



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

**TITLE V/STATE OPERATING PERMIT**

Issue Date: October 24, 2014      Effective Date: September 21, 2018  
Revision Date: September 21, 2018      Expiration Date: XXXXXXXXXX  
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: 08-00003**

Federal Tax Id - Plant Code: 93-0496342-3

**Owner Information**

Name: JELD WEN INC  
Mailing Address: PO BOX 311  
TOWANDA, PA 18848-0311

**Plant Information**

Plant: JELD WEN INC/FIBER DIV PA  
Location: 08      Bradford County      08952 Wysox Township  
SIC Code: 2493 Manufacturing - Reconstituted Wood Products

**Responsible Official**

Name: JOHN D STACKPOLE  
Title: PLANT MANAGER  
Phone (570) 265 - 9121

**Permit Contact Person**

Name: LANCE STEVENS  
Title: ENVIRONMENTAL MANAGER  
Phone: (570) 268 - 8737

[Signature]

MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



Pages 2-25, 27, 32-52, 55-57, 59-60, 62-63, 66-67, 69-70, 73-78, 81-82, 84-85, 87, 90-91, 93, 96-104, 106-110, 112, 114-119, 121-130, 132-134, 136, 138, 140-145, 147, 149, 151-158, 161-164, 167-172, 175-196, 198-200, 203-220, 223-230, and 233-237 redacted entirely.

**SECTION C. Site Level Requirements**

# 011

**Recordkeeping**

The permittee shall maintain accurate and comprehensive records of the quantities and volatile organic compound contents of all volatile organic compound-containing materials applied in the pre press sealer application stations identified in Section G, item (G) herein, on a monthly basis. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**SECTION C. Site Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

# 025

**Control of major sources of NOx and VOCs**

This operating permit incorporates Reasonably Available Control Technology (RACT) determinations as required by the provisions of Title I of the Clean Air Act Amendments and 25 Pa. Code Sections 129.91 through 129.95 for the following:

- (1) a Motala hardboard press (Line 1)
- (2) a Washington Iron Works 12-opening trimboard press (Line 2)
- (3) a Motala hardboard press (Die Form)
- (4) four Line 1 first stage boiler flue gas-heated fiber dryers and four Line 1 second stage steam-heated fiber dryers
- (5) four Line 2 first stage boiler flue gas-heated fiber dryers and four Line 2 second stage 18.0 million Btu per hour natural gas-fired fiber dryers
- (6) five natural gas-fired combustion sources (one source with a heat input of 12.0 million Btu per hour and four sources each with heat inputs of 15.0 million Btu per hour) that serve as backup heat or supplementary heat sources for the Line 1 fiber dryers identified in (5) herein
- (7) Line 1 tempering operation consisting of a linseed oil application station and a natural gas fired kiln
- (8) Line 2 tempering operation consisting of a linseed oil application station and a natural gas fired kiln
- (9) Die Form tempering operation consisting of a linseed oil application station and a natural gas fired kiln
- (10) a surface coating operation associated with Line 1 consisting of 3 spray booths used to coat hardboard doorfacing panels as well as 5 associated infrared ovens and 3 high velocity hot air natural gas and/or propane-fired ovens
- (11) the Die Form coating operation consisting of two paint spray booths (designated #1 and #2) which operate in conjunction with the following: (a) backsander, (b) panel cleaner, (c) board cooler, (d) board cooler 1, (e) board cooler 2, (f) board cooler 3, (g) board cooler 4, (h) board cooler 5, (i) wetting booth 1, (j) wetting booth 2, (k) blow-off booth, (l) infrared preheat oven, (m) #1 infrared oven, (n) #2 infrared oven and (o) #3 infrared oven.
- (12) a lap siding surface coating operation consisting of an I.R. Preheat Oven, No. 1 spray booth, Edge coater, DRC coater, HVHA oven No. 1, No. 2 spray booth, DRC coater (Optional Use), HVHA oven No. 2, No. 3 spray booth, HVHA Oven No. 3

**SECTION C. Site Level Requirements**

and Final I.R. Oven

(13) three pre press sealer application stations associated with the Line I, Line II and Die Form presses (one sealer per press)

(14) a Basic Environmental Engineering, Inc. model 6000 woodwaste incinerator

(15) resin storage tanks

(16) a woodyard consisting of a log storage area, chipper, chip truck dumper and chip storage piles

(17) a residual waste landfill containing waste wood fiber

(18) five Jet-a-Mark Printers

(19) boiler steam vents

(21) humidifiers and coolers consisting of the following sources: No. 1 kiln spray humidification, No. 3 humidifier, No. 2 kiln cooler, and the die form humidifier

(21) fork truck and miscellaneous painting operations

(22) die cleaning areas

(23) parts cleaners

(24) gasoline and diesel storage tanks

(25) process wastewater treatment and spray irrigation systems

**# 026**

**Control of major sources of NOx and VOCs**

The expiration date shown in this permit is for state purposes. For Federal enforcement purposes the conditions of this operating permit which pertain to the implementation of RACT regulations shall remain in effect as part of the State Implementation Plan (SIP) until replaced pursuant to 40 CFR Part 51 and approved by the U. S. Environmental Protection Agency (EPA).

**# 027**

**Control of major sources of NOx and VOCs**

The potential to emit volatile organic compounds from each of the source categories identified below shall not exceed 3 pounds per hour, 15 pounds per day or 2.70 tons in any 12 consecutive month period (as determined by the Department). Should any of these limitations ever be exceeded, a detailed RACT analysis which meets the criteria specified in 25 Pa. Code Section 129.92 must be submitted to the Department.

(1) three pre press sealer application stations associated with the Line 1, Line 2 and Die Form presses (one sealer per press), identified in Section G, item (G)

(2) boiler steam vents, identified in Section G, item (O)

(3) humidifiers and coolers consisting of the following sources: No. 1 kiln spray humidification, No. 3 humidifier, No. 2 kiln cooler, and the die form humidifier, identified in Section G, item (H)

(4) fork truck and miscellaneous painting operations, identified in Section G, item (B)

(5) die cleaning areas, identified in Source ID 174P

(6) parts cleaners, identified in Section G, item (A)

(7) gasoline and diesel storage tanks, identified in Source ID 400P and Appendix C

**# 028**

**Control of major sources of NOx and VOCs**

The woodwaste incinerator (a Basic Environmental Engineering, Inc. model 6000 woodwaste incinerator) shall never operate.

## SECTION D. Source Level Requirements

Source ID: 031

Source Name: UNION IRON WORKS (BOILER 1)

Source Capacity/Throughput: 82.400 MMBTU/HR



### I. RESTRICTIONS.

#### Emission Restriction(s).

# 004

#### Operating permit terms and conditions.

- (1) Source ID 031 shall not emit nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) at a rate in excess of 0.135 pounds per million BTU of heat input nor shall its total nitrogen oxides emissions exceed 4.87 tons in any 12 consecutive month period.
- (2) Source ID 031 shall not emit volatile organic compounds at a rate in excess of 0.05 pounds per million BTU of heat input



## SECTION D. Source Level Requirements

nor shall its total volatile organic compound emissions exceed 1.80 tons in any 12 consecutive month period.

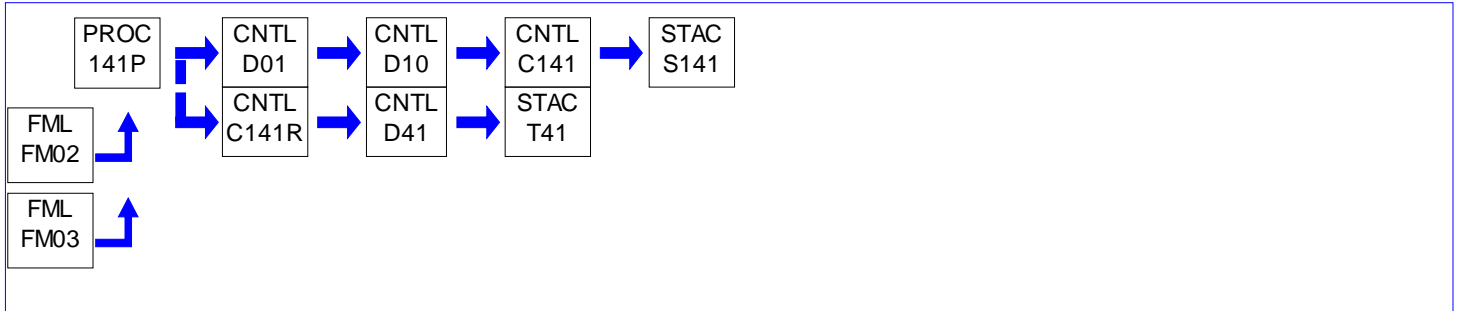
Compliance with this permit condition also ensures compliance with 25 Pa. Code Sections 129.91 through 129.95.

## SECTION D. Source Level Requirements

Source ID: 141P

Source Name: LINE 1 REFINERS AND 1ST STAGE DRYERS

Source Capacity/Throughput:





## SECTION D. Source Level Requirements

# 006

### Control of major sources of NOx and VOCs

The volatile organic compound emissions resulting from the volatilization of volatile organic compounds from the wood fiber from the fiber dryers incorporated in Source ID 141P and Source ID 161P shall not exceed 39.9 pounds per hour for the first stage dryers incorporated in Source ID 141P, 3.2 pounds per hour for the second stage dryers incorporated in Source ID 161P and 151.00 tons in any 12 consecutive month period for all dryers combined.

# 007

### Control of major sources of NOx and VOCs

The volatile organic compound and nitrogen oxides (NOx, expressed as NO2) emissions resulting from the combustion of natural gas from the combustion sources incorporated in Source ID 141P and Source ID 161P shall not exceed 2.00 tons in any 12 consecutive month period and 47.90 tons in any 12 consecutive month period, respectively (these limits are based on the use of AP-42 emission factors for natural gas combustion).

# 008

### Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products

#### What are the compliance options and operating requirements and how must I meet them?

The permittee shall either reduce the emission of total hazardous air pollutants, measured as total hydrocarbons (as carbon), contained in the effluent gas from Control Device IDs C141, C142, D42, D43, E41, E43, C171E, C172D, C184M, RTO01 and C193 by 90% or limit the concentration of total hazardous air pollutants, measured as total hydrocarbons (as carbon), to less than or equal to 20 ppmvd.

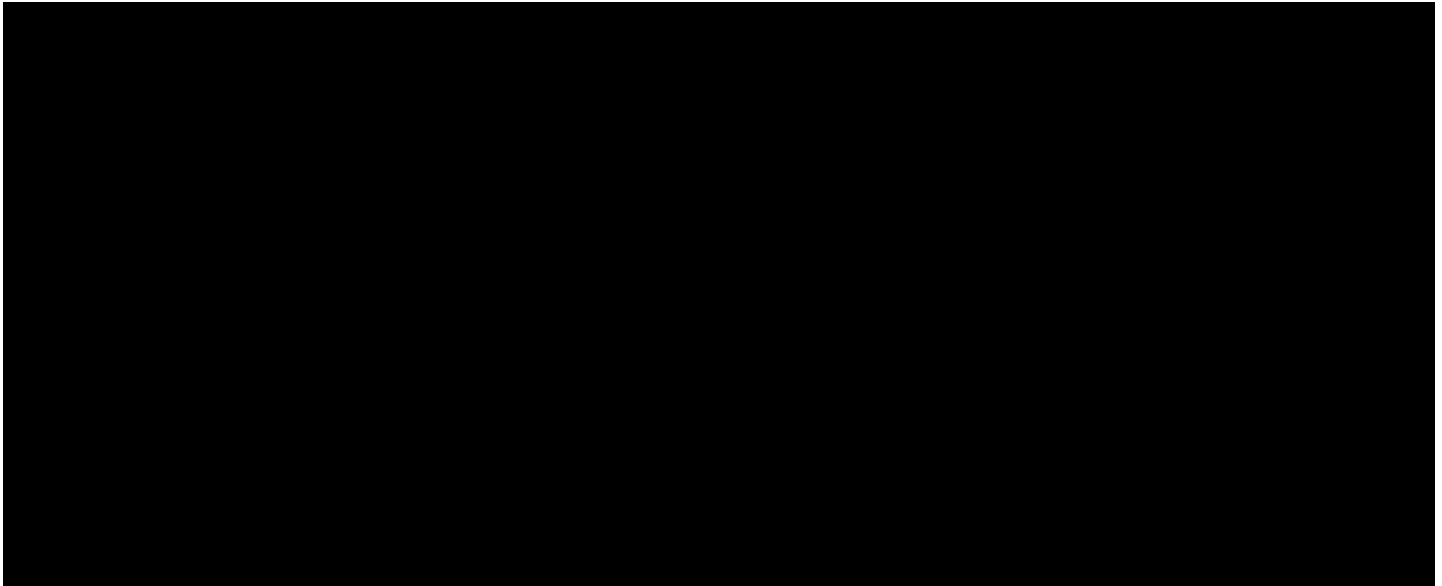
Compliance with this permit condition also ensures compliance with 25 Pa. Code Section 129.99(c).

## II. TESTING REQUIREMENTS.

# 011

### Compliance demonstration and recordkeeping requirements.

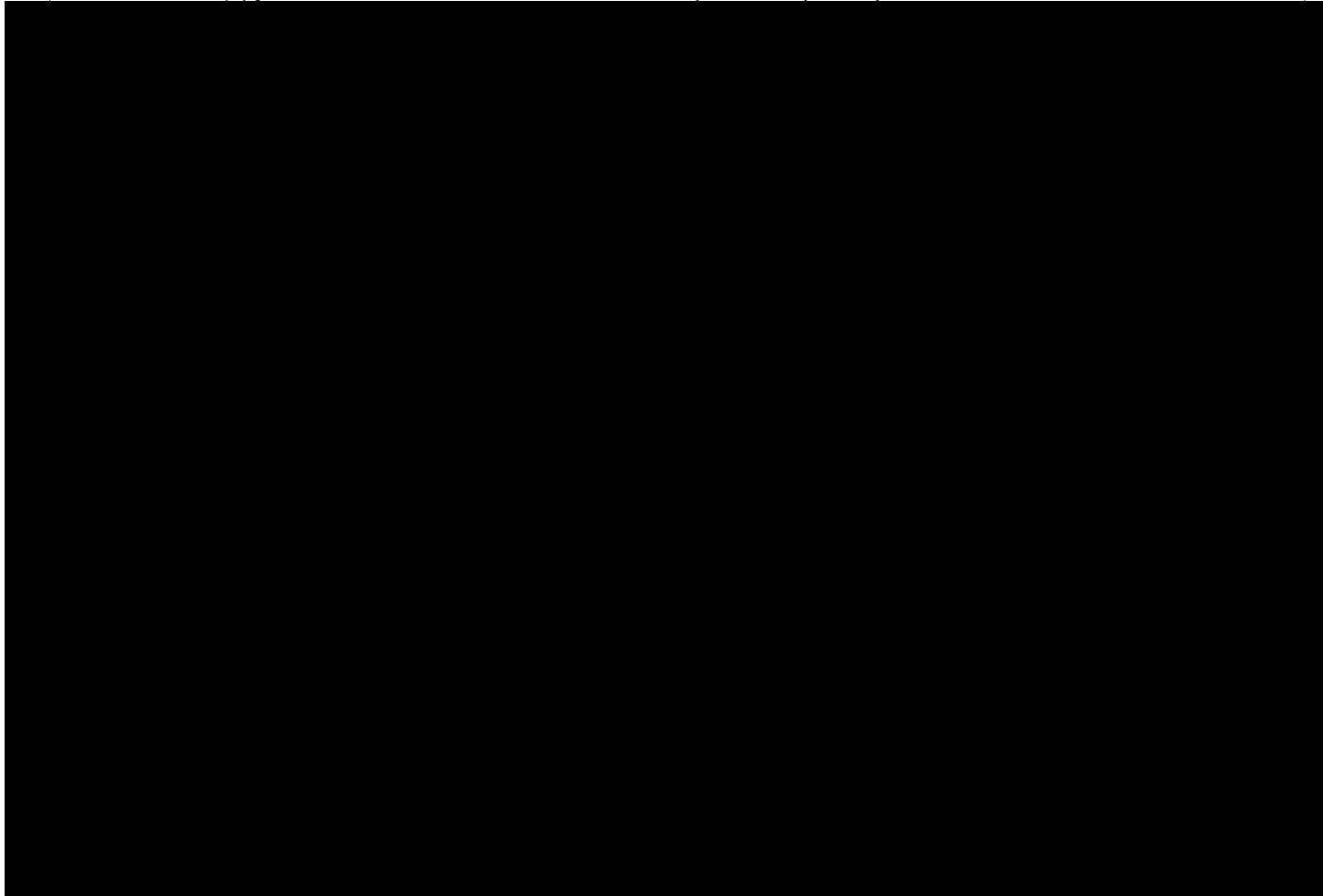
- (1) By no later than October 31, 2019, and by no later than every five years thereafter (October 31, 2024, October 31, 2029, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing to determine either the reduction of total hydrocarbons (as carbon) across Control Device ID C141 or determine the concentration of total hydrocarbons (as carbon) contained in the effluent gas from Control Device ID C141. All testing shall be performed while the respective source is operating at its normal maximum rate of production.
- (2) At least 60 days prior to the performance of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and to the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. The protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (3) At least 10 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

