No.	(lb/hr)	(tpy)
Formaldehyde (H,T)	50-00-0	0.00	0.02
Phenol (H,T)	108-95-2	0.18	0.77
Methanol (H,T)	67-56-1	0.00	0.01
Vinyl Acetate (H,T)	108-05-4	0.54	2.38
VOC	--	0.73	3.18

[1] Residual glue throughput for each Hot Box is estimated by taking the maximum volume a Hot Box can hold (500 gal) at one time and assuming a 48 hour curing time.

[2] Supercoating determined based on maximum individual HAP/TAP and maximum total VOC from Chemical Applications 2 and 3.

Arclin Surfaces - Dillon Plant
Construction Permit Application
Potential Emission Calculations

Source IDs:	SC-1
	Solvent Cleaning Operations

Process Information

Mixing System Cleaning (Methanol) [b]	6,500	lb/yr
Chemical Application Cleaning (Methanol) [c]	9,200	lb/yr
Thermal Oxidizer Control Efficiency	98%	
Percent Evaporated [a]	50%	

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Methanol (H,T)	67-56-1	0.38	1.67
VOC	--	0.38	1.67

[a] Conservatively assume that 50% of all solvent cleaning methanol usage at the facility is evaporated during the cleaning operations.

[b] Conservatively assume 7,900 lbs/yr of methanol used for mixing system cleaning.

[c] Based on 3 cleanings per shift using 80 ounces of methanol for cleaning per shift, 14 shifts per week, operating for 52 weeks a year. 3 changeover cleanings per month using 120 ounces of methanol. Methanol density is 6.6 lbs/gal.

Source IDs:	SC-2
	Solvent Cleaning Operations

Process Information

Mixing System Cleaning (Methanol) [b]	6,500	lb/yr
Chemical Application Cleaning (Methanol) [c]	9,200	lb/yr
Thermal Oxidizer Control Efficiency	98%	
Percent Evaporated [a]	50%	

Potential Emissions Summary

Pollutant	CAS No.	(lb/hr)	(tpy)
Methanol (H,T)	67-56-1	0.38	1.67
VOC	--	0.38	1.67

[a] Conservatively assume that 50% of all solvent cleaning methanol usage at the facility is evaporated during the cleaning operations.

[b] Conservatively assume 7,900 lbs/yr of methanol used for mixing system cleaning.

[c] Based on 3 cleanings per shift using 80 ounces of methanol for cleaning per shift, 14 shifts per week, operating for 52 weeks a year. 3 changeover cleanings per month using 120 ounces of methanol. Methanol density is 6.6 lbs/gal.

Source IDs:	MIX-1 (Current)
	Mixing Operation

Potential Emissions Summary

		MIX-PI-1		USE-PI-1 through -2		MIX-PC-1		USE-PC-1 through -4		MIX-GC-1		USE-GC-1		Total Emissions	
Pollutant	**CAS No.**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**
Methanol (H,T)	67-56-1	1.90E-02	8.31E-02	1.92E-02	8.40E-02	2.97E-05	1.30E-04	3.20E-05	1.40E-04	--	--	--	--	0.04	0.17
Phenol (H,T)	108-95-2	2.88E-03	1.26E-02	2.91E-03	1.28E-02	--	--	--	--	1.37E-03	6.02E-03	1.38E-03	6.05E-03	0.01	0.04
Formaldehyde (H,T)	50-00-0	2.58E-03	1.13E-02	2.61E-03	1.14E-02	7.76E-05	3.40E-04	1.64E-01	7.20E-01	1.71E-05	7.50E-05	1.71E-05	7.50E-05	0.17	0.74
VOC	--	2.44E-02	1.07E-01	2.47E-02	1.08E-01	1.07E-04	4.70E-04	1.64E-01	7.20E-01	1.39E-03	6.10E-03	1.40E-03	6.13E-03	2.16E-01	9.48E-01

