From:	Air.Pollution Control
To:	APC Permitting
Subject:	FW: [EXTERNAL] FW: Scan of Air Permit App
Date:	Thursday, July 28, 2022 10:30:31 AM
Attachments:	11-22-21 Permit App Submittal_scan.pdf
Importance:	High

From: Suresh Santanam <suresh@s-squareconsulting.com>
Sent: Thursday, July 28, 2022 8:38 AM
To: Doug S. Wright <Doug.S.Wright@tn.gov>
Cc: Air.Pollution Control <Air.Pollution.Control@tn.gov>; 'Sheldon Sillyman' <ssillyman@holliston.com>; 'Mike Amyx' <mamyx@holliston.com>
Subject: [EXTERNAL] FW: Scan of Air Permit App
Importance: High

Doug,

As we discussed yesterday, here is Holliston's Title V permit renewal application submitted (as hard copy) to the Technical Secretary via mail on Nov 22, 2021.

Please let me know once you receive this email.

Thanks,
Suresh …

Suresh Santanam, P.E.
Principal
S-Square Consulting, LLC
P.O. Box 463
Manlius, NY 13104

From: Sheldon Sillyman
Sent: Wednesday, July 27, 2022 12:20 PM
To: Suresh Santanam (suresh@s-squareconsulting.com) <suresh@s-squareconsulting.com>
Subject: FW: Scan of Air Permit App

Here is the 2nd copy of the Permit application.

HOLLISTON

Holliston LLC
905 Holliston Mills Rd.
Church Hill, TN. 37642
www.holliston.com

423-357-6141 *phone*
800-251-0251 *customer service*
423-357-3893 *int'l phone*
800-325-0351 *fax*

November 22, 2021

The Technical Secretary
Tennessee Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa R. Parks Avenue, 15th Floor
Nashville, TN 37243

RE: Title V Air Permit Renewal Application
Holliston Holdings LLC Facility, Church Hill, TN
Permit No. 568009, Source No. 37-0001

Dear Sir/Madam:

Holliston Holdings, LLC of Church Hill, TN submits the enclosed Title V air permit renewal application, as provided in the facility's current Title V permit. This application is prepared according to guidelines set forth by the Tennessee Division of Environment and Conservation and includes the required forms duly completed.

The facility is currently in compliance with applicable federal and state air regulatory requirements as provided in our Title V permit. The facility employs the "coating content" method to demonstrate compliance with the web coating MACT requirements; therefore, compliance assurance monitoring (CAM) is not applicable for our facility.

With this submittal, we kindly request timely consideration and renewal of Holliston Holdings LLC's Title V air permit. If you require any additional information, please contact Sheldon Sillyman at (423) 256-6021.

Sincerely,

Sheldon Sillyman
VP of Business Development
Holliston Holdings. LLC

Enclosures: as above

Cc: Mike Amyx, Environmental Coordinator/Holliston Holdings, LLC (w/Application Copy No. 1), hardcopy file
Suresh Santanam, S-Square Consulting, LLC (w/o attachments)

HOLLISTON

Title V Permit Renewal Application

SOURCE NUMBER: 37-0001

(Permit Number: 568009)

COPY NO. 1
(Holliston Hardcopy File)
November 2021

Holliston Holdings, LLC
905 Holliston Mills Road
Church Hill, Tennessee 37642

November 2021

Table of Contents

Title V Permit Renewal Application
Source No. 37-0001
Holliston Holdings, LLC
90-6 Holliston Mills Rd, Church Hill, TN

November 2021

Section I – Forms

All APC permit application forms and associated flow diagrams

Section II - Attachments

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
APPLICATION COMPLETENESS CHECK LIST

Note to Applicants: The Application Completeness Check List is required by Division Rule 1200-03-09-.02(11)(d)1(ii)(I) and is used by Division staff to determine whether or not an application is complete. This checklist will be used to resolve any dispute between the applicant and the Division regarding the completeness of an application.

Section 1: Identification and Diagrams (APC 1 and APC 2)		
Requirement	**Complete**	**Incomplete**
Site Information	☒	☐
Contact Information (Responsible Official)	☒	☐
Contact Information (Technical)	☒	☐
Contact Information (Billing)	☒	☐
Type of Permit Requested	☒	☐
Accidental Release Information	☒	☐
Nonattainment/Additional Control Area Designation	☒	☐
List of Valid Permits	☒	☐
List and description of process emission sources, fuel burning installations, and incinerators	☒	☐
Flow diagram attached?	☒	☐
List of Insignificant Activities	☒	☐
List of Storage Piles	☒	☐
List of States within 50 Miles	☒	☐

Section 2: Emission Source Description Forms		
Forms are complete as received:		☐
Forms are incomplete (one or more application forms not submitted)		☐
Forms are incomplete (missing information on the following application forms):	APC Form 3, Stack Identification	☐
	APC Form 4, Fuel Burning Non-Process Equipment	☐
	APC Form 5, Stationary Gas Turbines or Internal Combustion Engines	☐
	APC Form 6, Storage Tanks	☐
	APC Form 7, Incinerators	☐
	APC Form 8, Printing Operations	☐
	APC Form 9, Painting and Coating Operations	☐
	APC Form 10, Miscellaneous Processes	☐
	APC Form 33, Stage I and Stage II Vapor Recovery Equipment	☐
	APC Form 34, Open Burning	☐

Section 3: Air Pollution Control System Forms		
orms are complete as received:		☐
Forms are incomplete (one or more application forms not submitted)		☐
Forms are incomplete (missing information on the following application forms):	APC Form 11, Control Equipment - Miscellaneous	☐
	APC Form 13, Adsorbers	☐
	APC Form 14, Catalytic or Thermal Oxidation Equipment	☐
	APC Form 15, Cyclones/Settling Chambers	☐
	APC Form 17, Wet Collection Systems	☐
	APC Form 18, Baghouse/Fabric Filters	☐
Section 4: Compliance Demonstration Forms		
Forms are complete as received:		☐
Forms are incomplete (one or more application forms not submitted)		☐
Forms are incomplete (missing information on the following application forms):	APC Form 19, Compliance Certification - Monitoring and Reporting - Description of Methods for Determining Compliance	☐
	APC Form 20, Continuous Emissions Monitoring	☐
	APC Form 21, Portable Monitors	☐
	APC Form 22, Control System Parameters or Operating Parameters of a Process	☐
	APC Form 23, Monitoring Maintenance Procedures	☐
	APC Form 24, Stack Testing	☐
	APC Form 25, Fuel Sampling and Analysis	☐
	APC Form 26, Recordkeeping	☐
	APC Form 27, Other Methods	☐
	APC Form 28, Emissions from Process Emissions Sources / Fuel Burning Installations / Incinerators	☐
	APC Form 29, Emissions Summary for the Facility or for the Source Contained in This Application	☐
	APC Form 30, Current Emissions Requirements and Status	☐
	APC Form 32, Air Monitoring Network	☐

Section 5: Statement of Completeness and Certification of Compliance

Requirement	Complete	Incomplete	Not Applicable
Certification of Truth, Accuracy, and Completeness (Form APC 1, Section 5)	☒	☐	☐
General Identification and Description (Form APC 31, Items 1 and 2)	☒	☐	☐
Compliance Certification for Sources Currently in Compliance (Form APC 31, Item 3A)	☒	☐	☐
Compliance Certification for New Applicable Requirements (Form APC 31, Item 3B)	☒	☐	☐
Identification of Sources Currently Not in Compliance (Form APC 31, Item 4A)	☐	☐	☒
Compliance Schedule for Sources Currently Not in Compliance (Form APC 31, Item 4B)	☐	☐	☒
Compliance Certification for Enhanced Monitoring (Form APC 31, Item 5)	☐	☐	☒

Section 6: Miscellaneous Information		
Item	**Included**	**Not Included**
For Title V modifications, is a description of the modification included?	☐	☒
Request for Permit Shield	☐	☐
Calculations on which emissions-related information are based	☒	☐
Identification of alternative operating scenarios, as applicable	☐	☒
Explanation of any proposed exemptions from otherwise applicable requirements	☐	☒
Other information needed for completeness (explain in comments)	☒	☐

Section 7: Comments

Describe any missing information below or in a separate attachment:

* Facility site and stack location drawings are included with this application

Section 8: Application Completeness	
Application is Complete	☒
Application is Incomplete	☐

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
INDEX OF AIR POLLUTION PERMIT APPLICATION FORMS

Section 1: Identification and Diagrams		
This application contains the following forms	APC Form 1, Facility Identification	1
	APC Form 2, Operations and Flow Diagrams	22

Section 2: Emission Source Description Forms		
		Total number of this form
This application contains the following forms (one form for each incinerator, printing operation, fuel burning installation, etc.):	APC Form 3, Stack Identification	39
	APC Form 4, Fuel Burning Non-Process Equipment	2
	APC Form 5, Stationary Gas Turbines or Internal Combustion Engines	N/A
	APC Form 6, Storage Tanks	10
	APC Form 7, Incinerators	N/A
	APC Form 8, Printing Operations	1
	APC Form 9, Painting and Coating Operations	7
	APC Form 10, Miscellaneous Processes	1
	APC Form 33, Stage I and Stage II Vapor Recovery Equipment	N/A
	APC Form 34, Open Burning	N/A

Section 3: Air Pollution Control System Forms		
		Total number of this form
This application contains the following forms (one form for each control system in use at the facility)	APC Form 11, Control Equipment - Miscellaneous	N/A
	APC Form 13, Adsorbers	N/A
	APC Form 14, Catalytic or Thermal Oxidation Equipment	N/A
	APC Form 15, Cyclones/Settling Chambers	1
	APC Form 17, Wet Collection Systems	N/A
	APC Form 18, Baghouse/Fabric Filters	N/A

(OVER)

Section 4: Compliance Demonstration Forms

		Total number of this form
This application contains the following forms (one form for each incinerator, printing operation, fuel burning installation, etc.).	APC Form 19, Compliance Certification - Monitoring and Reporting - Description of Methods for Determining Compliance	5
	APC Form 20, Continuous Emissions Monitoring	N/A
	APC Form 21, Portable Monitors	N/A
	APC Form 22, Control System Parameters or Operating Parameters of a Process	N/A
	APC Form 23, Monitoring Maintenance Procedures	1
	APC Form 24, Stack Testing	N/A
	APC Form 25, Fuel Sampling and Analysis	2
	APC Form 26, Record Keeping	4
	APC Form 27, Other Methods	N/A
	APC Form 28, Emissions from Process Emissions Sources / Fuel Burning Installations / Incinerators	5
	APC Form 29, Emissions Summary for the Facility or for the Source Contained in This Application	1
	APC Form 30, Current Emissions Requirements and Status	5
	APC Form 31, Compliance Plan and Compliance Certification	1
	APC Form 32, Air Monitoring Network	N/A

Section 5: Statement of Completeness and Certification of Compliance

I have reviewed this application in its entirety and to the best of my knowledge, and based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete. I have provided all the information that is necessary for compliance purposes and this application consists of 151** pages and they are numbered from page APC 1 to APC 34. The status of this facility's compliance with all applicable air pollution control requirements, including the enhanced monitoring and compliance certification requirements of the Federal Clean Air Act, is reported in this application along with the methods to be used for compliance demonstration.

** PLUS 19 ATTACHMENT PAGES AND 3 ENGINEERING DRAWINGS

Name and Title of Responsible Official	Telephone Number with Area Code
Sheldon Sillyman, VP of Business Development	(423) 357-6141 x-2921

Signature of Responsible Official

Sheldon Sillyman

Date of Application

11/22/21

(For definition of responsible official, see instructions for APC Form 1)

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
FACILITY IDENTIFICATION

SITE INFORMATION			
1. Organization's legal name: Holliston Holdings, LLC			For APC Use Only: APC company point no.
2. Site name (if different from legal name)			APC Log/Permit no.
3. Site address (St./Rd./Hwy.): 905 Holliston Mills Rd			NAICS or SIC Code: NAICS - 313320 ; SIC - 2295
City or distance to nearest town: Church Hill		Zip code: 37642	County name: Hawkins
4. Site location (in Lat./Long)	Latitude: 36.513829		Longitude: -82.757476

CONTACT INFORMATION (RESPONSIBLE OFFICIAL)			
5. Responsible official contact: Sheldon Sillyman			Phone number with area code: (423) 357-6141 x-2921
6. Mailing address (St./Rd./Hwy.): 905 Holliston Mills Rd			Fax number with area code: (423) 357-8840
City: Church Hill	State: TN	Zip code: 37642	Email address: ssillyman@holliston.com

CONTACT INFORMATION (TECHNICAL)			
7. Principal technical contact: Mike Amyx			Phone number with area code: (423) 341-7996
8. Mailing address (St./Rd./Hwy.): 905 Holliston Mills Rd			Fax number with area code: (423) 357-8840
City: Church Hill	State: TN	Zip code: 37642	Email address: mamyx@holliston.com

CONTACT INFORMATION (BILLING)			
11. Billing contact: Sheldon Sillyman			Phone number with area code: (423) 357-6141 x-2921
12. Mailing address (St./Rd./Hwy.): 905 Holliston Mills Rd			Fax number with area code: (423) 357-8840
City: Church Hill	State: TN	Zip code: 37642	Email address: ssillyman@holliston.com

TYPE OF PERMIT REQUESTED

13. Permit requested for:

Initial application to operate:		Minor permit modification:	
Permit renewal to operate:	✓	Significant modification:	
Administrative permit amendment:		Construction permit:	

(OVER)

HAZARDOUS AIR POLLUTANTS, DESIGNATIONS, AND OTHER PERMITS ASSOCIATED WITH FACILITY

14. Is this facility subject to the provisions governing prevention of accidental releases of hazardous air contaminants contained in Chapter 1200-03-32 of the Tennessee Air Pollution Control regulations? ☐ Yes ☑ No

If the answer is Yes, are you in compliance with the provisions of Chapter 1200-03-32 of the Tennessee Air Pollution Control regulations? ☐ Yes ☐ No

15. If facility is located in an area designated as "Non-Attainment" or "Additional Control", indicate the pollutant(s) for the designation.

Not applicable

16. List all valid Air Pollution permits issued to the sources contained in this application [identify all permits with most recent permit numbers and emission source reference numbers listed on the permit(s)].

Permit No.	Source Description	Emissions Source No.
559975	Steam Generating Boiler Installation	Source #02
559975	Waste paper Trim System with Cyclone Control	Source #04
559975	Coating Operation with Drying Ovens	Source #10
559975	29.41 MM Btu/hr Boiler	Source #12
559975	Eight (8) each, 0.8 MM Btu/hr. Tenter Drying Ovens	Source #16

17 Page number: page 2 of 4 | Revision number: 1 | Date of revision: November 23, 2021

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
OPERATIONS AND FLOW DIAGRAMS

1. Please list, identify, and describe briefly process emission sources, fuel burning installations, and incinerators that are contained in this application. Please attach a flow diagram for this application.

Source Reference No.	Source Description
37-0001-02	39 MM Btu/hr Springfield Boiler
37-0001-04	Waste Paper Trim System with Cyclone Control
37-0001-10	Coating Operations with Drying Ovens
37-0001-12	29.41 MM Btu/hr York-Shipley Boiler
37-0001-16	Eight (8) each, 0.8 MM Btu/hr Tenter Drying Ovens

2. List all insignificant activities which are exempted because of size or production rate and cite the applicable regulations.

