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

B410271762		
FACILITY: U S GYPSUM CO		SRN / ID: B4102
LOCATION: 1550 Gypsum Road, TAWAS CITY		DISTRICT: Bay City
CITY: TAWAS CITY		COUNTY: IOSCO
CONTACT: Erin Fox , Accountant		ACTIVITY DATE: 04/30/2024
STAFF: Nathanael Gentle	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Unannounced Scheduled Onsite Inspection		
RESOLVED COMPLAINTS:		

On April 30, 2024, AQD staff conducted an unannounced scheduled onsite inspection at US Gypsum SRN B4102. The purpose of the inspection was to determine compliance with the Federal Clean Air Act; Article II, Part 55, Air Pollution Control of Natural Resources and Environmental Protection Act, 1994 Public Act 451; Michigan Department of Environment Great Lakes and Energy, Air Quality Division (AQD) Administrative Rules and Permit to Install (PTI) No. 306-01. EGLE AQD staff included Dillon King and Nathanael Gentle. At the time of inspection, the facility was found to be in compliance.

Facility Description and History

US Gypsum is located at 1550 Gypsum Road, Tawas City, MI 48763. The facility specializes in the mining of gypsum rock. Gypsum rock is mined from the quarry using a surface continuous miner. The mined material is trucked to the quarry process area where it is staged before being loaded into trucks for sales. PTI No. 306-01 is a general PTI for a nonmetallic mineral crushing facility. Historically, a nonmetallic mineral crusher facility was used to resize and sort gypsum material in the quarry process area. At the time of inspection, the crusher was observed to be onsite but not operating. Staff reported the crusher facility has not been operated since calendar year 2020. At the time of inspection, the facility was in the process of working to open a new section of the quarry and retire the old section of the quarry.

PTI 306-01 was issued on October 9, 2001. The PTI was modified on March 20, 2008, to remove device IDs Mill01 through Mill17. The PTI was again modified on May 13, 2009, to add a single roller crusher (PC12) and a crusher loading conveyor (PC11) USG was last inspected in September 2018. At the time of the 2018 inspection the facility was found to be operating in compliance. No complaints are on file for the facility. USG is a minor source. The crusher is listed as being subject to 40 CFR Part 60 Subpart OOO Standards of Performance for Nonmetallic Mineral Processing Plants. The facility is required to report annual emissions. Emission reports have historically been received on time and complete.

Compliance Evaluation

PTI No. 306-01 FGCRUSHING encompasses the nonmetallic mineral crushing facility and associated process equipment. Staff report no changes have been made to the equipment since the last inspection in 2018. Process equipment was compared to that listed in the PTI modification application for the 5/18/2009 PTI modification. Equipment in the nonmetallic mineral crushing facility was verified to include, 20 ton feed hopper, 125'x36' radial stacker, 200 ton surge bin, surge bin pan feeder, small transfer conveyor, 20 ton feed hopper, screen loading

conveyor, 8'x24' 3-deck screening plant, stockpile conveyor, 125'x36" radial stacker, surge bin pan feeder, fines conveyor, collecting conveyor, crusher loading conveyor and MMD single roller crusher rated at 25 tons/hr. Equipment that has been removed from the facility since 5/18/2009 includes two truck loading conveyors and a 200-ton surge bin.

The permittee shall not process more than 2,000,000 tons of any non-metallic mineral through FGCRUSHING per year per site, Special Condition (S.C.) 1.3. Special Condition 1.9 requires the permittee to maintain daily and annual records of the amount of material processed. Staff report during operation of the crushing facility, tonnage of material processed is tracked based on hours of operation. Being the facility had not operated the crushing facility since 2020, time was not taken to evaluate material processing records.

Visible emissions from FGCRUSHING shall not exceed the limits listed in the table of Special Condition (S.C.) 1.2. Being the crushing facility was not in operation, AQD staff were unable to verify compliance with visible emission limits. Both the crusher and the screener were verified to be equipped with water spray control, S.C. 1.7 Water is obtained from a ground water hydrant. Staff report when the crushing facility is operating water control is operated as needed to ensure compliance with the permitted opacity limits. Verification of visible emission rates is required from all NSPS subject crushers, screens, all transfer points on conveyors, and all other miscellaneous equipment associated with FGCRUSHING and covered by the NSPS Subpart OOO, S.C.18. The most recent change in equipment for FGCRUSHING was with the addition of the MMD single roller crusher rated at 25 tons/hr and the crusher loading conveyor with the PTI modification issued on 5/18/2009. Testing to verify visible emissions for the single roller crusher and associated crusher loading conveyor was completed on 6/9/2010.

The permittee shall not replace or modify FGCRUSHING or any portion of FGCRUSHING, including control equipment, unless the conditions listed in S.C.1.12 are met. At the time of inspection, no changes had been made to FGCRUSHING since the most recent 2018 inspection. Special Condition 1.13 outlines the permittees requirements for relocating FGCRUSHING to any new geographical site in Michigan. Onsite staff report the equipment operates solely at the USG quarry and is not relocated to new geographical locations.

Special Condition 1.6 stipulates the permittee shall not operate FGCRUSHING unless the program for continuous fugitive emissions control for all facility roadways, the facility yard, all storage piles, and all material handling operations specified in appendix A has been implemented and maintained. Dust from site roadways and material stockpiles is controlled using a water spray truck. The water spray truck is equipped with arm sprayers that are used to spray site roadways and a water cannon that is used to spray material stockpiles. Staff report the water spray truck is operated as needed to control dust from roadways and material stockpiles. Currently water is used, however staff report the facility is looking into using solutions such as Calcium Chloride for dust control. S.C.III.d. of Appendix A requires records be maintained of all applications of dust suppressants. Records of dust suppressant applications were requested and provided for the period of July 2023. Records of water truck usage are maintained as part of a Quarry Shift Log. A section of the form is devoted to documenting water truck hours used, the operator, and the reason ran or not ran. During the period of records reviewed this section of the form was completed. Records provided demonstrate the facility is conducting water spray truck activities as needed and maintaining records of such activities.

Summary

On April 30, 2024, AQD staff conducted an unannounced scheduled onsite inspection at US Gypsum SRN B4102. US Gypsum is located at 1550 Gypsum Road, Tawas City, MI 48763. The facility specializes in the mining of gypsum rock. One PTI is associated with the facility, PTI No. 306-01. PTI No. 306-01 is a general PTI for a nonmetallic mineral crushing facility. Historically, a nonmetallic mineral crusher was used to resize and sort gypsum material in the quarry process area. The crusher was observed to be onsite but not operating. At the time of inspection, the facility was found to be in compliance.

nathanael Dente

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NAME

DATE 5/29/2024