Source IDs:	MIX-1 (Revised)
	Mixing Operation

Potential Emissions Summary

		MIX-PI-1		USE-PI-1 through -2		MIX-PC-1		MIX-PC-2		USE-PC-1 through -4		MIX-GC-1		MIX-GC-2		USE-GC-1		USE-GC-2		Total Emissions	
Pollutant	**CAS No.**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**
Methanol (H,T)	67-56-1	3.80E-02	1.66E-01	3.84E-02	1.68E-01	5.94E-05	2.60E-04	5.94E-05	2.60E-04	6.39E-05	2.80E-04	--	--	--	--	--	--	--	--	0.08	0.34
Phenol (H,T)	108-95-2	5.76E-03	2.53E-02	5.82E-03	2.55E-02	--	--	--	--	--	--	2.75E-03	1.20E-02	2.75E-03	1.20E-02	2.76E-03	1.21E-02	2.76E-03	1.21E-02	0.02	0.10
Formaldehyde (H,T)	50-00-0	5.17E-03	2.26E-02	5.22E-03	2.29E-02	1.55E-04	6.80E-04	1.55E-04	6.80E-04	3.29E-01	1.44E+00	3.42E-05	1.50E-04	3.42E-05	1.50E-04	3.42E-05	1.50E-04	3.42E-05	1.50E-04	0.34	1.49
VOC	--	4.89E-02	2.14E-01	4.94E-02	2.16E-01	2.15E-04	9.40E-04	2.15E-04	9.40E-04	3.29E-01	1.44E+00	2.78E-03	1.22E-02	2.78E-03	1.22E-02	2.80E-03	1.23E-02	2.80E-03	1.23E-02	0.44	1.92

Source IDs:	MIX-1 Legacy MDO
	Mixing Operation

Potential Emissions Summary

		MIX-PI-1		USE-PI-1 through -2		MIX-PC-1		MIX-PC-2		USE-PC-1 through -4		MIX-GC-1		MIX-GC-2		USE-GC-1		USE-GC-2		Total Emissions	
Pollutant	**CAS No.**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**
Methanol (H,T)	67-56-1	1.38E-01	6.06E-01	1.39E-01	6.10E-01	--	--	--	--	--	--	4.00E-04	1.75E-03	4.00E-04	1.75E-03	4.00E-04	1.75E-03	4.00E-04	1.75E-03	0.28	1.22
Phenol (H,T)	108-95-2	1.27E-08	5.56E-08	1.27E-08	5.58E-08	--	--	--	--	--	--	9.01E-08	3.95E-07	9.01E-08	3.95E-07	9.02E-08	3.95E-07	9.02E-08	3.95E-07	0.00	0.00
Formaldehyde (H,T)	50-00-0	3.00E-04	1.31E-03	4.00E-04	1.75E-03	--	--	--	--	--	--	2.90E-05	1.27E-04	2.90E-05	1.27E-04	2.91E-05	1.27E-04	2.91E-05	1.27E-04	0.00	0.00
Vinyl Acetate (H,T)	108-05-4	--	--	--	--	--	--	--	--	--	--	6.64E-02	2.91E-01	6.64E-02	2.91E-01	6.65E-02	2.91E-01	6.65E-02	2.91E-01	0.27	1.16
VOC	--	1.39E-01	6.08E-01	1.40E-01	6.11E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-02	2.93E-01	6.68E-02	2.93E-01	6.69E-02	2.93E-01	6.69E-02	2.93E-01	0.55	2.39