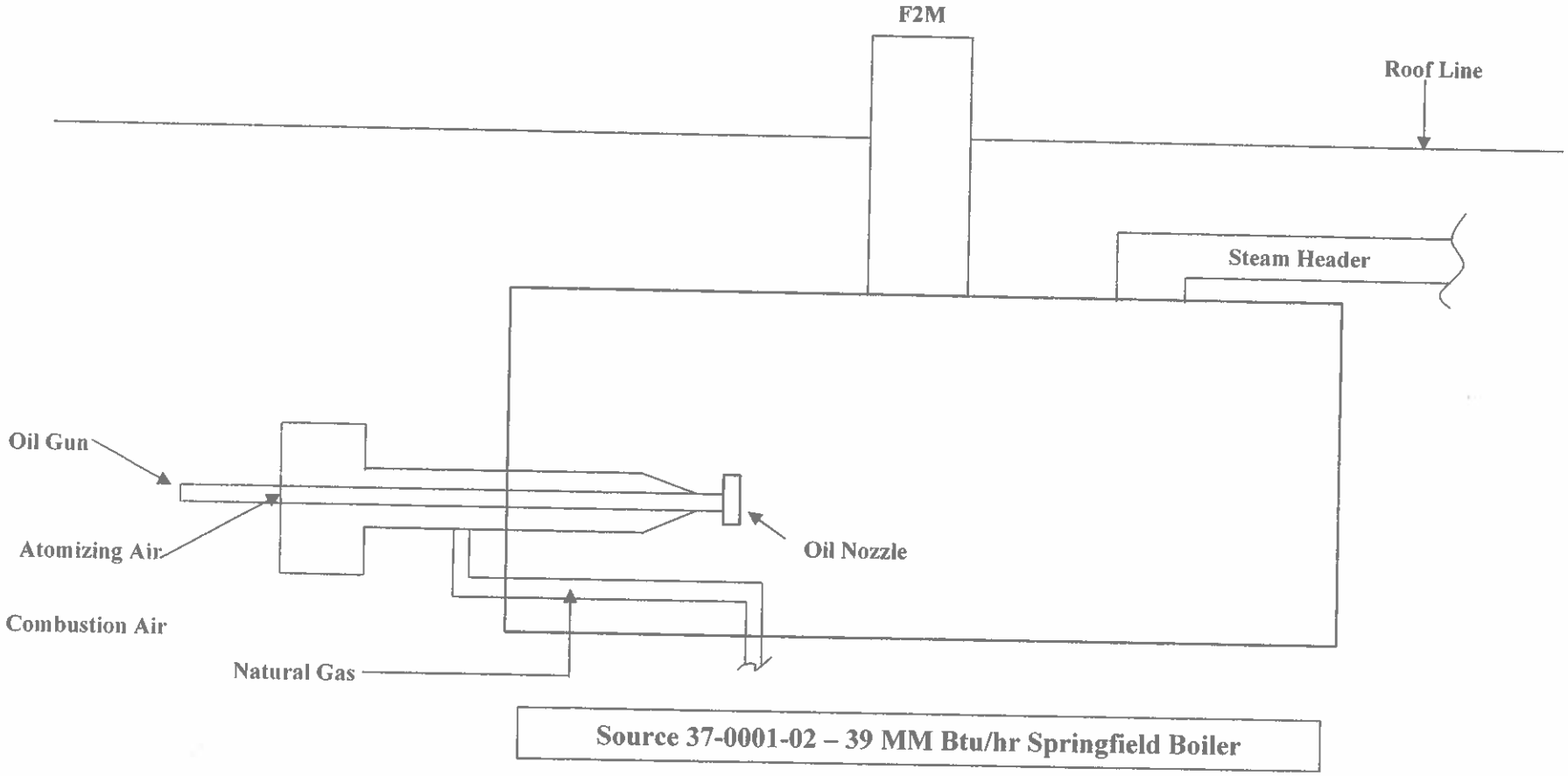
See Attachment 1 to APC 1

3. Are there any storage piles?

YES _____ NO X

4. List the states that are within 50 miles of your facility.

1) Virginia 2) Kentucky 3) North Carolina



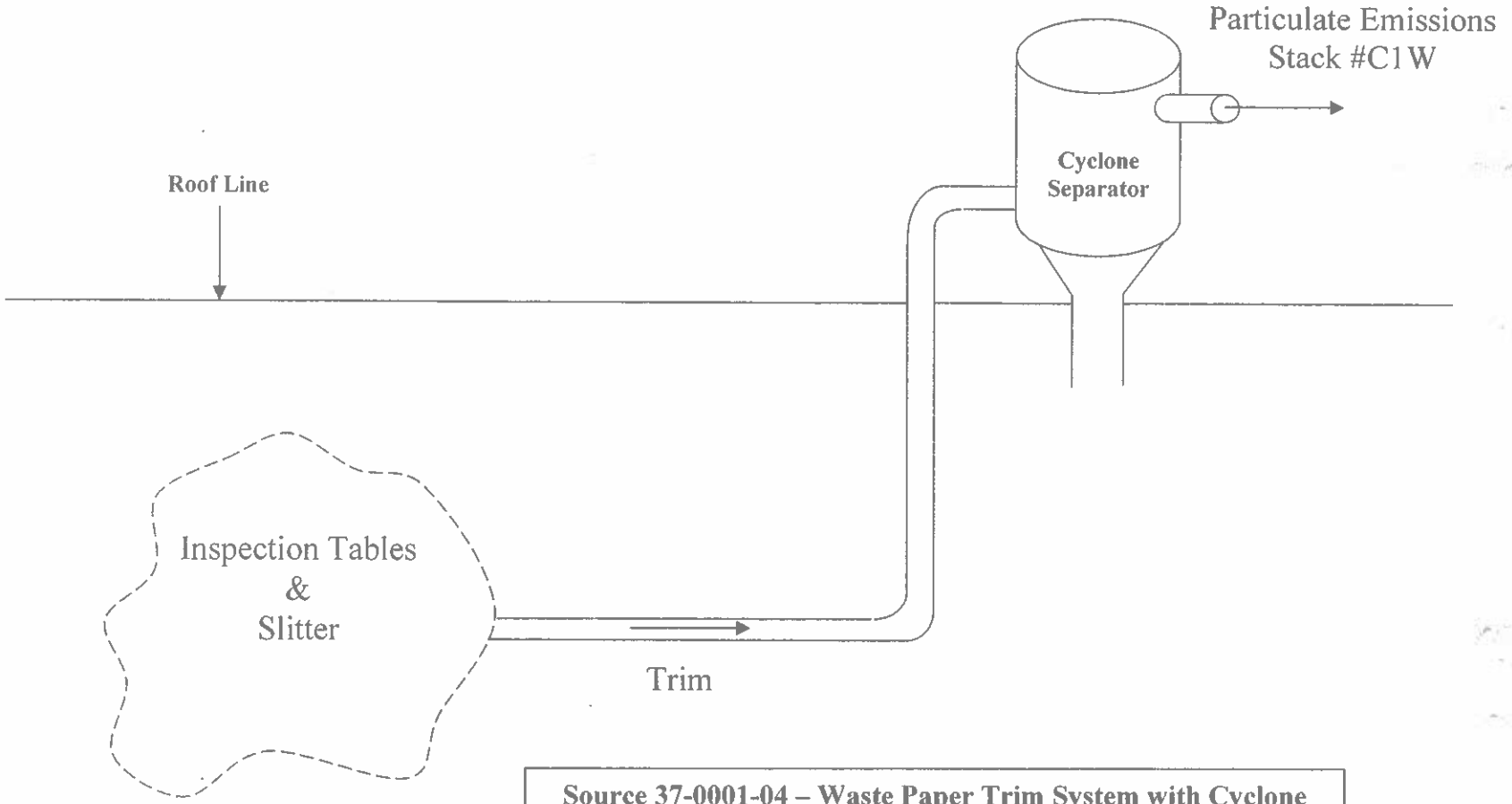
Flow Diagram Point Identification

Operations and Flow Diagram

Revision 1

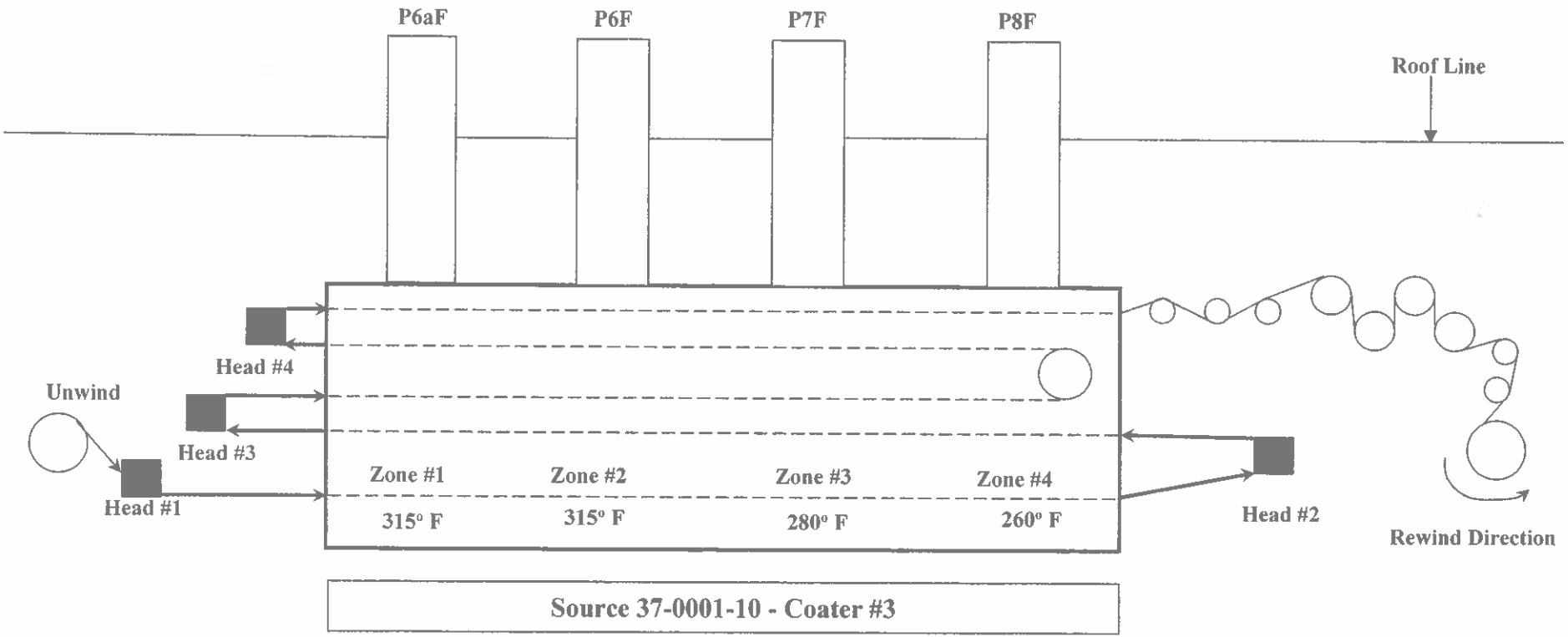
Date: November 23, 2021

APC 2.1.a



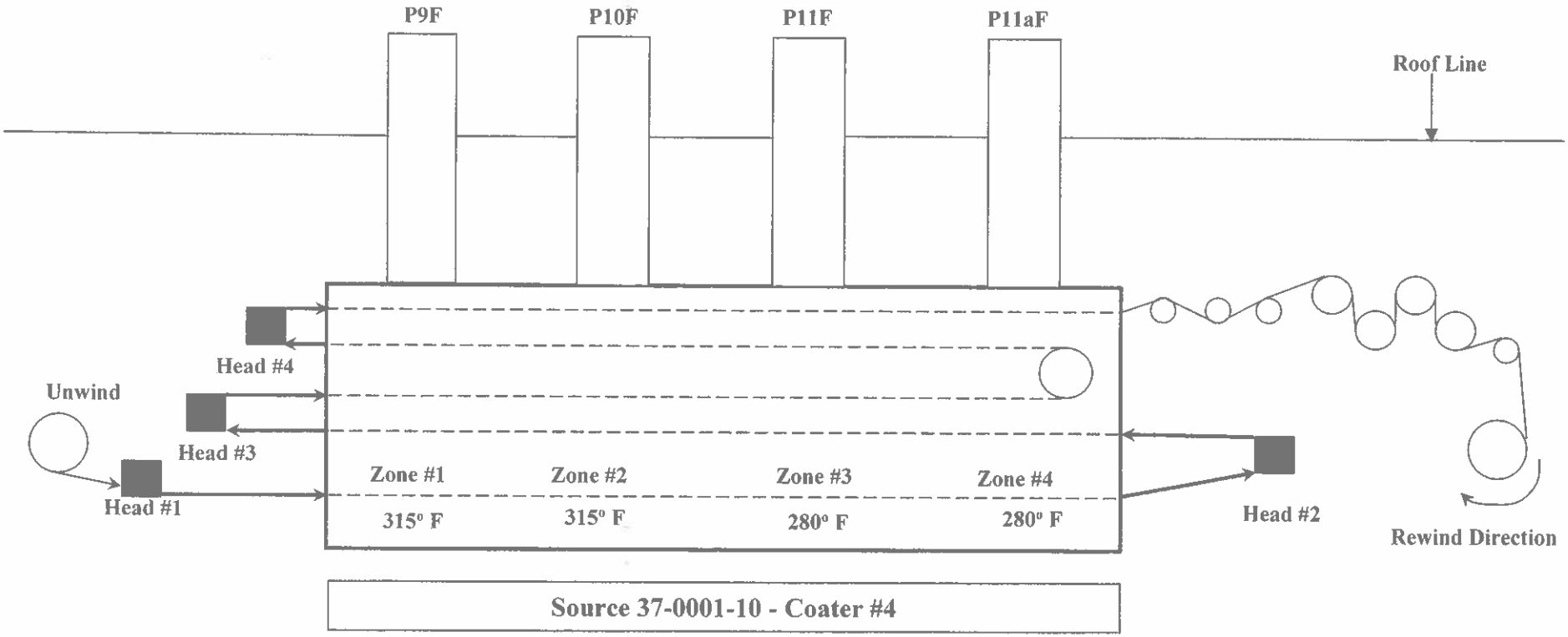
Source 37-0001-04 – Waste Paper Trim System with Cyclone Control

Flow Diagram Point Identification



Head #1 – Blade (2), Meyer Rod
Head #2 – Blade (3), Meyer Rod
Head #3 – Blade (3)
Head #4 – Blade (3), Meyer Rod

Flow Diagram Point Identification

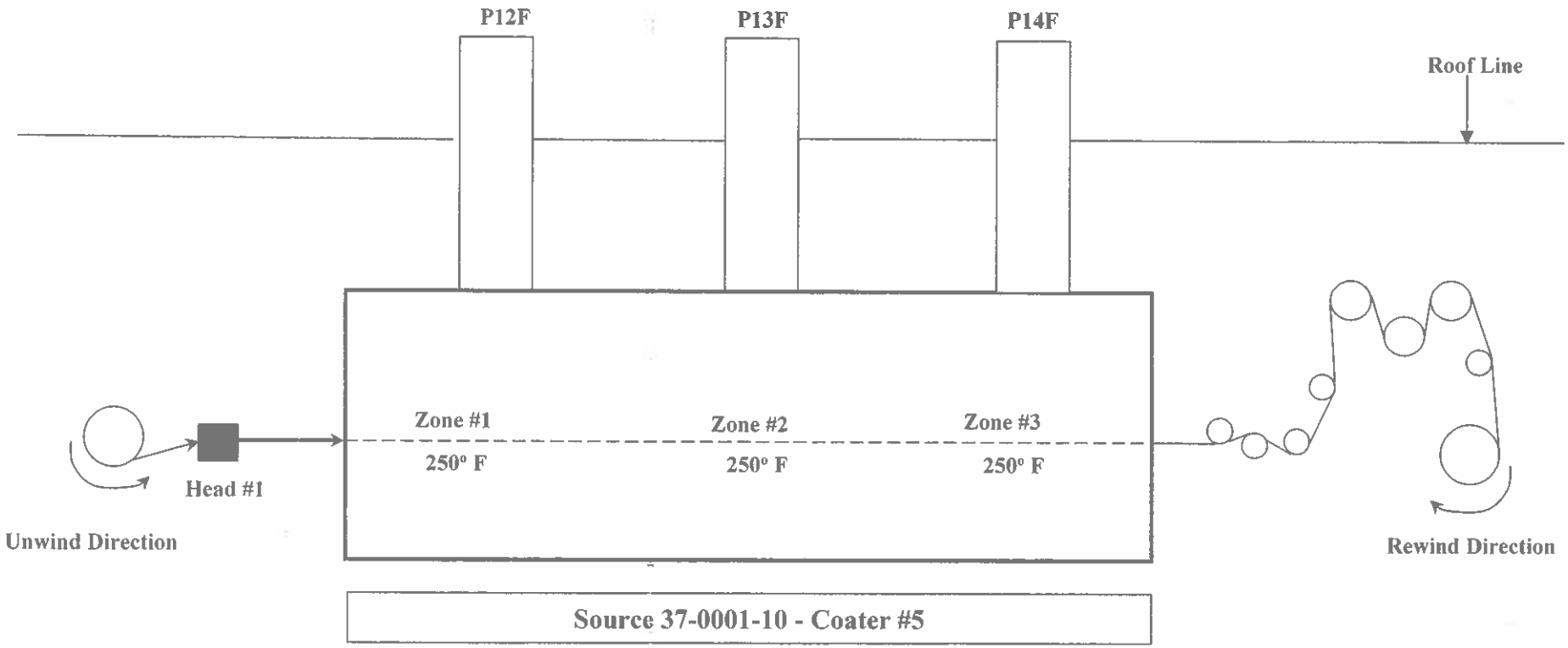


Head #1 – Blade (2), Meyer Rod
Head #2 – Blade (2)
Head #3 – Blade (3), Meyer Rod
Head #4 – Blade (2), Meyer Rod