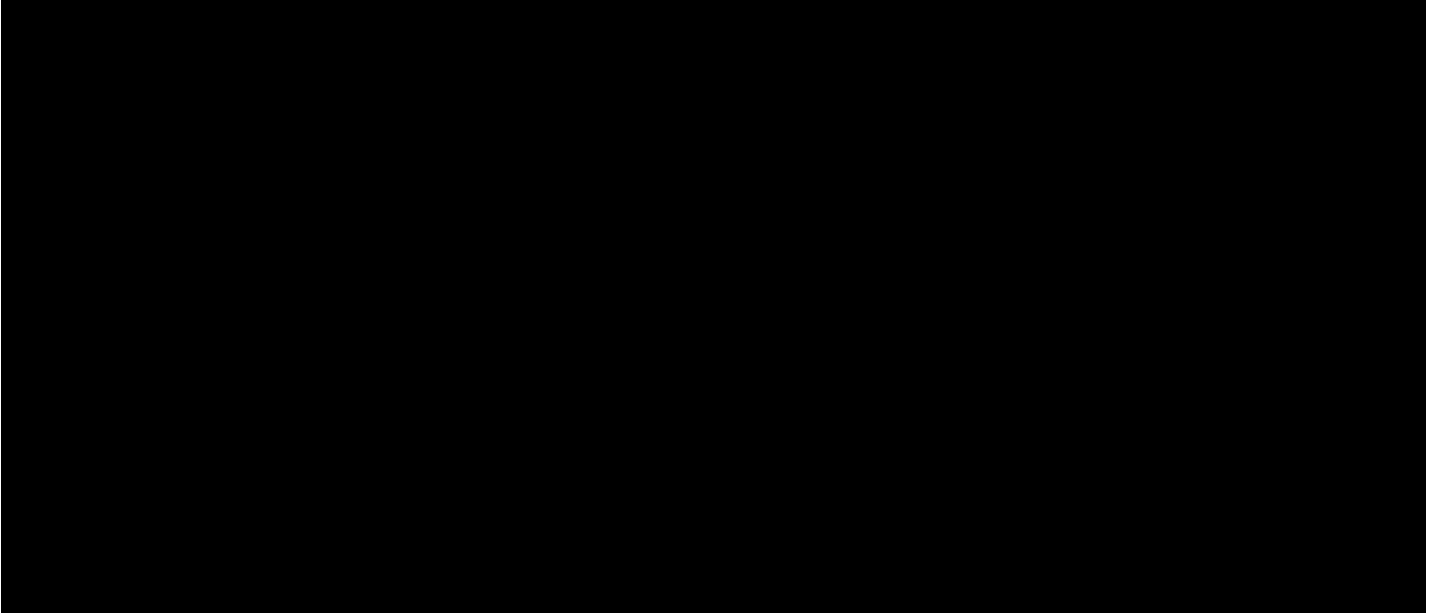
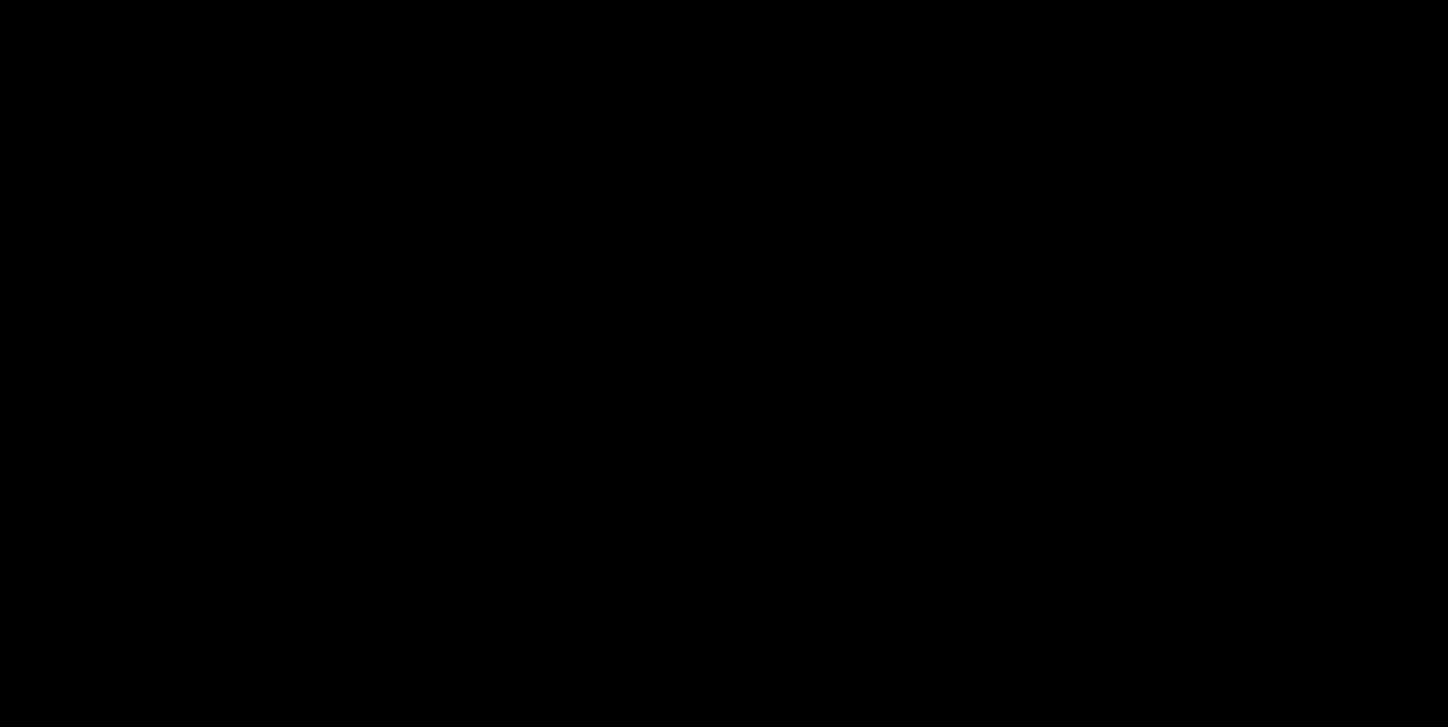
**SECTION D. Source Level Requirements**

# 025

**Recordkeeping**

The permittee shall maintain accurate and comprehensive records of the tons of wood fiber processed each month in Source ID 141P and Source ID 161P, respectively. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.



**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.**

# 039

**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

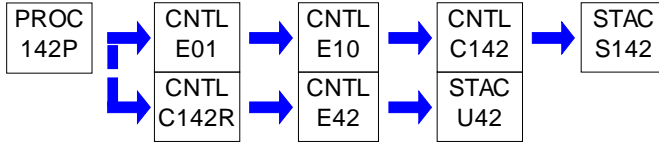
The furnace incorporated in Source ID 141P and Control Device ID C141 shall be maintained and operated in accordance with the manufacturer's specifications and with good operating practices.

## SECTION D. Source Level Requirements

Source ID: 142P

Source Name: LINE 2 REFINERS AND 1ST STAGE DRYERS

Source Capacity/Throughput:



### I. RESTRICTIONS.

#### Emission Restriction(s).

## SECTION D. Source Level Requirements

# 005

### Control of major sources of NOx and VOCs

The volatile organic compound emissions resulting from the volatilization of volatile organic compounds from the wood fiber from the Line 2 fiber dryers incorporated in Source ID 142P and Source ID 162P shall not exceed 44.7 pounds per hour for the first stage dryers incorporated in Source ID 142P, 3.7 pounds per hour for the second stage dryers incorporated in Source ID 162P and 169.50 tons in any 12 consecutive month period, for all dryers combined.

# 006

### Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products What are the compliance options and operating requirements and how must I meet them?

The permittee shall either reduce the emission of total hazardous air pollutants, measured as total hydrocarbons (as carbon), contained in the effluent gas from Control Device IDs C141, C142, D42, D43, E41, E43, C171E, C172D, C184M, RTO01 and C193 by 90% or limit the concentration of total hazardous air pollutants, measured as total hydrocarbons (as carbon), to less than or equal to 20 ppmvd.

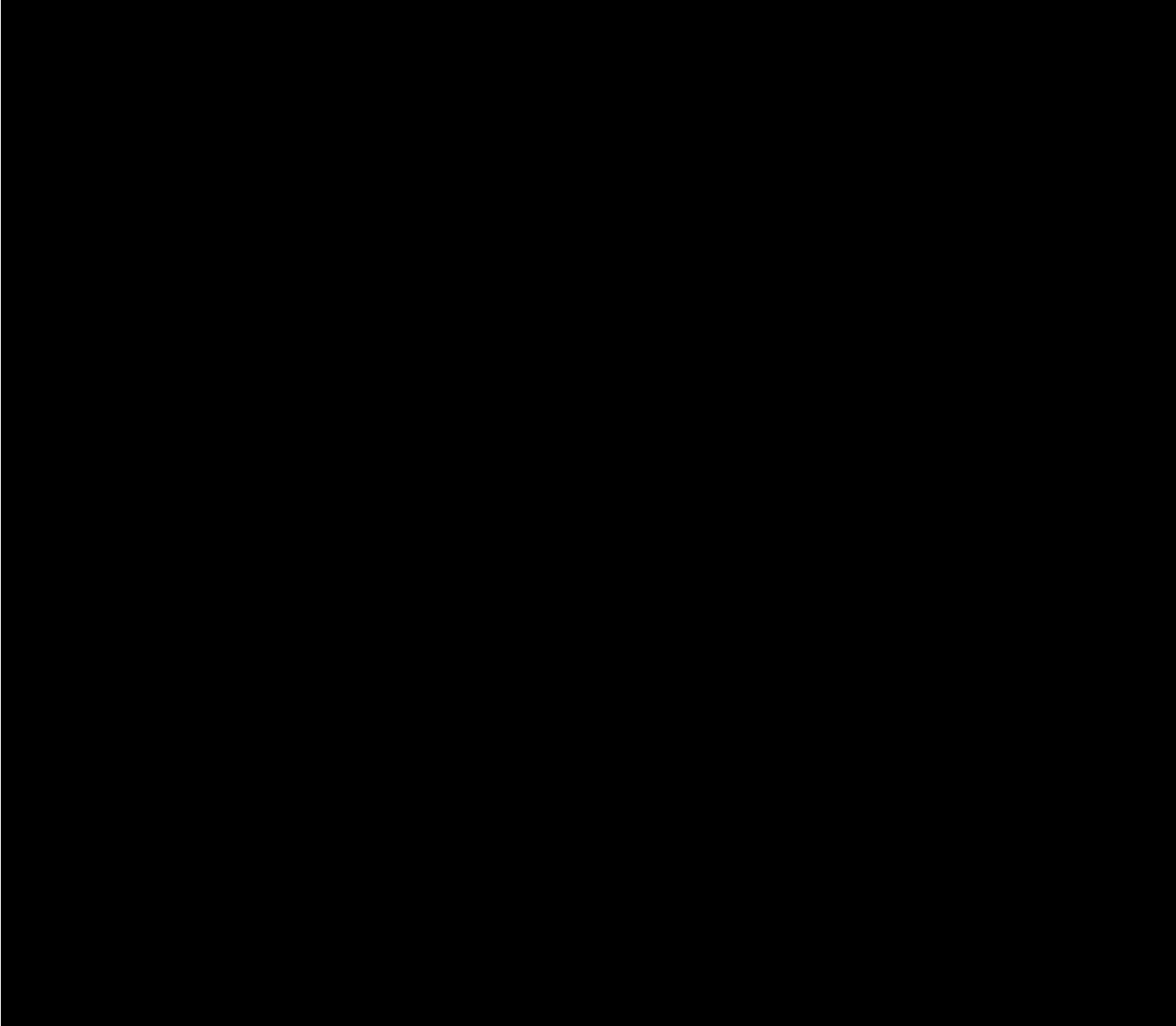
Compliance with this permit condition also ensures compliance with 25 Pa. Code Section 129.99(c).