Source IDs:	MIX-1 Next Generation MDO
	Mixing Operation

Potential Emissions Summary

		MIX-PI-1		USE-PI-1 through -2		MIX-PC-1		MIX-PC-2		USE-PC-1 through -4		MIX-GC-1		MIX-GC-2		USE-GC-1		USE-GC-2		Total Emissions	
Pollutant	**CAS No.**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**
Methanol (H,T)	67-56-1	1.08E-01	4.74E-01	1.09E-01	4.78E-01	--	--	--	--	--	--	2.00E-04	8.76E-04	2.00E-04	8.76E-04	2.00E-04	8.76E-04	2.00E-04	8.76E-04	0.22	0.96
Phenol (H,T)	108-95-2	1.66E-08	7.26E-08	1.67E-08	7.31E-08	--	--	--	--	--	--	4.88E-08	2.14E-07	4.88E-08	2.14E-07	4.89E-08	2.17E-07	4.89E-08	2.17E-07	0.00	0.00
Formaldehyde (H,T)	50-00-0	2.00E-04	8.76E-04	1.95E-04	8.56E-04	--	--	--	--	--	--	1.57E-05	6.88E-05	1.57E-05	6.88E-05	1.57E-05	6.88E-05	1.57E-05	6.88E-05	0.00	0.00
Vinyl Acetate (H,T)	108-05-4	--	--	--	--	--	--	--	--	--	--	4.38E-02	1.92E-01	4.38E-02	1.92E-01	4.39E-02	1.92E-01	4.39E-02	1.92E-01	0.18	0.77
VOC	--	1.09E-01	4.75E-01	1.09E-01	4.79E-01	1.90E-03	8.33E-03	1.90E-03	8.33E-03	2.00E-03	8.77E-03	2.00E-03	8.77E-03	4.40E-02	1.93E-01	4.41E-02	1.93E-01	4.41E-02	1.93E-01	0.36	1.57

Arclin Surfaces - Dillon Plant
Construction Permit Application
Potential Emission Calculations

Source IDs:	D-1	D-2	D-3	TO-1	D-4	D-5	D-6	TO-2
	Dryer 1	Dryer 2	Dryer 3	Thermal Oxidizer	Dryer 4	Dryer 5	Dryer 6	Thermal Oxidizer

Overview

All Chemical Application Dryer systems consist of multiple stage dryers used for curing the relevant coating applied.
The Chemical Application 1 Dryers consist of 6 drying sections/burners: 5 burners with 2.6 MMBtu/hr heat input capacity, each and 1 burner with 0.7 MMBtu/hr heat input capacity.
The Chemical Application 2 Dryers consist of 9 drying sections/burners: 8 burners with 1.3 MMBtu/hr heat input capacity, each and 1 burner with 0.8 MMBtu/hr heat input capacity.
The Chemical Application 3 Dryers consist of 5 drying sections/burners: 4 burners with 2.3 MMBtu/hr heat input capacity, each and 1 burner with 0.6 MMBtu/hr heat input capacity.
The Chemical Application 4 Dryers consist of 7 drying sections/burners: 6 burners with 2.6 MMBtu/hr heat input capacity, each and 1 burner with 0.7 MMBtu/hr heat input capacity.
The Chemical Application 5 Dryers consist of 8 drying sections/burners: 7 burners with 1.3 MMBtu/hr heat input capacity, each and 1 burner with 0.8 MMBtu/hr heat input capacity.
The Chemical Application 6 Dryers consist of 5 drying sections/burners: 4 burners with 2.3 MMBtu/hr heat input capacity, each and 1 burner with 0.6 MMBtu/hr heat input capacity.

Input Parameters

Maximum Heat Input (Source D-1)	13.7	MMBtu/hr
Maximum Heat Input (Source D-2)	11.2	MMBtu/hr
Maximum Heat Input (Source D-3)	9.8	MMBtu/hr
Maximum Heat Input (Source TO-1)	11.1	MMBtu/hr
Heating Value of Natural Gas [a]	1,020	Btu/scf
Convert to:	1,020	MMBtu/MMscf
Potential Hours of Operation	8,760	Hr/yr
Potential Natural Gas Usage (Source D-1)	117.66	MMscf/yr
Potential Natural Gas Usage (Source D-2)	96.19	MMscf/yr
Potential Natural Gas Usage (Source D-3)	84.16	MMscf/yr
Potential Natural Gas Usage (Source TO-1)	95.33	MMscf/yr

