FAX

Solvay Minerals Inc.
ENVIRONMENTAL DEPARTMENT

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David,

Following is the HAP and VOC data that I sent to Jeff yesterday. He will receive it this morning via Fed Ex. I included both average emissions and what I call maximum (average plus 3 times the standard deviation). I have also noted both the total and increase due to expansion for CA-1&2 (AQD #17), CA-3 (AQD #48) and the new CA-4 (AQD #80). I have also included the results of chlorinated compounds, which we don't think actually exist. I think we should go ahead and model them, we can decide later whether or not to report them.

I am not sure if we need to model the HAP **increases only** or **totals** from existing sources, so I would like to discuss that with you today. I do think it best to use the maximum anticipated emission, but I would like to discuss that with you too.

Dolly A. Potter

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Solvay Minerals, Inc.
HAP and VOC Data

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UNIT		CA-1&2	CA-1&2	CA-4	CA-3	CA-3
		Total	Increase		Total	Increase
Production Rate		400 TPH	75 TPH	275 TPH	200 TPH	38 TPH
Remarks		Using ave + 3*Std dev (from stack tests)				
		PPH	PPH	PPH	PPH	PPH
VOC		1180	221	811	848	161
BENZENE		25.06	4.70	17.23	10.61	2.02
1,3 BUTADIENE		51.89	9.73	35.68	30.94	5.88
ETHYLBENZE		6.15	1.15	4.23	1.73	0.33
2-BUTANONE		19.62	3.68	13.49	2.66	0.51
HEXANE		14.71	2.76	10.11	6.90	1.31
STYRENE		5.96	1.12	4.10	4.18	0.79
TOLUENE		13.29	2.49	9.14	3.40	0.65
XYLENE		22.60	4.24	15.54	7.78	1.48
1,1,1-TRICHLOROET		11.43	2.14	7.86	4.03	0.77
ACRYLONITRILE		5.45	1.02	3.75	1.52	0.29
METHYLENE CHLOR		1.26	0.24	0.87	1.89	0.36
TRICHLOROETHENE		38.28	7.18	26.32	3.79	0.72
FROMALDEHYDE		0.38	0.07	0.26	0.12	0.02
ACETALDEHYDE		1.19	0.22	0.82	0.24	0.05
PROPIONALDEHYDE		0.42	0.08	0.29	0.07	0.01
ACROLEIN		1.74	0.33	1.20	0.31	0.06
ACETONE		1.26	0.24	0.87	0.31	0.06
2-BUTANONE		0.63	0.12	0.43	0.16	0.03

Solvay Minerals, Inc.
HAP and VOC Data

UNIT		CA-1&2	CA-1&2	CA-4	CA-3	CA-3
		Total	Increase		Total	Increase
Production Rate		400 TPH	75 TPH	275 TPH	200 TPH	38 TPH
Remarks		USING CEM DATA AVE ONLY				
		PPH	PPH	PPH	PPH	PPH
VOC PPH		187.52	35.16	165.41	93.76	17.81
		TPY	TPY	TPY	TPY	TPY
VOC TPY		821.34	154.00	724.51	410.67	78.03

HAP and VOC Data

UNIT		CA-1&2	CA-1&2	CA-4	CA-3	CA-3
		Total	Increase		Total	Increase
Production Rate		400 TPH	75 TPH	275 TPH	162 TPH	38 TPH
Remarks		USING CEM DATA W/ AVE + 3STDDEV				
		PPH	PPH	PPH	PPH	PPH
VOC PPH		426.68	80.00	366.00	172.81	40.53
		TPY	TPY	TPY	TPY	TPY
VOC TPY		1868.86	350.41	1603.07	756.89	177.54

HAP and VOC Data

UNIT	CA-1&2	CA-1&2	CA-4	CA-3	CA-3
	Total	Increase		Total	Increase
Production Rate	400 TPH	75 TPH	275 TPH	200 TPH	38 TPH
Remarks	Using average emissions from stack tests				
	PPH	PPH	PPH	PPH	PPH
VOC	412	77	311	246	47
BENZENE	11.14	2.09	8.40	6.65	1.26
1,3 BUTADIENE	7.55	1.42	6.07	5.06	0.96
ETHYLBENZE	1.70	0.32	0.91	0.48	0.09
2-BUTANONE	3.78	0.71	1.81	0.74	0.14
HEXANE	3.56	0.67	2.62	2.03	0.39
STYRENE	2.06	0.39	1.53	1.19	0.23
TOLUENE	5.59	1.05	3.61	2.46	0.47
XYLENE	7.66	1.44	4.82	3.18	0.60
1,1,1-TRICHLOROET	2.18	0.41	2.70	2.84	0.54
ACRYLONITRILE	1.04	0.20	0.56	0.29	0.06
METHYLENE CHLOR	0.24	0.05	0.33	0.36	0.07
TRICHLOROETHENE	7.82	1.47	3.49	1.16	0.22
FROMALDEHYDE	0.30	0.06	0.13	0.04	0.01
ACETALDEHYDE	0.26	0.05	0.17	0.11	0.02
PROPIONALDEHYDE	0.08	0.02	0.05	0.03	0.01
ACROLEIN	0.72	0.14	0.43	0.27	0.05
ACETONE	0.24	0.05	0.12	0.06	0.01
2-BUTANONE	0.12	0.02	0.06	0.03	0.01
Acetophenone	0.0160	0.0030	0.0110	0.0080	0.0015
Biphenyl	0.0228	0.0043	0.0157	0.0114	0.0022
bis(2-Ethylhexl)phthal	0.0015	0.0003	0.0011	0.0008	0.0001
2-Chloroacetonphenor	0.0014	0.0003	0.0010	0.0007	0.0001
3/4=Methylphenol	0.0093	0.0018	0.0064	0.0047	0.0009
Cumene	0.0018	0.0003	0.0012	0.0009	0.0002
Dibenzofuran	0.0191	0.0036	0.0131	0.0095	0.0018
Di-n-Butylphthalate	0.0115	0.0022	0.0079	0.0058	0.0011
N,N-Dimethylaniline	0.0076	0.0014	0.0052	0.0038	0.0007
Naphthalene	0.1477	0.0277	0.1016	0.0739	0.0140
Phenol	0.0907	0.0170	0.0623	0.0453	0.0086

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