



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

**TITLE V/STATE OPERATING PERMIT**

Issue Date: April 19, 2013      Effective Date: September 18, 2017  
Revision Date: September 18, 2017      Expiration Date:  
Revision Type: Modification, Significant

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: 18-00030**

Federal Tax Id - Plant Code: 33-1028054-1

**Owner Information**

Name: FIRST QUALITY TISSUE LLC  
Mailing Address: 904 WOODS AVE  
LOCK HAVEN, PA 17745-3348

**Plant Information**

Plant: FIRST QUALITY TISSUE/LOCK HAVEN PLT  
Location: 18 Clinton County 18908 Castanea Township  
SIC Code: 2676 Manufacturing - Sanitary Paper Products

**Responsible Official**

Name: JAMES A VAIANA  
Title: ENVIRONMENTAL DIRECTOR  
Phone: (570) 893 - 7242

**Permit Contact Person**

Name: JAMES A VAIANA  
Title: ENVIRONMENTAL DIRECTOR  
Phone: (570) 893 - 7242

[Signature]

MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



**SECTION A. Table of Contents**

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**SECTION A. Site Inventory List**

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P103	#1 PAPER MACHINE GLUE CONTAINMENT AREA		
P108	ADHESIVE OPERATION		
P110	WASTEWATER TREATMENT OPERATION		
P202	#2 PAPER MACHINE DRYERS		
P203	#2 PAPER MACHINE GLUE CONTAINMENT AREA		
FM01	NATURAL GAS		
FM02	PROPANE		
S102	DRYER STACK		
S103	GLUE CONTAINMENT STACK		
S202	DRYER STACK		
S203	GLUE CONTAINMENT STACK		
Z108	FUGITIVE VOCS		

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
Z110	FUGITIVE VOCS		

**PERMIT MAPS**

<div><div>PROC P102</div><div>STAC S102</div><div><div>FML FM01</div><div>FML FM02</div><div><div>→</div><div>↑</div><div>↑</div></div></div></div>
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## PERMIT MAPS

PROC  
P108 → STAC  
Z108

PROC  
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Z110

PROC  
P202 → STAC  
S202

FML  
FM02

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FM01

PROC  
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**SECTION B. General Title V Requirements**



**SECTION B. General Title V Requirements**





**SECTION B. General Title V Requirements**



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**SECTION B. General Title V Requirements**



**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218]

**SECTION C. Site Level Requirements**

and 129.99]

- (1) The total combined emission of volatile organic compounds from paper machine #1, comprised of Source P101, Source P102, Source P103 and P106, shall not exceed 56.53 tons in any 12 consecutive month period.
- (2) The total combined emission of volatile organic compounds from paper machine #2, comprised of Source P201, Source P202, Source P203 and P206, shall not exceed 56.53 tons in any 12 consecutive month period.
- (3) The total combined emission of volatile organic compounds from paper machine #1 and paper machine #2 shall not exceed 90.55 tons in any 12 consecutive month period.



**SECTION C. Site Level Requirements**



**SECTION C. Site Level Requirements**



## SECTION C. Site Level Requirements



## SECTION C. Site Level Requirements

**SECTION C. Site Level Requirements****# 026 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The volatile organic compound content and vapor pressure of each of the paper additives listed below shall not exceed the limitations specified below. The Department may revise these limitations in response to a request by the permittee which includes justification for changes in materials, more accurate quantification of vapor pressure and documentation of investigation of alternate materials potentially emitting less volatile organic compounds. Prior Department approval is required for use of alternate materials containing hazardous air pollutants or materials with a higher volatile organic compound content or higher vapor pressure than is specified herein. Substitution of non-hazardous air pollutant containing materials having a lower potential to emit volatile organic compounds (factoring in both volatile organic compounds content and vapor pressure) may be made without prior Department approval. In such instances notification and supporting documentation must be submitted to the Department within seven days following the substitution.

**Additive – VOC Content / Vapor Pressure**

- (1) Wet Strength #1 - 0.124 pounds per gallon, as applied / 18.000 mmHg
- (2) Dry Strength - 0.080 pounds per gallon, as applied / 0.001 mmHg
- (3) Wet Strength #2 – 0.005 pounds per gallon, as applied / 18.000 mmHg
- (4) Softener/Debonder – 0.009 pounds per gallon, as applied / 0.001 mmHg
- (5) Formation Aid – 0.001 pounds per gallon, as applied / 18.000 mmHg
- (6) Defoamer – 0.010 pounds per gallon, as applied / 0.010 mmHg
- (7) Crepe Adhesive – 0.002 pounds per gallon, as applied / 0.010 mmHg
- (8) Release Aid – 0.092 pounds per gallon, as applied / 0.001 mmHg
- (9) Fabric Release – 2.319 pounds per gallon, as applied / 1.000 mmHg
- (10) Biocide – 0.001 pounds per gallon, as applied / 0.500 mmHg
- (11) Drainage Aid – 2.285 pounds per gallon, as applied / 18.000 mmHg

**# 027 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218

**SECTION C. Site Level Requirements**

and 129.99]

The total combined amount of volatile organic compounds which may be added to the manufacturing process through the use of paper additives shall not exceed 3.13 pounds per ton of paper towel manufactured and 0.58 pounds per ton of tissue paper. Compliance with these limitations shall be based on a calendar month average.

**# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The maximum amount of wet strength #1, release aid, fabric release and drainage aid additives which may be added to the paper products being manufactured at the facility shall not exceed the limitations below. The Department may revise these limitations in response to a request by the permittee which includes justification for a change in application rate and documentation of investigation of alternate materials having a lower potential to emit volatile organic compounds. Prior Department approval is required for higher usage rates than are specified herein.

- (1) 25.0 pounds of Wet Strength (active ingredient only) per ton of paper towel; 0.00 pounds of Wet Strength per ton of tissue paper.
- (2) 0.562 pounds of Release Aid per ton of paper towel; 1.172 pounds of Release Aid per ton of tissue paper.
- (3) 20.0 pounds of Fabric Release per ton of paper towel; 20.0 pounds of Fabric Release per ton of tissue paper.
- (4) 0.96 pounds of Drainage Aid per ton of paper towel; 0.96 pounds of Drainage Aid per ton of tissue paper.

Compliance with these limitations shall be based on a calendar month averages.





**SECTION C. Site Level Requirements**



## SECTION D. Source Level Requirements



## SECTION D. Source Level Requirements



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**SECTION D. Source Level Requirements**



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**SECTION D. Source Level Requirements**

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## SECTION D. Source Level Requirements



## SECTION D. Source Level Requirements



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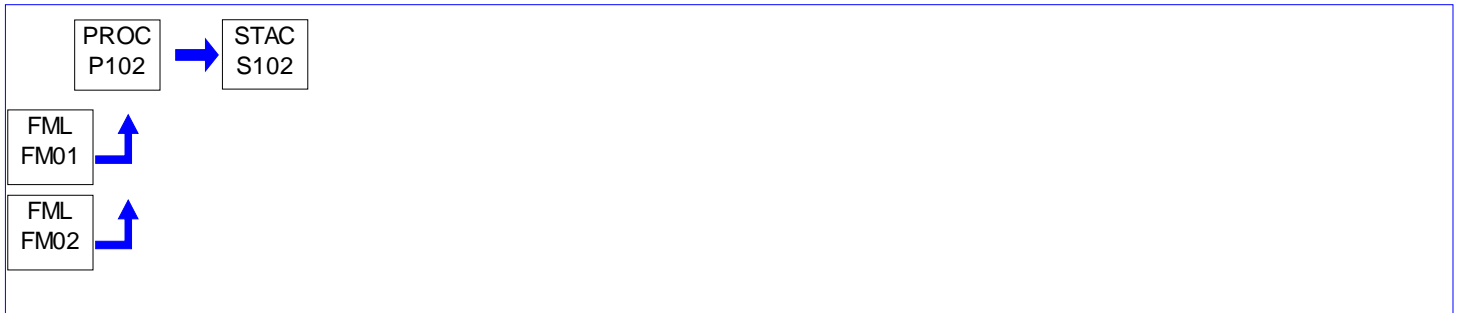


**SECTION D. Source Level Requirements**

Source ID: P102

Source Name: #1 PAPER MACHINE DRYERS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The total combined emission of volatile organic compounds from Source P102 and Source P103 shall not exceed 12.38 pounds per hour while manufacturing paper towel and total combined emission of volatile organic compounds from Source P102 and Source P103 shall not exceed 6.55 pounds per hour while manufacturing tissue paper.



## SECTION D. Source Level Requirements



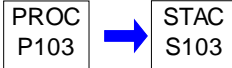
## SECTION D. Source Level Requirements

**SECTION D. Source Level Requirements**

Source ID: P103

Source Name: #1 PAPER MACHINE GLUE CONTAINMENT AREA

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The total combined emission of volatile organic compounds from Source P102 and Source P103 shall not exceed 12.38 pounds per hour while manufacturing paper towel and total combined emission of volatile organic compounds from Source P102 and Source P103 shall not exceed 6.55 pounds per hour while manufacturing tissue paper.



**SECTION D. Source Level Requirements**

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## SECTION D. Source Level Requirements



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## SECTION D. Source Level Requirements





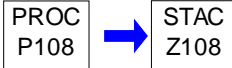
## SECTION D. Source Level Requirements

**SECTION D. Source Level Requirements**

Source ID: P108

Source Name: ADHESIVE OPERATION

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The emission of volatile organic compounds from Source P108 shall not exceed 6.83 tons in any 12 consecutive month period.

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The volatile organic compound content and usage rate of each of the adhesives listed below shall not exceed the limitations specified below. The Department may revise these limitations in response to a request by the permittee which includes justification for a change in materials or change in usage rate and documentation of investigation of alternative materials potentially emitting less volatile organic compounds. Prior Department approval is required for use of alternate materials containing hazardous air pollutants or materials with a higher volatile organic compound content or for a higher material usage rate than is specified herein. Substitution of non-hazardous air pollutant containing materials with lower volatile organic compound content than are specified herein may be made without prior Department approval. In such instances notification and supporting documentation must be submitted to the Department within seven days following the substitution.