Maximum Heat Input (Source D-4)	16.3	MMBtu/hr
Maximum Heat Input (Source D-5)	9.9	MMBtu/hr
Maximum Heat Input (Source D-6)	9.8	MMBtu/hr
Maximum Heat Input (Source TO-2)	9.8	MMBtu/hr
Heating Value of Natural Gas [a]	1,020	Btu/scf
Convert to:	1,020	MMBtu/MMscf
Potential Hours of Operation	8,760	Hr/yr
Potential Natural Gas Usage (Source D-4)	139.99	MMscf/yr
Potential Natural Gas Usage (Source D-5)	85.02	MMscf/yr
Potential Natural Gas Usage (Source D-6)	84.16	MMscf/yr
Potential Natural Gas Usage (Source TO-1)	84.16	MMscf/yr

Criteria Pollutant Emissions

Pollutant	Cas No.	Natural Gas Emission Factor [b]	Potential Emissions (Source D-1) [e]		Potential Emissions (Source D-2)		Potential Emissions (Source D-3)		Potential Emissions (Source TO-1)	
		(lb/MM ft^3)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
Total PM	--	5.20E-01	6.98E-03	3.06E-02	5.71E-03	2.50E-02	5.00E-03	2.19E-02	5.66E-03	2.48E-02
Total PM_{10}	--	5.20E-01	6.98E-03	3.06E-02	5.71E-03	2.50E-02	5.00E-03	2.19E-02	5.66E-03	2.48E-02
Total $PM_{2.5}$	--	4.30E-01	5.78E-03	2.53E-02	4.72E-03	2.07E-02	4.13E-03	1.81E-02	4.68E-03	2.05E-02
SO_2	--	6.00E-01	8.06E-03	3.53E-02	6.59E-03	2.89E-02	5.76E-03	2.52E-02	6.53E-03	2.86E-02
NO_x	--	1.00E+02	9.40E-01	4.12E+00	1.10E+00	4.81E+00	9.61E-01	4.21E+00	1.09E+00	4.77E+00
VOC	--	5.50E+00	7.39E-02	3.24E-01	6.04E-02	2.65E-01	5.28E-02	2.31E-01	5.99E-02	2.62E-01
CO	--	8.40E+01	1.13E+00	4.94E+00	9.22E-01	4.04E+00	8.07E-01	3.53E+00	9.14E-01	4.00E+00

Pollutant	Cas No.	Natural Gas Emission Factor [b]	Potential Emissions (Source D-4) [e]		Potential Emissions (Source D-5)		Potential Emissions (Source D-6)		Potential Emissions (Source TO-2)	
		(lb/MM ft^3)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
Total PM	--	5.20E-01	8.31E-03	3.64E-02	5.05E-03	2.21E-02	5.00E-03	2.19E-02	5.00E-03	2.19E-02
Total PM_{10}	--	5.20E-01	8.31E-03	3.64E-02	5.05E-03	2.21E-02	5.00E-03	2.19E-02	5.00E-03	2.19E-02
Total $PM_{2.5}$	--	4.30E-01	6.87E-03	3.01E-02	4.17E-03	1.83E-02	4.13E-03	1.81E-02	4.13E-03	1.81E-02
SO_2	--	6.00E-01	9.59E-03	4.20E-02	5.82E-03	2.55E-02	5.76E-03	2.52E-02	5.76E-03	2.52E-02
NO_x	--	1.00E+02	1.12E+00	4.90E+00	9.71E-01	4.25E+00	9.61E-01	4.21E+00	6.73E-01	2.95E+00
VOC	--	5.50E+00	8.79E-02	3.85E-01	5.34E-02	2.34E-01	5.28E-02	2.31E-01	5.28E-02	2.31E-01
CO	--	8.40E+01	1.34E+00	5.88E+00	8.15E-01	3.57E+00	8.07E-01	3.53E+00	8.07E-01	3.53E+00

