N517330505

DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

ACTIVITY REPORT: Scheduled Inspection

FACILITY: NELSON PAINT C	0	SRN / ID: N5173	
LOCATION: ONE NELSON D	R, KINGSFORD	DISTRICT: Upper Peninsula	
CITY: KINGSFORD		COUNTY: DICKINSON	
CONTACT: Douglas Wiegel,	Regulatory Compliance Manager	ACTIVITY DATE: 08/06/2015	
STAFF: Ed Lancaster	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR	
SUBJECT: Conducted unanno	ounced compliance inspection.	*	
RESOLVED COMPLAINTS:			

I arrived at Nelson Paint and was introduced to Mr. Douglas Wiegel, Safety and Compliance Manager for Nelson Paint. Mr. Wiegel recently took over the environmental compliance duties.

We began the inspection by going over the recordkeeping requirements of the Company's Air Use Permit No. 354-93A. Mr. Wiegel provided me with a spreadsheet of the VOC emissions from January 2011 through June 30, 2015. Mr. Wiegel said he submits the raw material used at the plant (Special Condition (SC) No. 6) to a consultant that provides him with the spreadsheet of their VOC emissions (see below). The company is in compliance with their annual VOC limit of 11 tons per year; however the spreadsheet did not provide the pound per hour limit. Mr. Wiegel said they do not work overtime, only 8 hours per day, Monday through Friday; therefore, the maximum hours worked per year would be 2080. Based on this information and using the highest annual VOC emissions reported over the last five years (5.77 tons in February 2013) the company has an hourly VOC emission rate of 5.55 pounds (SC No. 1).

The company maintains a small baghouse on the roof of the building to capture PM emissions (SC Nos. 2 and 5). Mr. Wiegel said the company recently replaced the baghouse fan motor which was the only major repair they have had to do to the unit. The baghouse has a small tray under the bags to collect the captured PM. The tray is about 18 inches by 30 inches by 4 inches deep. There was very little accumulated dust in the unit during my inspection. A visual inspection of the structure housing the baghouse and the surrounding roof area showed no signs of fallout or holes in the bags. The PM captured by the baghouse is mostly paint pigments so it is expected if there was a malfunction with the baghouse it would be readily observable on the roof and the neighboring businesses. No VEs were observed during the inspection (SC No. 3).

During the inspection only two mixers were in operation. One mixer was producing a latex paint the other a solvent based paint. I could not detect any odors from the process and both mixers had their covers in place (SC No. 4). The covers are round sheets of metal with a U-shaped opening to allow the mixer rod access. A large section of flexible duct (approximately 6 to 8 inches in diameter) is placed near the opening to capture the fumes and particulate.

At the time of the inspection the company appeared to be in compliance with their permit and the Air Quality Rules.

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DATE ()/

SUPERVISOR_____

Nelson Paint Company Monthly Air Permit Records Michigan DEQ - Air Use Permit # 354-93A For 2015 - YTD through

