



67-05004

PIXELLE SPEC SOLUTIONS LLC/SPRING GROVE



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: March 26, 2020

Effective Date: April 1, 2020

Expiration Date: ~~March 31, 2025~~

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 67-05004

Federal Tax Id - Plant Code: 83-1623694-1

Owner Information

Name: PIXELLE SPECIALTY SOLUTIONS LLC
Mailing Address: 228 S MAIN ST
SPRING GROVE, PA 17362-1000

Plant Information

Plant: PIXELLE SPEC SOLUTIONS LLC/SPRING GROVE
Location: 67 York County 67956 Spring Grove Borough
SIC Code: 2621 Manufacturing - Paper Mills

Responsible Official

Name: KARL E CHRISTIANSON
Title: VP & GENERAL MGR
Phone: (717) 225 - 4711 Ext.2896

Permit Contact Person

Name: BRADLEY MARTIN
Title: EHS MANAGER
Phone: (717) 225 - 4711 Ext.2685

[Signature] William R. Weaver
WILLIAM R. WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER

Pages 2- 293 are fully redacted

**SECTION E. Source Group Restrictions.**

Group Name: 199
Group Description: RACT 2 case-by-case
Sources included in this group

RACT 2 SIP Provisions from Title V Permit No. 67-05004 Renewal issued 3/26/20 (pages 294-297 of permit)

ID	Name
036	#5 POWER BOILER
037	#3 RECOVERY BOILER
103	FLUO-SOLIDS CALCINER
110	#3 SMELT DISSLV & SALTCAKE MIX TANKS
111	UNCONTROLLED SOFTWOOD PULP VENTS
112	UNCONTROLLED HARDWOOD PULP VENTS
113A	BLEACH PLANT
115	PAPER MACHINES
116	WASTE WATER TREATMENT PLANT
119	BLACK LIQUOR COLLECTION SYSTEM
120	COOKING LIQUOR PREPARATION
192	LVHC NCG SOURCES
196	HVLC NCG SOURCES

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §129.96]****Applicability**

The following constitutes a case-by-case RACT 2 determination for the affected sources pursuant to 25 Pa. Code Section 129.99:

I. Power Boiler 5 (036)

(a) Oxides of nitrogen (NO_x) emissions from the No. 5 Power Boiler shall not exceed 0.39 lbs/mmBtu of heat input based on a 30-day rolling average.

[Additional authority for this permit condition is derived from OP No. 67-306-006A.]

(b) The No. 5 Power Boiler shall be equipped with a continuous emission monitor for NO_x, measured in terms of lb/MMBtu on a 30-day rolling average. The continuous emission monitoring shall be conducted in accordance with 25 PA Code Chapter 139, and be approved by the Department.

(c) The continuous emission monitoring system for NO_x as previously approved by the Department, must be operated and maintained in accordance with the quality assurance, recordkeeping and reporting requirements of Chapter 139 of the Department's rules and regulations and the Department's Continuous Source Monitoring Manual.

(d) The permittee shall monitor the following parameters for the SNCR system:

- (1) Combustion zone temperature;
- (2) Aqueous ammonia solution injection rate;
- (3) Aqueous ammonia solution concentration.

[Additional authority for this condition is derived from PA 67-05004H]

(e) The permittee shall, at a minimum, record the following:

- (1) Hours of operation for the SNCR system (hr/day);
- (2) Daily amount of aqueous ammonia injected (gal/day);
- (3) Concentration of aqueous ammonia (% wt).

[Additional authority for this condition is derived from PA 67-05004H]

(f) The permittee shall maintain a startup, shutdown, and malfunction plan for the SNCR system. [Additional authority for this condition is derived from PA 67-05004H]

**SECTION E. Source Group Restrictions.**

(g)(1) The permittee shall operate the SNCR System at all times that No. 5 Power Boiler is operating, except during periods of startup, shutdown, or malfunction.

(2) The flow rate of aqueous ammonia to the SNCR System (Control Device ID C46B) shall be maintained greater than 0.44 gpm, unless a different value is demonstrated via CEMS or stack testing and is approved in writing by DEP. [Additional authority for this condition is derived from PA No. 67-05004H & performance testing conducted on May 2, 2006].

(h) Power Boiler 5 is subject to 40 CFR Part 63, Subpart DDDDD - National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters and shall comply with the tune-up requirements of the Subpart, including any applicable portions of 40 CFR Part 63, Subpart A - General Provisions.

(i) The boiler is subject to 40 CFR Part 60, Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units and shall comply with the following applicable requirements of the Subpart:

(1) Standard for nitrogen oxides, found at §40 CFR 60.44b; and

(2) Compliance and performance test methods and procedures for particulate matter and nitrogen oxides, found at §40 CFR 60.46b [only the nitrogen oxides provisions are relevant for RACT 2]; and

(3) Emission monitoring for particulate matter and nitrogen oxides, found at §40 CFR 60.48b [only the nitrogen oxides provisions are relevant for RACT 2], and

(4) any nitrogen oxides-related requirements in Reporting and recordkeeping requirements, found at §40 CFR 60.49b [derived from current T5 E G112]

(j) The permittee shall maintain records of any maintenance or modifications performed on Power Boiler 5 for five years. The records shall be made available to the Department upon written request pursuant to 25 Pa. Code §129.100(d) and (i).