GHG Pollutant Emissions

Pollutant [d,e]	Cas No.	Natural Gas Emission Factor [c]	Potential Emissions (Source D-1) e		Potential Emissions (Source D-2)		Potential Emissions (Source D-3)		Potential Emissions (Source TO-1)	
		(kg/MMBtu)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
CO_2	--	5.31E+01	1.60E+03	7.02E+03	1.31E+03	5.74E+03	1.15E+03	5.02E+03	1.30E+03	5.69E+03
CH_4	--	1.00E-03	3.02E-02	1.32E-01	2.47E-02	1.08E-01	2.16E-02	9.46E-02	2.45E-02	1.07E-01
N_2O	--	1.00E-04	3.02E-03	1.32E-02	2.47E-03	1.08E-02	2.16E-03	9.46E-03	2.45E-03	1.07E-02
CO_2e	--	-----	1.60E+03	7.03E+03	1.31E+03	5.74E+03	1.15E+03	5.03E+03	1.30E+03	5.69E+03

Pollutant [d,e]	Cas No.	Natural Gas Emission Factor [c]	Potential Emissions (Source D-4) e		Potential Emissions (Source D-5)		Potential Emissions (Source D-6)		Potential Emissions (Source TO-2)	
		(kg/MMBtu)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)	(lb/hr)	(tpy)
CO_2	--	5.31E+01	1.91E+03	8.35E+03	1.16E+03	5.07E+03	1.15E+03	5.02E+03	1.15E+03	5.02E+03
CH_4	--	1.00E-03	3.59E-02	1.57E-01	2.18E-02	9.56E-02	2.16E-02	9.46E-02	2.16E-02	9.46E-02
N_2O	--	1.00E-04	3.59E-03	1.57E-02	2.18E-03	9.56E-03	2.16E-03	9.46E-03	2.16E-03	9.46E-03
CO_2e	--	-----	1.91E+03	8.36E+03	1.16E+03	5.08E+03	1.15E+03	5.03E+03	1.15E+03	5.03E+03