## II. TESTING REQUIREMENTS.

# 008

### Compliance demonstration and recordkeeping requirements.

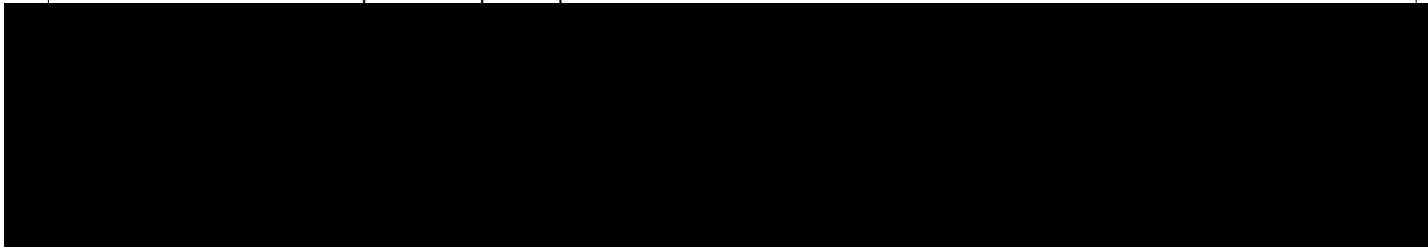
- (1) By no later than March 31, 2019, and by no later than every five years thereafter (March 31, 2024, March 31, 2029, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing to determine either the reduction of total hydrocarbons (as carbon) across Control Device ID C142 or determine the concentration of total hydrocarbons (as carbon) contained in the effluent gas from Control Device ID C142. All testing shall be performed while the respective source is operating at its normal maximum rate of production.
- (2) At least 60 days prior to the performance of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and to the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. The protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (3) At least 10 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

**SECTION D. Source Level Requirements**

# 020

**Recordkeeping**

The permittee shall maintain accurate and comprehensive records of the tons of wood fiber processed each month in the Line II first stage fiber dryers incorporated in Source ID 142P and the Line II second stage fiber dryers incorporated in Source ID 162P. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

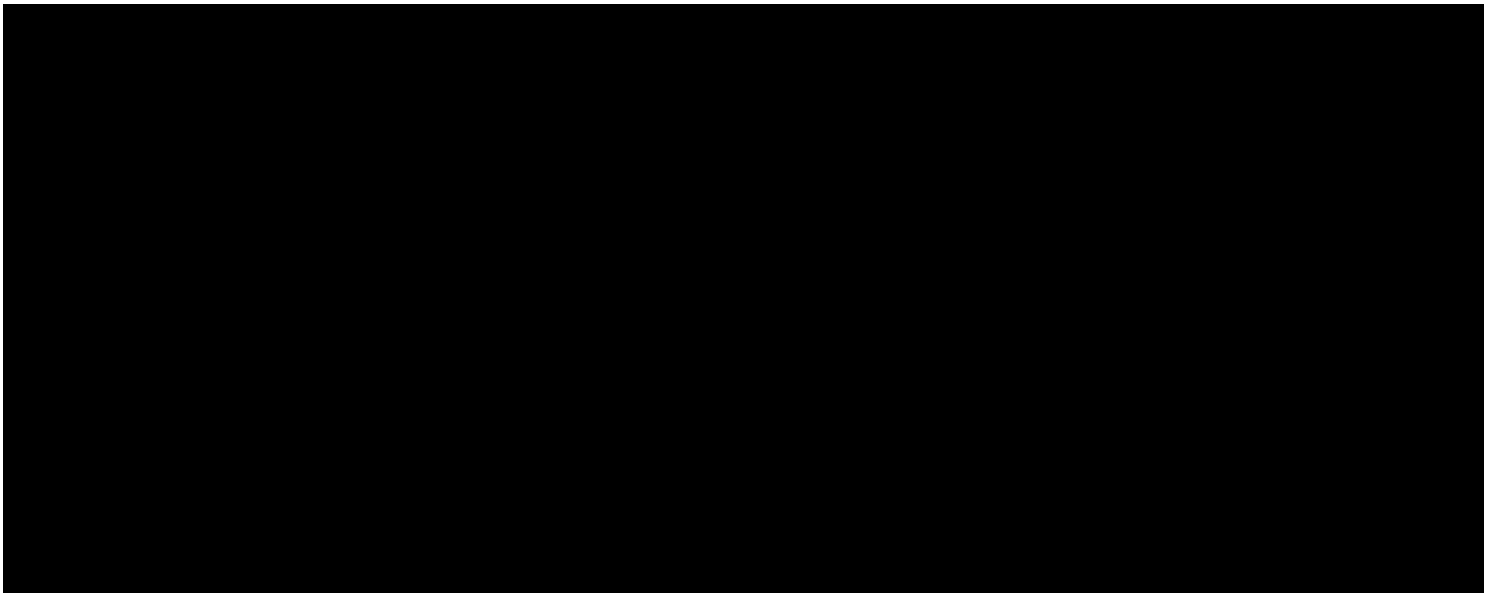


**SECTION D. Source Level Requirements**

# 028

**Compliance demonstration and recordkeeping requirements.**

Within 60 days following the completion of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emission limitation specified herein.

**VI. WORK PRACTICE REQUIREMENTS.**

# 032

**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

Control Device ID C142 shall be maintained and operated in accordance with the manufacturer's specifications and with

**SECTION D. Source Level Requirements**

good operating practices.

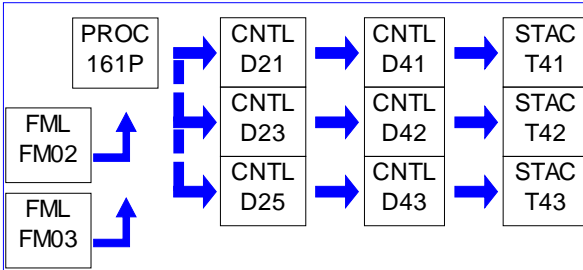


## SECTION D. Source Level Requirements

Source ID: 161P

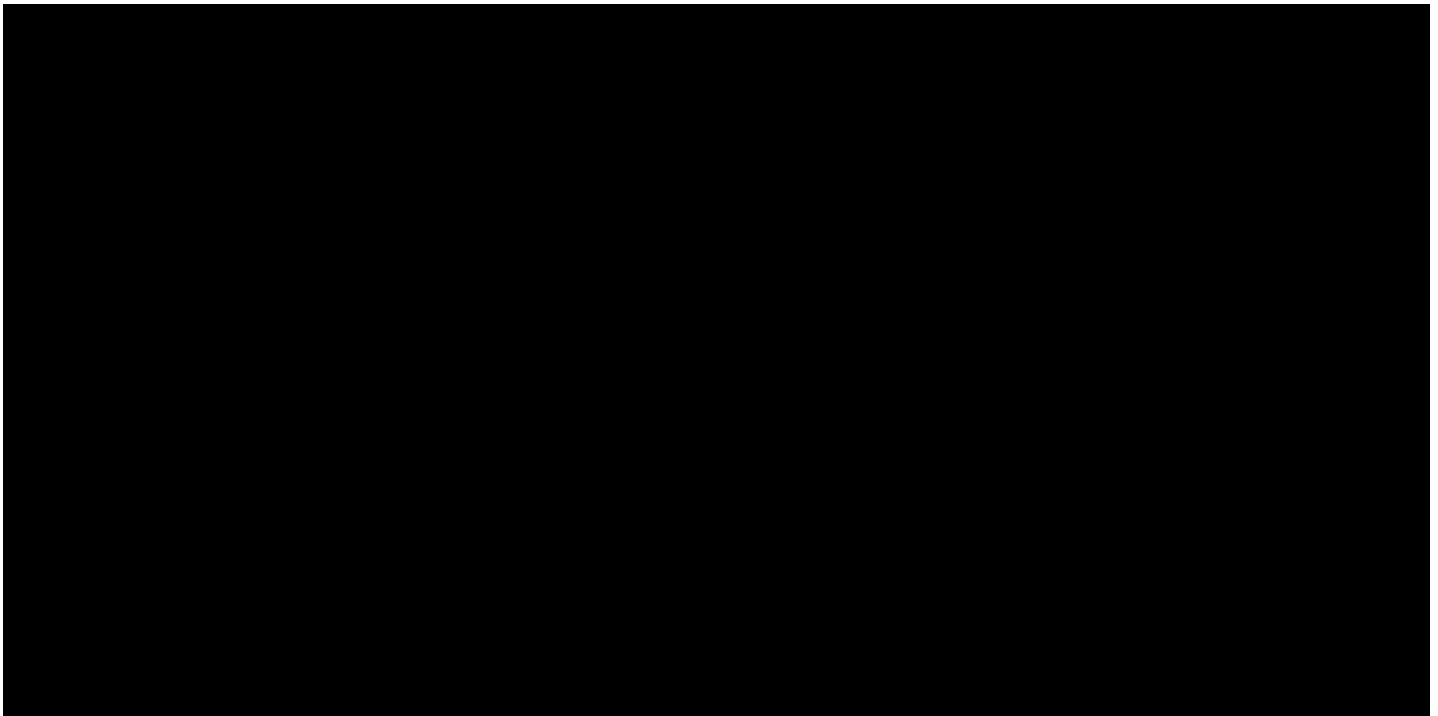
Source Name: 2ND STAGE DRYERS/LINE 1 FELTER OPS

Source Capacity/Throughput:



### I. RESTRICTIONS.

#### Emission Restriction(s).



# 004

#### Control of major sources of NOx and VOCs

The volatile organic compound emissions resulting from the volatilization of volatile organic compounds from the wood fiber from the fiber dryers incorporated in Source ID 141P and Source ID 161P shall not exceed 39.9 pounds per hour for the first stage dryers incorporated in Source ID 141P, 3.2 pounds per hour for the second stage dryers incorporated in Source ID 161P and 151.00 tons in any 12 consecutive month period for all dryers combined.

# 005

#### Control of major sources of NOx and VOCs

The volatile organic compound and nitrogen oxides (NOx, expressed as NO2) emissions resulting from the combustion of natural gas from the combustion sources incorporated in Source ID 141P and Source ID 161P shall not exceed 2.00 tons in any 12 consecutive month period and 47.90 tons in any 12 consecutive month period, respectively (these limits are based on the use of AP-42 emission factors for natural gas combustion).

# 006

#### Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products

#### What are the compliance options and operating requirements and how must I meet them?

The permittee shall either reduce the emission of total hazardous air pollutants, measured as total hydrocarbons (as

**SECTION D. Source Level Requirements**

carbon), contained in the effluent gas from Control Device IDs C141, C142, D42, D43, E41, E43, C171E, C172D, C184M, RTO01 and C193 by 90% or limit the concentration of total hazardous air pollutants, measured as total hydrocarbons (as carbon), to less than or equal to 20 ppmvd.

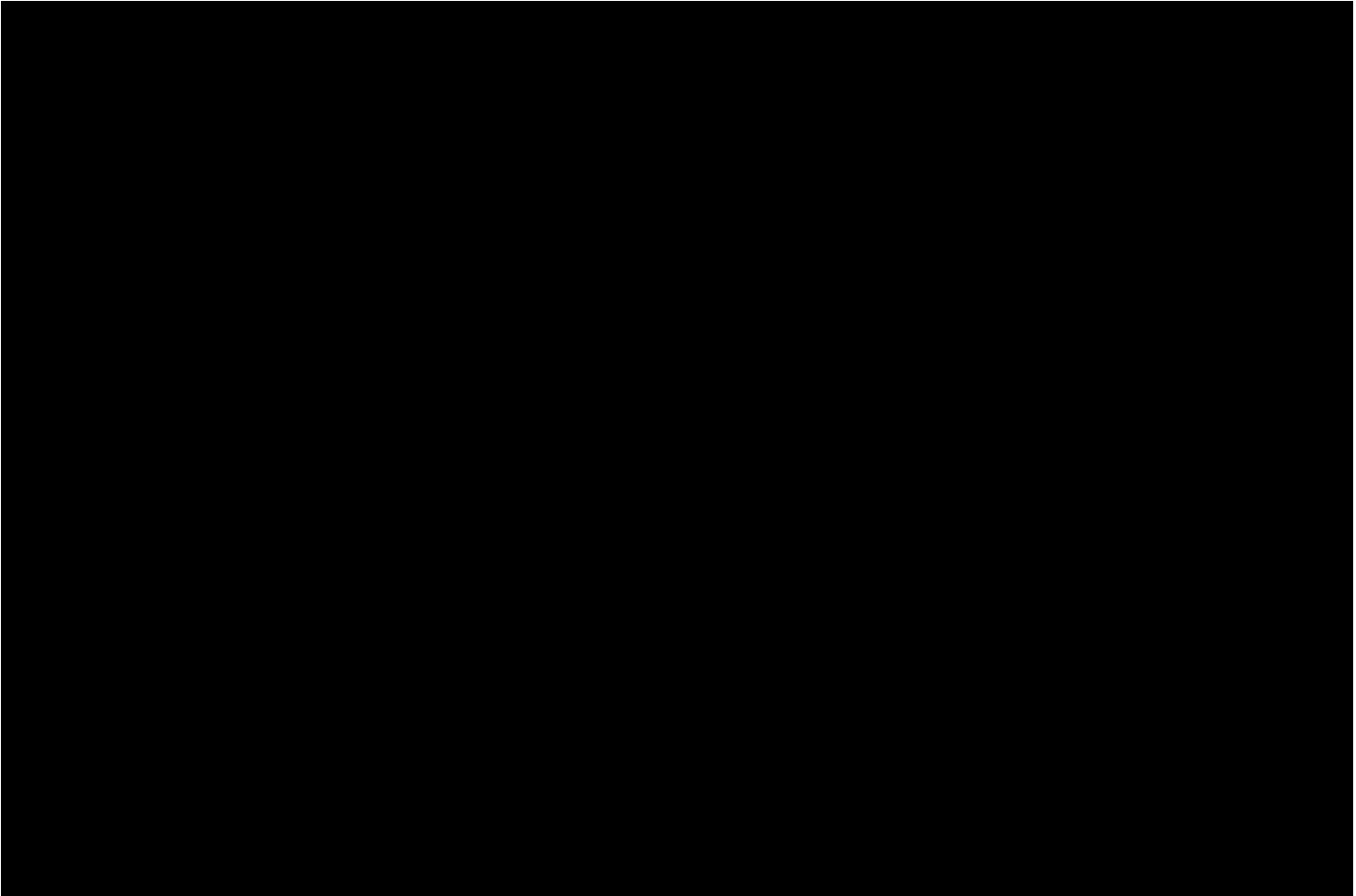
Compliance with this permit condition also ensures compliance with 25 Pa. Code Section 129.99(c).

**II. TESTING REQUIREMENTS.**

# 008

**Compliance demonstration and recordkeeping requirements.**

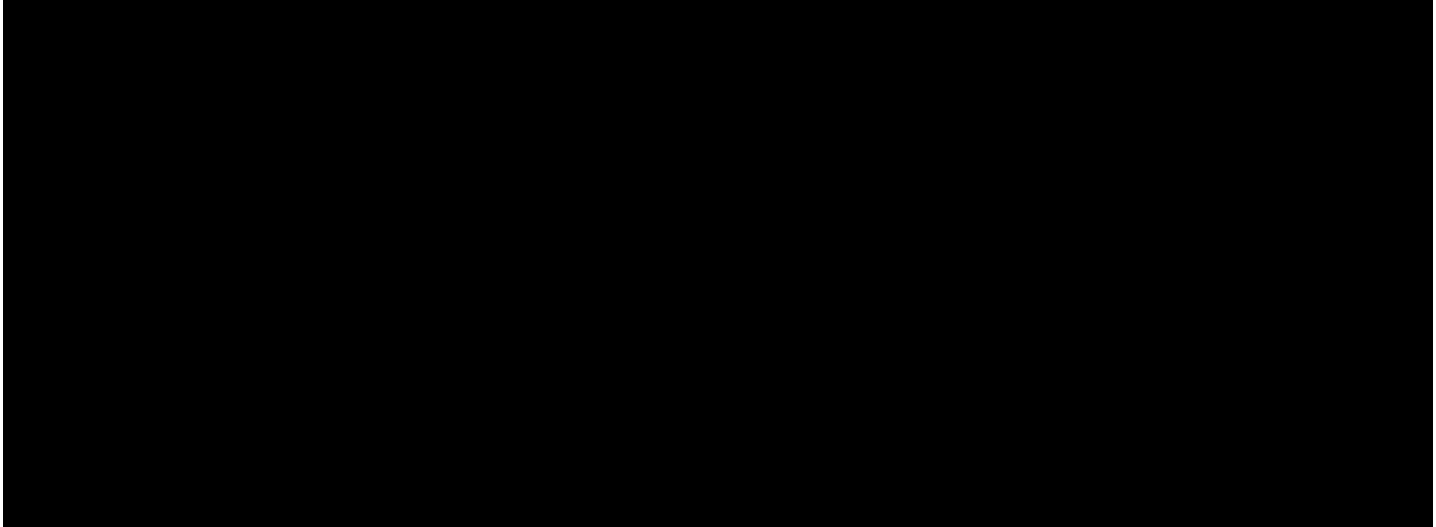
- (1) By no later than October 31, 2019, and by no later than every five years thereafter (October 31, 2024, October 31, 2029, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing to determine either the reduction of total hydrocarbons (as carbon) across Control Device IDs D42 and D43 or determine the concentration of total hydrocarbons (as carbon) contained in the effluent gas from Control Device IDs D42 and D43. All testing shall be performed while the respective source is operating at its normal maximum rate of production.
- (2) At least 60 days prior to the performance of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and to the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. The protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (3) At least 10 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

