## **STATEMENT OF BASIS**

On February 23, 2021, US Gypsum, submitted a permit application to modify its existing Major Source Operating Permit (MSOP) No.: 705-0041. The permit was issued on February 2, 2021 with an expiration date of February 1, 2026.

## **NOTABLE CHANGES**

In this modification, US Gypsum is requesting to make modifications to the Gypsum Drying Kiln portion of the Title V permit. At the Gypsum Drying Kiln, wet gypsum wallboards are fed from the manufacturing line into the board tunnel drying kiln. Water is driven out of the board via convective heaters. There is one emission point associated with this process. All five convective heaters exhaust through this one emission point.

The facility originally applied for modification of the Gypsum Drying Kiln permit in 2017 and Air Permit No.:705-0041-X016 was issued on August 2, 2017. This air permit added provisions on the usage of coated and uncoated glass mat in any consecutive 12-month period.

The MSOP will include a limitation on the usage of coated glass mat to not exceed 2,850,000 pound in any consecutive 12-month period. Also, the MSOP will include a limitation on the usage of uncoated glass mat to not exceed 750,000 pounds in any consecutive 12-month period. The facility shall maintain monthly and consecutive 12-month rolling totals of coated glass mat and uncoated glass mat.

The permit provisions for the permit modification including limits on the usage of coated and uncoated glass mat will be rolled into the MSOP during this modification.

## **EMISSIONS**

The table below shows the potential emissions of the gypsum drying kiln. The emissions are based on engineering data, AP-42 emission factors and 8,760 hrs/yr.

Francisco Pour	EMISSIONS TPY						
EMISSION POINT	PM 2.5/10	NO <sub>x</sub>	СО	VOC	SO <sub>2</sub>	HAP <sub>TOTAL</sub>	
EP-35	43.53	159.50	77.45	61.89	0.61	10.23	

Below are the potential emissions due to the use of chain oil lubricant.

	EMISSIONS	
EMISSION POINT	TPY	
	VOC	
EP-35	14.73	

Below are the potential emissions due to the use of Siloxane.

EMISSION	Emissions
POINT	TPY

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	PM <sub>10</sub>	VOC	FORMALDEHYDE
EP-35	14.4	14.76	2.88

## RECOMMENDATIONS

The requirements for the modified Gypsum Drying Kiln, which was permitted under Air Permit X016 will be rolled into the MSOP during this modification.

The following pages of the MSOP have been revised to reflect the modification changes (see draft pages in Attachment A):

• Provisos for Gypsum Drying Kiln: Pages 50 and 52

Haley K. Crumpton

April 6, 2021

Date

Haley K. Crumpton Environmental Engineering Specialist, Sr. Air Division Energy Branch Industrial Minerals Section **US GYPSUM FACILITY**FACILITY No.: 705-0041
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**ATTACHMENT A: DRAFT PROVISOS**