



February 14, 2019

Mr. David Graiver
Oregon DEQ Air Quality
Northwest Region
700 NE Multnomah St., St #600
Portland Oregon 97232

RE: PCC Structural, Inc. Large Parts Campus Annual Air Report, ACDP 26-1867
For Calendar Year 2018

Dear Mr. Graiver,

Attached is the annual report for PCC Structural, Inc. LPC facility. Our air permit is currently in the process of being renewed. The calculations in this report are based on the emissions factors specified in the facility's permit, currently in effect. This approach to completing the annual report is required by the terms of the permit. As you know, PCC is in the process of developing new emission factors for use in the renewed permit. These new emission factors reflect our improved process understanding and the additional controls which PCC installed in order to further reduce the emission rates for this facility. The emission rates included in the annual report accurately reflect the emission factors in the current permit. However, they do not accurately reflect past or current emission rates for the facility; we believe that they significantly overstate the actual emissions from certain processes. If you have any questions, please contact me at 503-777-7683

Condition 6.3.a. State the facility's compliance status with permit conditions.
Any violations or exceedances must be explained in detail including corrective action taken.
PCC believes that it was in compliance with all requirements of the permit except as noted below.

Condition 6.3.b.i-xxi. Report operating parameters.
A summary page is provided for usage of required parameters in specified units for the calendar year.

Condition 6.3.b.xxii. Report revisions of the pollutant capture efficiency function used for compliance emission calculations in 5.1.
The pollutant capture efficiency function used for compliance emission calculations are the same as the baseline for this permit with no revisions.

Condition 6.3.b.xxiii. Report emissions.
The attached summary page provides a table depicting emissions reported by month.

Mr. David Graiver
LPC Annual Air Permit Report - ACDP 26-1867
February 14, 2018
Page 2

Condition 6.3.c. Report records of all planned and unplanned excess emissions events.
The attached summary page provides details of planned and unplanned excess emissions events for the calendar year.

Condition 6.3.d. Report summary of complaints relating to air quality received by permittee during the year.
The attached summary page provides report of air quality complaints received during the calendar year.

Condition 6.3.e. List permanent changes made in plant process, production levels, and pollution control devices which affected air contaminant emissions.
See attached report

Condition 6.3.f. List major maintenance performed on pollution control equipment.
A downtime log for each VOC incinerator is attached for the calendar year.

Please contact me at (503) 777-7683 if you have any questions regarding this report.

Sincerely,
For PCC Structurals Inc. by



Sherry Uchytel
PCC Structurals, Inc.
Environmental Affairs

Attachments:

Operating and Emissions Summary Report
Oxidizer Downtime Log (LPC-T, LPC-S)
Alloy Report - HAPs Summary

6.3 Annual Report

a. Compliance status with permit conditions, violations, exceedance explanation

In compliance - See cover letter

b.i-xxi Usage for calendar year

See below

b. i MM of Natural Gas Used

437.6

b. ii tons LPC-S vacuum cast (*parts plus ingots*)

6316.5

b. iii tons LPC-S air cast (*parts plus ingots*)

384.9

b.iv tons LPC-T vacuum cast

2058.1

b. v tons metal cast in parts

3787.8

b. vi tons individual HAP metal vacuum cast

3675.2

b. vii tons individual HAP metal air cast

245.6

b. viii tons combined HAP metal vacuum cast

4146.2

b. ix tons combined HAP metal air cast

261.0

b. x tons factory baghouse dust collected

374.6

b. xi tons maintenance shop baghouse dust collected

2.2

b. xii tons VOC used/emitted to LPC-S thermal oxidizer

169.9

b. xiii tons VOC used/emitted to LPC-T thermal oxidizer

150.1

b. xiv tons plastic used at LPC-S

6.3

b. xv tons plastic used at LPC-T

0.0

b. xvi tons misc VOC and VOC HAP used

5.4

b. xvii tons latex flashfired

10.9

b. xviii tons latex used and not flashfired

1.7

b. xix tons HCL used

1.5

b. xx number of hours of operation for the Alpha-case removal process

8760

b. xxi tons non-emitted VOC waste collected and used as a subtract in emissions calculations