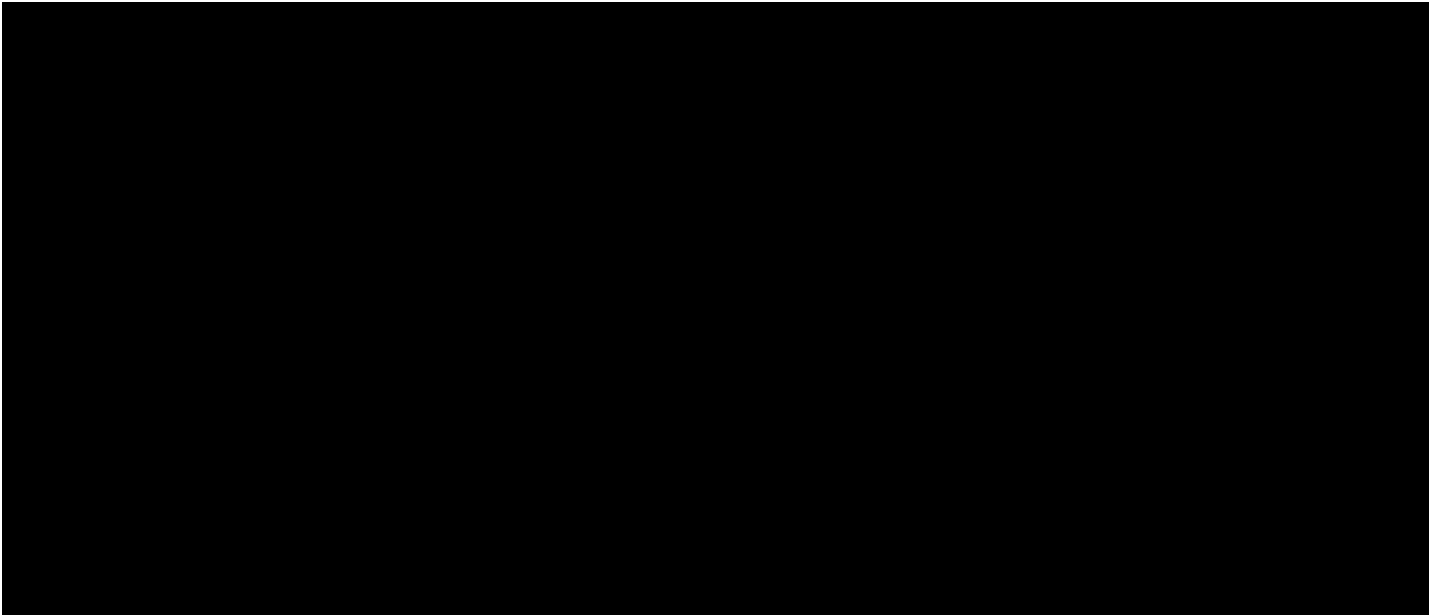
**SECTION D. Source Level Requirements**

# 019

**Recordkeeping**

The permittee shall maintain accurate and comprehensive records of the tons of wood fiber processed each month in Source ID 141P and Source ID 161P, respectively. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.



**SECTION D. Source Level Requirements**

# 028

**Compliance demonstration and recordkeeping requirements.**

Within 60 days following the completion of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emission limitation specified herein.

**VI. WORK PRACTICE REQUIREMENTS.**

# 029

**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

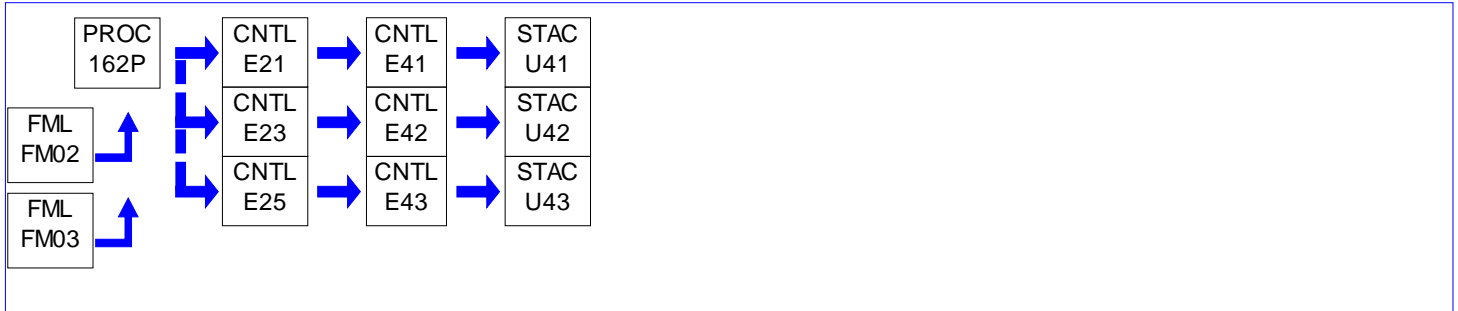
The furnaces incorporated in Source ID 161P shall be maintained and operated in accordance with the manufacturer's specifications and with good operating practices.

## SECTION D. Source Level Requirements

Source ID: 162P

Source Name: 2ND STAGE DRYERS/LINE 2 FELTER OPS

Source Capacity/Throughput:



### I. RESTRICTIONS.

#### Emission Restriction(s).

# 003

#### Control of major sources of NOx and VOCs

The volatile organic compound emissions resulting from the volatilization of volatile organic compounds from the wood fiber from the Line 2 fiber dryers incorporated in Source ID 142P and Source ID 162P shall not exceed 44.7 pounds per hour for the first stage dryers incorporated in Source ID 142P, 3.7 pounds per hour for the second stage dryers incorporated in Source ID 162P and 169.50 tons in any 12 consecutive month period, for all dryers combined.

# 004

#### Control of major sources of NOx and VOCs

The nitrogen oxides (NOx, expressed as NO2) and volatile organic compound emissions (resulting from the combustion of natural gas) from the four (4) Line 2 second stage fiber dryers incorporated in Source ID 162P shall not exceed 47.90 tons in any 12 consecutive month period and 2.00 tons in any 12 consecutive month period, respectively (these limits are based on the use of AP-42 emission factors for natural gas combustion).

# 005

#### Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products

#### What are the compliance options and operating requirements and how must I meet them?

The permittee shall either reduce the emission of total hazardous air pollutants, measured as total hydrocarbons (as carbon), contained in the effluent gas from Control Device IDs C141, C142, D42, D43, E41, E43, C171E, C172D, C184M, RTO01 and C193 by 90% or limit the concentration of total hazardous air pollutants, measured as total hydrocarbons (as carbon), to less than or equal to 20 ppmvd.

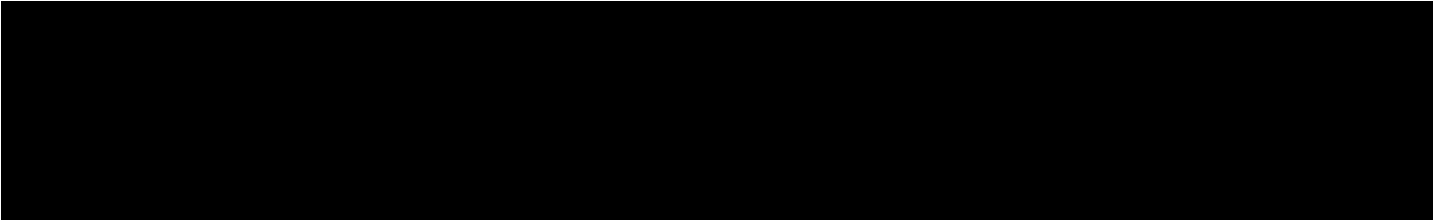
Compliance with this permit condition also ensures compliance with 25 Pa. Code Section 129.99(c).

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

# 007

**Compliance demonstration and recordkeeping requirements.**

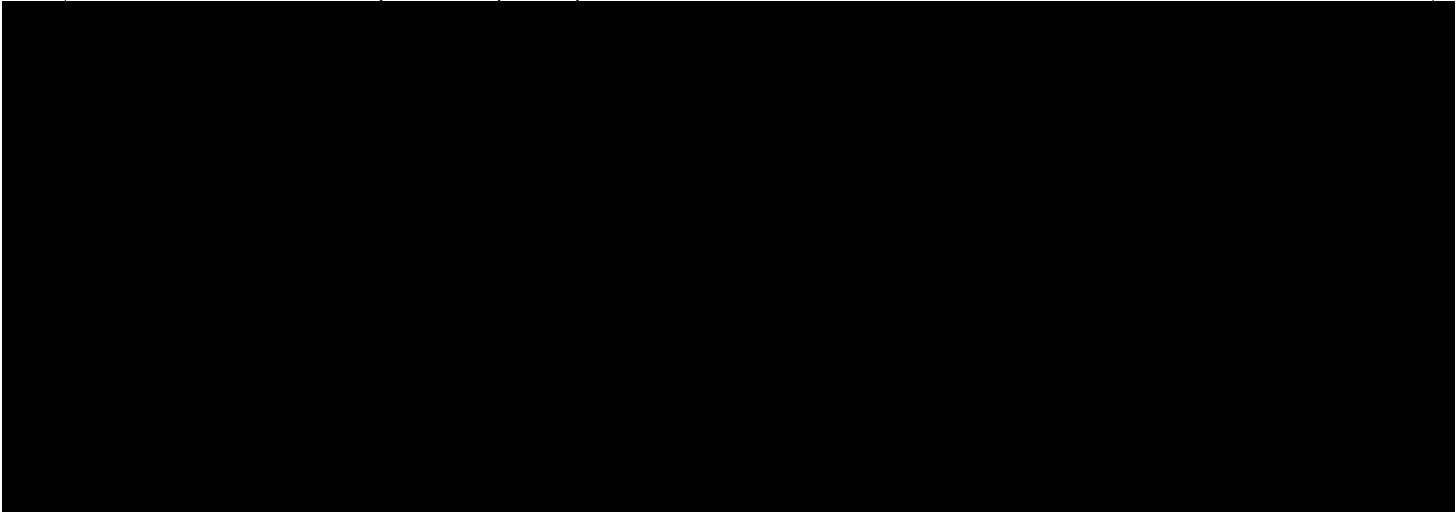
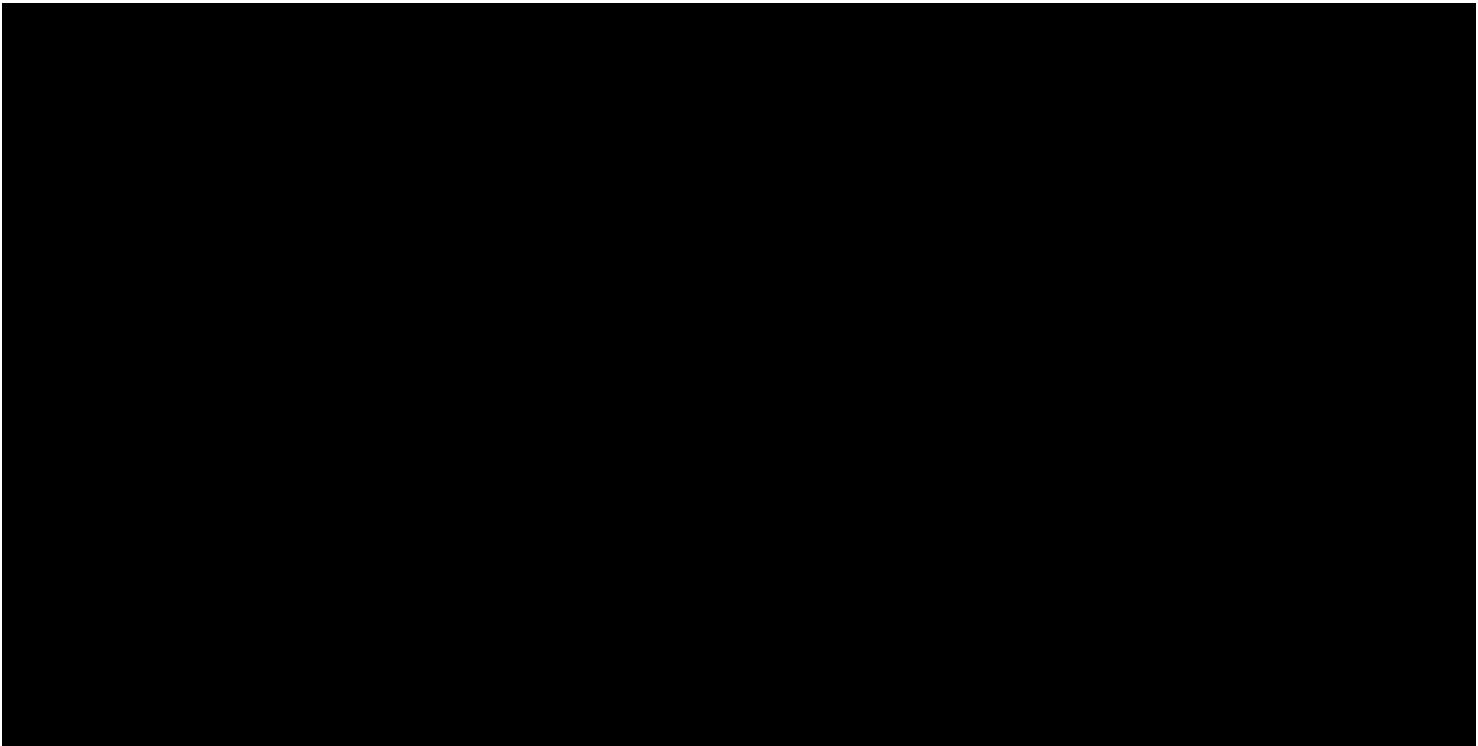
- (1) By no later than March 31, 2019, and by no later than every five years thereafter (March 31, 2024, March 31, 2029, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing to determine either the reduction of total hydrocarbons (as carbon) across Control Device IDs E41 and E43 or determine the concentration of total hydrocarbons (as carbon) contained in the effluent gas from Control Device IDs E41 and E43. All testing shall be performed while the respective source is operating at its normal maximum rate of production.
- (2) At least 60 days prior to the performance of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and to the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. The protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (3) At least 10 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