Flow Diagram Point Identification

Operations and Flow Diagram | Revision 1 | Date: November 23, 2021

APC 2.1.d

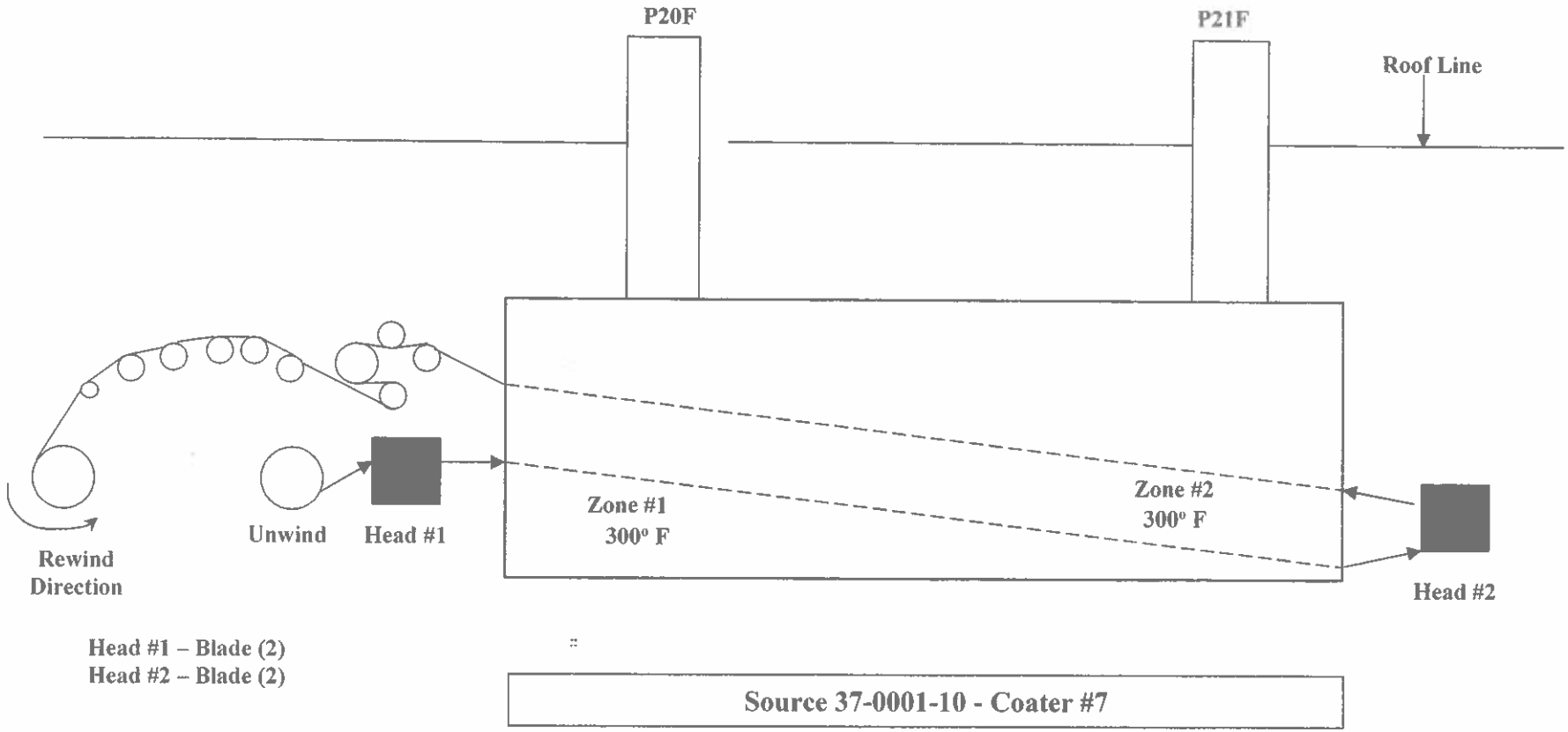


Head #1 – Blade (1)