17.8

b. xxii revisions of pollutant capture efficiency function used for compliance emission calculation in Condition 5.1

None

b. xxiii calculated 12-month rolling emission rates for each month of the previous calendar year

See below

2018	PM	PM-10	SO2	CO	NOx	VOC	Total HAP	VOC HAP	Nickel Chrome PM HAP	Other HAP
Time Frame	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons
January (02/17-01/18)	8.3	6.9	0.4	19.5	23.9	44.7	9.2	5.4	1.6	1.3
February (03/17-02/18)	8.3	6.9	0.4	19.5	24.0	43.9	9.0	5.2	1.6	1.3
March (04/17-03/18)	8.3	6.9	0.4	19.5	24.0	43.4	9.0	5.1	1.6	1.3
April (05/17-04/18)	8.3	6.8	0.4	19.3	23.8	38.8	8.7	5.0	1.6	1.3
May (06/17-05/18)	8.3	6.8	0.4	19.2	23.6	37.6	8.7	5.0	1.5	1.3
June (07/17-06/18)	8.3	6.9	0.4	19.1	23.5	36.9	8.4	4.8	1.5	1.3
July (08/17-07/18)	8.3	6.9	0.4	19.0	23.4	36.3	7.5	4.7	1.4	1.3
August (09/17-08/18)	8.3	6.9	0.4	18.9	23.2	35.8	7.4	4.7	1.3	1.3
September (10/17-09/18)	8.3	6.9	0.4	18.8	23.2	35.1	7.2	4.5	1.3	1.3
October (11/17-10/18)	8.5	7.0	0.4	18.7	23.0	34.2	7.2	4.6	1.3	1.3
November (12/17-11/18)	8.6	7.1	0.4	18.7	23.0	33.1	7.1	4.5	1.2	1.3
December (01/18-12/18)	8.7	7.2	0.4	18.4	22.6	33.5	7.0	4.4	1.3	1.3
Highest 12 Month Total	8.7	7.2	0.4	19.5	24.0	44.7	9.2	5.4	1.6	1.3
Limit	83	54	39	99	58	99	24	9	9	9
% Limit	10.5%	13.3%	1.0%	19.7%	41.4%	45.1%	38.3%	59.8%	18.0%	14.6%

c. Records of planned and unplanned excess emissions events

See attached downtime logs LPC-S and LPC-T

d. Summary of complaints relating to air quality received by permittee during the year

Neighborhood area odor complaints were reported to PCC by DEQ on 2/23, 4/7, 4/10, 4/27, 5/2, 7/4, 7/6, 7/27-29, 8/6, 9/6, 9/12, 9/13, 12/3, 12/13, 12/14, 12/17, 12/26, 12/27, and 12/29/2018. No SSM or upset conditions were identified at PCC Large Parts Campus during the complaint periods.

e. List permanent changes made in plant processes, production levels, and pollution control equipment which affected air contaminant emissions

NOC 030235 Install LPCT BO #73 with afterburner. Install afterburner to BO#45.
 NOC 029788 Install 2 emergency backup generators for the Stormwater system.
 2019-02-13 DEQ approval to apply alternative emission factor for LPCT plastic which are processed in wax burnout ovens equipped with thermal oxidizers and are in compliance with permit Condition 2.3, to be effective in emissions calculated for usage starting 1/1/2018.

f. List major maintenance performed on pollution control equipment

See attached downtime logs LPC-S and LPC-T

* Additional Information (production/calculations)