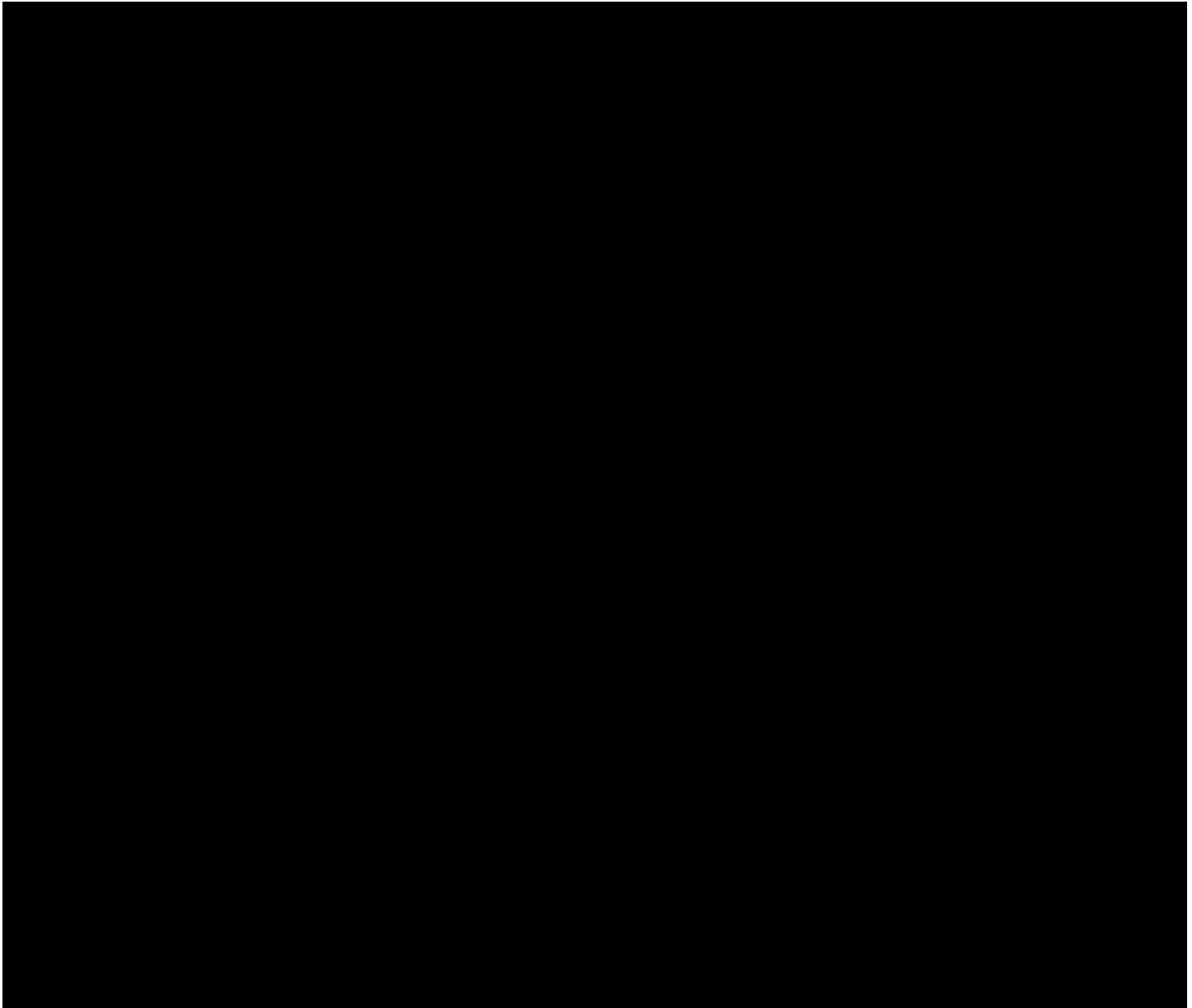
**SECTION D. Source Level Requirements**

# 017

**Recordkeeping**

The permittee shall maintain accurate and comprehensive records of the tons of wood fiber processed each month in the Line II first stage fiber dryers incorporated in Source ID 142P and the Line II second stage fiber dryers incorporated in Source ID 162P. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

**SECTION D. Source Level Requirements**

# 025

**Compliance demonstration and recordkeeping requirements.**

Within 60 days following the completion of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emission limitation specified herein.

**VI. WORK PRACTICE REQUIREMENTS.**

# 026

**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]



**SECTION D. Source Level Requirements**

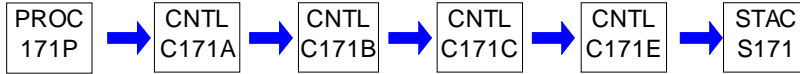
The furnaces incorporated in Source ID 162P shall be maintained and operated in accordance with the manufacturer's specifications and with good operating practices.

## SECTION D. Source Level Requirements

Source ID: 171P

Source Name: LINE 1 PRESS

Source Capacity/Throughput:



### I. RESTRICTIONS.

#### Emission Restriction(s).

# 003

#### Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products What are the compliance options and operating requirements and how must I meet them?

The permittee shall either reduce the emission of total hazardous air pollutants, measured as total hydrocarbons (as carbon), contained in the effluent gas from Control Device IDs C141, C142, D42, D43, E41, E43, C171E, C172D, C184M, RTO01 and C193 by 90% or limit the concentration of total hazardous air pollutants, measured as total hydrocarbons (as carbon), to less than or equal to 20 ppmvd.

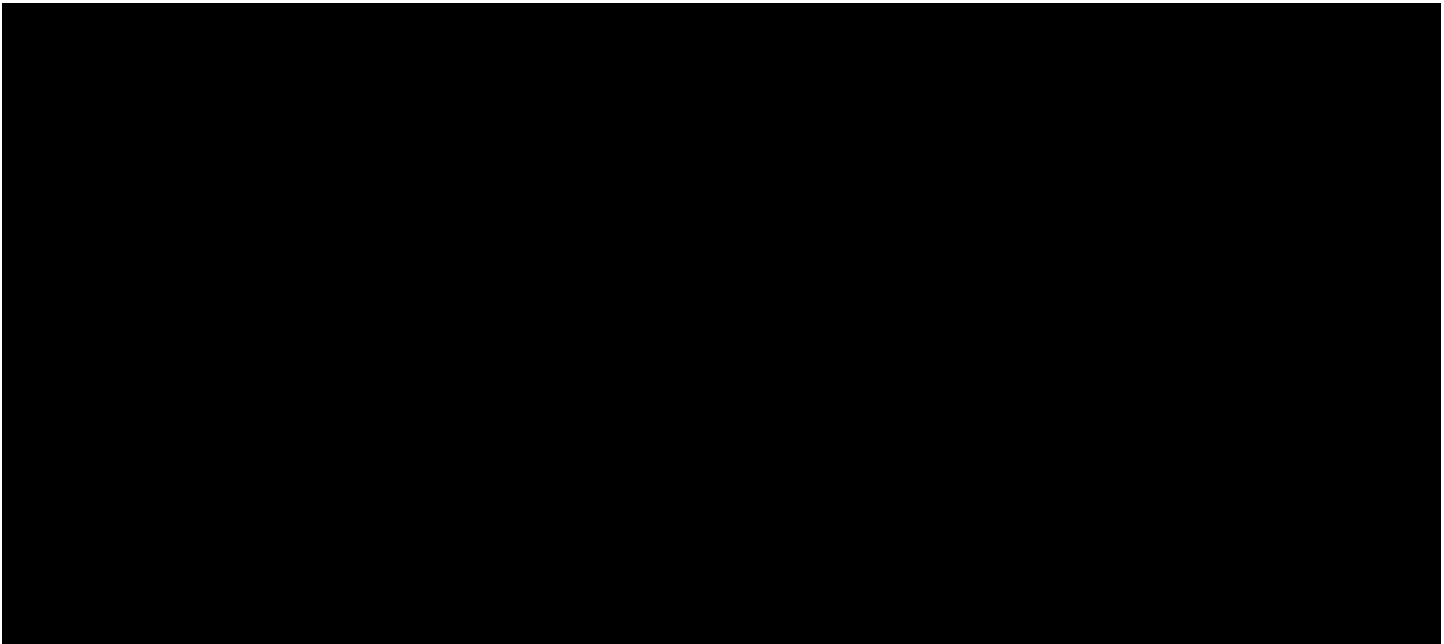
Compliance with this permit condition also ensures compliance with 25 Pa. Code Section 129.99(c).

### II. TESTING REQUIREMENTS.

# 004

#### Compliance demonstration and recordkeeping requirements.

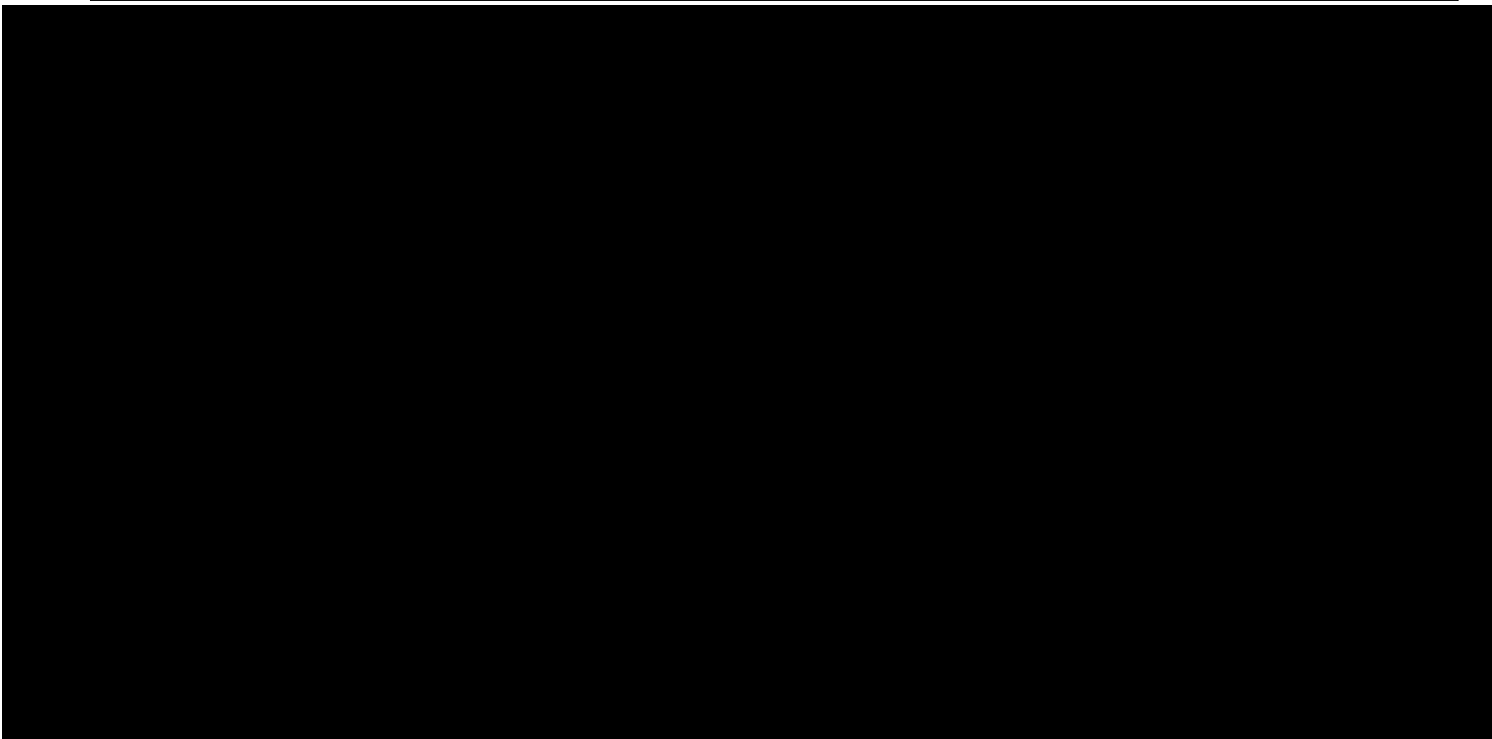
- (1) By no later than October 31, 2019, and by no later than every five years thereafter (October 31, 2024, October 31, 2029, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing to determine either the reduction of total hydrocarbons (as carbon) across Control Device ID C171E or determine the concentration of total hydrocarbons (as carbon) contained in the effluent gas from Control Device ID C171E. All testing shall be performed while the respective source is operating at its normal maximum rate of production.
- (2) At least 60 days prior to the performance of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and to the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. The protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (3) At least 10 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

**SECTION D. Source Level Requirements**

# 022

**Compliance demonstration and recordkeeping requirements.**

Within 60 days following the completion of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emission limitation specified herein.

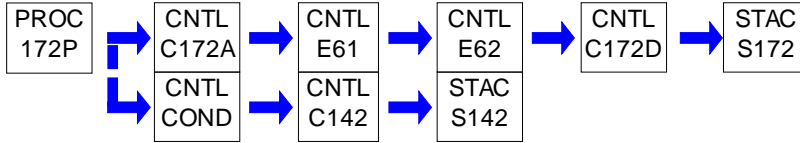


## SECTION D. Source Level Requirements

Source ID: 172P

Source Name: LINE 2 PRESS

Source Capacity/Throughput:



### I. RESTRICTIONS.

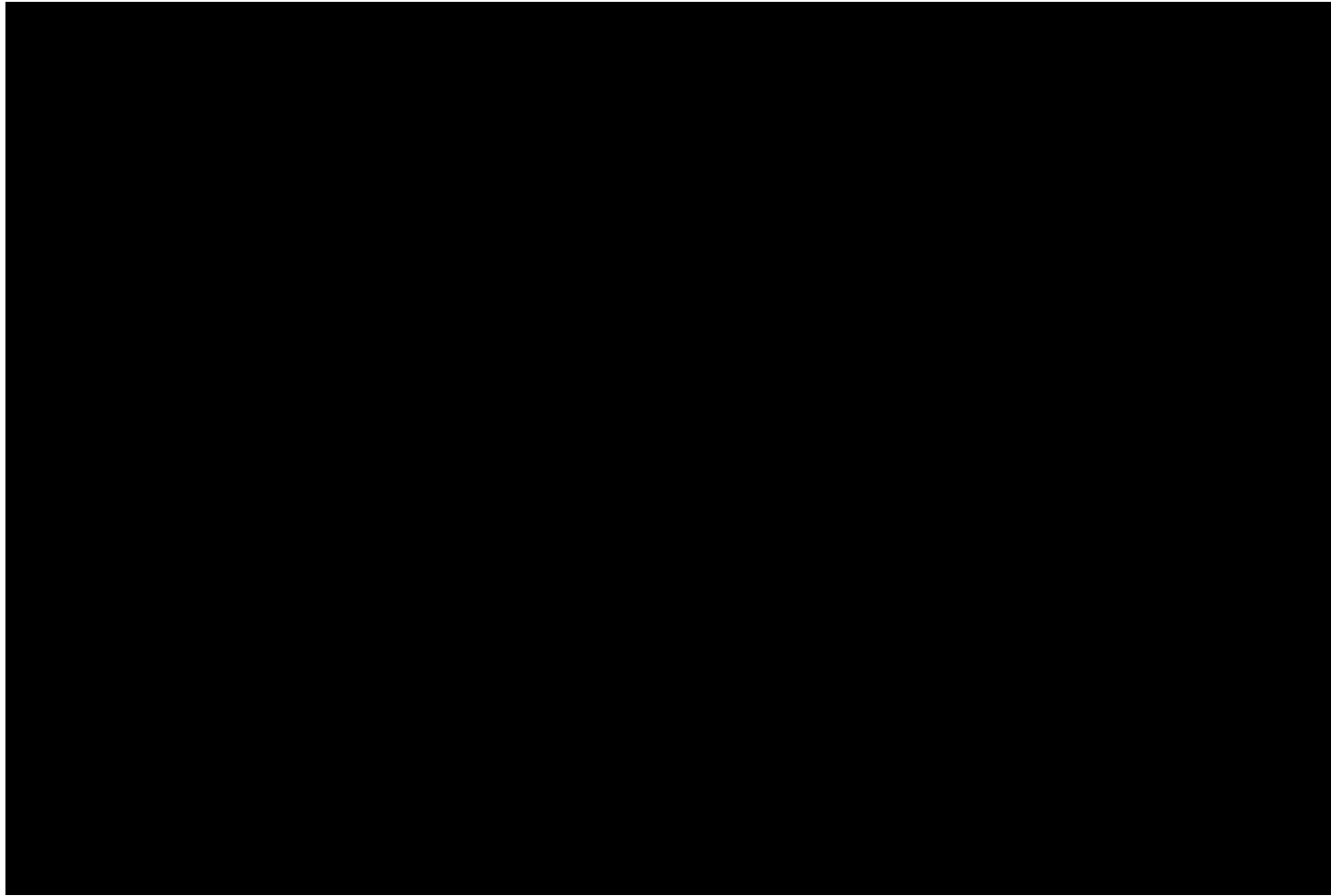
#### Emission Restriction(s).

# 003

**Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products**  
**What are the compliance options and operating requirements and how must I meet them?**

The permittee shall either reduce the emission of total hazardous air pollutants, measured as total hydrocarbons (as carbon), contained in the effluent gas from Control Device IDs C141, C142, D42, D43, E41, E43, C171E, C172D, C184M, RTO01 and C193 by 90% or limit the concentration of total hazardous air pollutants, measured as total hydrocarbons (as carbon), to less than or equal to 20 ppmvd.