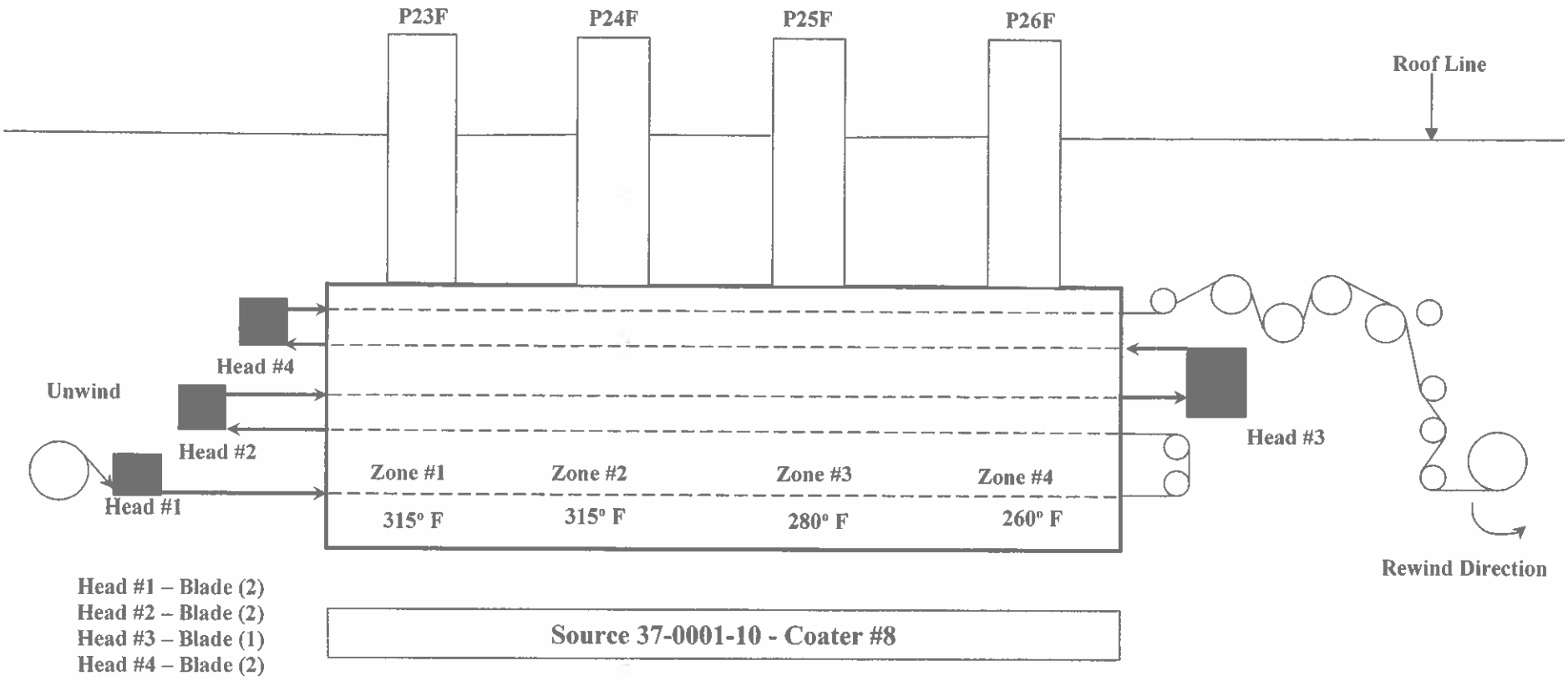
Flow Diagram Point Identification

Operations and Flow Diagram | Revision 1 | Date: November 23, 2021

APC 2.1.e



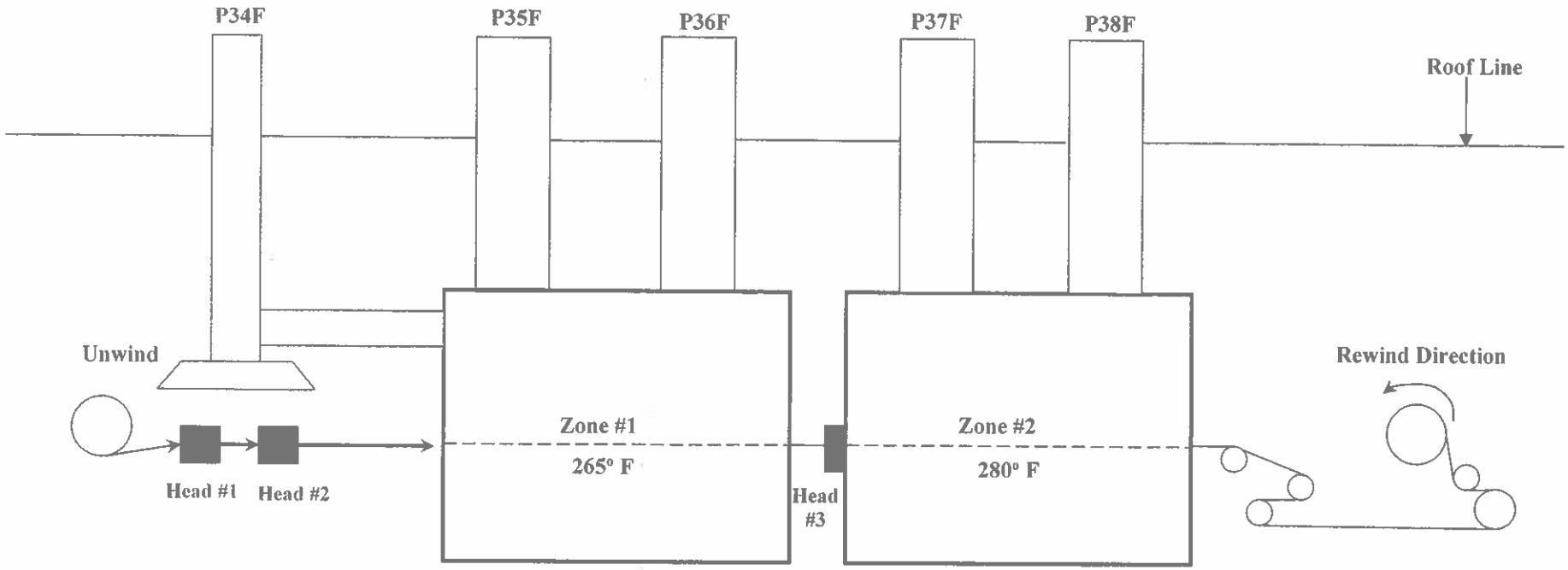
Flow Diagram Point Identification



Flow Diagram Point Identification

Operations and Flow Diagram | **Revision 1** | **Date:** November 23, 2021

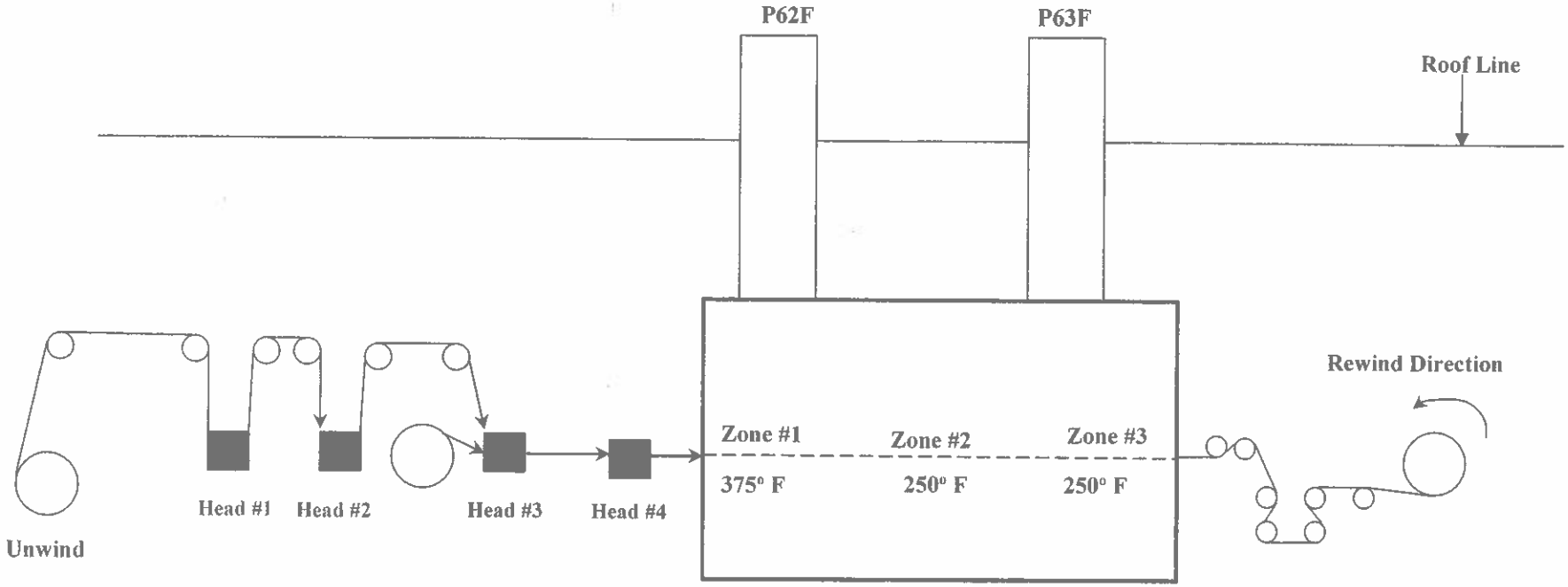
APC 2.1.g



Head #1 – Meyer Rod
Head #2 – Roller Coat
Head #3 – Gravure Roll

Source 37-0001-10 - Coater #11

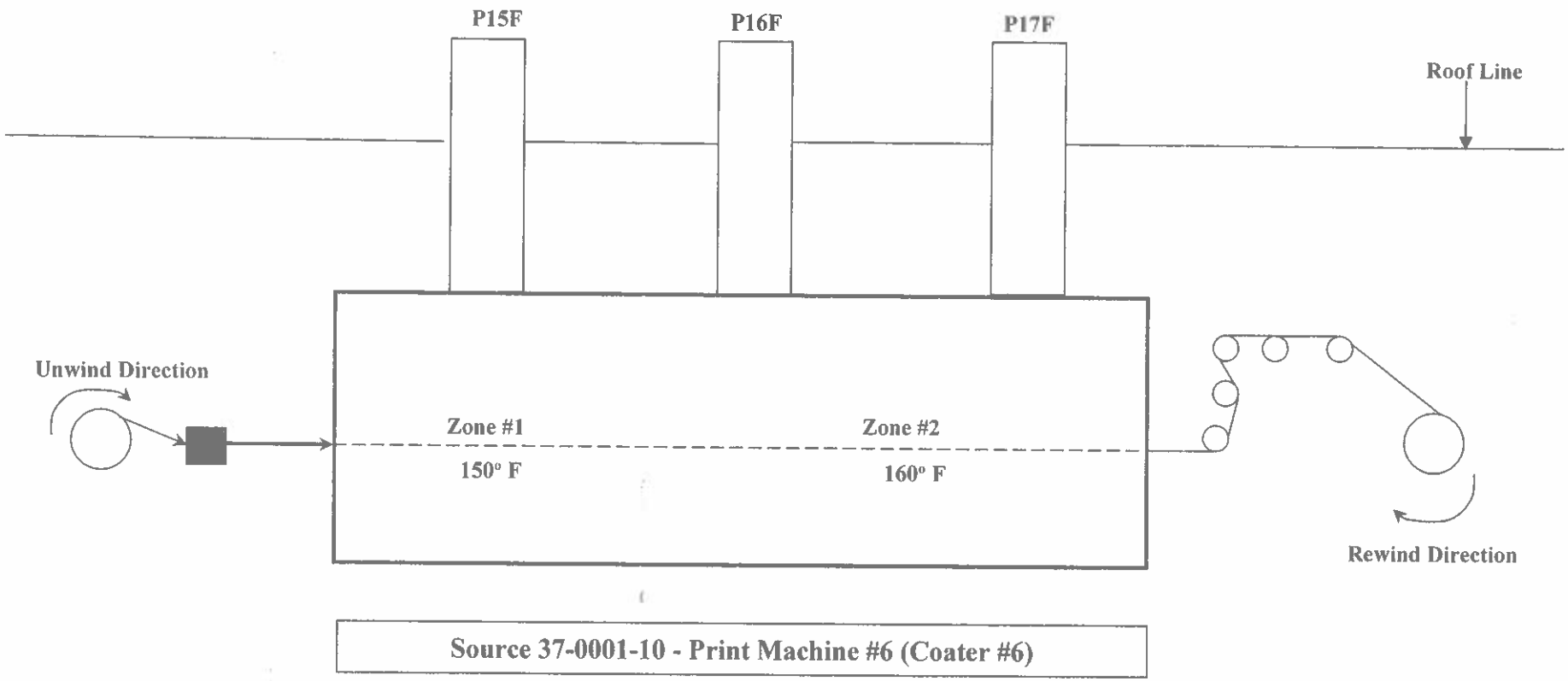
Flow Diagram Point Identification



Head #1 – Tommy Dodd
Head #2 – Mangle Pad
Head #3 – Blade (2)
Head #4 – Blade (1)

Source 37-0001-10 - Coater #15

Flow Diagram Point Identification



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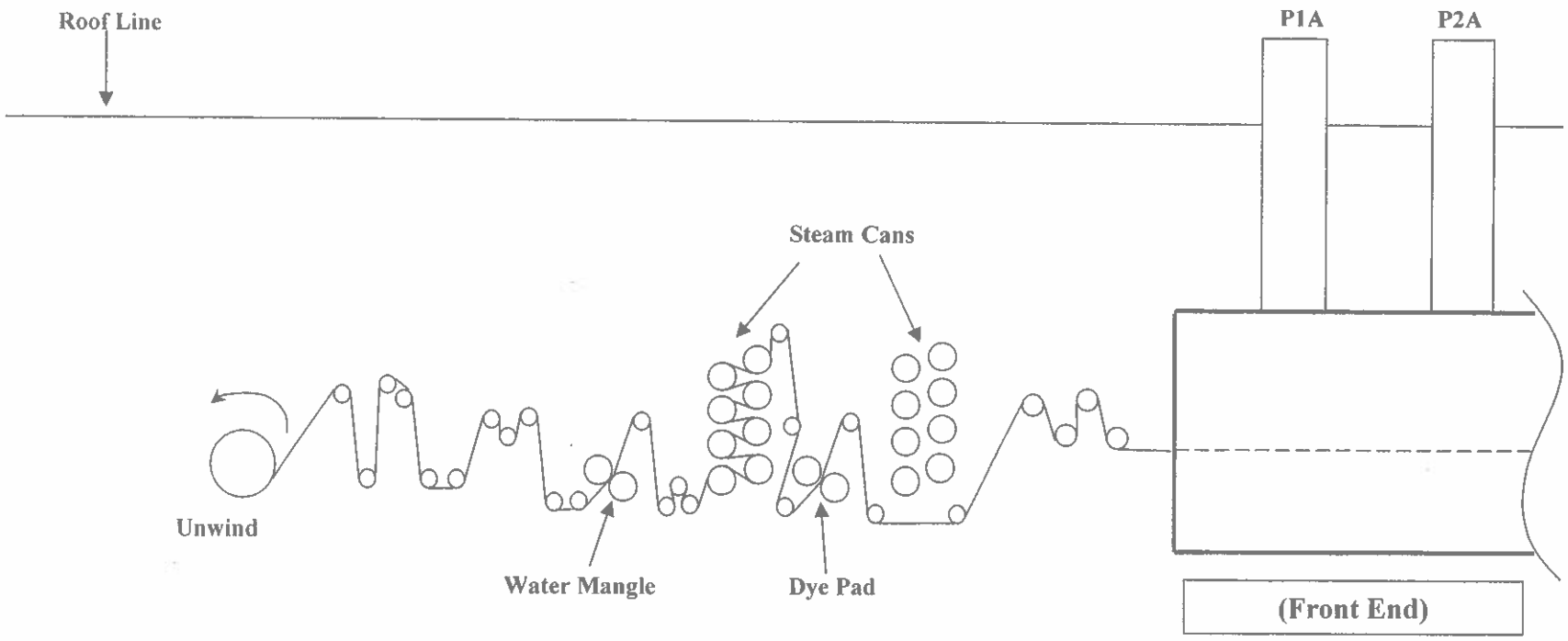
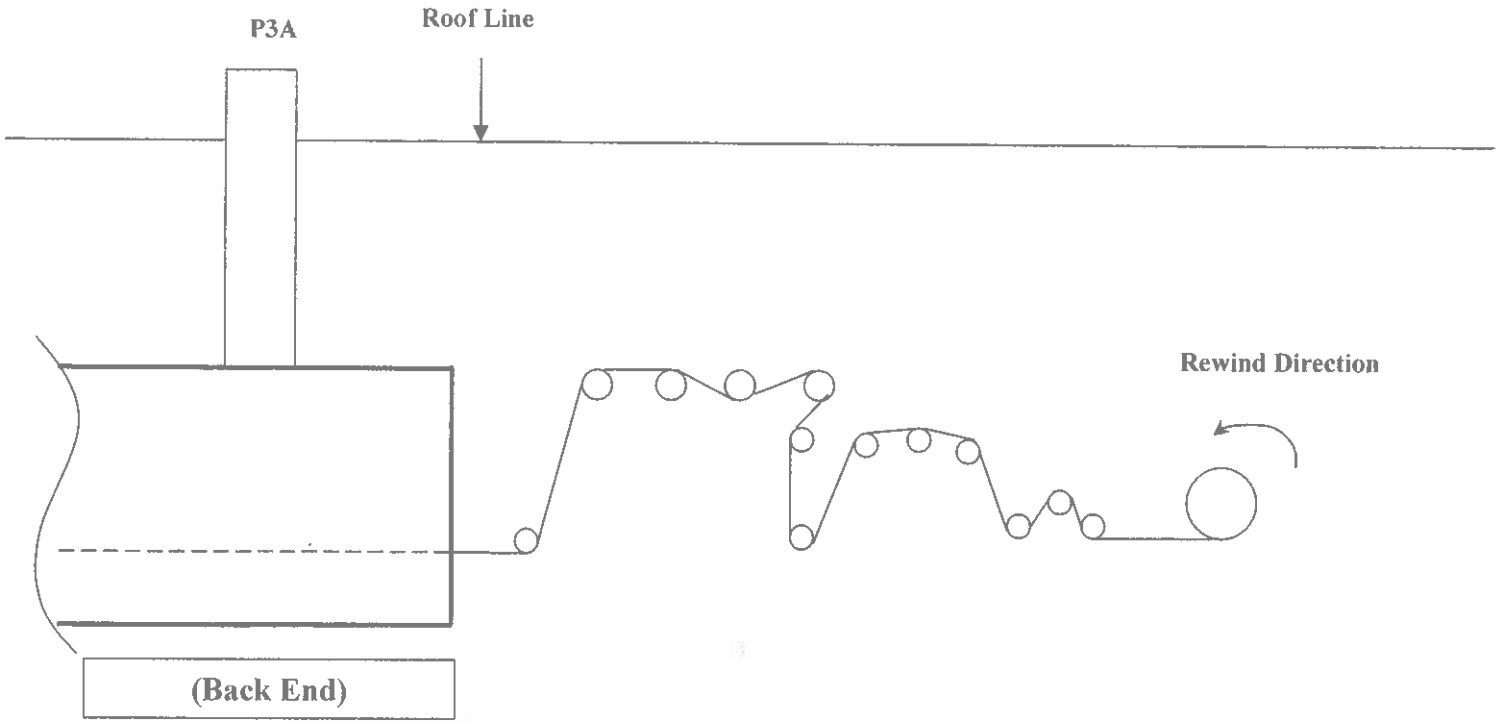