**Adhesive – VOC Content / Usage Rate**

- (1) Laminating Glue – 0.0005 pounds per gallon / 4,000 gallons per day
- (2) Tail Tie – 0.008 pounds per gallon / 1,100 gallons per day
- (3) Transfer Glue – 0.010 pounds per gallon / 300 gallons per day
- (4) Core Glue – 0.008 pounds per gallon / 700 gallons per day
- (5) Case Glue – 0.000 pounds per gallon / no usage limitation

Compliance with the adhesive usage rate limitations shall be based on a calendar month average.



18-00030



FIRST QUALITY TISSUE/LOCK HAVEN PLT

**SECTION D. Source Level Requirements**



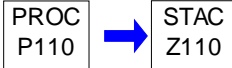
## SECTION D. Source Level Requirements

**SECTION D. Source Level Requirements**

Source ID: P110

Source Name: WASTEWATER TREATMENT OPERATION

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The emission of volatile organic compounds from Source P110 resulting from the treating of paper additives shall not exceed 8.81 tons in any 12 consecutive month period.

**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The emission of volatile organic compounds from Source P110 resulting from the treating of boiler and cooling tower additives shall not exceed 0.12 tons in any 12 consecutive month period.

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The volatile organic compound content of each of the Novus flocculant and the Polyfloc clarifier used in Source P110 shall not exceed 2.34 pounds per gallon and 2.18 pounds per gallon, respectively. The Department may revise these limitations in response to a request by the permittee which includes justification for a change in materials and documentation of investigation of alternative materials potentially emitting less volatile organic compounds. Prior Department approval is required for use of alternate materials containing hazardous air pollutants or materials with a higher volatile organic compound content. Substitution of non-hazardous air pollutant containing materials with lower volatile organic compound content than are specified herein may be made without prior Department approval. In such instances notification and supporting documentation must be submitted to the Department within seven days following the substitution.



## SECTION D. Source Level Requirements





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**SECTION D. Source Level Requirements**



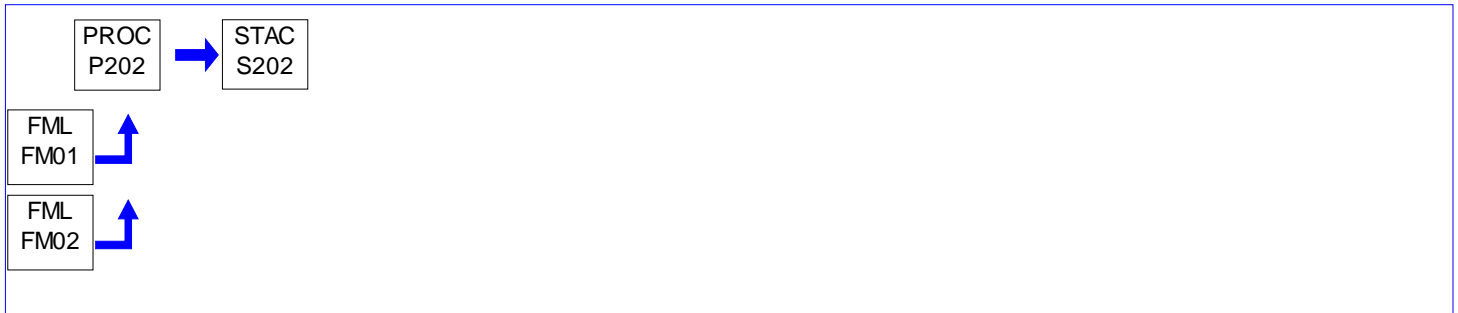
## SECTION D. Source Level Requirements

**SECTION D. Source Level Requirements**

Source ID: P202

Source Name: #2 PAPER MACHINE DRYERS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The total combined emission of volatile organic compounds from Source P202 and Source P203 shall not exceed 12.38 pounds per hour while manufacturing paper towel and total combined emission of volatile organic compounds from Source P202 and Source P203 shall not exceed 6.55 pounds per hour while manufacturing tissue paper.



## SECTION D. Source Level Requirements



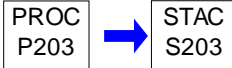
## SECTION D. Source Level Requirements

**SECTION D. Source Level Requirements**

Source ID: P203

Source Name: #2 PAPER MACHINE GLUE CONTAINMENT AREA

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for the permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, 127.201 through 127.218 and 129.99]

The total combined emission of volatile organic compounds from Source P202 and Source P203 shall not exceed 12.38 pounds per hour while manufacturing paper towel and total combined emission of volatile organic compounds from Source P202 and Source P203 shall not exceed 6.55 pounds per hour while manufacturing tissue paper.



## SECTION D. Source Level Requirements



## SECTION D. Source Level Requirements





## SECTION D. Source Level Requirements



**SECTION D. Source Level Requirements**



## SECTION D. Source Level Requirements



## SECTION E. Alternative Operation Requirements.



**SECTION F. Emission Restriction Summary.**



**SECTION G. Miscellaneous.**