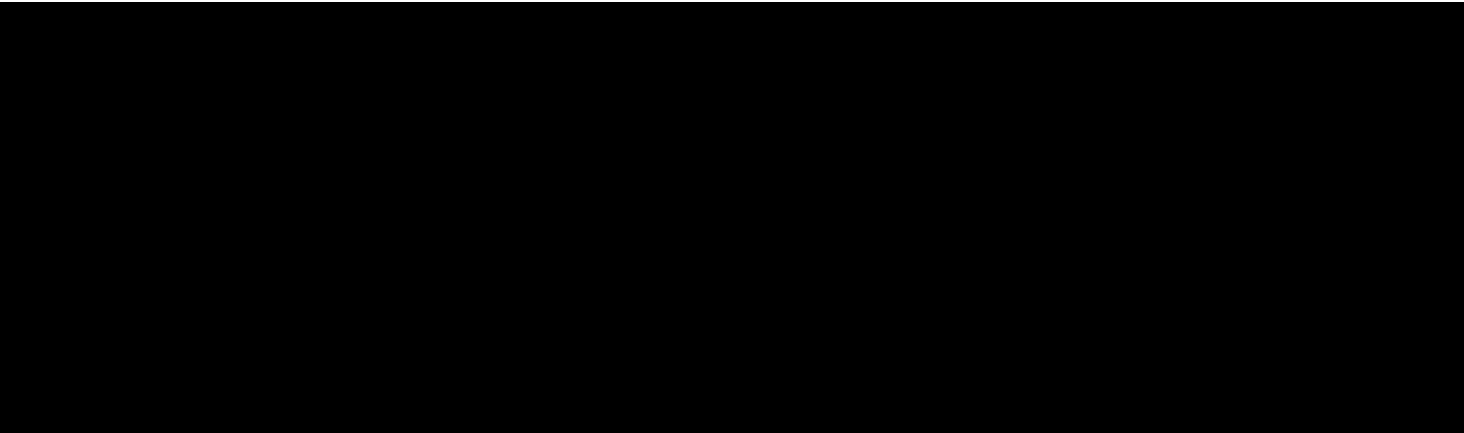
Compliance with this permit condition also ensures compliance with 25 Pa. Code Section 129.99(c).

**SECTION D. Source Level Requirements**

# 026

**Compliance demonstration and recordkeeping requirements.**

Within 60 days following the completion of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emission limitation specified herein.

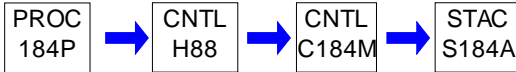


**SECTION D. Source Level Requirements**

Source ID: 184P

Source Name: DIE FORM PRESS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

# 003

**Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products**  
**What are the compliance options and operating requirements and how must I meet them?**

The permittee shall either reduce the emission of total hazardous air pollutants, measured as total hydrocarbons (as carbon), contained in the effluent gas from Control Device IDs C141, C142, D42, D43, E41, E43, C171E, C172D, C184M, RTO01 and C193 by 90% or limit the concentration of total hazardous air pollutants, measured as total hydrocarbons (as carbon), to less than or equal to 20 ppmvd.

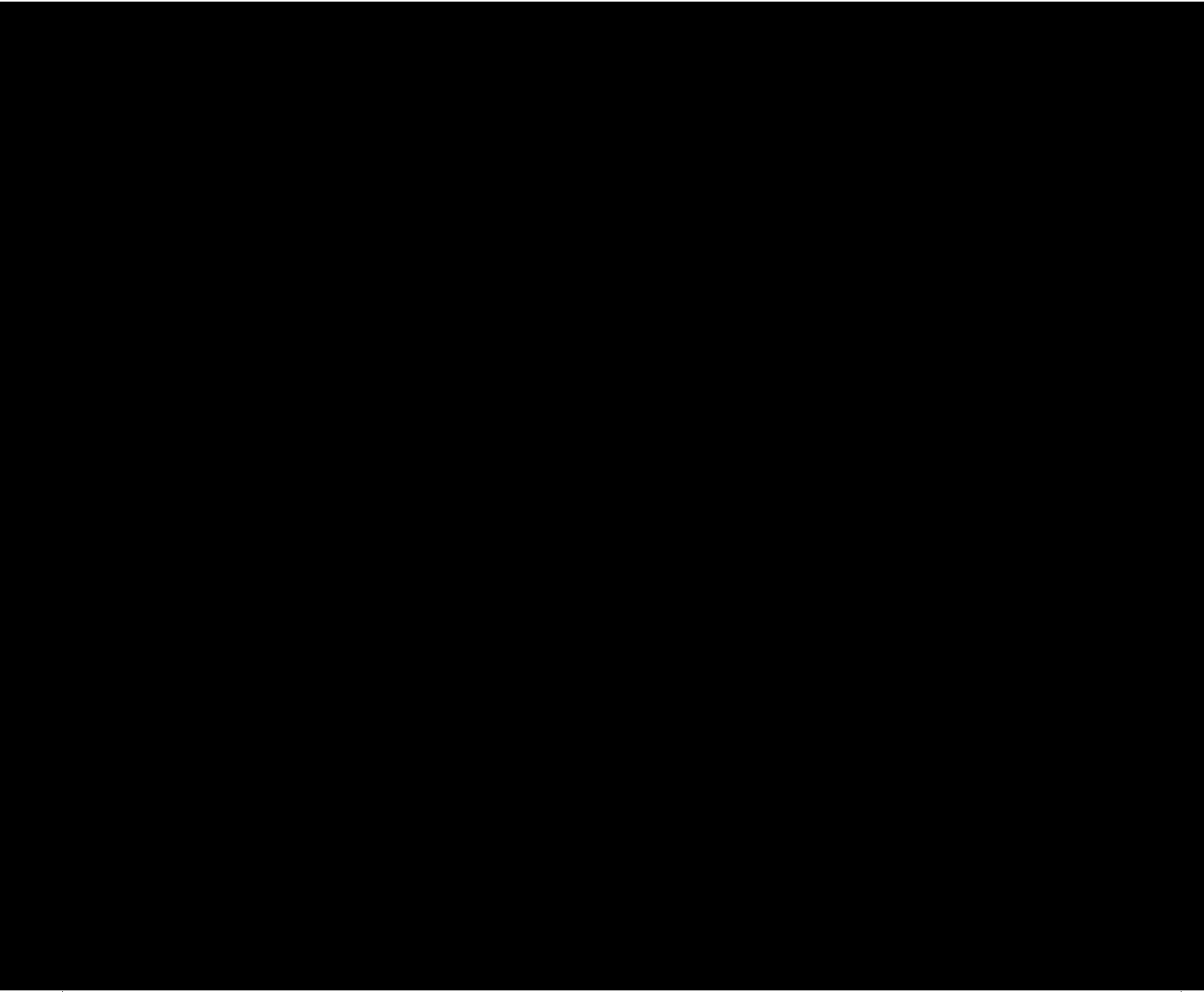
Compliance with this permit condition also ensures compliance with 25 Pa. Code Section 129.99(c).

**II. TESTING REQUIREMENTS.**

# 004

**Compliance demonstration and recordkeeping requirements.**

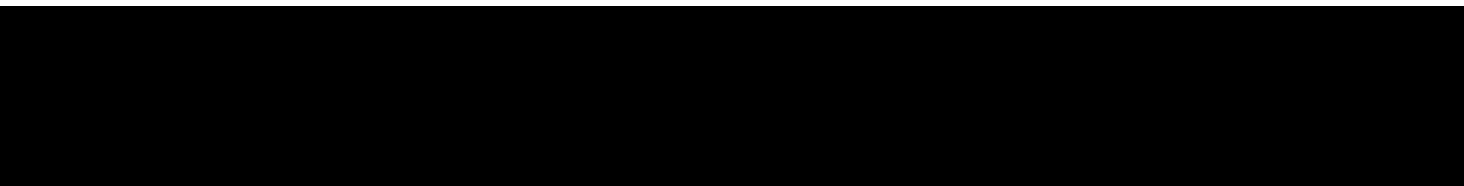
- (1) By no later than November 30, 2018, and by no later than every five years thereafter (November 30, 2023, November 30, 2028, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing to determine either the reduction of total hydrocarbons (as carbon) across Control Device ID C184M or determine the concentration of total hydrocarbons (as carbon) contained in the effluent gas from Control Device ID C184M. All testing shall be performed while the respective source is operating at its normal maximum rate of production.
- (2) At least 60 days prior to the performance of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and to the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. The protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (3) At least 10 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

**SECTION D. Source Level Requirements**

# 016

**Compliance demonstration and recordkeeping requirements.**

Within 60 days following the completion of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a test report to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. This test report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of all testing shall be expressed in units which will allow direct comparisons to the emission limitation specified herein.

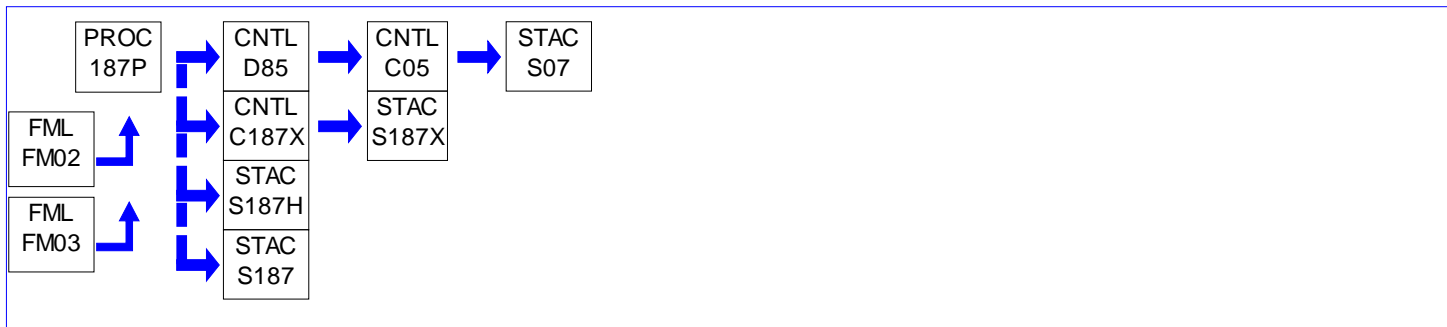


## SECTION D. Source Level Requirements

Source ID: 187P

Source Name: DIE FORM COATING

Source Capacity/Throughput:



### I. RESTRICTIONS.

Emission Restriction(s).

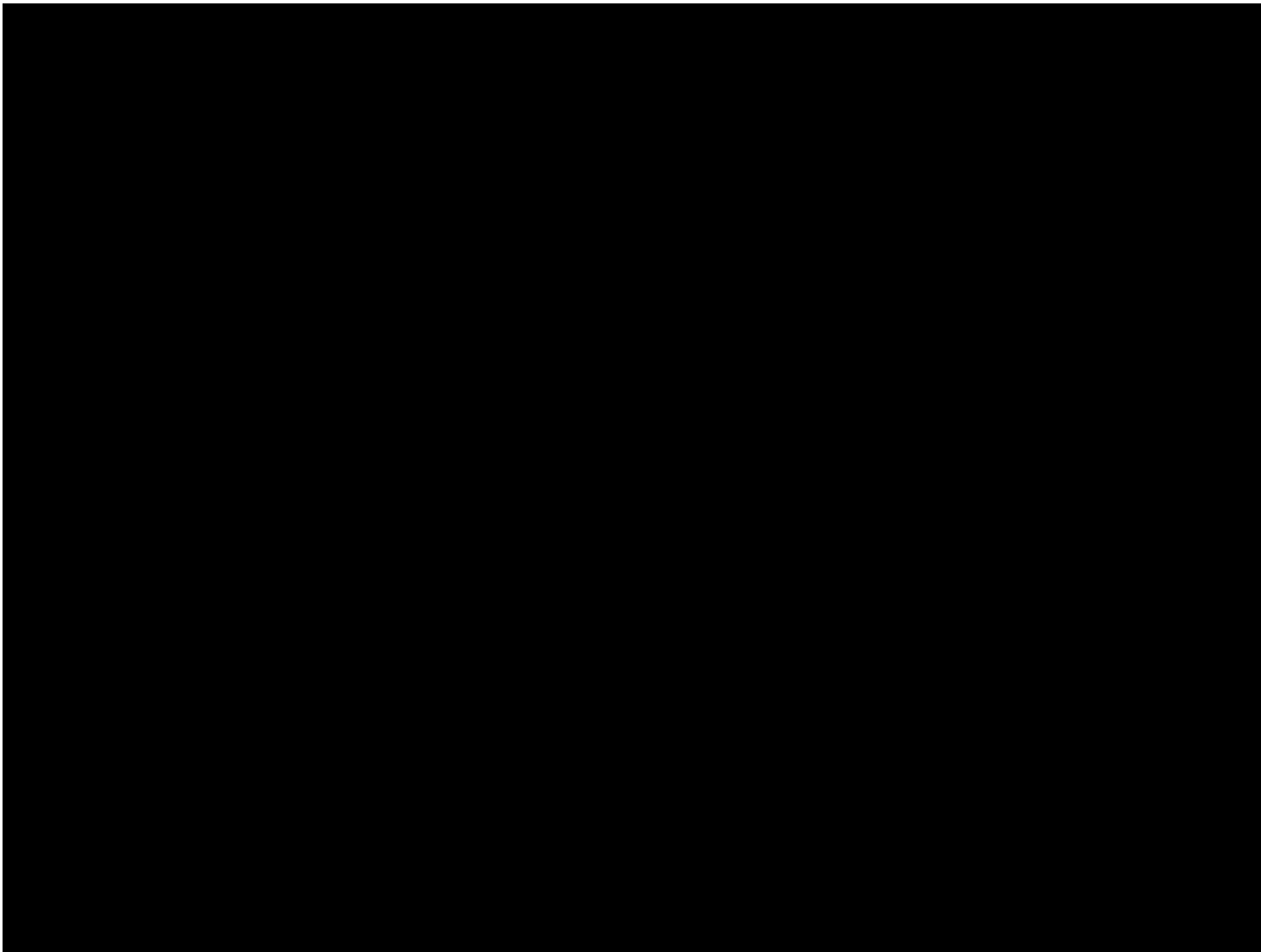


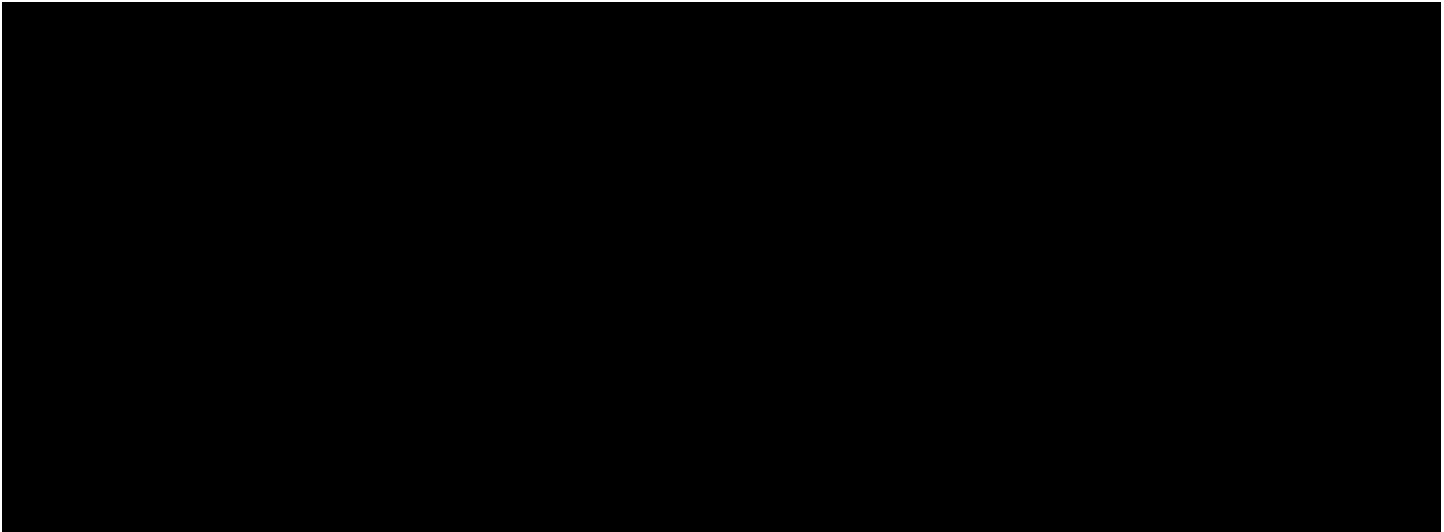
**SECTION D. Source Level Requirements**

# 009

**Control of major sources of NOx and VOCs**

The nitrogen oxides (NOx, expressed as NO2) emissions resulting from the combustion of natural gas in the drying ovens incorporated in Source ID 187P shall not exceed 3.20 tons in any 12 consecutive month period.



