

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

B626126702

FACILITY: CASTING TECHNOLOGIES COMPANY-MICHIGAN CASTING CTR	SRN / ID: B6261
LOCATION: 14638 APPLE DRIVE, FRUITPORT	DISTRICT: Grand Rapids
CITY: FRUITPORT	COUNTY: OTTAWA
CONTACT: Robert Eckheart, EHS Director	ACTIVITY DATE: 08/26/2014
STAFF: Eric Grinstern	COMPLIANCE STATUS: Compliance
SUBJECT: Unannounced Inspection	SOURCE CLASS: MINOR
RESOLVED COMPLAINTS:	

Facility Description

Casting Technologies is a subsidiary of Compass Automotive Group.

The facility is a permanent and semi-permanent mold aluminum foundry operation that utilizes a vacuum riserless/pressure casting process (VRC/PRC). The facility manufactures safety critical automotive castings, such as control arms and sub-frames.

Regulatory Overview

The facility is classified as an aluminum foundry. The facility is potentially subject to Subpart ZZZZZZ, the area source Aluminum, Copper, and Other Nonferrous Foundries NESHAP. The facility surpasses the throughput threshold, however to be subject they would have to have aluminum HAPs in excess of the standard thresholds. EG will request that the facility evaluate applicability to the standard.

The facility is currently not subject to Subpart RRR since they only melt scrap that meets the definition of clean charge. The facility is evaluating melting dry turnings generating on-site. Based on the definitions of clean charge in Subpart RRR, the turnings would meet the definition as being aluminum scrap known by the owner or operator to be entirely free of paints, coatings, and lubricants. Therefore melting these types of turnings would not result in being subject to Subpart RRR.

The facility has the following active NSR Permits:

69-02	-	Plibrico #4
34-02	-	East Cast launder system and associated furnaces
33-02A	-	Phonolic Urethane Cold Box cores
211-00A	-	Plibrico #3
419-96C	-	Relocation of furnaces (Furnace #5)
419-96A	-	Plibrico #2
107-95B	-	Plibrico #1

Compliance Evaluation

Prior to entering the facility a survey of the parameter was made. No opacity or abnormal odors were noted. At the facility staff met with and Bob Ekheart, EHS Director.

Below is a summary of operations based on NSR permits.

107-95B – Plibrico #1 – Gas-fired aluminum reverb furnace.

This furnace provides melt to the west cast line. \

Evaluated limits:

72# flux usage per day, no more than 12# fluorinated.
42 tons AL melt per day

Records evaluated showed compliance with limits. The facility uses all non-fluorinated flux.

Status: Compliant

419-96A – Plibrico #2 – Gas-fired aluminum reverb furnace.
Plibrico #1 and #2 supply melt to the West cast laundering line.

Evaluated limits:

72# flux per day, no more than 12# fluorinated
42 tons AL melt per day

Records evaluated showed compliance with limits. The facility uses all non-fluorinated flux.

Status: Compliant

211-00A – Plibrico #3 – Gas fired aluminum reverb furnace.
Plibrico #3 and #4 supply melt to the East cast laundering line.

80# flux usage per day, no more than 20# fluorinated
72 tons of AL melt per day

Records evaluated showed compliance with limits. The facility uses all non-fluorinated flux.

Status: Compliant

69-02 – Plibrico #4 – Gas fired aluminum reverb furnace w/ side well equipped with baghouse control, preheating furnace.

The facility charges internal runaround and chopped aluminum rims in the side well.

Evaluated limits:

80# flux usage per day, no more than 20# fluorinated flux
150# non-fluorinated flux in the side-well per day
72 tons of AL melt per day
Baghouse pressure drop gauge

Records evaluated showed compliance with limits. The facility uses all non-fluorinated flux.

Status: Compliant

34-02 – East Cast Laundering System – Launder system, 6 holding furnaces, 12 crucible furnaces.

Evaluated limits:

420# non-fluorinated flux per day.

Records evaluated showed compliance with limits. The facility uses all non-fluorinated flux. Fluxing has been greatly reduced since an enclosed argon system was put in operation.

33-02 – West Cast Laundering System – Launder system, 6 holding furnaces, 11 crucible furnaces.

Evaluated limits:

510# non-fluorinated flux per day.

Records evaluated showed compliance with limits. The facility uses all non-fluorinated flux. Fluxing has been greatly reduced since an enclosed argon system was put in operation.

419-96C – Furnace #5

Records evaluated showed compliance with limits.

Status: Compliant

Summary

Based on the information and observations made during this inspection, the facility is in compliance with applicable air quality rules and regulations. The facility will however be further evaluated for applicability to Subpart ZZZZZZ.

NAME



DATE

9/11/14

SUPERVISOR