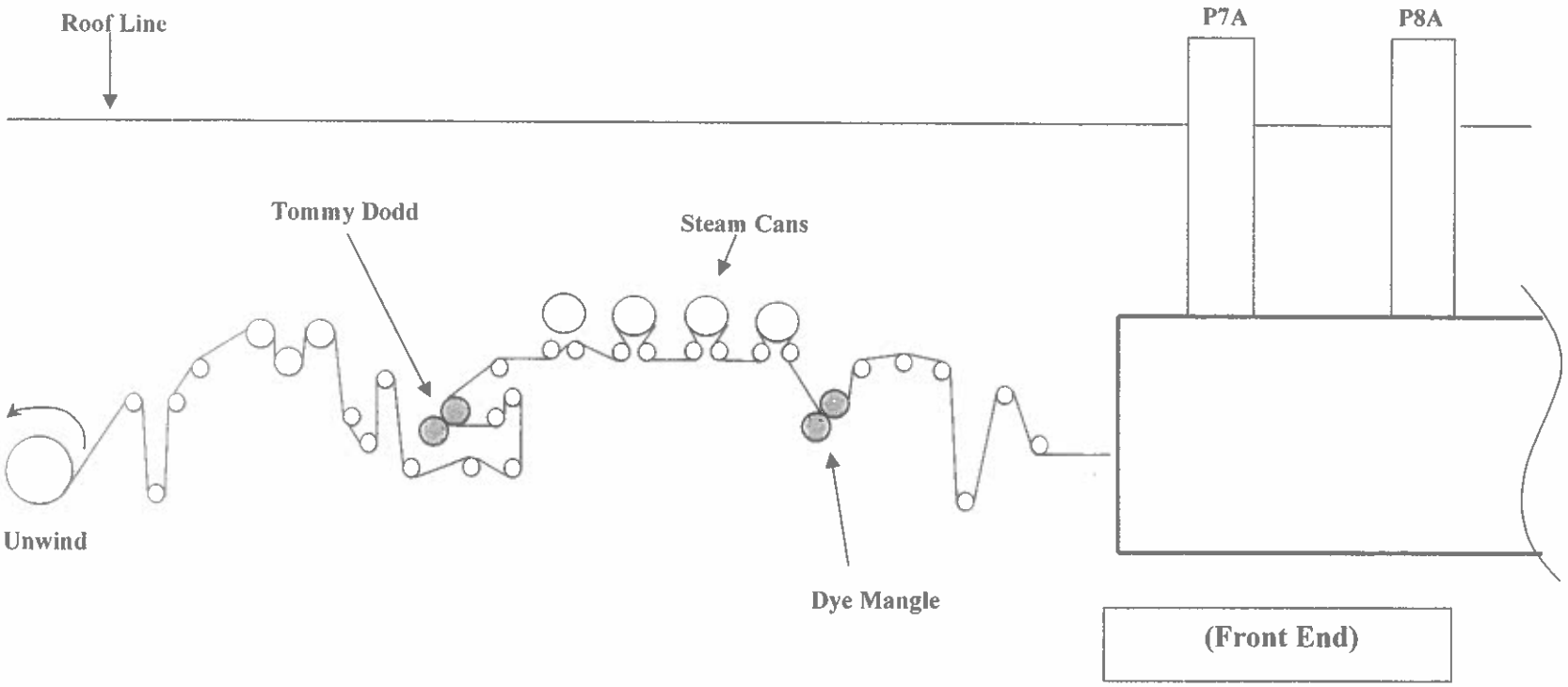
Source 37-0001-10 – Tenter #1

Flow Diagram Point Identification



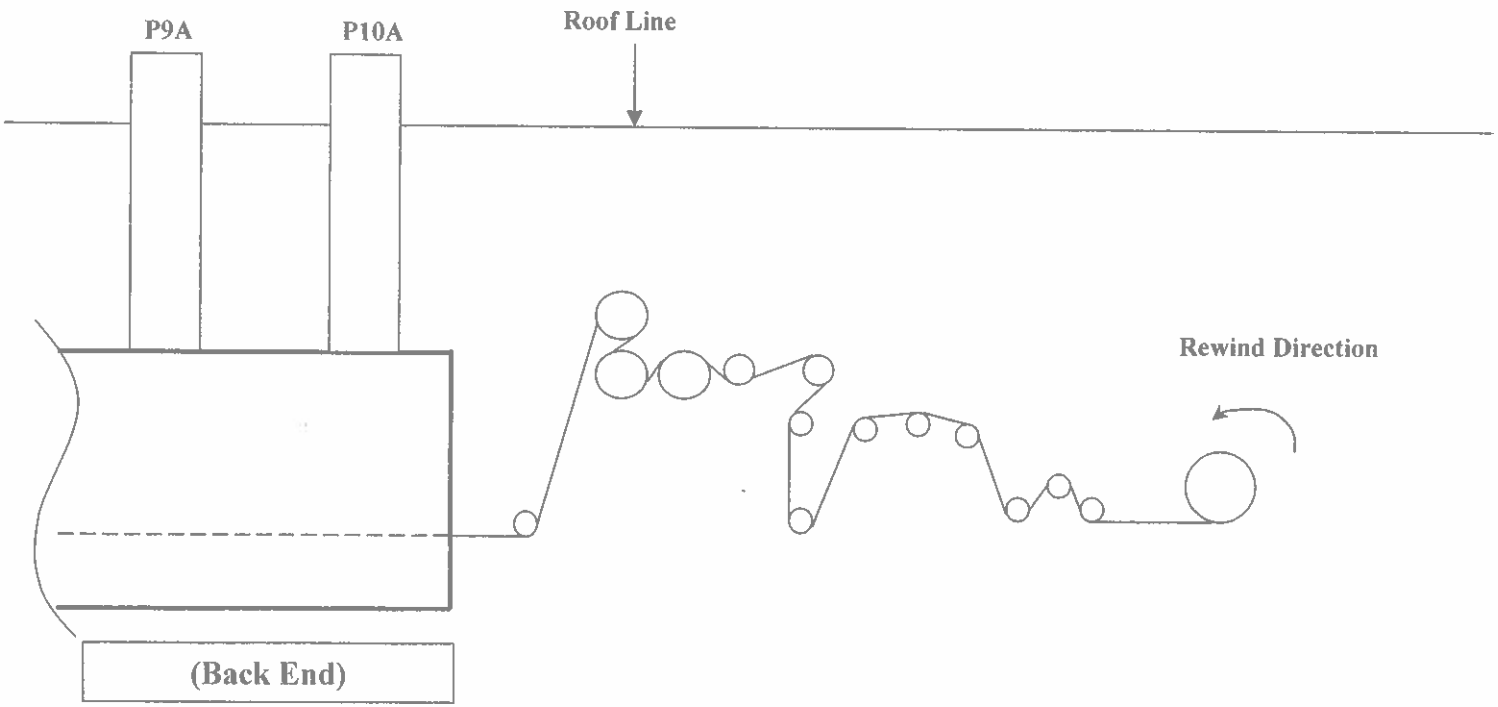
Source 37-0001-10 – Tenter #1

Flow Diagram Point Identification



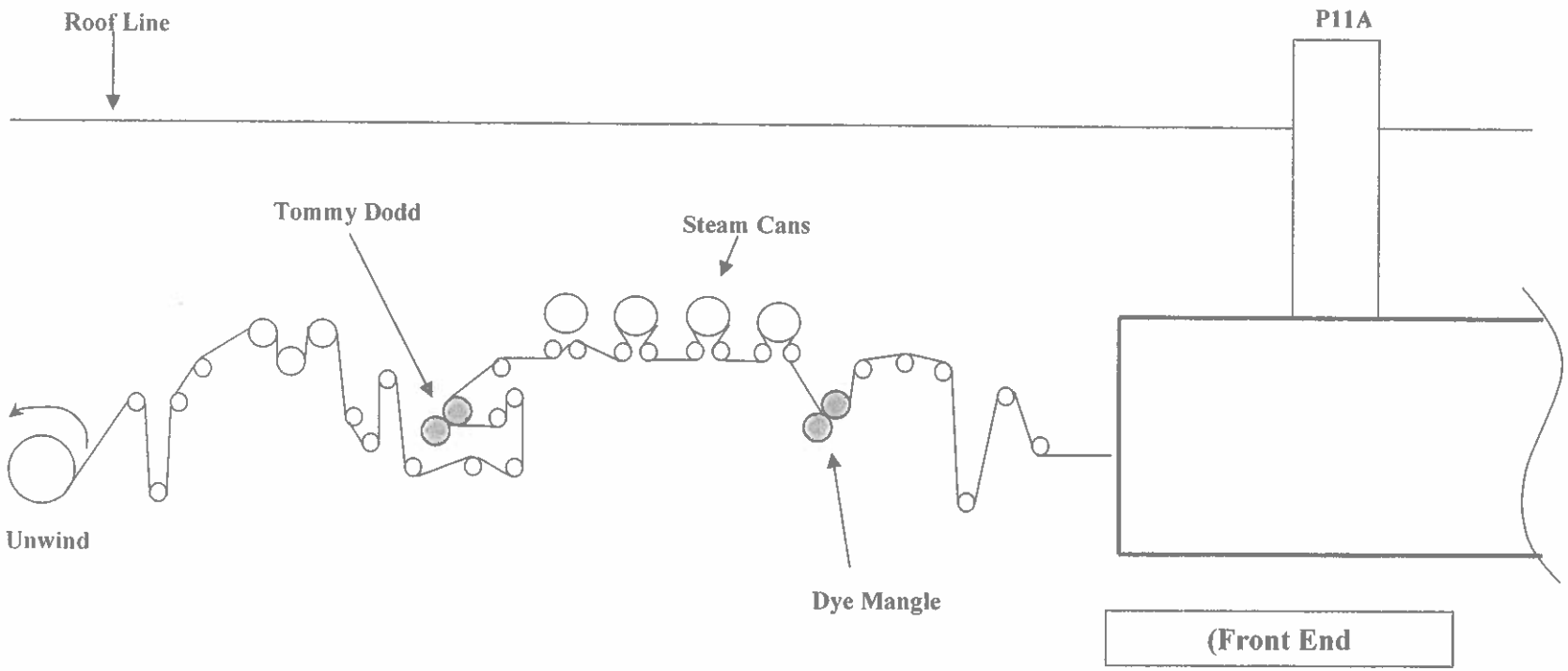
Source 37-0001-10 – Range #3 (Tenter #3)

Flow Diagram Point Identification



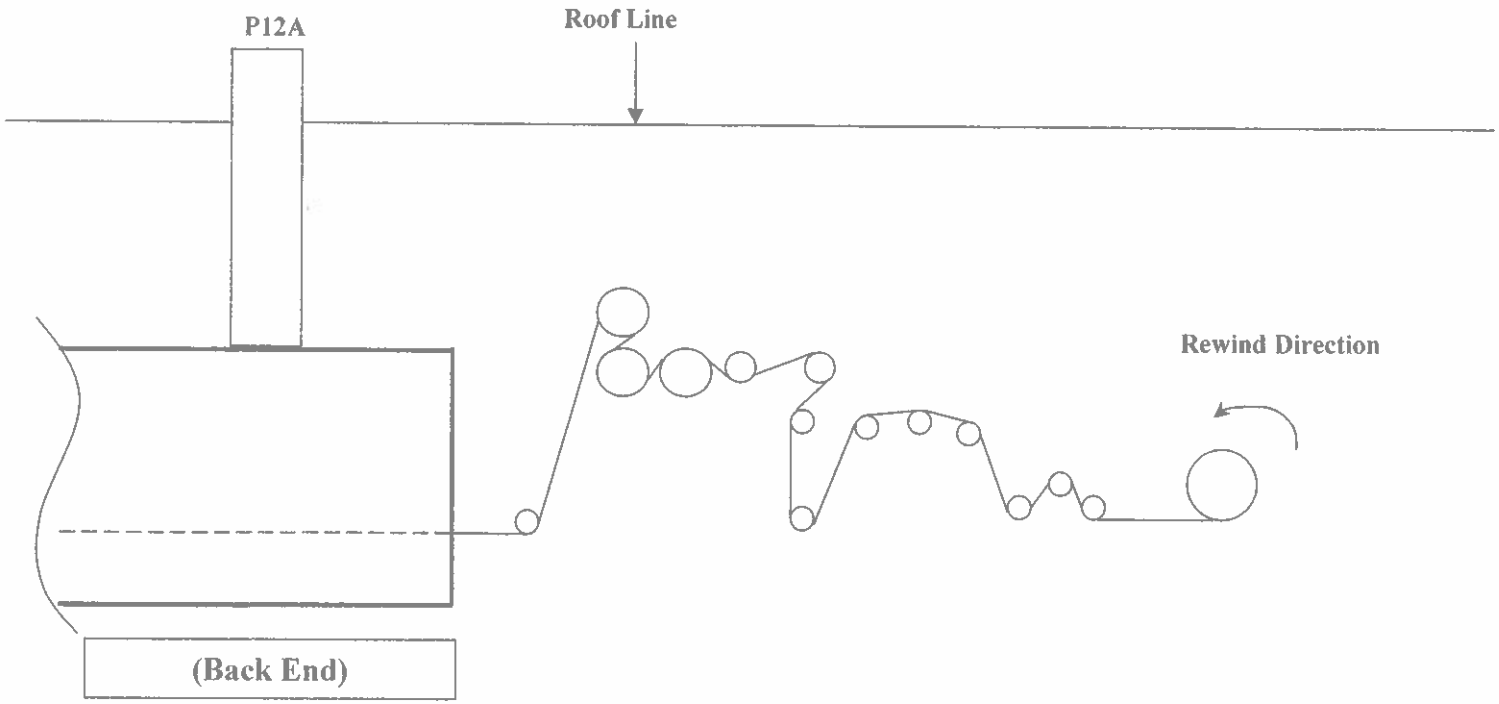
Source 37-0001-10 – Range #3 (Tenter #3)

Flow Diagram Point Identification



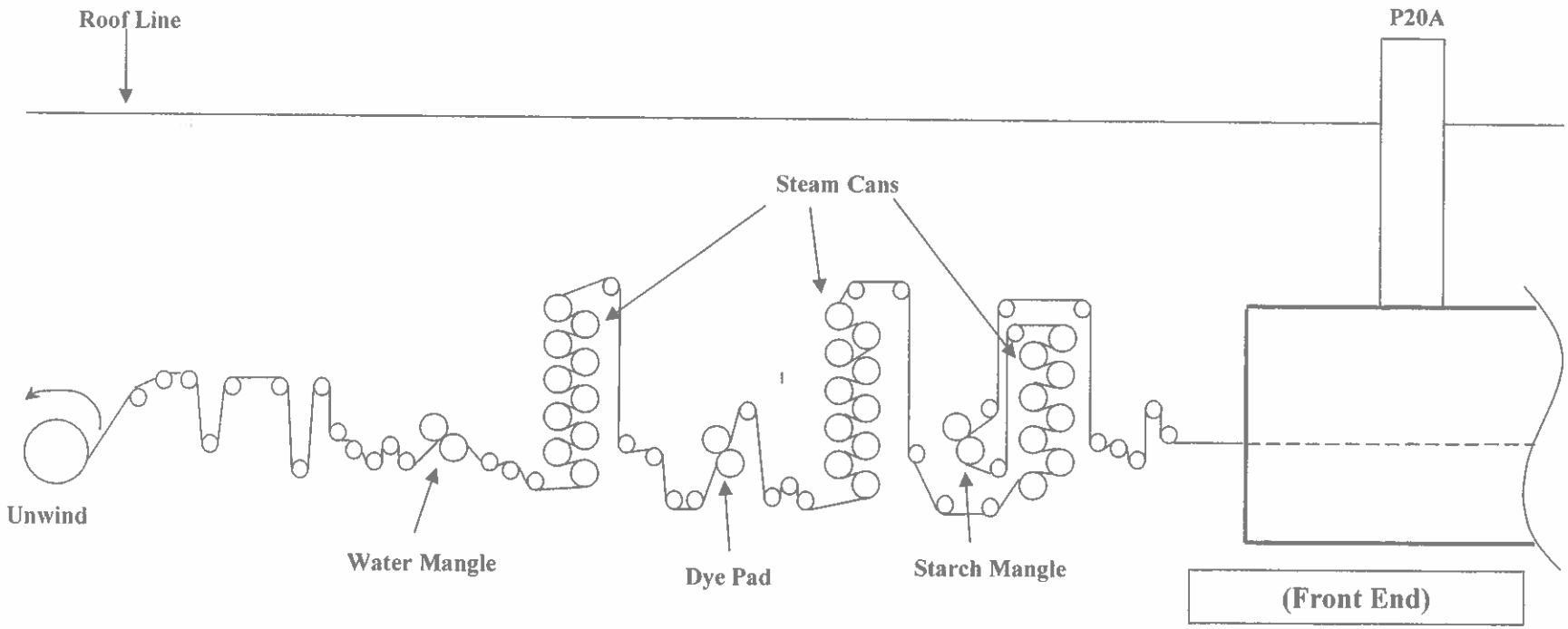
Source 37-0001-10 – Range #4 (Tenter #4)

Flow Diagram Point Identification



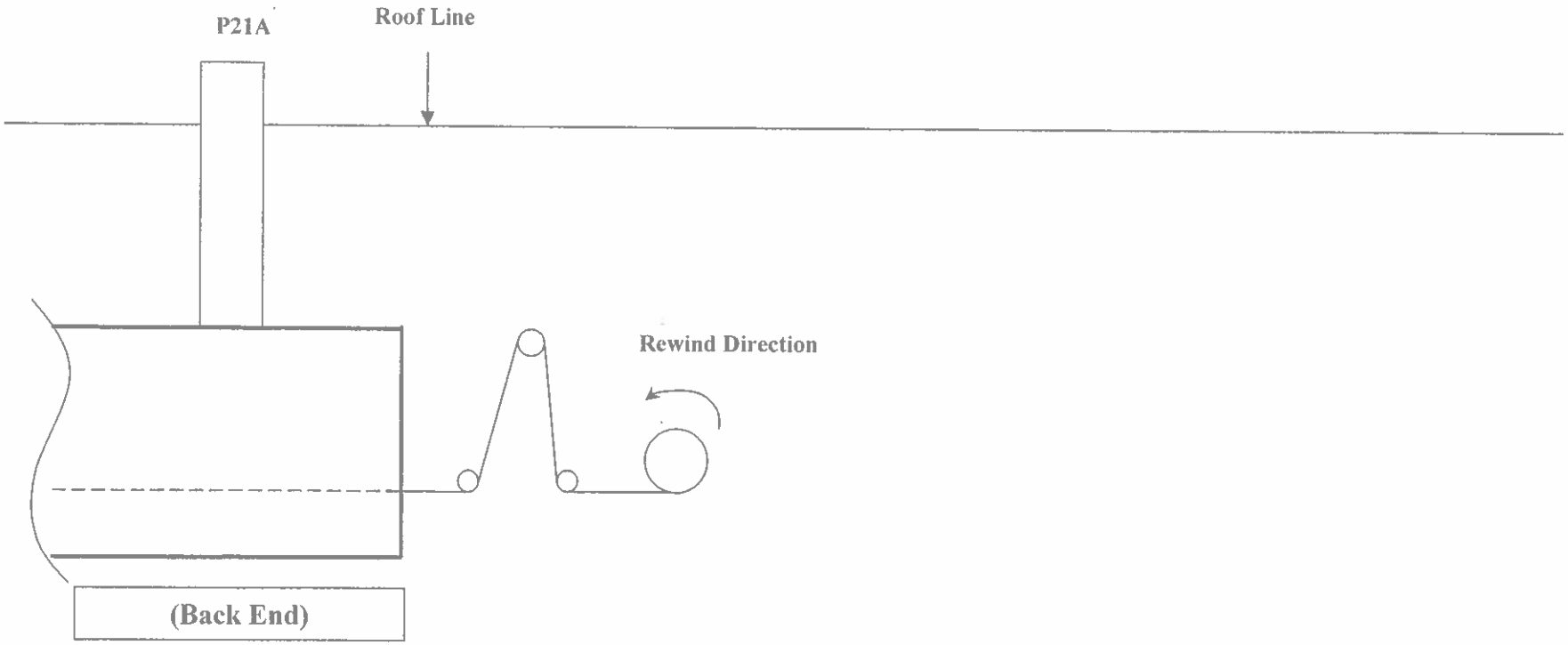
Source 37-0001-10 – Range #4 (Tenter #4)