tons LPC-S vacuum cast in ingots

4,921.5

tons LPC-S air cast in ingots

50.0

tons LPC-S dust collector dust

159.9

tons LPC-T dust collector dust

214.7

Destruction efficiency LPC-S Thermal Oxidizer

90.7%

Destruction efficiency LPC-T Catalytic Oxidizer

98.1%

Alloy report

See attached

tons metal poured in LPCS parts - Misc. Metal

518.9

tons metal poured in LPCT parts - Misc. Metal

1440.7

PCCLP001151

Incinerator Downtime for LPC-S

2018	Downtime			Monthly Emissions			Reason for Incinerator Downtime
	Date	Hours	Min	VOC (lbs)	HAP (lbs)	VOC/HAP (lbs)	
January	1/26/2018	1	55	117.2	0.0	0.0	PGE Power Bump
	1/27/2018	2	45	168.1	0.1	0.0	PGE Power Failure
	1/28/2018	10	27	638.9	0.2	0.0	PGE Power Failure
Mo. Totals		13	127	924.2	0.3	0.0	
February	2/9/2018	0	19	14.2	0.00	0.0	Replace leaking hydraulic valve
Mo. Totals		0	19	14.2	0.0	0.0	
March	No Downtime						
April	4/14/2018	15	44	538.8	0.20	0.0	Prescheduled plant wide electrical shutdown
Mo. Totals		15	44	538.8	0.2	0.0	
May	5/3/2018	0	15	8.6	0.00	0.0	PGE Power bump
Mo. Totals		0	15	8.6	0.0	0.0	
June	6/21/2018	0	11	7.4	0.00	0.0	Flame out, relit
	6/29/2018	0	16	10.8	0.00	0.0	PGE Power bump
Mo. Totals		0	27	18.2	0.0	0.0	
July	7/27/2018	2	53	116.7	0.00	0.0	PGE power failure
Mo. Totals		2	53	116.7	0.0	0.0	
August	8/12/2018	0	11	5.3	0.00	0.0	PGE Power bump
	8/26/2018	0	25	12.2	0.00	0.0	Flameout
Mo. Totals		0	36	17.5	0.0	0.0	
September	No Downtime						
October	No Downtime						
November	11/2/20018	0	45	25.7	0.00	0.0	PGE Power bump
Mo. Totals		0	45	25.7	0.0	0.0	
December	12/5/2018	1	15	45.0	0.01	0.0	Sensor malfunction, reset
	12/7/2018	5	50	210.1	0.07	0.0	Valve track failure
	12/27/2018	0	20	12.0	0.00	0.0	Flame out. Relit
	12/28/2018	1	25	51.0	0.02	0.0	Valve track failure
	12/28/2018	33	30	1206.3	0.40	0.0	Replaced internal shaft bolts and electrical wire.
Mo. Totals		40	140	1524.4	0.5	0.0	

Incinerator Downtime for LPC-T

2018	Downtime			Monthly Emissions			Reason for Incinerator Downtime
	Date	Hours	Min	VOC (lbs)	HAP (lbs)	VOC/HAP (lbs)	
January	1/26/2018	2	30	91.6	0.0	0.0	PGE Power Bump PGE Power Failure PGE Power Failure
	1/27/2018	2	40	97.7	0.0	0.0	
	1/28/2018	6	25	235.0	0.0	0.0	
Mo. Totals		10	95	424.2	0.0	0.0	
February	No Downtime						
March	No Downtime						
April	4/14/2018	15	48	475.0	0.09	0.0	Prescheduled plant wide electrical shutdown Power off to perform maintenance on upstream baghouse
	4/16/2018	2	25	72.7	0.01	0.0	
Mo. Totals		17	73	547.7	0.1	0.0	
May	No Downtime						
June	6/22/2018	2	0	49.8	0.00	0.0	Transformer repairs
Mo. Totals		2	0	49.8	0.0	0.0	
July	No Downtime						
August	No Downtime						
September	No Downtime						
October	No Downtime						
November	No Downtime						
December	12/6/2018	5	22	134.2	0.00	0.0	Replace fan bearings
Mo. Totals		5	22	134.2	0.0	0.0	

2018 LPC Average Alloy Summary

PCC Structurals Air Contaminant Discharge Permit number 26-1867

The following table summarizes the requirements of Conditions 6.5 and 7.3 for determining and reporting the amount of HAP metal poured and associated metal HAP emissions.

LPC-T Parts

Total HAP Concentration (%)	0.077
PM HAP Concentration (%)	0.048

LPC-S Parts

Total HAP Concentration (%)	68.25
PM HAP Concentration (%)	64.94

LPC-S Ingots

Total HAP Concentration (%)	64.87
PM HAP Concentration (%)	56.25