

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

N707324272

FACILITY: Se-Kure Dome & Mirrors		SRN / ID: N7073
LOCATION: 1139 Haines Boulevard, STURGIS		DISTRICT: Kalamazoo
CITY: STURGIS		COUNTY: SAINT JOSEPH
CONTACT: Scott Davidson ,		ACTIVITY DATE: 02/06/2014
STAFF: Dennis Dunlap	COMPLIANCE STATUS: Compliance	SOURCE CLASS:
SUBJECT: Scheduled inspection.		
RESOLVED COMPLAINTS:		

This was not an announced inspection. The Inspection brochure was handed out.

This facility makes reflective devices. Sheets of acrylic are shipped in and cut to various shapes and sizes. It may be heat formed into various shapes like domes.

There are three metallizer machines. These are chambers that are used to coat one side of the acrylic with aluminum. Racks with the acrylic and aluminum filament are placed in the machine. The chamber is placed under a vacuum. The vacuum pump is shut off and an electrical current is turned on which causes the aluminum to vaporize and coat the acrylic.

After aluminum coating, the acrylic may be put in a dust free area waiting to be painted. There are two spray booths covered under General Permit to Install No. 18-02. The side with the aluminum is painted usually with a grey paint. Clear coat may be used. After painting the mirrors may be placed in a cure oven at 125 degrees F. According to 2013 records, 1150 gallons of grey enamel was used. The SDS for this paint indicates that the VOC content is 0.92 pounds per gallon. This equates to 1,058 pounds of VOC. This is well within the limits of the permit. It was estimated that 10 gallons or less of clear coat was used in 2013.

There is a screen print room with two screen printers. Screen printing is exempt from permitting by Rule 287(e). There are also 2 digital printers that use ink cartridges like desk top printers. These machines are used to put a design on some of the products.

There are 4-5 laser cutting machines used to cut acrylic. These are connected to a duct that emits outside. This is covered by Permit to Install 268-05.

There is a room with cutting equipment such as saws and a router. These are connected by ducts to an outside dust collector. It is cleaned about once per month of collected material. These processes are exempt by Rule 285(l)(vi)(C).

There is a welding area for repairs. There is a parts washer. The lid was closed.

NAME Dennis Dunlap DATE 2/25/14 SUPERVISOR ma 2/25/2014