HAP/TAP Emissions

Pollutant	Cas No.	Natural Gas Emission Factor [b]	Potential Emissions (Source D-1)			Potential Emissions (Source D-2)			Potential Emissions (Source D-3)			Potential Emissions (Source TO-1)		
		(lb/MM ft^3)	(lb/hr)	(lb/day)	(tpy)	(lb/hr)	(lb/day)	(tpy)	(lb/hr)	(lb/day)	(tpy)	(lb/hr)	(lb/day)	(tpy)
Acetaldehyde (H,T)	75-07-0	1.52E-05	2.04E-07	4.90E-06	8.94E-07	1.67E-07	4.01E-06	7.31E-07	1.46E-07	3.50E-06	6.40E-07	1.65E-07	3.97E-06	7.25E-07
Acrolein (H,T)	107-02-8	1.80E-05	2.42E-07	5.80E-06	1.06E-06	1.98E-07	4.74E-06	8.66E-07	1.73E-07	4.15E-06	7.57E-07	1.96E-07	4.70E-06	8.58E-07
Benzene (H,T)	71-43-2	2.10E-03	2.82E-05	6.77E-04	1.24E-04	2.31E-05	5.53E-04	1.01E-04	2.02E-05	4.84E-04	8.84E-05	2.29E-05	5.48E-04	1.00E-04
Benzo(a)pyrene (H,T)	50-32-8	1.20E-06	1.61E-08	3.87E-07	7.06E-08	1.32E-08	3.16E-07	5.77E-08	1.15E-08	2.77E-07	5.05E-08	1.31E-08	3.13E-07	5.72E-08
Formaldehyde (H,T)	50-00-0	7.50E-02	1.01E-03	2.42E-02	4.41E-03	8.24E-04	1.98E-02	3.61E-03	7.21E-04	1.73E-02	3.16E-03	8.16E-04	1.96E-02	3.57E-03
Cobalt Compounds (H,T)	COC-other	8.40E-05	1.13E-06	2.71E-05	4.94E-06	9.22E-07	2.21E-05	4.04E-06	8.07E-07	1.94E-05	3.53E-06	9.14E-07	2.19E-05	4.00E-06
n-Hexane (H,T)	110-54-3	1.80E+00	2.42E-02	5.80E-01	1.06E-01	1.98E-02	4.74E-01	8.66E-02	1.73E-02	4.15E-01	7.57E-02	1.96E-02	4.70E-01	8.58E-02
Naphthalene (H,T)	91-20-3	6.10E-04	8.19E-06	1.97E-04	3.59E-05	6.70E-06	1.61E-04	2.93E-05	5.86E-06	1.41E-04	2.57E-05	6.64E-06	1.59E-04	2.91E-05
Selenium Compounds (H,T)	SEC	2.40E-05	3.22E-07	7.74E-06	1.41E-06	2.64E-07	6.32E-06	1.15E-06	2.31E-07	5.53E-06	1.01E-06	2.61E-07	6.27E-06	1.14E-06
Toluene (H,T)	108-88-3	3.40E-03	4.57E-05	1.10E-03	2.00E-04	3.73E-05	8.96E-04	1.64E-04	3.27E-05	7.84E-04	1.43E-04	3.70E-05	8.88E-04	1.62E-04
Polycyclic Organic Matter (H,T)	POM	6.11E-04	8.21E-06	1.97E-04	3.60E-05	6.71E-06	1.61E-04	2.94E-05	5.87E-06	1.41E-04	2.57E-05	6.65E-06	1.60E-04	2.91E-05
Lead Compounds (H)	PBC-other	5.00E-04	6.72E-06	1.61E-04	2.94E-05	5.49E-06	1.32E-04	2.40E-05	4.80E-06	1.15E-04	2.10E-05	5.44E-06	1.31E-04	2.38E-05
Arsenic Compounds (H,T)	ASC-other	2.00E-04	2.69E-06	6.45E-05	1.18E-05	2.20E-06	5.27E-05	9.62E-06	1.92E-06	4.61E-05	8.42E-06	2.18E-06	5.22E-05	9.53E-06
Beryllium Metal (H,T)	7440-41-7	1.20E-05	1.61E-07	3.87E-06	7.06E-07	1.32E-07	3.16E-06	5.77E-07	1.15E-07	2.77E-06	5.05E-07	1.31E-07	3.13E-06	5.72E-07
Cadmium Metal (H,T)	7440-43-9	1.10E-03	1.48E-05	3.55E-04	6.47E-05	1.21E-05	2.90E-04	5.29E-05	1.06E-05	2.54E-04	4.63E-05	1.20E-05	2.87E-04	5.24E-05
Chromic Acid VI (H,T)	7738-94-5	1.40E-03	1.88E-05	4.51E-04	8.24E-05	1.54E-05	3.69E-04	6.73E-05	1.35E-05	3.23E-04	5.89E-05	1.52E-05	3.66E-04	6.67E-05
Manganese Compounds (H,T)	MNC-other	3.80E-04	5.10E-06	1.22E-04	2.24E-05	4.17E-06	1.00E-04	1.83E-05	3.65E-06	8.76E-05	1.60E-05	4.14E-06	9.92E-05	1.81E-05
Mercury (H,T)	7439-97-6	2.60E-04	3.49E-06	8.38E-05	1.53E-05	2.85E-06	6.85E-05	1.25E-05	2.50E-06	6.00E-05	1.09E-05	2.83E-06	6.79E-05	1.24E-05
Nickel Metal (H,T)	7440-02-0	2.10E-03	2.82E-05	6.77E-04	1.24E-04	2.31E-05	5.53E-04	1.01E-04	2.02E-05	4.84E-04	8.84E-05	2.29E-05	5.48E-04	1.00E-04

