

P0512
MAWILA

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

P051240730

FACILITY: SCHILBE TREE CARE		SRN / ID: P0512
LOCATION: 1600 ENTERPRISE DRIVE, DEARBORN		DISTRICT: Detroit
CITY: DEARBORN		COUNTY: WAYNE
CONTACT: Kelvin Schilbe , Owner		ACTIVITY DATE: 07/18/2017
STAFF: Terseer Hemben	COMPLIANCE STATUS: Compliance	SOURCE CLASS: Minor
SUBJECT: Wood Heating Furnace		
RESOLVED COMPLAINTS:		

070

Scheduled Inspection: Schilbe Tree Care

Present: Kelvin J. Schilbe (STC)
Terseer Hemben (AQD)

SRN: P0512. Address: 1600 Enterprise/Industrial Avenue, Dearborn, MI 48120

Background:

Schilbe Tree Care (STC) provides services to the public through felling of trees, cleaning and recycling the untreated wood and leaves. STC disposes the leaves offsite, and chops stems into chips and pieces. The wood pieces and chips are burned in the building using a furnace for space heating of the building during winter seasons. The furnace is a Glenwood 7070-P model multi fuel heater, and has a 28 cubic ft. wood burning chamber with heat input capacity 600,000 Btu per hour. The Glenwood 7070 burns untreated wood and wood chips at the rate 84 cubic feet of dry wood per week at 90% efficiency. The manufacturer's specifications for the equipment is in AQD file. The equipment is exempt from Rule 201(1) application under Exempt Rule 282(2)(b)(iii). The furnace is operated only in the winter season of the year.

Inspection Narrative

I arrived at the Schilbe Tree Care facility at 0900 hours on July, 18, 2017. The purpose of visit was to conduct a scheduled inspection of the wood fueled space heater installed and operated at the facility for space heating. I was admitted onto the site by Mr. Schilbe, the owner. We went through a pre-inspection conference. Mr. Schilbe informed the equipment was operated for approximately 4 months, in the past year, for providing heat for shops in the building. We addressed the inspection agenda and proceeded to inspect the furnace and stack.

Mr. Schilbe walked me through the shop and showed the state of the equipment. The furnace is yet to be serviced since installed and commissioned in accordance with the manufacturer's service schedule. The stack had not been modified. There has not been any nuisance complaint from the citizens since the equipment was installed and commissioned.

Regulatory Summary:

1. Rule 201 (1): The STC informed the Glenwood 7070-P model furnace and stack had not been modified or changed since installed and commissioned. The process integrity was consistent with approved design. [Attachment - Response items # 1 and 4)

2. In furtherance, the Glenwood 7070-P model equipment met an exempt status based on Rule 282(2)(b)(iii). The exempt rule states in part, "The requirement of R 336.1201(1) to obtain a permit to install does not apply to any of the following:...

R 282(2)(b)(iii): " Wood, wood residue or wood waste that is not painted or treated with wood preservatives, which does not contain more than 25% plywood, chipboard, particleboard, and other

types of manufactured wood boards, that is not contaminated with other waste materials, and the equipment has a rated heat input capacity of not more than 6,000,000 Btu per hour." The Glenwood 7070 - P furnace has rated heat input 600,000 Btu per hour, which is less than the exempt limit. The equipment burns only untreated wood. [Attachment -Response item# 3].

3. Rule 370 (1) : This rule states in part: "Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air." STC bags ashes removed from the furnace and disposes through city solid waste removal system. There were no ashes or air contaminants spill or deposit on the property.

4. Rule 301/901: There was no visible opacity or perceived odors associated with the facility stack.

5. STC confirmed the facility only burned untreated wood as required by the Exempt Rule 282(2)(b)(iii). Written confirmation from the STC stated the facility only burned waste wood from their business.

Determination:

The DEQ-AQD Staff conducted a scheduled inspection of the STC Glenwood 7070 - P model equipment and associated stack. The facility was adequately maintained. The inspection determined the furnace and stack had been operated in compliance with the exempt rule associated with the process. In overall, the STC facility operated the wood burning furnace in compliance with air pollution control act.

NAME JLH

DATE 9/7/2017 SUPERVISOR JK