**SECTION D. Source Level Requirements**

# 031

**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

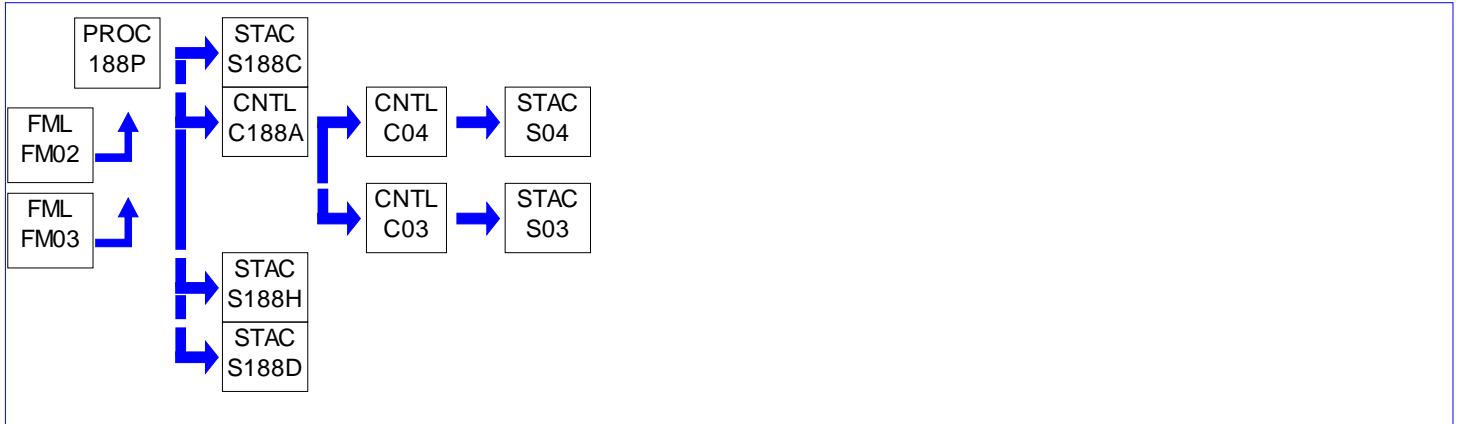
The drying ovens incorporated in Source ID 187P shall be maintained and operated in accordance with the manufacturer's specifications and with good operating practices.

## SECTION D. Source Level Requirements

Source ID: 188P

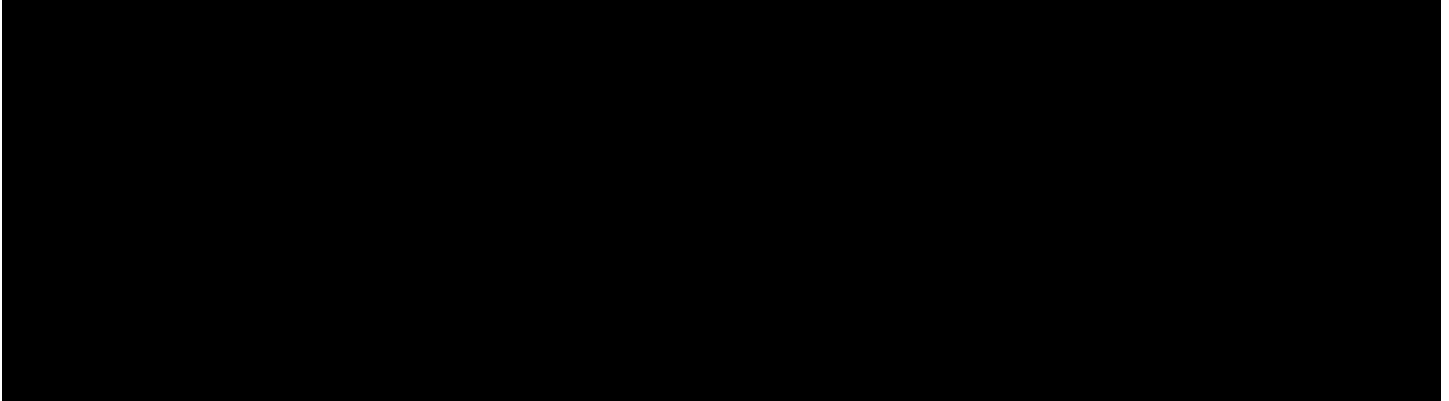
Source Name: COATING LINE 1

Source Capacity/Throughput:



### I. RESTRICTIONS.

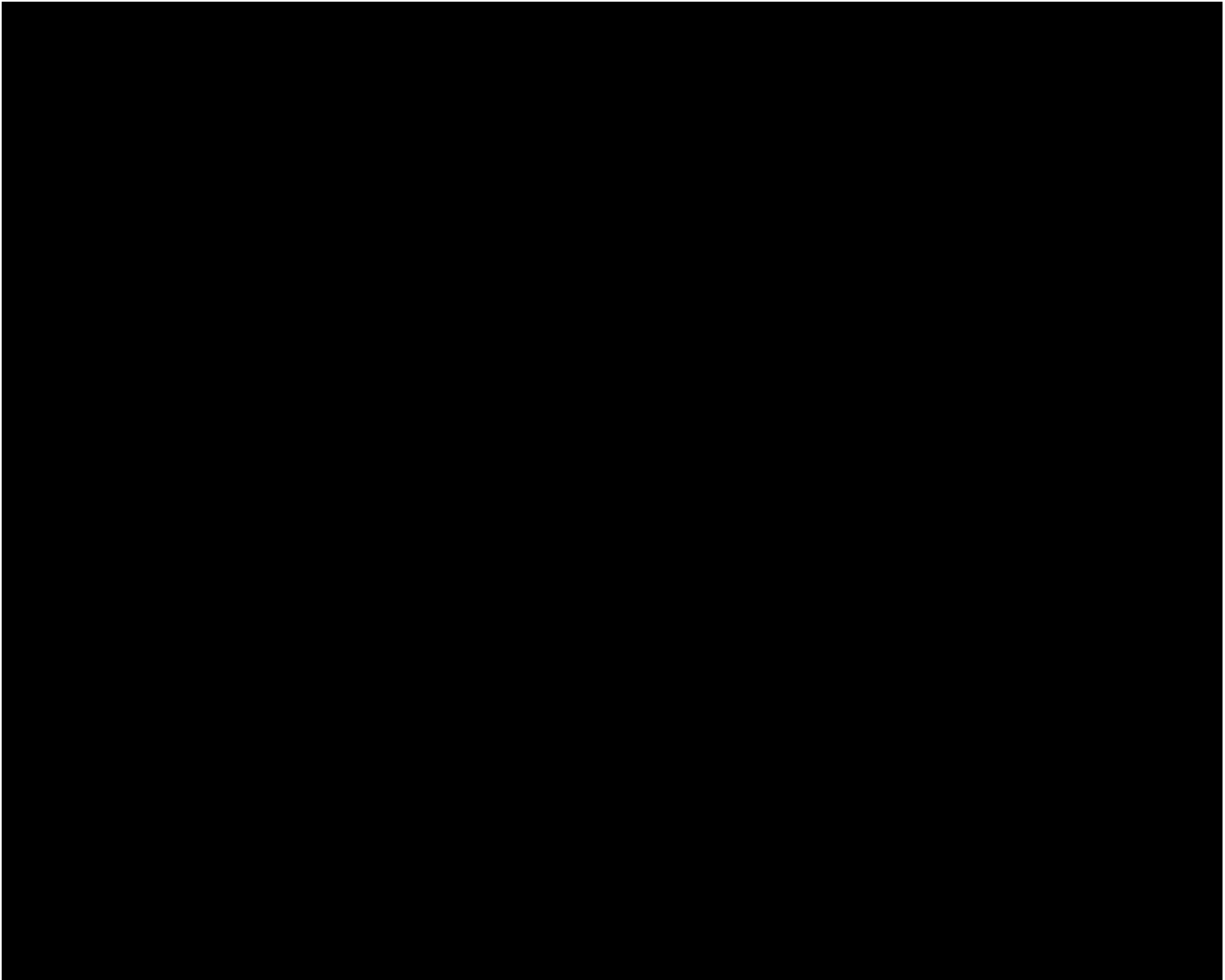
Emission Restriction(s).

**SECTION D. Source Level Requirements**

# 008

**Control of major sources of NOx and VOCs**

The nitrogen oxides (NOx, expressed as NO2) emissions resulting from the combustion of natural gas in the drying ovens incorporated in Source ID 188P shall not exceed 12.10 tons in any 12 consecutive month period.

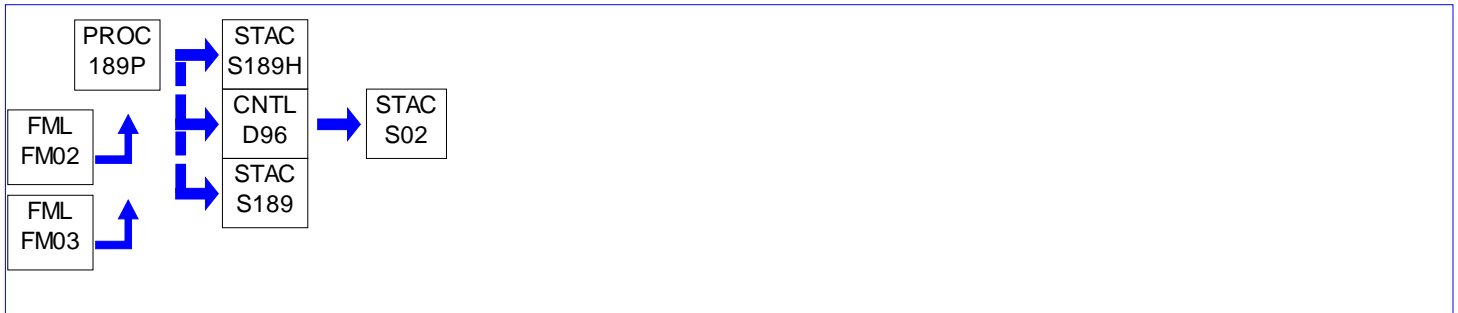


## SECTION D. Source Level Requirements

Source ID: 189P

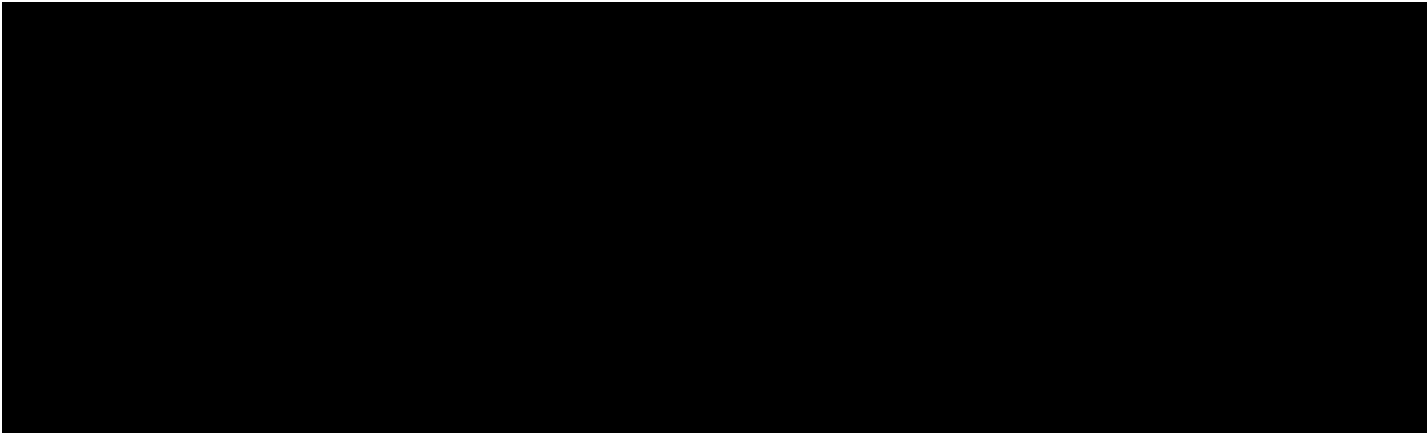
Source Name: LAP SIDING COATING OPERATIONS

Source Capacity/Throughput:



### I. RESTRICTIONS.

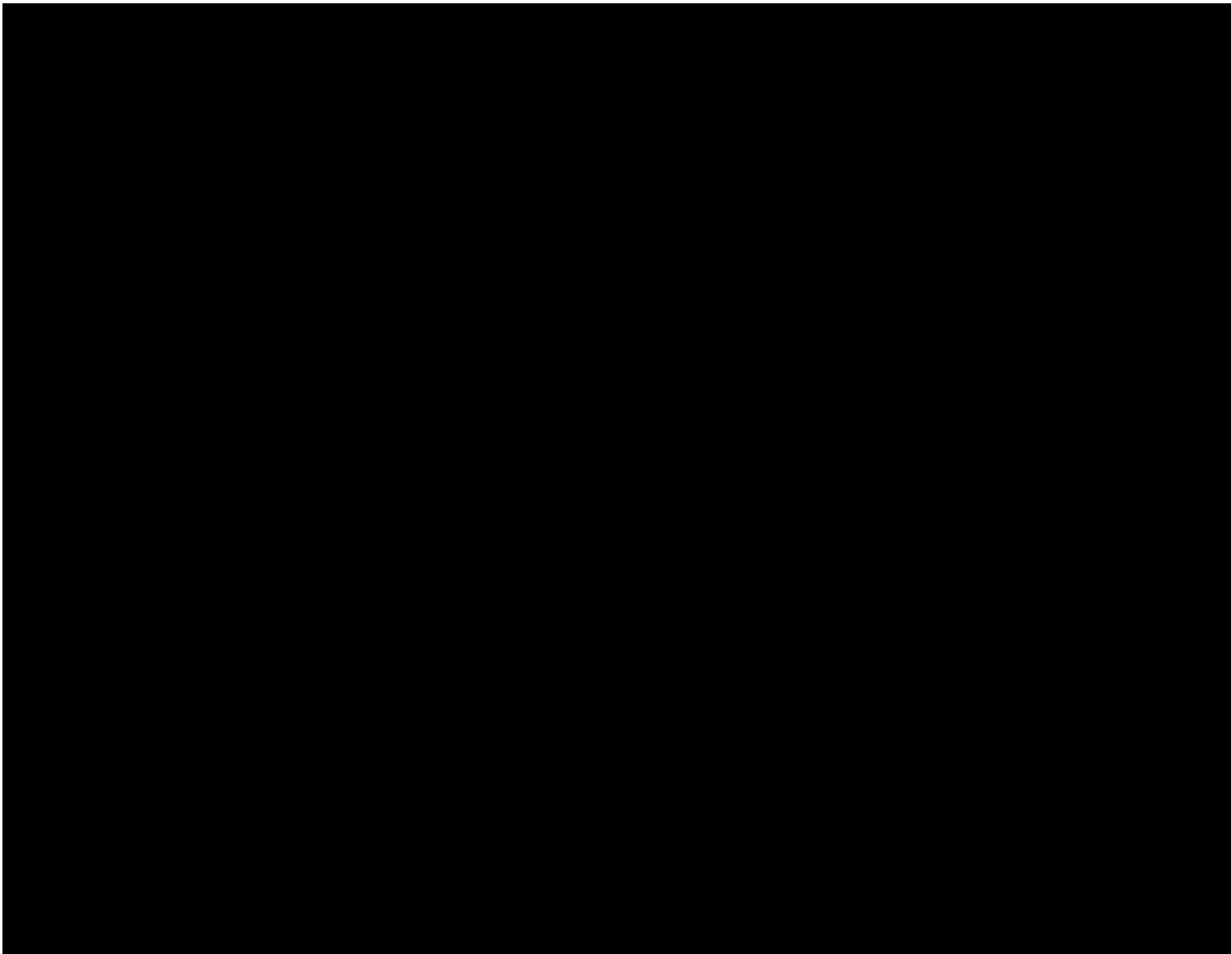
Emission Restriction(s).