Pollutant	Cas No.	Natural Gas Emission Factor [b]	Potential Emissions (Source D-4)			Potential Emissions (Source D-5)			Potential Emissions (Source D-6)			Potential Emissions (Source TO-2)		
		(lb/MM ft^3)	(lb/hr)	(lb/day)	(tpy)	(lb/hr)	(lb/day)	(tpy)	(lb/hr)	(lb/day)	(tpy)	(lb/hr)	(lb/day)	(tpy)
Acetaldehyde (H,T)	75-07-0	1.52E-05	2.43E-07	5.83E-06	1.06E-06	1.48E-07	3.54E-06	6.46E-07	1.46E-07	3.50E-06	6.40E-07	1.46E-07	3.50E-06	6.40E-07
Acrolein (H,T)	107-02-8	1.80E-05	2.88E-07	6.90E-06	1.26E-06	1.75E-07	4.19E-06	7.65E-07	1.73E-07	4.15E-06	7.57E-07	1.73E-07	4.15E-06	7.57E-07
Benzene (H,T)	71-43-2	2.10E-03	3.36E-05	8.05E-04	1.47E-04	2.04E-05	4.89E-04	8.93E-05	2.02E-05	4.84E-04	8.84E-05	2.02E-05	4.84E-04	8.84E-05
Benzo(a)pyrene (H,T)	50-32-8	1.20E-06	1.92E-08	4.60E-07	8.40E-08	1.16E-08	2.80E-07	5.10E-08	1.15E-08	2.77E-07	5.05E-08	1.15E-08	2.77E-07	5.05E-08
Formaldehyde (H,T)	50-00-0	7.50E-02	1.20E-03	2.88E-02	5.25E-03	7.28E-04	1.75E-02	3.19E-03	7.21E-04	1.73E-02	3.16E-03	7.21E-04	1.73E-02	3.16E-03
Cobalt Compounds (H,T)	COC-other	8.40E-05	1.34E-06	3.22E-05	5.88E-06	8.15E-07	1.96E-05	3.57E-06	8.07E-07	1.94E-05	3.53E-06	8.07E-07	1.94E-05	3.53E-06
n-Hexane (H,T)	110-54-3	1.80E+00	2.88E-02	6.90E-01	1.26E-01	1.75E-02	4.19E-01	7.65E-02	1.73E-02	4.15E-01	7.57E-02	1.73E-02	4.15E-01	7.57E-02
Naphthalene (H,T)	91-20-3	6.10E-04	9.75E-06	2.34E-04	4.27E-05	5.92E-06	1.42E-04	2.59E-05	5.86E-06	0.00E+00	2.57E-05	5.86E-06	1.41E-04	2.57E-05
Selenium Compounds (H,T)	SEC	2.40E-05	3.84E-07	9.20E-06	1.68E-06	2.33E-07	5.59E-06	1.02E-06	2.31E-07	5.53E-06	1.01E-06	2.31E-07	5.53E-06	1.01E-06
Toluene (H,T)	108-88-3	3.40E-03	5.43E-05	1.30E-03	2.38E-04	3.30E-05	7.92E-04	1.45E-04	3.27E-05	7.84E-04	1.43E-04	3.27E-05	7.84E-04	1.43E-04
Polycyclic Organic Matter (H,T)	POM	6.11E-04	9.77E-06	2.34E-04	4.28E-05	5.93E-06	1.42E-04	2.60E-05	5.87E-06	1.41E-04	2.57E-05	5.87E-06	1.41E-04	2.57E-05
Lead Compounds (H)	PBC-other	5.00E-04	7.99E-06	1.92E-04	3.50E-05	4.85E-06	1.16E-04	2.13E-05	4.80E-06	1.15E-04	2.10E-05	4.80E-06	1.15E-04	2.10E-05
Arsenic Compounds (H,T)	ASC-other	2.00E-04	3.20E-06	7.67E-05	1.40E-05	1.94E-06	4.66E-05	8.50E-06	1.92E-06	4.61E-05	8.42E-06	1.92E-06	4.61E-05	8.42E-06
Beryllium Metal (H,T)	7440-41-7	1.20E-05	1.92E-07	4.60E-06	8.40E-07	1.16E-07	2.80E-06	5.10E-07	1.15E-07	2.77E-06	5.05E-07	1.15E-07	2.77E-06	5.05E-07
Cadmium Metal (H,T)	7440-43-9	1.10E-03	1.76E-05	4.22E-04	7.70E-05	1.07E-05	2.56E-04	4.68E-05	1.06E-05	2.54E-04	4.63E-05	1.06E-05	2.54E-04	4.63E-05
Chromic Acid VI (H,T)	7738-94-5	1.40E-03	2.24E-05	5.37E-04	9.80E-05	1.36E-05	3.26E-04	5.95E-05	1.35E-05	3.23E-04	5.89E-05	1.35E-05	3.23E-04	5.89E-05
Manganese Compounds (H,T)	MNC-other	3.80E-04	6.07E-06	1.46E-04	2.66E-05	3.69E-06	8.85E-05	1.62E-05	3.65E-06	8.76E-05	1.60E-05	3.65E-06	8.76E-05	1.60E-05
Mercury (H,T)	7439-97-6	2.60E-04	4.15E-06	9.97E-05	1.82E-05	2.52E-06	6.06E-05	1.11E-05	2.50E-06	6.00E-05	1.09E-05	2.50E-06	6.00E-05	1.09E-05
Nickel Metal (H,T)	7440-02-0	2.10E-03	3.36E-05	8.05E-04	1.47E-04	2.04E-05	4.89E-04	8.93E-05	2.02E-05	4.84E-04	8.84E-05	2.02E-05	4.84E-04	8.84E-05

