

January 29, 2021

cc: Mohr
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097035AAQ
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Illinois Environmental Protection Agency
Bureau of Air, Compliance Section (#40)
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STATE OF ILLINOIS
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ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF AIR

RE: *Construction Permit No. 19100015 Quarterly Report – Q4 2020*
Vantage Specialties Inc., Gurnee, IL (Facility ID 097035AAQ)

To Whom It May Concern:

Vantage Specialties Inc. (Vantage Specialties) hereby submits the Quarterly Report for Construction Permit No. 19100015, for our plant located in Gurnee, Illinois (Facility ID 097035AAQ). On December 17, 2019, Vantage Specialties received Construction Permit No. 19100015, which sets an annual cap on the Gurnee Facility's emissions of Ethylene Oxide (EO) beginning in calendar year 2020. This report is submitted pursuant to Condition 7(a) of the Construction Permit. The Construction Permit conditions that specify quarterly report details are included below, shown in italics, with our responses to each condition following in bold.

General Conditions

Construction Permit No. 19100015 requires the following:

Condition 7 (a):

The Permittee shall submit quarterly reports to the Illinois EPA that include the following information. These reports shall be submitted within 30 days of the end of each calendar quarter.

This quarterly report covers the period of October 1, 2020, to December 31, 2020. This quarterly report is being submitted within 30 days of the end of the calendar quarter (i.e., by January 30, 2021).

(i). The information required to be reported in these quarterly reports by other conditions of this permit.

This quarterly report includes the information required by Conditions 7(a), 17(b), 17(c)(ii), 22(a), and 22(b)(ii) of Construction Permit No. 19100015.

(ii). A summary of the notifications required to be submitted by other conditions of this permit for deviations from the requirements of this permit, if any, during the quarter.

Please see item 17(c)(ii) below.

(iii). For the first, second and third quarters for a calendar year:

- 1) The cumulative emissions of ethylene oxide in the calendar year from the affected facility in total and from affected components based on emission data collected through such period(s) and,*

This permit condition does not apply to this quarterly report.

- 2) If cumulative emissions are more than 25, 50 or 75 percent, respectively, of the emission cap in Condition 3(a), a discussion of whether these cumulative emissions were the result of circumstances that are expected to be present in the remainder of the calendar year.

This permit condition does not apply to this quarterly report.

(iv). With the quarterly report for the fourth quarter in each calendar year:

- 1) Emissions of ethylene oxide of the affected facility and from affected components for the calendar year, and

Cumulative Emissions of Ethylene Oxide for calendar year 2020

	Emission Cap (lbs/year) *	Cumulative Emissions (lbs for calendar year 2020)	Cumulative Emissions/ Emission Cap (%)
Affected Facility	110	62.44	56.76%
Affected Components	60	32.20	53.67%

Note: * Emission Cap per Condition 3(a) of Construction Permit No. 19100015. The cap limits emissions per calendar year.

- 2) If emissions exceed the emission cap in Condition 3(a), provide the notification for the deviation from this cap pursuant to Condition 7(b)(i) in this quarterly report.

The cumulative emissions are not more than the emission cap in condition 3(a).

Affected Process Equipment

Construction Permit No. 19100015 requires the following:

Condition 17 (b):

In the quarterly reports required by Condition 7 (a), the Permittee shall provide information describing changes to the monitoring systems that are required by Conditions 13(a) and (b), if any, to improve the limit of quantification of these systems, including a description of the changes, the rationale for the changes, a description of the expected and actual result of the changes, and confirmation that the changes did not negatively affect the performance of the monitoring systems.

No changes were required by Conditions 13(a) and (b) to improve the limit of quantification of these systems during the reporting period.

Condition 17 (c)(ii):

Notifications for other deviations shall be submitted with the quarterly report.

On November 23rd, daily calibrations of the CEMS did not occur due to the CEMS being taken offline from 9:00 to 10:19 AM. A planned pressure and vacuum leak check was performed on the CEMS sample tubing during the daily calibration time frame which caused the CEMS to fail to run a calibration after the data collection resumed.

Vantage Specialties is reporting this as a deviation from Condition 13(c)(ii), which refers to 40 CFR 63.8(c), in which paragraph 63.8(c)(6) mentions calibrations at least once daily. Daily calibrations were passed the following day and have been conducted daily on all the other operating days. Future maintenance activities are scheduled outside the calibration time frame to avoid interruptions.

Affected Components

Construction Permit No. 19100015 requires the following:

Condition 22(a):

In the quarterly reports required by Condition 7(a), the Permittee shall include the following information for each monitoring campaign for affected components completed during the quarter. To the extent that the specified information is not yet available (e.g., maintenance of components in response to the campaign is not completed), such information shall be reported in the subsequent quarterly report.

(i). General information for each monitoring campaign, including

- 1) Responsible entity;*
- 2) Start and end dates;*
- 3) Number of monitoring personnel;*
- 4) Total number of components in the affected facility;*
- 5) Number of components monitored; and*
- 6) Numbers of components, by the applicable reason (e.g., not in operation or not in ethylene oxide service at the time of the campaign), that were not monitored.*

Please see below for the general information for the monitoring campaigns during the reporting period.

	October	November	December
Responsible entity	Montrose Air Quality Services	Montrose Air Quality Services	Montrose Air Quality Services
Start Date	10/1/2020	11/2/2020	12/1/2020
End Date	10/1/2020	11/3/2020	12/1/2020
Number of monitoring personnel	1	1	1
Total number of components in the affected facility	712	712	712
Number of components monitored	712	712	712
Numbers of components, by the applicable reason (e.g., not in operation or not in ethylene oxide service at the time of the campaign), that were not monitored	0	0	0

(ii). Summary information for components that were not leaking for which maintenance was initiated as a result of the monitoring, including the numbers of components, by the type of component, for which maintenance was performed.

There were no components that were not leaking for which maintenance was initiated as a result of the monitoring during the reporting period.

(iii). Detailed information for each leaking component that was identified in the monitoring campaign, including:

- 1) Component Identifier;*
- 2) Type of component;*
- 3) Dates and times when the initial repair was completed and follow-up monitoring was conducted;*

- 4) If further repairs were needed, dates and times when final repairs were completed and follow-up monitoring conducted, and
- 5) A description of the repair(s) that were completed for the component.

There were no leaking components in October, November, and December 2020.

Condition 22 (b)(ii):

Notifications for other deviations shall be submitted with the quarterly report

There were no deviations from the affected component permit conditions in October, November, and December 2020.

If there are any questions concerning this report, please do not hesitate to call the Gurnee Facility's Environmental Engineer, Ms. Dee Vanek, at (847) 249-6805.

Sincerely,



Bernie Stratton
Site Manager

1/29/2021

Date