

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: On-site Inspection

N215563115

FACILITY: FCA US LLC - JEFFERSON NORTH ASSEMBLY PLANT		SRN / ID: N2155
LOCATION: 2101 CONNER AVE, DETROIT		DISTRICT: Detroit
CITY: DETROIT		COUNTY: WAYNE
CONTACT: Rebecca Payne , Supervisor Env, Health, Safety-MACK Assembly		ACTIVITY DATE: 06/02/2022
STAFF: Robert Byrnes	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MAJOR
SUBJECT: Site Inspection and Sampling for VOC's around paint shop.		
RESOLVED COMPLAINTS:		

On June 2, 2022 I visited the Stellantis Mack Assembly Plant to observe sampling for VOC emissions around the paint shop.

I began the day by conducting odor observations on Beniteau Street from 8:15 am to 8:45 am. Observations were done at the corner of Beniteau and Canfield E. The following observations were made:

Time	Description	Odor Intensity (0-5)
8:17 am	H2O Wash?	1.0
8:27 am	Couldn't identify	1.0
8:37 am	ND	0

ND – Non Detect

After the brief odor observations, I entered the facility for the sampling. Present at the facility were:

Stellantis: Paul Diven, Rebecca Payne, Tom Caltrider

RWDI: Brad Bergeron and 2 workers

Mannik Smith: 2 workers

EGLE AQD: Matt Riselay, Amy Robinson, Tom Gauthier, April Wendling

All persons present made an initial walk around the paint shop to determine the best spots to set up the sampling sites. We then walked around the paint shop again and set the sampling devices. 24 hour Summa Cannisters were set in duplicate (Stellantis's by RWDI and EGLE/AQD by Mannik Smith), 8 hour sorbent tubes were set for VOC's, Aldehydes, Alcohols and other compounds. The following notes were taken at each sampling site:

Site 1 – North end of paint shop, general side building ventilation near Final Repair.

9:45 am, noticed definite and distinct paint odors of level 2.

Site 2 – West Side of paint shop,

10:00 am, no odors detected.

Site 3 – South end of paint shop, beginning of prime paint line, near beginning of topcoat lines.

10:20 am, noticed definite and distinct paint odors of level 2.

Site 4 – South East corner of paint shop, near tressel to final assembly.

10:40 am, noticed definite and distinct paint odors, also skunk odor, level 2 for both.

Site 5 – RTO on the paint shop East side.

10:52 am, noticed definite and distinct paint odors of level 2.

Site 6 – Air Monitoring Station

11:45 am, no odors detected.

After setting up the sampling sites Paul and I went back to the office to observe some operating information. The following information was observed for VOC abatement equipment and production data.

Concentrators	Desorb #1	Desorb #2
Fan Speed	58 Hz	60 Hz
Desorb inlet temp.	368	363
Desorb SP	370	370

RTO Fan #1 59 Hz, Fan #2 59 Hz

1451 Degrees F chamber temperature

1450 SP

Pressure drop -7.8" wc

Production data was briefly written down, Paul Diven stated he would email the production data.

	Booth 1	Booth 2
6-7 am	8	
7-8 am	13	
8-9 am	19	
9-10 am	26	
10-11 am	9	
11-12 pm	22	
12-12:26 pm	9	
Total	106	140

I left the facility at approximately 12:45 pm and returned to Beniteau to conduct additional odor observations. The following notes were taken:

Time	Location	Description	Odor Intensity (0-5)
1:10-1:12 pm	DHS, SW gust	H2O/paint shop	2
1:13-1:15 pm	DHS	ND	0
1:20 pm	Mack Service Drive	ND	
1:25 pm	Mack Service Drive	Metal/welding/bodyshop	2
1:28-1:32 pm	Mack Ave. South of Paint Shop	ND	0

1:33 pm	Mack & Beniteau	ND	0
1:34 pm	Beniteau & E. Canfield	ND	0
1:38 pm	Beniteau & E. Canfield	H2O wash (breeze towards me)	1
1:40 pm	Beniteau & E. Canfield	ND (breeze away from me)	0
1:42 pm	Beniteau & E. Canfield	ND	0
1:45 pm	Beniteau & E. Canfield	ND	0
1:46 pm	Beniteau & E. Canfield	ND	0
1:47 pm	Beniteau & E. Canfield	ND	0

I left the vicinity at 1:48 pm.

NAME Robert Byrnes

DATE 6-2-2022

SUPERVISOR APRIL WENDLING 10/11/2022