II. Recovery Boiler 3 (037)

(a) Nitrogen oxides emissions shall not exceed 118 lbs/hr on a thirty day rolling average as measured by a certified continuous emissions monitor. [Additional authority for this condition is derived from OP No. 67-315-008.]

(b)(1) When firing black liquor and No. 6 oil, the No. 3 Recovery Boiler is subject to Subpart BB of the Standards of Performance for New Stationary Sources.

(2) When firing only No. 2 or No. 6 oil, the Recovery Boiler is subject to Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

(c) The permittee, with regard to Recovery Boiler 3, shall comply with requirements of Subpart MM--National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills, found at §40 CFR 63.866.

(d) The No. 3 Recovery Boiler shall be equipped with a continuous emission monitor for NO_x, measured in terms of lb/hr on a 30-day rolling average. The continuous emission monitoring shall be conducted in accordance with 25 PA Code Chapter 139, and be approved by the Department.

(e) The continuous emission monitoring system for NO_x as previously approved by the Department, must be operated and maintained in accordance with the quality assurance, recordkeeping and reporting requirements of Chapter 139 of the Department's rules and regulations and the Department's Continuous Source Monitoring Manual.

(f) The boiler is subject to 40 CFR Part 60, Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units and shall comply with the following applicable requirements of the Subpart:

(1) Standard for nitrogen oxides, found at §40 CFR 60.44b; and

(2) Compliance and performance test methods and procedures for particulate matter and nitrogen oxides, found at §40 CFR 60.46b [only the nitrogen oxides provisions are relevant for RACT 2]; and

(3) Emission monitoring for particulate matter and nitrogen oxides, found at §40 CFR 60.48b [only the nitrogen oxides provisions are relevant for RACT 2], and

(4) any nitrogen oxides-related requirements in Reporting and recordkeeping requirements, found at §40 CFR 60.49b

(g) The permittee shall maintain records of any maintenance or modifications performed on Source 037 Recovery Boiler 3 for five years. The records shall be made available to the Department upon written request pursuant to 25 PA Code §129.100(d) and (i).

**SECTION E. Source Group Restrictions.****III. Fluo Solids Calciner (103)**

(a) The permittee, with regard to Source 103 Fluo-Solids Calciner, shall comply with the requirements of Subpart MM--National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills, found at §40 CFR 63.866.

(b) The permittee shall maintain a burner management system for Source 103 Fluo-Solids Calciner, which shall stop the flow of fuel when a flame is not detected.

(c) The permittee shall maintain records of any maintenance or modifications performed on Source 103 Fluo-Solids Calciner for five years. The records shall be made available to the Department upon written request pursuant to 25 Pa. Code §129.100(d) and (i).

(d) The permittee shall maintain the monthly records of fuel usage, VOC emissions and NO_x emissions for Source 103.

IV. #3 Smelt Dissolving and Saltcake Mix Tanks (110)

(a) Source 110 is subject to Subpart MM--National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills, and shall comply with the all applicable requirements of the Subpart.

(b) The permittee shall maintain monthly records of VOC emissions with regard to Source 110.

V. Bleach Plant (113A)

(a) The Bleach Plant Source 113A is subject to 40 CFR Part 63, Subpart S - National Emissions Standards for Hazardous Air Pollutants from the Pulp and Paper Industry and shall comply with all applicable requirements of the Subpart, including all applicable portions of 40 CFR Part 63, Subpart A-General Provisions.

(b) The permittee shall maintain monthly records of VOC emissions with regard to Source 113A.

VI. Uncontrolled Vents (111, 112, 119, 120)

(a) The facility is subject to 40 CFR Part 430.03, Best management practices (BMPs) for spent pulping liquor, soap, and turpentine management, spill prevention, and control, and shall comply with all requirements of the Subpart with regard to the uncontrolled vents at the facility.

VII. LVHC NCG Sources (192) and HVLC NCG Sources (196)

(a) Sources 192 and 196 are subject to 40 CFR Part 63, Subpart S - National Emissions Standards for Hazardous Air Pollutants from the Pulp and Paper Industry and shall comply with all applicable requirements of the Subpart, including all applicable portions of 40 CFR Part 63, Subpart A-General Provisions.

VIII. Paper Machines (115)

(a) The permittee shall limit the VOC emissions from the Source 115 Paper Machines to no greater than 71.2 tons per month based on a mass balance calculation of the VOC contained in the furnishes used at the Paper Machines.

(b) The permittee shall maintain the following monthly records with regard to Source 115: VOC emissions and use of paper machine furnishes.

[The above requirements for Source 115 supersede the requirements for that source found in Plan Approval No. 67-02004B]

IX. Wastewater Treatment Plant (116)

(a) The permittee, with regard to Source 116 WWTP shall comply with the all relevant requirements of Subpart S, National

**SECTION E. Source Group Restrictions.**

Emission Standards for Hazardous Air Pollutants from the Pulp and Paper Industry, found at 40 CFR 63.440-459.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****