**SECTION D. Source Level Requirements**

# 007

**Control of major sources of NOx and VOCs**

The nitrogen oxides (NOx, expressed as NO2) emissions resulting from the combustion of natural gas in the drying ovens incorporated in Source ID 189P shall not exceed 8.50 tons in any 12 consecutive month period.

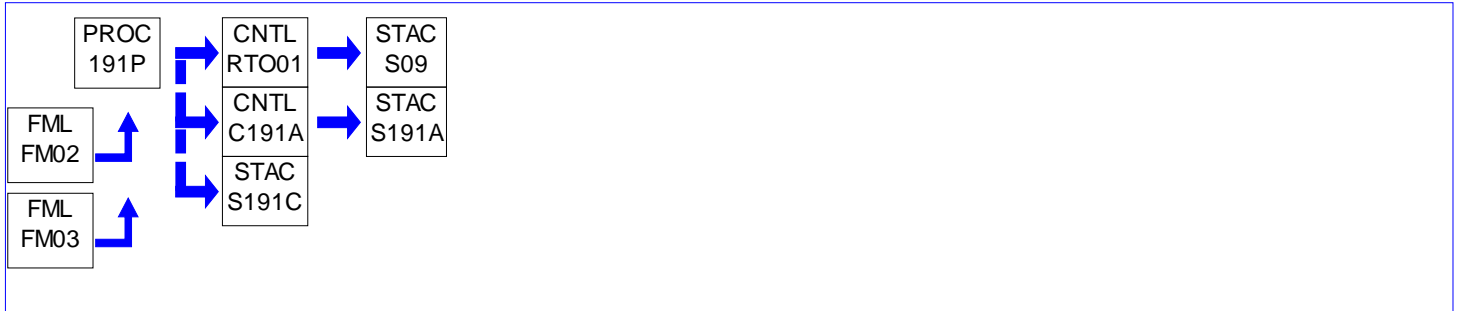


## SECTION D. Source Level Requirements

Source ID: 191P

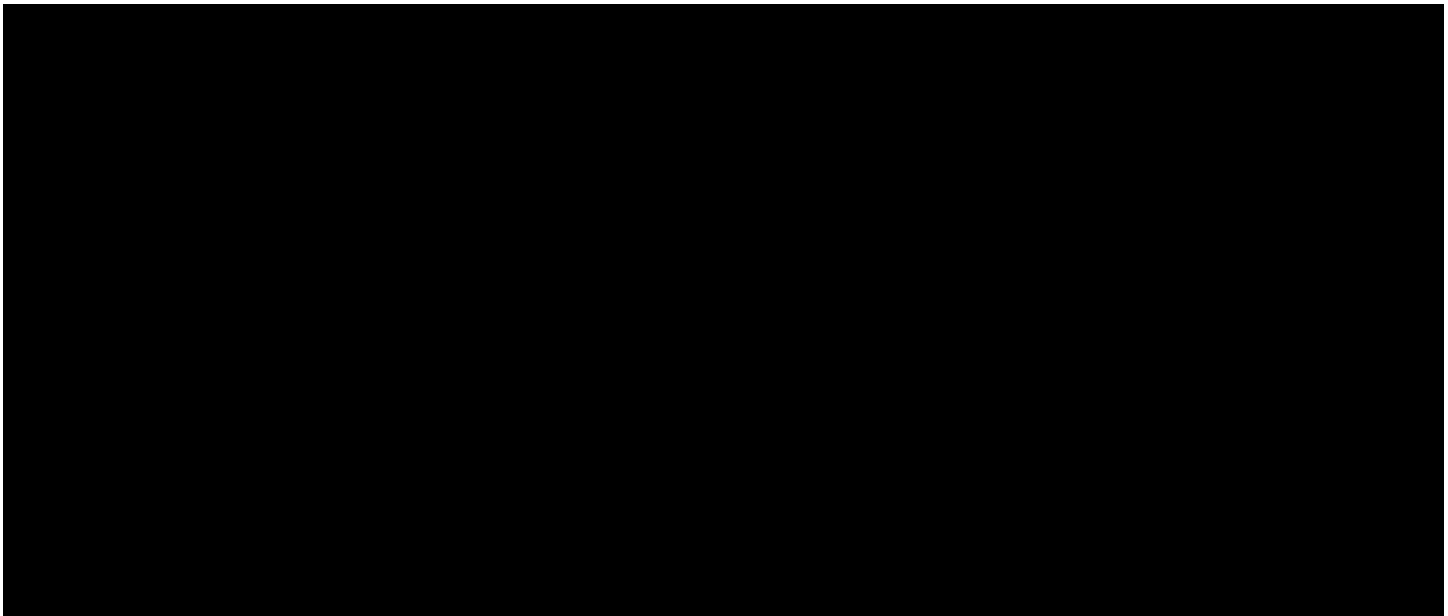
Source Name: LINE 1 TEMPERING

Source Capacity/Throughput:



### I. RESTRICTIONS.

#### Emission Restriction(s).



# 005

#### Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products What are the compliance options and operating requirements and how must I meet them?

The permittee shall either reduce the emission of total hazardous air pollutants, measured as total hydrocarbons (as carbon), contained in the effluent gas from Control Device IDs C141, C142, D42, D43, E41, E43, C171E, C172D, C184M, RTO01 and C193 by 90% or limit the concentration of total hazardous air pollutants, measured as total hydrocarbons (as carbon), to less than or equal to 20 ppmvd.

Compliance with this permit condition also ensures compliance with 25 Pa. Code Section 129.99(c).



### II. TESTING REQUIREMENTS.

# 007

#### Compliance demonstration and recordkeeping requirements.

(1) By no later than November 30, 2018, and by no later than every five years thereafter (November 30, 2023, November 30,

**SECTION D. Source Level Requirements**

2028, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing to determine either the reduction of total hydrocarbons (as carbon) across Control Device ID RTO01 or determine the concentration of total hydrocarbons (as carbon) contained in the effluent gas from Control Device ID RTO01. All testing shall be performed while the respective source is operating at its normal maximum rate of production.

(2) At least 60 days prior to the performance of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and to the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. The protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.

(3) At least 10 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

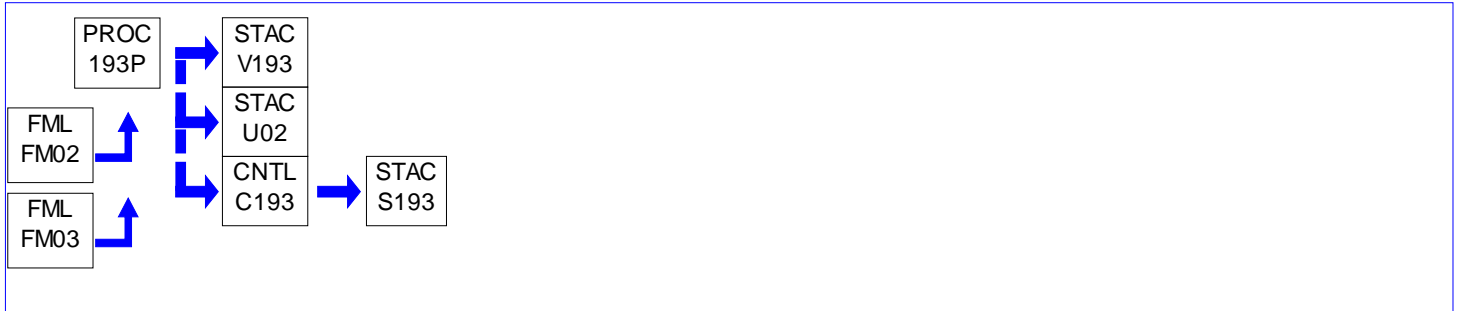


## SECTION D. Source Level Requirements

Source ID: 193P

Source Name: DIE FORM TEMPERING

Source Capacity/Throughput:



### I. RESTRICTIONS.

#### Emission Restriction(s).

# 005

#### Control of major sources of NOx and VOCs

The nitrogen oxides (NOx, expressed as NO2) emissions resulting from the combustion of natural gas in the kiln incorporated in Source ID 193P shall not exceed 2.30 tons in any 12 consecutive month period.

# 006

#### Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.

The total combined emission of volatile organic compounds from Source ID 193P and Control Device ID C193 shall not exceed 10.90 tons in any 12 consecutive month period (as propane by Method 25A).

Compliance with this condition also ensures compliance with 25 Pa. Code Section 129.91.

# 007

#### Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products What are the compliance options and operating requirements and how must I meet them?

The permittee shall either reduce the emission of total hazardous air pollutants, measured as total hydrocarbons (as

**SECTION D. Source Level Requirements**

carbon), contained in the effluent gas from Control Device IDs C141, C142, D42, D43, E41, E43, C171E, C172D, C184M, RTO01 and C193 by 90% or limit the concentration of total hazardous air pollutants, measured as total hydrocarbons (as carbon), to less than or equal to 20 ppmvd.

Compliance with this permit condition also ensures compliance with 25 Pa. Code Section 129.99(c).

**II. TESTING REQUIREMENTS.****# 010****Compliance demonstration and recordkeeping requirements.**

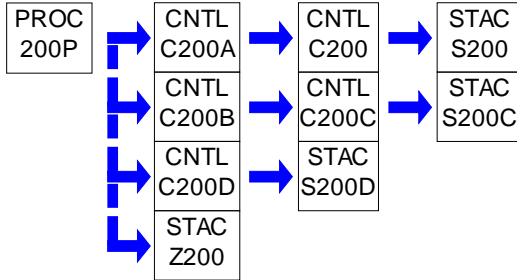
- (1) By no later than November 30, 2018, and by no later than every five years thereafter (November 30, 2023, November 30, 2028, etc.), but, in each case, not more than one year prior to the specified deadline, the permittee shall perform stack testing to determine either the reduction of total hydrocarbons (as carbon) across Control Device ID C193 or determine the concentration of total hydrocarbons (as carbon) contained in the effluent gas from Control Device ID C193. All testing shall be performed while the respective source is operating at its normal maximum rate of production.
- (2) At least 60 days prior to the performance of any testing required herein, the permittee shall submit a printed copy and an electronic copy in pdf format of a pretest protocol to the Northcentral Regional Air Program Manager (Department of Environmental Protection, 208 West Third Street, Suite 101, Williamsport, PA 17701) and to the Source Testing Section Program Manager (Division of Source Testing and Monitoring, Department of Environmental Protection, Rachel Carson State Office Building, 400 Market Street, Harrisburg, PA 17105) for review. The protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust system showing the locations of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the performance of testing.
- (3) At least 10 days prior to the performance of any testing required herein, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of any testing performed without proper notification having first been given.

## SECTION D. Source Level Requirements

Source ID: 200P

Source Name: WOODYARD

Source Capacity/Throughput:



### I. RESTRICTIONS.

#### Emission Restriction(s).

# 002

**Alternative RACT proposal and petition for alternative compliance schedule.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The volatile organic compound emissions from Source ID 200P shall not exceed 11.20 tons in any 12 consecutive month period.

**SECTION D. Source Level Requirements**

Source ID: 201P

Source Name: FIBER STORAGE PILE (MAS.ID A-10)

Source Capacity/Throughput:

PROC  
201PSTAC  
Z01**VII. ADDITIONAL REQUIREMENTS.**

# 002

**Control of major sources of NOx and VOCs**

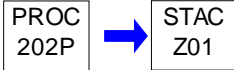
The schedule for complete removal of Source ID 201P (containing waste wood fiber) from the CraftMaster facility shall comply with the provisions of the Consent Order and Agreement entered into by CraftMaster with the Department's Waste Management Program.

**SECTION D. Source Level Requirements**

Source ID: 202P

Source Name: JET-A-MARK CODE PRINTERS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001

**Control of major sources of NOx and VOCs**

The volatile organic compound emissions from the five Jet-a-Mark printers shall not exceed 10.30 tons in any 12 consecutive month period.

**SECTION D. Source Level Requirements**

Source ID: 400P

Source Name: STORAGE TANKS (&gt;2000 GAL)

Source Capacity/Throughput:

PROC  
400PSTAC  
S400**I. RESTRICTIONS.****Emission Restriction(s).**

# 001

**Control of major sources of NOx and VOCs**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The volatile organic compound emissions from the resin storage tanks incorporated in Source ID 400P shall not exceed 2.20 tons in any 12 consecutive month period.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

# 007

**Control of major sources of NOx and VOCs**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

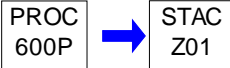
The resin storage tanks incorporated in Source ID 400P shall be equipped with pressure/vacuum relief valves.

**SECTION D. Source Level Requirements**

Source ID: 600P

Source Name: PROCESS WATER TREATMENT FACILITY &amp; SPRAY IRRIGATION FIELD

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001

**Alternative RACT proposal and petition for alternative compliance schedule.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The volatile organic compound emissions from Source ID 600P shall not exceed 6.80 tons in any 12 consecutive month period.

**III. MONITORING REQUIREMENTS.**

# 002

**Alternative RACT proposal and petition for alternative compliance schedule.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The permittee shall accurately measure the DOOR once each weekday (Monday through Friday). Measurement of the DOOR shall be performed immediately after taking the sample from the aeration basin to minimize temperature change in the sample.

**IV. RECORDKEEPING REQUIREMENTS.**

# 003

**Alternative RACT proposal and petition for alternative compliance schedule.**

The permittee shall maintain accurate and comprehensive records of the volatile organic compounds emitted each month from Source ID 600P and the aeration basin DOOR measured each operating day, as well as the dates and times of DOOR sampling and analysis. All records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**VI. WORK PRACTICE REQUIREMENTS.**

# 004

**Alternative RACT proposal and petition for alternative compliance schedule.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The dissolved oxygen uptake rate (DOOR) in the aeration basin shall be maintained at a minimum of 3.0 mg/L-hr.



**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

# 005

**Alternative RACT proposal and petition for alternative compliance schedule.**

Source ID 600P is a process water treatment plant (PWPT) which also includes a spray irrigation field and screw press venting.

