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

N781049464

FACILITY: Biewer Sawmill - Lake City LLC		**SRN / ID:** N7810
LOCATION: 1560 WEST HOUGHTON LAKE RD, LAKE CITY		**DISTRICT:** Cadillac
CITY: LAKE CITY		**COUNTY:** MISSAUKEE
CONTACT:		**ACTIVITY DATE:** 07/10/2019
STAFF: Kurt Childs	**COMPLIANCE STATUS:** Compliance	**SOURCE CLASS:** MINOR
SUBJECT: Compliance Inspection PTI 174-07A		
RESOLVED COMPLAINTS:		

Jodi Lindgren and I conducted an unannounced inspection of this source to determine compliance with the Air Pollution Control Rules and permit to install number (PTI) 174-07A. The PTI is for a virgin hardwood and softwood chip fired boiler equipped with exhaust gas reinjectioin and a multiple cyclone. The boiler generates steam for use in kilns that are used to dry freshly sawn lumber. The source also has a gas fired boiler to generate steam for two separate kilns as well as a log debarking and sawing mill and a planer mill for finishing the dimensional lumber.

At the time of the inspection weather conditions were sunny, 80 degrees F. with light SW winds. Upon entering the facility, It was noted that there were no visible emissions from either boiler stack. Most of the plant yard is paved and was free of dust, no fugitive emissions were observed. We met with Beiwer staff "Tom" who accompanied us on the inspection. He has been the boiler operator and planer mill supervisor. He informed us that the wood fired boiler was not operating and hadn't operated for probably two years. Power to the boiler has been disconnected and they will likely sell it. According to Tom, the boiler was never efficient, required constant staff attention, and did not work well with the softwood (Red Pine) fuel. He showed us the boiler and its adjacent kilns, none of which were operating.

We also observed the gas boiler which is a Hurst 20,700 lb/hr steam capacity unit manufactured in 1994. The gas boiler and its two kilns were operating. The kilns are indirectly heated by steam produced by the boiler. It was previously noted this boiler has a maximum heat input capacity of 24.6 MMBtu.

The equipment from the planer mill, including the baghouse, has already been sold and had mostly been removed by the time of the inspection. The dried wood is now sent to the Beiwer Sawmill in Mcbain for planning. As a result, activities at the Lake City site consist of debarking/sawing, drying (kilns and boiler), and loading.

Following are the findings of the inspection by permit condition.

I.1-3 Particulate emissions from this boiler are limited to 0.22 pounds per thousand pounds of exhaust gas and PM10/PM2.5 emissions are limited to 8.77 pounds per hour. Compliance with this limit is demonstrated through testing and a limit on the amount of fuel feed to the boiler. Feed is limited to 5500 pounds per hour. Records of fuel feed were not reviewed since the boiler has not operated recently. Stack testing was conducted on 5/01/2013 with results that demonstrated compliance with the 8.77 lb/hr limit (2.87 lbs/hr).

I.4 Visible emissions are limited to 20% opacity based on a six-minute average. At the time of the inspection, the boiler was not and has not been operating.

II.1 The wood fired boiler has been re-permitted for both jack pine and hardwood fuel. Neither has been burned in the last two years and Beiwer staff stated the boiler did not work on the red pine fuel generated on-site. Problems included a fire due to the accumulation of creosote in the stack.

II.2 Feed is limited to 5500 pounds per hour. As previously indicated no fuel has been fed to the boiler in the last two years.

III.1 Heat input to the boiler is limited to 25.125 million BTU per hour. This is the nameplate capacity of the boiler which was verified during the inspection.

III.2 A startup, shutdown, malfunction plan has been submitted and approved by the AQD. A current copy of the plan is on file.

IV.1 The exhaust gas reinjection and multi-clone are part of the boiler system such that the boiler cannot bypass or operate without them.

V.1 PM2.5 testing of the boiler was conducted on 5/01/2013 with satisfactory results.

VI.1 Calculations: As previously indicated, the boiler has not operated in the last two years.

VI.2 and 3 Monitoring of the amount of fuel: As previously indicated no fuel has been fed to the boiler in the last two years.

VI.4 There are no additional notification or recordkeeping requirements for this source in Subpart Dc (initial notification and monthly fuel usage are all that are required). Additionally, the Boiler is subject to 40 CFR Part 63, Subpart JJJJJJ (NESHAP for Area Source Industrial, Commercial, and Institutional Boilers). Biewer was required to submit an initial notification (complete), conduct a one time energy assesment and do a biennual (every other year) tune up.

VI.5 As previously mentioned, a startup, shutdown, malfunction plan has been approved.

VIII.1 Stack parameters for the boiler appear correct, the PTI required a 73 ft. high stack with minimum 46" inside diameter.

At the time of the inspection, the facility was in compliance with their permit based on the wood fired boiler no longer being in operation. I requested that Beiwer Sawmill notify the AQD if the boiler is sold so the PTI may be voided.

NAME _____ DATE 7-10-19 SUPERVISOR SN