Flow Diagram Point Identification



Source 37-0001-10 – Tenter #5

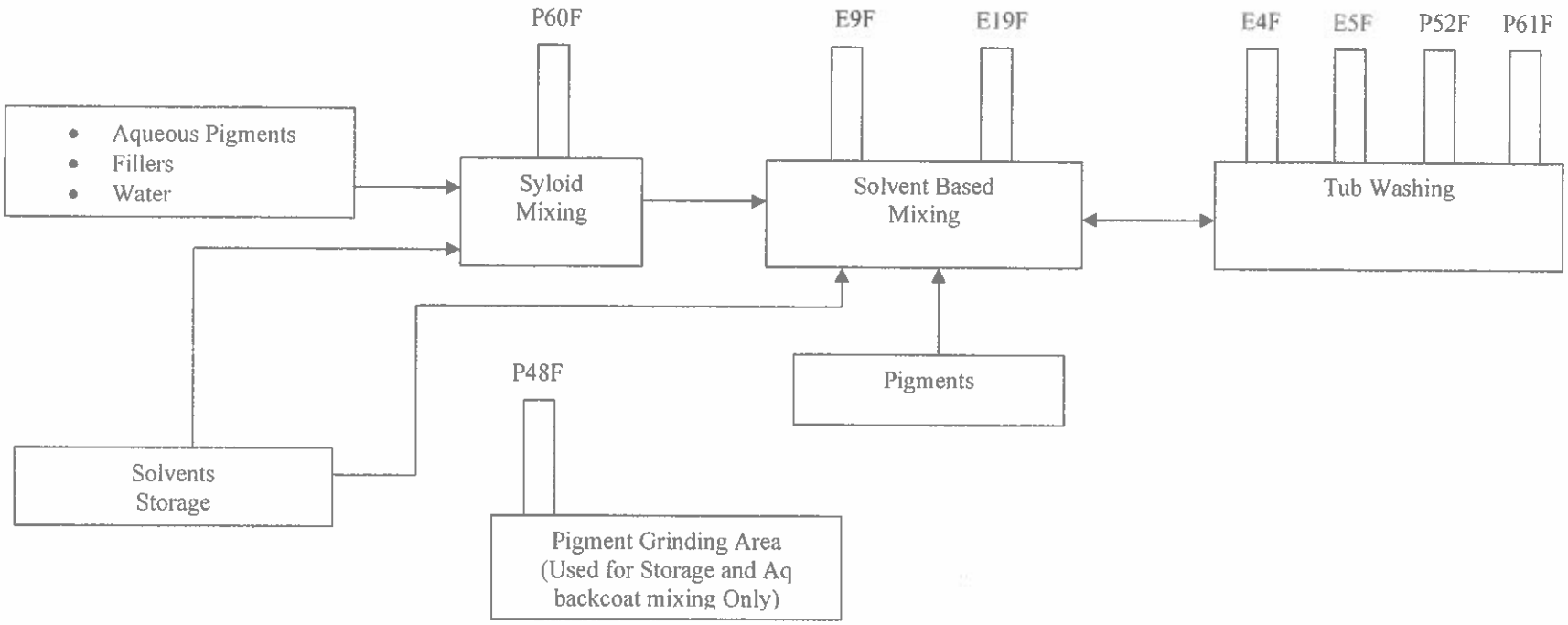
Flow Diagram Point Identification



Source 37-0001-10 – Tenter #5

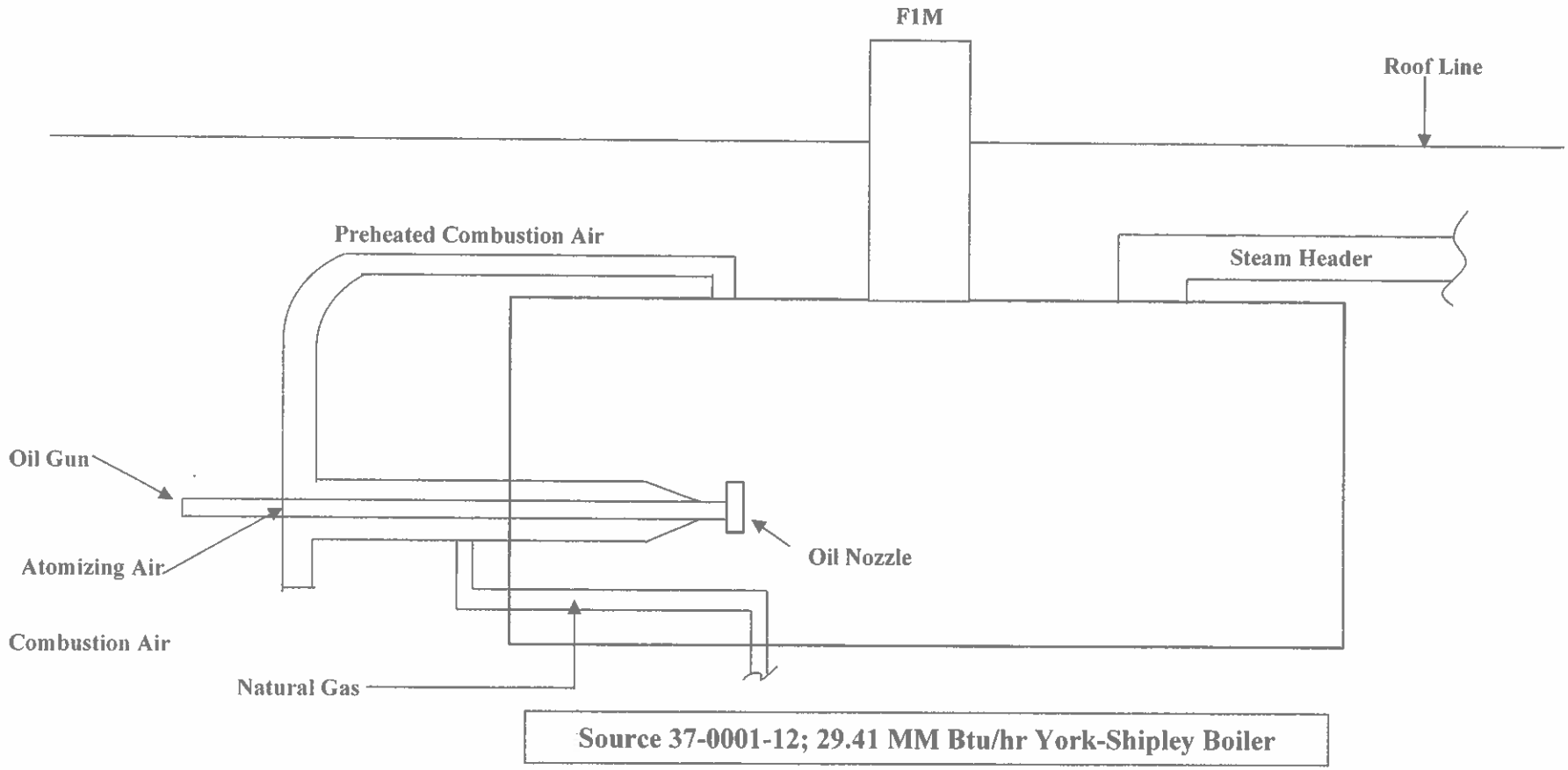
Flow Diagram Point Identification

COATING MIXING AREA

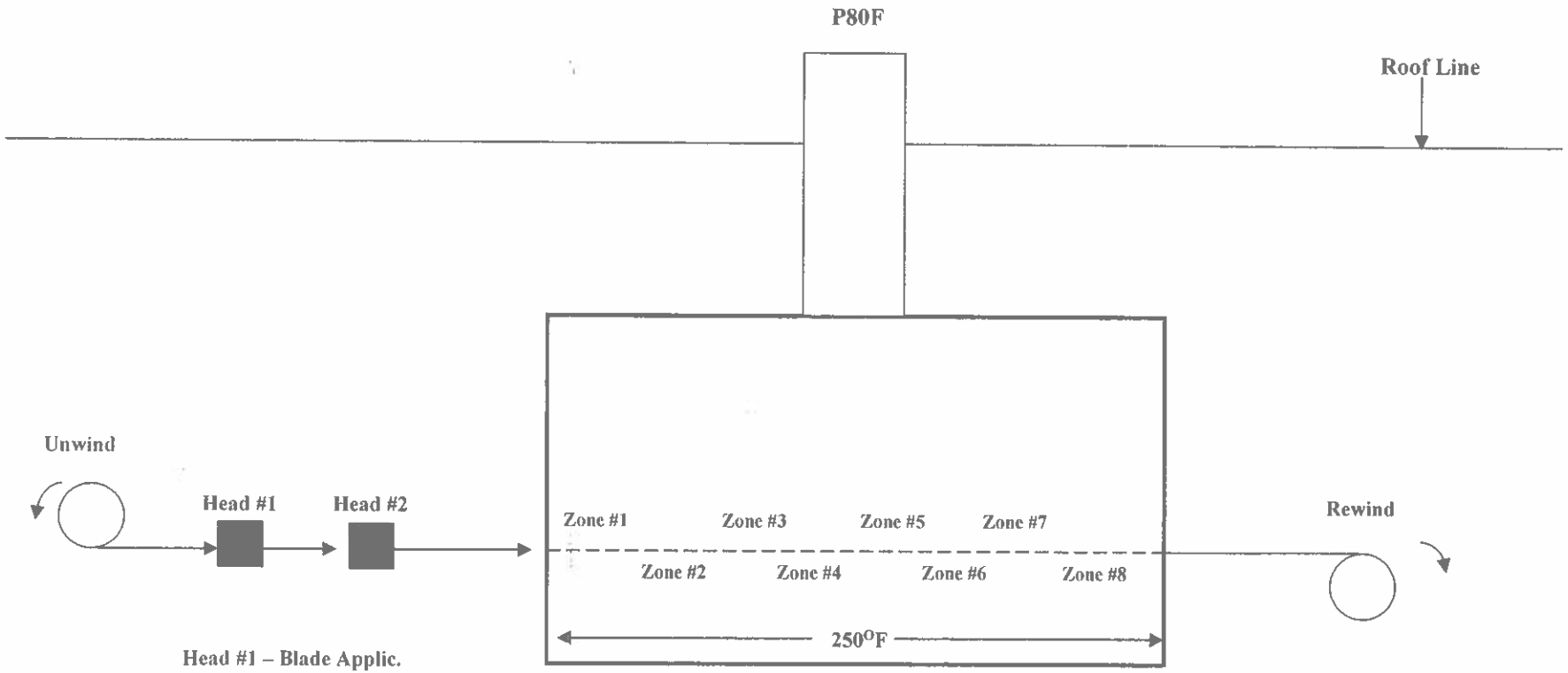


Source 37-0001-10 – Coating Mixing Area

Flow Diagram Point Identification



Flow Diagram Point Identification



Source 37-0001-16 – Eight (8) each, 0.8 MM Btu/hr Tenter Drying Ovens

Flow Diagram Point Identification

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #3; Head Exhaust

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P6aF
4. Stack height above grade in feet:
   39.25 ft.
5. Velocity (data at exit conditions):
   12 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   3.79 x 3.79 ft
7. Exhaust flow rate at exit conditions (ACFM):
   10, 686
8. Flow rate at standard conditions (DSCFM):
   10, 567
9. Exhaust temperature:
   76 deg. F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    "Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.1 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Coater #3; Zone 1

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P6F

4. Stack height above grade in feet:
   37 ft.

5. Velocity (data at exit conditions):
   4 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   1.75 x 7 ft

7. Exhaust flow rate at exit conditions (ACFM):
   3,205

8. Flow rate at standard conditions (DSCFM):
   2,909

9. Exhaust temperature:
   124 deg. F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    "Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #3; Zone 2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P7F
4. Stack height above grade in feet:
   37 ft.
5. Velocity (data at exit conditions):
   7 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   1.75 x 7 ft
7. Exhaust flow rate at exit conditions (ACFM):
   5,145
8. Flow rate at standard conditions (DSCFM):
   4,500
9. Exhaust temperature:
   146 deg. F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    "Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.3 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Coater #3; Zone 3

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P8F

4. Stack height above grade in feet:
   39.25 ft.

5. Velocity (data at exit conditions):
   19 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   3.79 x 3.79 ft

7. Exhaust flow rate at exit conditions (ACFM):
   15, 130

8. Flow rate at standard conditions (DSCFM):
   13,578

9. Exhaust temperature:
   N/A Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    "Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #4; Head Exhaust

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P9F
4. Stack height above grade in feet:
   39.25 ft.
5. Velocity (data at exit conditions):
   23 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   2.58 x 2.58 ft
7. Exhaust flow rate at exit conditions (ACFM):
   9,185
8. Flow rate at standard conditions (DSCFM):
   8,933
9. Exhaust temperature:
   85 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    "Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.5 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #4; Zone 1

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P10F
4. Stack height above grade in feet:
   37 ft.
5. Velocity (data at exit conditions):
   17 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   1.75 x 7 ft
7. Exhaust flow rate at exit conditions (ACFM):
   15,130
8. Flow rate at standard conditions (DSCFM):
   12,934
9. Exhaust temperature:
   160 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    "Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1 **Facility name:**
Holliston Holdings, LLC

2 **Emission source (identify):**
Source 37-0001-10 - Coater #4; Zone 2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
P11F

4. Stack height above grade in feet:
37 ft.

5. Velocity (data at exit conditions):
20 (Actual feet per second)

6. Inside dimensions at outlet in feet:
1.75 x 7 ft

7. Exhaust flow rate at exit conditions (ACFM):
14,393

8. Flow rate at standard conditions (DSCFM):
11,352

9. Exhaust temperature:
212 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
"Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13 Do you have a bypass stack?
___ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.7 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Coater #4; Zone 3

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P11aF

4. Stack height above grade in feet:
   39.25 ft.

5. Velocity (data at exit conditions):
   13 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   3.79 x 3.79 ft

7. Exhaust flow rate at exit conditions (ACFM):
   10,931

8. Flow rate at standard conditions (DSCFM):
   9,753

9. Exhaust temperature:
   134 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    "Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.8 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
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Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #5; Zone 1

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P12F
4. Stack height above grade in feet:
   38.66 ft.
5. Velocity (data at exit conditions):
   19 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   2.44 x 3.13 ft
7. Exhaust flow rate at exit conditions (ACFM):
   8,805
8. Flow rate at standard conditions (DSCFM):
   7,910
9. Exhaust temperature:
   130 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    "Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.9 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
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12 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #5; Zone 2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P13F
4. Stack height above grade in feet:
   40 ft.
5. Velocity (data at exit conditions):
   13 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   1.4 x 1.63 ft
7. Exhaust flow rate at exit conditions (ACFM):
   1,761
8. Flow rate at standard conditions (DSCFM):
   1,644
9. Exhaust temperature:
   108 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (<u>for stacks subject to diffusion equation only</u>):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    "Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.10 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #5; Zone 3

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P14F
4. Stack height above grade in feet:
   38.33 ft.
5. Velocity (data at exit conditions):
   39 (Actual feet per second)
6. Inside dimensions at outlet in feet.
   1.23 x 1.58 ft
7. Exhaust flow rate at exit conditions (ACFM):
   4,512
8. Flow rate at standard conditions (DSCFM):
   4,380
9. Exhaust temperature:
   86 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    "Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.11 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Print Machine/Coater #6; Zone 1 (This machine is not in operation at this time)

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P15F

4. Stack height above grade in feet:
   39.25 ft.

5. Velocity (data at exit conditions):
   29 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.19 x 2.71 ft

7. Exhaust flow rate at exit conditions (ACFM):
   10,386

8. Flow rate at standard conditions (DSCFM):
   9,936

9. Exhaust temperature:
   94 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.12 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Print Machine/Coater #6; Zone 2(This machine is not in operation at this time)

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P16F

4. Stack height above grade in feet:
   39.25 ft.

5. Velocity (data at exit conditions):
   30 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.29 x 2.98 ft

7. Exhaust flow rate at exit conditions (ACFM):
   12,238

8. Flow rate at standard conditions (DSCFM):
   10,534

9. Exhaust temperature:
   158 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.13 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Print Machine/Coater #6; Zone 3 (This machine is not in operation at this time

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P17F

4. Stack height above grade in feet:
   37 ft.

5. Velocity (data at exit conditions):
   22 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   1.75 x 7 ft

7. Exhaust flow rate at exit conditions (ACFM):
   5,244

8. Flow rate at standard conditions (DSCFM):
   5,053

9. Exhaust temperature:
   90 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.14 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #7; Zone 1

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P20F
4. Stack height above grade in feet:
   38.66 ft.
5. Velocity (data at exit conditions):
   27 (Actual feet per second)
6. Inside dimensions at outlet in feet.
   2.48 x 2.73 ft
7. Exhaust flow rate at exit conditions (ACFM):
   11,220
8. Flow rate at standard conditions (DSCFM):
   9,395
9. Exhaust temperature:
   173 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.15 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #7; Zone 2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P21F
4. Stack height above grade in feet:
   38.66 ft.
5. Velocity (data at exit conditions):
   29 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   2.50 x 2.73 ft
7. Exhaust flow rate at exit conditions (ACFM):
   12,059
8. Flow rate at standard conditions (DSCFM):
   10,393
9. Exhaust temperature:
   155 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.16 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Coater #8; Zone 1

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P23F

4. Stack height above grade in feet:
   39.25 ft.

5. Velocity (data at exit conditions):
   48 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   1.5 x 2.06 ft

7. Exhaust flow rate at exit conditions (ACFM):
   8,840

8. Flow rate at standard conditions (DSCFM):
   8,677

9. Exhaust temperature:
   80 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.17 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #8; Zone 2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P24F
4. Stack height above grade in feet:
   37 ft.
5. Velocity (data at exit conditions):
   15 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   1.75 x 7 ft
7. Exhaust flow rate at exit conditions (ACFM):
   11,025
8. Flow rate at standard conditions (DSCFM):
   9,804
9. Exhaust temperature:
   136 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.18 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #8; Zone 3