[a] Average gross heating value of natural gas from AP-42 Section 1.4 - *Natural Gas Combustion* (07/98).
[b] Emission factors are from AP-42, 5th Edition, Section 1.4, 7/98 except for acetaldehyde, acrolein and ammonia, these factors are from the WebFIRE database.
[c] Emission factors are from 40 CFR 98 Subpart C, Tables C-1 and C-2
[d] CO2e = Sum(GHG_i * GWP_i)
[e] GWP from 40 CFR 98 Subpart A, Table A-1:

CO_2	1
CH_4	25
N_2O	298

[f] Dryer equipped with low NO_x burners that will achieve 30% reduction of NO_x from uncontrolled levels; therefore emission factor is 70 lb/MM ft^3.

Arclin Surfaces - Dillon Plant
Construction Permit Application
Potential Emission Calculations

Source IDs:	TK-1	TK-2.1	TK-3	TK-4	TK-2.2	TK-5	TK-6
	Methanol Tank	Resin A	Color Tanks	Resin B	Resin A	Polyvinyl Acetate Tank	Resin C

Potential Emissions Summary

		TK-1 (1 Tank)		TK-2.1 (Tanks 1 & 2 out of 4)		TK-3 (4 Tanks)		TK-4 (2 Tanks)		TK-2.2 (Tanks 3 & 4 out of 4)		TK-5 (1 Tank)		TK-6 (1 Tank)		Total Emissions	
Pollutant	**CAS No.**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**	**(lb/hr)**	**(tpy)**
Methanol (H,T)	67-56-1	6.27E-01	1.37E+00	2.40E-01	5.26E-01	--	--	1.44E-03	3.16E-03	--	--	--	--	1.17E-02	0.03	0.88	1.93
Phenol (H,T)	108-95-2	--	--	4.76E-02	1.04E-01	--	--	--	--	4.14E-02	9.06E-02	--	--	1.91E-08	4.18E-08	0.09	0.19
Formaldehyde (H,T)	50-00-0	--	--	2.96E-02	6.49E-02	1.61E-03	3.52E-03	3.03E-03	6.64E-03	5.02E-04	1.10E-03	--	--	3.05E-04	6.68E-04	0.04	0.08
VOC	--	6.27E-01	1.37E+00	3.17E-01	6.95E-01	1.61E-03	3.52E-03	4.47E-03	9.80E-03	4.19E-02	9.17E-02	0.00E+00	0.00E+00	1.26E-02	2.76E-02	1.00	2.20