6/30/2015

onth/Year	Solvent Used - pounds	Pigment Usage - pounds	Paint Produced (all types) - pounds	Total VOC Emissions - Tons	VOC - 12 Month Rolling Time Period - Tons (Limit is 11 TPY)	In Compliance With Rolling Average Limit Yes/No
	18,582	4,474	47,939	0.36	4.88	Yes
Feb-11	22,536	5,340	49,322	0.37	4.93	Yes
Mar-11	23,037	6,093	56,082	0.42	4.95	Yes
Apr-11	24,868	6,919	63,557	0.48	4.90	Yes
May-11	21,445	5,523	55,525	0.42	4.92	Yes
Jun-11	32,352	6,918	69,967	0.52	5.01	Yes
Jul-11	17,621	3,671	45,294	0.34	4.81	Yes
Aug-11	27,770	14,335	77,568	0.58	5.08	Yes
Sep-11 Oct-11	18,275 13,708	4,650 4,000	46,840 53,645	0.35 0.40	4.88 4.88	Yes
Nov-11	15,448	4,752	33,682	0.40	4.77	Yes
Dec-11	19,225	4,754	46,721	0.35	4.85	Yes
Jan-12	23,167	4,993	52,525	0.39	4.88	Yes
Feb-12	22,126	5,771	56,862	0.43	4.94	Yes
Mar-12	29,819	6,531	62,861	0.47	4.99	Yes
Apr-12	25,441	7,233	65,218	0.49	5.00	Yes
May-12	31,373	8,759	85,045	0.64	5,22	Yes
Jun-12	20,950	12,083	60,444	0.45	5.15	Yes
Jul-12	22,305	27,214	90,781	0.68	5.49	Yes
Aug-12	29,366	9,614	74,173	0.56	5.47	Yes
Sep-12	19,451	10,056	46,191	0.35	5.46	Yes
Oct-12	38,980	7,364	95,451	0.72	5.77	Yes
Nov-12	41,026	3,913	51,795	0.39	5,91	Yes
Dec-12	23,887	6,825	65,613	0.49	6.05	Yes
Jan-13	34,772	6,049	95,476	0.72	6.37	Yes
Feb-13 Mar-13	22,300	5,382	197,081	1.48 0.28	7.43 7.23	Yes
Apr-13	12,005 17,934	5,944 5,855	36,834 46,829	0.28	7.23	Yes Yes
May-13	15,715	3,762	42,173	0.33	6.77	Yes
Jun-13	22,907	5,407	64,964	0.49	6.81	Yes
Jul-13	37,403	8,233	97,984	0.73	6.86	Yes
Aug-13	23,625	5,132	58,066	0.44	6.74	Yes
Sep-13	22,670	5,957	55,790	0.42	6.81	Yes
Oct-13	18,113	4,362	38,818	0.29	6.39	Yes
Nov-13	24,549	4,871	63,378	0.48	6.47	Yes
Dec-13	13,182	3,141	32,792	0.25	6.23	Yes
Jan-14	21,623	1,585	30,412	0.23	5.74	Yes
Feb-14	12,646	3,591	33,157	0.25	4.51	Yes
Mar-14	20,619	4,828	52,377	0.39	4.63	Yes
Apr-14	17,513	3,461	73,545	0.55	4.83	Yes
May-14	21,443	6,352	58,296	0.44	4.95	Yes
Jun-14	17,763	5,386	40,654	0.30	4.76	Yes
Jul-14	22,901	3,579	58,290	0.44	4.47	Yes
Aug-14	20,137	6,932	58,754	0.44	4.47	Yes
Sep-14	17,795	4,389	47,268	0.35	4.41	Yes
Oct-14	22,633	5,159	71,067	0.53	4.65	Yes
Nov-14	18,877	5,100	50,792	0.38	4.56	Yes
Dec-14	22,238	5,341	60,743	0.46	4.77 5.02	Yes
Jan-15	23,291	6,655	63,889	0.48	5.11	Yes
Feb-15	16,461	4,888	45,174	0.34	5.28	Yes
Mar-15	28,953	6,608	75,937	0.57	5.28	Yes
Apr-15	25,037	6,876	86,469	0.65	5.32	Yes
May-15	20,657	4,642 6,595	50,420	0.38	5.37	
Jun-15	16,920	6,595	46,735		4.93	
Jul-15				0.00	4.49	
Aug-15 Sep-15				0.00	4.49	
Oct-15				0.00	3.60	
Nov-15				0.00	3.22	
Dec-15				0.00	2.76	
Dec- 15				0.00	2.70	

Rec'd 8/6/15 from Doug W. VOC Emissions Alternative Emission Factor Based on Solvent Use

Total VOC Emissions - Tons	VOC - 12 Month Rolling Time Period - Tons (Limit is 11 TPY)
0.32	4.74
0.38	4.85
0.39	4.87
0.42	4.84
0.36	4.81
0.55	4.87
0.30	4.66
0.47	4.70
0.31	4.52
0.23	4.31
0.26	4.27
0.33	4.33
0.39	4.41
0.38	4.40
0.51	4.52 4.53
0.43	4.70
0.36	4.70
0.38	4.58
0.50	4.55
0.33	4.63
0.66	5.06
0.70	5.49
0.41	5.57
0.59	5.77
0.38	5.77
0.30	5.47
0.30	5.34
0.27	5.08
0.39	5.11
0.64	5.37
0.40	5.27
0.39	5.32
0.31	4.97
0.42	4.69
0.22	4.51
0.37	4.28
0.21	4.12
0.35	4.27
0.30	4.26
0.36	4.36
0.30	4.27
0.39	4.02
0.34	3.96
0.34	
	3.88
0.38	3.96
0.32	3.86
0.38	4.02
0.40	4.04
0.28	4.11
0.49	4.25
0.43	4.38
0.35	4.36
0.29	4.35
0.00	3.96
0.00	3.62
0.00	3.32
0.00	2.93
0.00	2.61
0.00	2.23
3.00	2,20

Notes:

- 1. "Paint Produced" includes all types of paints and solvent repackaged.
- 2. "Total VOC Emissions Tons" is calculated using the total paint produced (as defined above) and applying a facility wide emission factor of 30# of VOC per ton of paint produced.
- 3. The "VOC 12 Month Rolling Time Period" is calculated by totaling the emissions for the 12 month period ending each month.

NOTE: 2003 data submitted to MDEQ by Doyle on 2/11/2004
NOTE: Changed VOC....Ave. title from "VOC - 12 Month Rolling Ave. Tons (Limit is 11 TPY)" TO "VOC - 12 Month Rolling Time
Period Tons (Limit is 11 TPY)" based on agreement with Doyle after document was submitted to MDEQ.
NOTE: Found an error in formula. Was totalling 13 months. Corrected March 2, 2004
11 tpy = 0.917 tpm