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P25F
4. Stack height above grade in feet:
   37 ft.
5. Velocity (data at exit conditions):
   15 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   1.75 x 7 ft
7. Exhaust flow rate at exit conditions (ACFM):
   11,025
8. Flow rate at standard conditions (DSCFM):
   9,130
9. Exhaust temperature:
   180 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.19 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Coater #8; Zone 4

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P26F

4. Stack height above grade in feet:
   39.25 ft.

5. Velocity (data at exit conditions):
   30 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.5 x 3.29 ft

7. Exhaust flow rate at exit conditions (ACFM):
   14,985

8. Flow rate at standard conditions (DSCFM):
   13,924

9. Exhaust temperature:
   110 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.20 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #11; Head Exhaust

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P34F
4. Stack height above grade in feet:
   31.85 ft.
5. Velocity (data at exit conditions):
   15 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   1 ft diameter
7. Exhaust flow rate at exit conditions (ACFM):
   688
8. Flow rate at standard conditions (DSCFM):
   679
9. Exhaust temperature:
   80 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.21 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Coater #11; Zone 1

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P35F

4. Stack height above grade in feet:
   39.5 ft.

5. Velocity (data at exit conditions):
   20 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.46 x 2.73 ft

7. Exhaust flow rate at exit conditions (ACFM):
   8,132

8. Flow rate at standard conditions (DSCFM):
   7,244

9. Exhaust temperature:
   135 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Coater #11; Zone 2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P36F
4. Stack height above grade in feet:
   39.5 ft.
5. Velocity (data at exit conditions):
   21 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   2.46 x 2.73 ft
7. Exhaust flow rate at exit conditions (ACFM):
   8,154
8. Flow rate at standard conditions (DSCFM):
   7,259
9. Exhaust temperature:
   150 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.23 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Coater #11; Zone 3

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P37F

4. Stack height above grade in feet:
   33.67 ft.

5. Velocity (data at exit conditions):
   15 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.50 ft diameter

7. Exhaust flow rate at exit conditions (ACFM):
   4,435

8. Flow rate at standard conditions (DSCFM):
   4,274

9. Exhaust temperature:
   90 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (<u>for stacks subject to diffusion equation only</u>):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.24 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001 - 10 - Coater #11; Zone 4

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P38F

4. Stack height above grade in feet:
   39.50 ft.

5. Velocity (data at exit conditions):
   28 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.85 x 2.29 ft

7. Exhaust flow rate at exit conditions (ACFM):
   11,023

8. Flow rate at standard conditions (DSCFM):
   9,578

9. Exhaust temperature:
   150 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.25 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001 -10 - Coater #15; Zone #1

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P62F

4. Stack height above grade in feet:
   41.67 ft.

5. Velocity (data at exit conditions):
   38 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.33 x 2.83 ft

7. Exhaust flow rate at exit conditions (ACFM):
   7,222

8. Flow rate at standard conditions (DSCFM):
   5,244

9. Exhaust temperature:
   295 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Coater #15; Zone #2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P63F

4. Stack height above grade in feet:
   31.58 ft.

5. Velocity (data at exit conditions):
   25 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2 ft diameter

7. Exhaust flow rate at exit conditions (ACFM):
   9,916

8. Flow rate at standard conditions (DSCFM):
   7,445

9. Exhaust temperature:
   246 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Tenter #1; Zone 1

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P1A

4. Stack height above grade in feet:
   25.3 ft.

5. Velocity (data at exit conditions):
   24 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2 ft diameter

7. Exhaust flowrate at exit conditions (ACFM):
   4,553

8. Flow rate at standard conditions (DSCFM):
   4,233

9. Exhaust temperature:
   110 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Tenter #1; Zone 2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P2A

4. Stack height above grade in feet:
   24.5 ft.

5. Velocity (data at exit conditions):
   55 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   3.17 ft diameter

7. Exhaust flow rate at exit conditions (ACFM):
   26,031

8. Flow rate at standard conditions (DSCFM):
   21,557

9. Exhaust temperature:
   180 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    _____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Tenter #1; Zone 3

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P3A

4. Stack height above grade in feet:
   24.30 ft.

5. Velocity (data at exit conditions):
   8 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.17 ft diameter

7. Exhaust flow rate at exit conditions (ACFM):
   1,865

8. Flow rate at standard conditions (DSCFM):
   1,765

9. Exhaust temperature:
   100 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.30 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Range #3 (Tenter #3); Zone 1

STACK DESCRIPTION

3. Stack ID (or flowdiagram point identification):
   P7A

4. Stack height above grade in feet:
   28.10 ft.

5. Velocity (data at exit conditions):
   18 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.17 ft diameter

7. Exhaust flowrate at exit conditions (ACFM):
   3,917

8. Flow rate at standard conditions (DSCFM):
   3,579

9. Exhaust temperature:
   120 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (<u>for stacks subject to diffusion equation only</u>):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flowdiagram point number(s) exhausting through this bypass stack

14. Page number: APC 3.31 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Range #3 (Tenter #3); Zone 2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P8A
4. Stack height above grade in feet:
   28.20 ft.
5. Velocity (data at exit conditions):
   27 (Actual feet per second)
6. Inside dimensions at outlet in feet:
   2.17 ft diameter
7. Exhaust flow rate at exit conditions (ACFM):
   5,969
8. Flow rate at standard conditions (DSCFM):
   5,103
9. Exhaust temperature:
   160 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.32 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Range #3 (Tenter #3); Zone 3

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P9A

4. Stack height above grade in feet:
   28.10 ft.

5. Velocity (data at exit conditions):
   18 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.17 ft diameter

7. Exhaust flow rate at exit conditions (ACFM):
   4,103

8. Flow rate at standard conditions (DSCFM):
   3,222

9. Exhaust temperature:
   215 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Emission source (identify):**
   Source 37-0001-10 - Range #3 (Tenter #3); Zone 4

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P10A
4. Stack height above grade in feet:
   28.20 ft.
5. Velocity (data at exit conditions):
   16 (Actual feet per second)
6. Inside dimensions at outlet in feet
   2 ft diameter
7. Exhaust flow rate at exit conditions (ACFM):
   2,976
8. Flow rate at standard conditions (DSCFM):
   2,524
9. Exhaust temperature:
   165 deg F Degrees Fahrenheit (°F)
10. Moisture content (data at exit conditions):
    20 Percent N/A Grains per dry standard cubic foot (gr./dscf.)
11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)
12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Range #4 (Tenter #4); Zone 1

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P11A

4. Stack height above grade in feet:
   28.20 ft.

5. Velocity (data at exit conditions):
   36 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2 ft diameter

7. Exhaust flow rate at exit conditions (ACFM):
   6,751

8. Flow rate at standard conditions (DSCFM):
   5,380

9. Exhaust temperature:
   295 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.35 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Range #4 (Tenter #4); Zone 2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P12A

4. Stack height above grade in feet:
   27.20 ft.

5. Velocity (data at exit conditions):
   19 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   2.17 ft diameter

7. Exhaust flow rate at exit conditions (ACFM):
   3,516

8. Flow rate at standard conditions (DSCFM):
   2,714

9. Exhaust temperature:
   220 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.36 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Tenter #5; Zone 1

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P20A

4. Stack height above grade in feet:
   28.10 ft.

5. Velocity (data at exit conditions):
   37 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   1.33 x 1.75 ft

7. Exhaust flow rate at exit conditions (ACFM):
   5,120

8. Flow rate at standard conditions (DSCFM):
   4,449

9. Exhaust temperature:
   150 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

14. Page number: APC 3.37 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-10 - Tenter #5; Zone 2

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P21A

4. Stack height above grade in feet:
   27.75 ft.

5. Velocity (data at exit conditions):
   26 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   1.33 ft diameter

7. Exhaust flow rate at exit conditions (ACFM):
   3,607

8. Flow rate at standard conditions (DSCFM):
   3,187

9. Exhaust temperature:
   140 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
STACK IDENTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC

2. **Emission source (identify):**
   Source 37-0001-16 - Eight (8) each, 0.8 MM Btu/hr Tenter Drying Ovens; All zones

STACK DESCRIPTION

3. Stack ID (or flow diagram point identification):
   P80F

4. Stack height above grade in feet:
   32.5 ft.

5. Velocity (data at exit conditions):
   45 (Actual feet per second)

6. Inside dimensions at outlet in feet:
   1.7 ft diameter

7. Exhaust flow rate at exit conditions (ACFM):
   7,209

8. Flow rate at standard conditions (DSCFM):
   5,833

9. Exhaust temperature:
   195 deg F Degrees Fahrenheit (°F)

10. Moisture content (data at exit conditions):
    20 Percent
    N/A Grains per dry standard cubic foot (gr./dscf.)

11. Exhaust temperature that is equaled or exceeded during ninety (90) percent or more of the operating time (for stacks subject to diffusion equation only):
    N/A (°F)

12. If this stack is equipped with continuous pollutant monitoring equipment required for compliance, what pollutant(s) does this equipment monitor (e.g., Opacity, SO_2, NO_x, etc.)?
    " Not Applicable"

Complete the appropriate APC form(s) 4, 5, 7, 8, 9, or 10 for each source exhausting through this stack.

BYPASS STACK DESCRIPTION

13. Do you have a bypass stack?
    ____ Yes X No

If yes, describe the conditions which require its use & complete APC form 4 for the bypass stack. Please identify the stack number(s) of flow diagram point number(s) exhausting through this bypass stack.

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TITLE V PERMIT APPLICATION
FUEL BURNING NON-PROCESS EQUIPMENT

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
Holliston Holdings, LLC

2. **Stack ID or flow diagram point identification (s):**
F2M

FUEL BURNING EQUIPMENT DESCRIPTION

3. List all fuel burning equipment that is at this fuel burning installation (please complete an APC 4 form for each piece of fuel burning equipment).
Source 37-0001-02, 39 MM Btu/hr Springfield Boiler;

4. Fuel burning equipment identification number:
Springfield Boiler Serial Number 631

5. Fuel burning equipment description:
Burns Natural Gas to produce steam for process heat

6. Year of installation or last modification of fuel burning equipment.
1962

7. Furnace type:
"D"

8. Manufacturer model number (if available):
Springfield Serial #631

9. Location of this fuel burning installation in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

10. Normal operating schedule: 24 Hrs./Day 07 Days/Wk. 365 Days/Yr.

FUELS, CONTROLS, AND MONITORING DESCRIPTION

11. Maximum rated heat input capacity (in million BTU/Hour)
39 MMBTU/HR

12. If wood is used as a fuel, specify the amount of wood used as a fraction of total heat input.
"Not Applicable"

13. Fuels:	Primary fuel	Backup fuel #1	Backup fuel #2	Backup fuel #3
Fuel name	Natural Gas	#2 Oil	#4 Oil	
Actual yearly consumption	5 MMCF	Currently not used	Currently not used	

14. If emissions from this fuel burning equipment are controlled for compliance, please specify the type of control:
"Not Applicable"

15. If emissions from this fuel burning equipment are monitored for compliance, please specify the type of monitoring:
"Not Applicable"

16. Describe any fugitive emissions associated with this process, such as outdoor storage piles, open conveyors, material handling operations, etc. (please attach a separate sheet if necessary).
"Not Applicable"

17. Page number: APC 4.1 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
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TITLE V PERMIT APPLICATION
FUEL BURNING NON-PROCESS EQUIPMENT

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
Holliston Holdings, LLC

2. **Stack ID or flow diagram point identification (s):**
F1M

FUEL BURNING EQUIPMENT DESCRIPTION

3. List all fuel burning equipment that is at this fuel burning installation (please complete an APC 4 form for each piece of fuel burning equipment).
Source 37-0001-12, 29.41 MM Btu/hr York-Shipley Boiler

4. Fuel burning equipment identification number:
Boiler #12

5. Fuel burning equipment description:
Burns Natural Gas to produce steam for process heat

Year of installation or last modification of fuel burning equipment.
2008

7. Furnace type:
Firetube

8. Manufacturer model number (if available):
York-Shipley Model No. 5112L-53W-700-S150

9. Location of this fuel burning installation in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

10. Normal operating schedule: 24 Hrs./Day 07 Days/Wk. 365 Days/Yr.

FUELS, CONTROLS, AND MONITORING DESCRIPTION

11. Maximum rated heat input capacity (in million BTU/Hour)
29.41 MMBTU/HR

12. If wood is used as a fuel, specify the amount of wood used as a fraction of total heat input.
"Not Applicable"

13. Fuels:	Primary fuel	Backup fuel #1	Backup fuel #2	Backup fuel #3
Fuel name	Natural Gas	#2 Oil	#4 Oil	
Actual yearly consumption	5 MMCF	Currently not used	Currently not used	

14. If emissions from this fuel burning equipment are controlled for compliance, please specify the type of control:
"Not Applicable"

15. If emissions from this fuel burning equipment are monitored for compliance, please specify the type of monitoring:
"Not Applicable"

16. Describe any fugitive emissions associated with this process, such as outdoor storage piles, open conveyors, material handling operations, etc. (please attach a separate sheet if necessary).
"Not Applicable"

17. Page number: APC 4.2 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STATIONARY GAS TURBINE OR INTERNAL COMBUSTION ENGINE

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
   Holliston Holdings, LLC
2. **Stack ID or flow diagram point identification (s):**
   "Not Applicable" to Holliston Operations

GAS TURBINE OR INTERNAL COMBUSTION ENGINE DESCRIPTION

3. List all gas turbines and internal combustion engines at this facility on a separate sheet, and please complete an APC 5 form for each piece of equipment.
   "Not Applicable"
4. Manufacturer and model number:
5. Equipment description:
6. Date of installation or last modification of equipment:
7. Rated heat input capacity (in million BTU/Hour) and rated horsepower:
   _____
   State which heating value was utilized:
   _____ Higher heating value
   _____ Lower heating value
8. If equipment is a gas turbine, list type:
   _____ Simple cycle
   _____ Regenerative cycle
   _____ Combined cycle
9. Location of this fuel burning installation in UTM coordinates: UTM Vertical: _____ UTM Horizontal: _____
10. Normal operating schedule: 24 Hrs./Day _____ Days/Wk. _____ Days/Yr.

