

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Scheduled Inspection

N739728592

FACILITY: Industrial Resin Recycling Inc. (formerly JCIM)		SRN / ID: N7397
LOCATION: 705 E. VAN RIPER RD., FOWLERVILLE		DISTRICT: Lansing
CITY: FOWLERVILLE		COUNTY: LIVINGSTON
CONTACT: Tim Orr, Plant Manager		ACTIVITY DATE: 02/11/2015
STAFF: Brian Culham	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: This was an unannounced scheduled inspection. Industrial Resin Recycling was last inspected 12 years ago.		
RESOLVED COMPLAINTS:		

Tim Orr, Plant Manager - TO@industrialresin.com

This was an unannounced scheduled inspection. Industrial Resin Recycling was last inspected 12 years ago. I met with Tim Orr, the plant manager. The owner, Patrick Kavanaugh, was not at the plant, but was contacted by T. Orr by phone.

Industrial Resin Recycling is located in an industrial area on the south end of Fowlerville just north of the I-96 expressway. Most of the surrounding area is agricultural and commercial, but a large concentrated residential area is evident ½ mile to the north.

Industrial Resin Recycling collects source separated scrap plastic parts from plastic manufactures. The materials are recycled into a form that can be sold as a resin for re-molding into plastic components again. Processes include the removal of unwanted components, raw material size reduction, milling and screening to size specification, and for some customers, the coloring and extruding into a pellet form.

Our files indicate that Industrial Resin Recycling was previously known as JCIM.

The criteria pollutant of concern is Particulate Matter. Because all emission units are exempt from the need for permitting, it is not expected that the combined potential to emit PM₁₀ would exceed 100 tons per year. Also, no hazardous air pollutants were identified as a potential air discharge. Industrial Resin Recycling is therefore considered a "true minor" source of all pollutants regulated under Title V of the Clean Air Act.

Industrial Resin Recycling is not presently required to report air emissions to the AQD through the Michigan Air Emissions Reporting System (MAERS).

I arrived in the area at 1:30 pm. No visible emissions were evident from any stacks or exhaust point associated with the plant. I did not experience any significant odors upon entry. I entered the plant through a side door and was introduced to the plant manager, Tim Orr. T. Orr accompanied me through the plant.

No.	Emission Unit or Flexible Group	Description	Permit Number or Exemption	Comp. Status
1	FGBandSaws	Band saws used on plastic substrate. Exhaust	APC Rule 285(l)(vi)(B)	C
2	FGGrinders	Hammer Mills/Rotary Cutters	APC Rule 285(l)(vi)(B)	C
3	EUWash	Plastic Wash	APC Rule 281(e)	C
4	EUExtruder	Plastic Extrusion	APC Rule 286(a)	C

1. FGBandSaws

I identified two (2) band saws used to re-size large plastic parts so that they could easily be handled through the recycling process. The saws were not connected to any external discharge system, but exhausted into the general in-plant environment.

The saw units were exempt from the need to obtain an air use permit as required by Rule 201, by Rule 285(l)(vi)(B).

2. FGGrinders

I identified four (4) mills used to "grind" (cut) plastic into chips approximately ¼" in size. The machines appeared to be either hammer mills or rotary cutters. T. Orr referred to the machines as grinders. The machines used cyclonic separators to recover the sized plastic chips. Exhaust was into the in-plant environment.

Equipment used for cutting or machining plastic substrates that release emissions into the general in-plant environment; or into the external air through an appropriately designed fabric filter, are exempt from the need to obtain an air use permit as required by Rule 201, by Rule 285(l)(vi)(B or C).

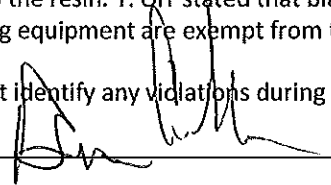
3. EUWash

Plastic chips are washed in a hot aqueous solution. T. Orr stated that no volatile organic compounds are added to the water solution. The wash unit was exempt from the need to obtain an air use permit as required by Rule 201, by Rule 281 (e).

4. EUExtruder

Some customers require that the chips be extruded into a resin pellet. If requested, pigment is added to assure a uniform color to the resin. T. Orr stated that black is presently the only pigment offered. Plastic extrusion and the associated resin handling equipment are exempt from the need to obtain an air use permit as required by Rule 201, by Rule 286(a).

I did not identify any violations during my inspection.

NAME 

DATE 2/20/2015

SUPERVISOR 