

June 4, 2021

Mr. Matthew Hieshetter Clarios LLC 1800 Paper Mill Road Florence, SC 29501

Re:

Furnace Nos. 1, 2, &3, Refining Process, Refining FEU Vent, Refining Combustion, CX Scrubber, CX FEU Vent, Melter, Foundry Ventilation, and Slag Warehouse Emissions Testing – Conducted December 7-14, 2020 - REDACTED Summary

Dear Mr. Hieshetter:

The results of the referenced source tests have been reviewed by the Department, and emission rates and operating parameters are summarized below:

CX Scrubber (ID: CD-FL-530)

Pollutant	Emissions	Limit
Lead (mg/dscm)	1.8E-02	1.0
Lead (gr/dscf)	7.9E-06	4.3E-04
Lead (lb/hr)	1.2E-03	

CX FEU 6 (ID: PK-531e)

Pollutant	Emissions*	Limit
Lead (mg/dscm)	8.6E-02	1.0
Lead (gr/dscf)	3.7E-05	4.3E-04
Lead (lb/hr)	1.2E-02	2.0E-03**

^{*}One FEU Vent was tested. These emission rates may be used as emission factors for all 5 CX FEU Vents. **Modeled emission rate.

Melter and Charge Preparation (ID: CD-PK-730)

Pollutant	Emissions	Limit
Lead (mg/dscm)	1.8E-03	1.0
Lead (gr/dscf)	7.8E-07	4.3E-04
Lead (lb/hr)	6.3E-04	
PM (lb/hr)	1.4E-01	27.1 ¹
Hg (lb/hr)	1.90E-05	
SO ₂ (lb/hr)	<9.4E-02	

¹Calculated per SC Reg. 61-62.5, Standard No. 4, Section VIII.

Furnace 1 (ID: KL-711)

Pollutant	Emissions	Limit
Lead (mg/dscm)	1.1E-03	1.0
Lead (gr/dscf)	4.9E-07	4.3E-04
Lead (lb/hr)	1.5E-04	
PM (lb/hr)	1.3E-01	11,1 ¹
Hg (lb/hr)	1.9E-04	

¹Calculated per SC Reg. 61-62.5, Standard No. 4, Section VIII.

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Furnace 2 (ID: KL-712)

Pollutant	Emissions	Limit
Lead (mg/dscm)	1.3E-03	1.0
Lead (gr/dscf)	5.5E-07	4.3E-04
Lead (lb/hr)	1.7E-04	
PM (lb/hr)	2.8E-01	12.2 ¹
Hg	2.1E-04	

¹Calculated per SC Reg. 61-62.5, Standard No. 4, Section VIII.

Furnace 3 (ID: KL-713)

Pollutant	Emissions	Limit
Lead (mg/dscm)	1.5E-03	1.0
Lead (gr/dscf)	6.6E-07	4.3E-04
Lead (lb/hr)	2.1E-04	
PM (lb/hr)	1.0E-01	9.7 ¹
Hg (lb/hr)	1.9E-04	
SO ₂ (lb/hr)	<3.4E-01	

¹Calculated per SC Reg. 61-62.5, Standard No. 4, Section VIII.

Refining Process (ID: CD-PK-820)

Pollutant	Emissions	Limit
Lead (mg/dscm)	8.6E-04	1.0
Lead (gr/dscf)	3.8E-07	4.3E-04
Lead (lb/hr)	2.5E-04	
PM (lb/hr)	1.4E-01	15.1 ¹
Hg (lb/hr)	3.9E-06	

¹Calculated per SC Reg. 61-62.5, Standard No. 4, Section VIII.

Refining Ventilation FEU 3 (ID: CD-PK-821c)

Pollutant	Emissions*	Limit
Lead (mg/dscm)	4.7E-02	1.0
Lead (gr/dscf)	2.1E-05	4.3E-04
Lead (lb/hr)	7.0E-04E-03	
PM (lb/hr)	4.1E-01	

^{*}One FEU Vent was tested. These emission rates may be used as emission factors for all 4 Refining FEU Vents.

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Foundry Ventilation (ID: CD-PK-721)

Pollutant	Emissions	Limit
Lead (mg/dscm)	5.2E-04	1.0
Lead (gr/dscf)	1.7E-07	4.3E-04
Lead (lb/hr)	1.4E-04	
PM (lb/hr)	1.2E-01	

Slag Warehouse (ID: SWC2)

Pollutant	Emissions	Limit
Lead (mg/dscm)	3.0E-03	1.0
Lead (gr/dscf)	1.3E-06	4.3E-04
Lead (lb/hr)	2.9E-04	
PM (lb/hr)	5.2E-02	25.3 ¹

¹Calculated per SC Reg. 61-62.5, Standard No. 4, Section VIII.

Compliance	e Status:	
(Permit No.	1040-0129-CA)	Compliance
(40 CFR 63,	, Subpart X)	Compliance

If I can be of further assistance, please do not hesitate to call me at (803) 898-0834 or e-mail me at williadt@dhec.sc.gov.

Sincerely,

Environmental Health Manager Source Evaluation Section

SC DHEC Bureau of Air Quality

Cc: Compliance File 1040-0129

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