FUEL DESCRIPTION

11. Fuels:	Primary fuel	Backup fuel #1	Backup fuel #2	Backup fuel #3
Fuel name				
Actual yearly consumption				

12. (For NSPS turbines only) Manufacturer's rated heat rate at manufacturer's rated peak load (kilojoules per watt hour), or actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the unit:

13. Page number: APC 5.1 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STORAGE TANKS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Hollistonn Holdings, LLC
2. **Process emission source (identify):** Vent T1

STORAGE TANK DESCRIPTION

3. Storage tank identification: Tank T1
4. Location of the storage tank or tank farm in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

5. Storage tank capacity:	6. Year of installation:	7. Tank height	8. Tank diameter:
10,000 (Gallons)	1961	10.5 ± (Feet)	7.33 ± (Feet)

9. Color of tank: _____ White __X__ Other Specify ~~Tan~~

10. Is this tank equipped with a submerged fill pipe? _____ Yes __X__ No

11. Type of storage tank:

_____Open top tank __X__Fixed roof _____Fixed roof w/internal floating roof _____Other (specify)
_____Pressurized tank _____External floating roof _____Variable vapor space _____

12. For fixed roof tanks:
A. Tank configuration (check one):: _____Vertical (upright cylinder) __X__Horizontal
B. Tank roof type: (check one) __N/A__Cone roof – indicate tank roof height __N/A__(ft)
_____Dome roof – indicate tank roof height __N/A__(ft)
Indicate shell radius __3.66__(ft)

FLOATING ROOF TANK DESCRIPTION

13. For Floating Rook tanks (both internal and external) – shell condition (check one):
_____ Light rust _____ Dense rust _____ Gunite lined "Not Applicable"

14. For External Floating Roof tanks: "Not Applicable"

A. Tank construction (check one): _____ Welded tank _____ Riveted tank

B. Rim Seal system description (check one):
_____Shoe Mounted Primary _____Vapor Mounted Primary _____Liquid Mounted Primary
_____Shoe Primary, Rim Secondary _____Vapor Primary, Rim Secondary _____Liquid Primary, Rim Secondary
_____Liquid Primary w/Weather Shield _____Shoe Primary and Secondary _____Vapor Primary w/Weather Shield

C. Roof type (check one): : _____ Pontoon roof _____ Double Deck roof

D. Roof fitting types (indicate the number of each type):

Access Hatch (24" Diameter well)
_____Bolted cover, gasketed
_____Unbolted cover, gasketed
_____Unbolted cover, ungasketed

Unslotted Guide-Pole Well
(8" Diameter Unslotted Pole, 21" Dia. Well)
_____Ungasketed sliding cover
_____Gasketed sliding cover

Gauge-Float Well (20" Diameter)
_____Unbolted cover, ungasketed
_____Unbolted cover. gasketed
_____Bolted cover, gasketed

Gauge-Hatch/Sample Well (8" Dia.)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Vacuum Breaker (10" Dia. Well)
_____Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Roof Drain
_____Open
_____ 90% Closed

Slotted Guide-Pole/Sample Well
(8" Slotted Pole, 21" Dia. Well)
_____Ungasketed Sliding Cover, without Float
_____Ungasketed Sliding Cover, with Float
_____Gasketed Sliding Cover, without Float
_____ Gasketed Sliding Cover, with Float

Roof Leg (3" Dia.)
_____Adjustable, Pontoon area
_____Adjustable, Center area
_____Adjustable, Double-Deck roofs
_____Fixed

Roof Leg (2 ½" Dia.)
_____Adjustable, Pontoon area
_____Adjustable, Center area
_____Adjustable, Double-Deck roofs
_____Fixed

15. For Internal Floating Roof tanks: "Not Applicable"

A. Rim Seal system description:

_____ Liquid Mounted Primary
_____ Vapor Mounted Primary
_____ Liquid Mounted Primary plus Secondary Seal
_____ Vapor Mounted Primary plus Secondary Seal

B. Number of Columns: _____

C. Effective Column diameter: _____ (Feet)

D. Deck Type (check one): _____ Welded _____ Bolted

E. Total Deck Seam length: _____ (Feet)

F. Deck Area: _____ (Square Feet)

G. Deck Fitting types (indicate the number of each type):

Access Hatch (24" Dia.)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Automatic Gauge Float Well
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Column Well
____ Built-up Column-Sliding cover, gasketed
____ Built-up Column-Sliding cover, ungasketed
____ Pipe Column-Flexible fabric sleeve seal
____ Pipe Column-Sliding cover, gasketed
____ Pipe Column-Sliding cover, ungasketed

Ladder well
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Sample Pipe and Well
_____ Slotted Pipe-Sliding cover, gasketed
_____ Slotted Pipe-Sliding cover, ungasketed
_____ Sample Well-Slit fabric seal, 10% open area
_____ Stub Drain, 1 inch diameter

Roof Leg or Hanger Well
_____ Adjustable
_____ Fixed

Vacuum Breaker

_____ Weighted Mechanical Actuation, gasketed
_____ Weighted Mechanical Actuation, ungasketed

16. For variable vapor space tanks:

Volume expansion capacity N/A (Gallons)

TANK CONTENTS AND OPERATION DESCRIPTION

17. Complete the flowing table for materials to be stored in this tank:

Material or component stored	Wt. %	Material Annual Throughput (Gal./Yr.)	Material stored Daily Average (Gallons)	Component Molecular weights (Lb./Lb. Mole)	Component Vapor Pressures (PSIA)	Material storage pressure(PSIA)	Material average storage temp. (Deg. F)
TOTM Oil	100	24,000	1,000	546.79	<0.1	Atmospheric	70 deg

Multipurpose tank with variable composition:

_____ Yes X No

18. Describe the operation this tank will serve:

TOTM Oil is stored in this vessel. TOTM Oil is used in the nitrocellulose resin as a plasticizer.

Tank is not in use at this time

19. Page number: APC 6.1 Revision Number: 1 Date of Revision: November 23, 2021

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Department of Environment and Conservation
Division of Air Pollution Control
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TITLE V PERMIT APPLICATION
STORAGE TANKS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. **Process emission source (identify):** Vent T2

STORAGE TANK DESCRIPTION

3. Storage tank identification: Tank T2
4. Location of the storage tank or tank farm in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

5. Storage tank capacity:	6. Year of installation:	7. Tank height	8. Tank diameter:
10,000 (Gallons)	1961	17.8 (Feet)	7.30 (Feet)

9. Color of tank: _____ White ~~X~~ Other Specify ~~Silver/Tan~~
10. Is this tank equipped with a submerged fill pipe? _____ Yes __X__ No
11. Type of storage tank:

_____ Open top tank __X__ Fixed roof _____ Fixed roof w/internal floating roof _____ Other (specify)
_____ Pressurized tank _____ External floating roof _____ Variable vapor space _____

12. For fixed roof tanks:
    A. Tank configuration (check one):: _____ Vertical (upright cylinder) __X__ Horizontal
    B. Tank roof type: (check one) N/A Cone roof – indicate tank roof height N/A (ft)
    _____ Dome roof – indicate tank roof height N/A (ft)
    Indicate shell radius 3.65 (ft)

FLOATING ROOF TANK DESCRIPTION

13. For Floating Rook tanks (both internal and external) – shell condition (check one):
_____ Light rust _____ Dense rust _____ Gunite lined "Not Applicable"

14. For External Floating Roof tanks: "Not Applicable"

A. Tank construction (check one): _____ Welded tank _____ Riveted tank

B. Rim Seal system description (check one):

_____ Shoe Mounted Primary
_____ Shoe Primary, Rim Secondary
_____ Liquid Primary w/Weather Shield
_____ Vapor Mounted Primary
_____ Vapor Primary, Rim Secondary
_____ Shoe Primary and Secondary
_____ Liquid Mounted Primary
_____ Liquid Primary, Rim Secondary
_____ Vapor Primary w/Weather Shield

C. Roof type (check one): : _____ Pontoon roof _____ Double Deck roof

D. Roof fitting types (indicate the number of each type):

Access Hatch (24" Diameter well)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Unslotted Guide-Pole Well
(8" Diameter Unslotted Pole, 21" Dia. Well)
_____ Ungasketed sliding cover
_____ Gasketed sliding cover

Gauge-Float Well (20" Diameter)
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed
_____ Bolted cover, gasketed

Gauge-Hatch/Sample Well (8" Dia.)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Vacuum Breaker (10" Dia. Well)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Roof Drain
_____ Open
_____ 90% Closed

Slotted Guide-Pole/Sample Well
(8" Slotted Pole, 21" Dia. Well)
_____ Ungasketed Sliding Cover, without Float
_____ Ungasketed Sliding Cover, with Float
_____ Gasketed Sliding Cover, without Float
_____ Gasketed Sliding Cover, with Float

Roof Leg (3" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

Roof Leg (2 ½" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

15. For Internal Floating Roof tanks: "Not Applicable"

A. Rim Seal system description:

_____ Liquid Mounted Primary
_____ Vapor Mounted Primary
_____ Liquid Mounted Primary plus Secondary Seal
_____ Vapor Mounted Primary plus Secondary Seal

B. Number of Columns: _____

C. Effective Column diameter: _____(Feet)

D. Deck Type (check one): _____ Welded _____ Bolted

E. Total Deck Seam length: _____(Feet)

F. Deck Area: _____(Square Feet)

G. Deck Fitting types (indicate the number of each type):

Access Hatch (24" Dia.)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Automatic Gauge Float Well
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Column Well
_____ Built-up Column-Sliding cover, gasketed
_____ Built-up Column-Sliding cover, ungasketed
_____ Pipe Column-Flexible fabric sleeve seal
_____ Pipe Column-Sliding cover, gasketed
_____ Pipe Column-Sliding cover, ungasketed

Ladder well
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Sample Pipe and Well
_____ Slotted Pipe-Sliding cover, gasketed
_____ Slotted Pipe-Sliding cover, ungasketed
_____ Sample Well-Slit fabric seal, 10% open area
_____ Stub Drain, 1 inch diameter

Roof Leg or Hanger Well
_____ Adjustable
_____ Fixed

Vacuum Breaker

_____ Weighted Mechanical Actuation, gasketed
_____ Weighted Mechanical Actuation, ungasketed

16. For variable vapor space tanks:

Volume expansion capacity N/A (Gallons)

TANK CONTENTS AND OPERATION DESCRIPTION

17. Complete the flowing table for materials to be stored in this tank:

Material or component stored	Wt. %	Material Annual Throughput (Gal./Yr.)	Material stored Daily Average (Gallons)	Component Molecular weights (Lb./Lb. Mole)	Component Vapor Pressures (PSIA)	Material storage pressure(PSIA)	Material average storage temp. (Deg. F)
Soya-Bean Oil	100	31,000	4,000	N/A	<0.1	Atmospheric	70 deg

Multipurpose tank with variable composition:

_____ Yes X No

18. Describe the operation this tank will serve:

Soya-Bean Oil is stored in this vessel. Soya-Bean Oil is used in the nitrocellulose resin as a plasticizer.

Tank is not in use at this time

19. Page number: APC 6.2 | Revision Number: 1 | Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STORAGE TANKS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. **Process emission source (identify):** Vent T31

STORAGE TANK DESCRIPTION

3. Storage tank identification: Tank T31
4. Location of the storage tank or tank farm in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

5. Storage tank capacity:	6. Year of installation:	7. Tank height	8. Tank diameter:
10,000 (Gallons)	1974	10.5 (Feet)	7.00 (Feet)

9. Color of tank: _____ White __X__ Other Specify ~~Silver~~
10. Is this tank equipped with a submerged fill pipe? _____ Yes __X__ No
11. Type of storage tank:

_____ Open top tank	__X__ Fixed roof	_____ Fixed roof w/internal floating roof	_____ Other (specify)
_____ Pressurized tank	_____ External floating roof	_____ Variable vapor space	_____

12. For fixed roof tanks:
    A. Tank configuration (check one):: _____ Vertical (upright cylinder) __X__ Horizontal
    B. Tank roof type: __N/A__ Cone roof – indicate tank roof height __N/A__ (ft)
    (check one) _____ Dome roof – indicate tank roof height __N/A__ (ft)
    Indicate shell radius __3.50__ (ft)

FLOATING ROOF TANK DESCRIPTION

13. For Floating Rook tanks (both internal and external) – shell condition (check one):
    _____ Light rust _____ Dense rust _____ Gunite lined "Not Applicable"
14. For External Floating Roof tanks: "Not Applicable"
    A. Tank construction (check one): _____ Welded tank _____ Riveted tank
    B. Rim Seal system description (check one):

_____ Shoe Mounted Primary	_____ Vapor Mounted Primary	_____ Liquid Mounted Primary
_____ Shoe Primary, Rim Secondary	_____ Vapor Primary, Rim Secondary	_____ Liquid Primary, Rim Secondary
_____ Liquid Primary w/Weather Shield	_____ Shoe Primary and Secondary	_____ Vapor Primary w/Weather Shield

    C. Roof type (check one): : _____ Pontoon roof _____ Double Deck roof
    D. Roof fitting types (indicate the number of each type):

Access Hatch (24" Diameter well)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Unslotted Guide-Pole Well
(8" Diameter Unslotted Pole, 21" Dia. Well)
_____ Ungasketed sliding cover
_____ Gasketed sliding cover

Gauge-Float Well (20" Diameter)
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed
_____ Bolted cover, gasketed

Gauge-Hatch/Sample Well (8" Dia.)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Vacuum Breaker (10" Dia Well)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Roof Drain
_____ Open
_____ 90% Closed

Slotted Guide-Pole/Sample Well
(8" Slotted Pole, 21" Dia. Well)
_____ Ungasketed Sliding Cover, without Float
_____ Ungasketed Sliding Cover, with Float
_____ Gasketed Sliding Cover, without Float
_____ Gasketed Sliding Cover, with Float

Roof Leg (3" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

Roof Leg (2 ½" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

15. For Internal Floating Roof tanks: "Not Applicable"

A. Rim Seal system description:

_____ Liquid Mounted Primary
_____ Vapor Mounted Primary
_____ Liquid Mounted Primary plus Secondary Seal
_____ Vapor Mounted Primary plus Secondary Seal

B. Number of Columns: _____

C. Effective Column diameter: _____(Feet)

D. Deck Type (check one): _____ Welded _____ Bolted

E. Total Deck Seam length: _____(Feet)

F. Deck Area: _____(Square Feet)

G. Deck Fitting types (indicate the number of each type):

Access Hatch (24" Dia.)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Automatic Gauge Float Well
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Column Well
____ Built-up Column-Sliding cover, gasketed
____ Built-up Column-Sliding cover, ungasketed
____ Pipe Column-Flexible fabric sleeve seal
____ Pipe Column-Sliding cover, gasketed
____ Pipe Column-Sliding cover, ungasketed

Ladder well
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Sample Pipe and Well
_____ Slotted Pipe-Sliding cover, gasketed
_____ Slotted Pipe-Sliding cover, ungasketed
_____ Sample Well-Slit fabric seal, 10% open area
_____ Stub Drain, 1 inch diameter

Roof Leg or Hanger Well
_____ Adjustable
_____ Fixed

Vacuum Breaker

_____ Weighted Mechanical Actuation, gasketed
_____ Weighted Mechanical Actuation, ungasketed

16. For variable vapor space tanks:

Volume expansion capacity N/A (Gallons)

TANK CONTENTS AND OPERATION DESCRIPTION

17. Complete the flowing table for materials to be stored in this tank:

Material or component stored	Wt. %	Material Annual Throughput (Gal./Yr.)	Material stored Daily Average (Gallons)	Component Molecular weights (Lb./Lb. Mole)	Component Vapor Pressures (PSIA)	Material storage pressure(PSIA)	Material average storage temp. (Deg. F)
Toluene	99	8,860	3,000	92.14	0.43	Atmospheric	Ambient
Water	1	90	3	18	0.33	Atmospheric	Ambient

Multipurpose tank with variable composition:

_____ Yes X No

18. Describe the operation this tank will serve:

Toluene is used as a dilutor. If the Nitrocellulose Jelly is too thick to use, toluene is added to reduce the viscosity of the mixture.

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TITLE V PERMIT APPLICATION
STORAGE TANKS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. **Process emission source (identify):** Vent T32

STORAGE TANK DESCRIPTION

3. Storage tank identification: Tank T32
4. Location of the storage tank or tank farm in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00
5. Storage tank capacity: 10,000 (Gallons)
6. Year of installation: 1974
7. Tank height: 10.5 (Feet)
8. Tank diameter: 7.00 (Feet)
9. Color of tank: _____ White X Other Specify Silver
10. Is this tank equipped with a submerged fill pipe? _____ Yes X No
11. Type of storage tank:

_____ Open top tank	X Fixed roof	_____ Fixed roof w/internal floating roof	_____ Other (specify)
_____ Pressurized tank	_____ External floating roof	_____ Variable vapor space	_____

12. For fixed roof tanks:
    A. Tank configuration (check one):: _____ Vertical (upright cylinder) X Horizontal
    B. Tank roof type: N/A Cone roof – indicate tank roof height N/A (ft)
    (check one) _____ Dome roof – indicate tank roof height N/A (ft)
    Indicate shell radius 3.50 (ft)

FLOATING ROOF TANK DESCRIPTION

13. For Floating Rook tanks (both internal and external) – shell condition (check one):
    _____ Light rust _____ Dense rust _____ Gunite lined "Not Applicable"
14. For External Floating Roof tanks: "Not Applicable"
    A. Tank construction (check one): _____ Welded tank _____ Riveted tank
    B. Rim Seal system description (check one):
    _____ Shoe Mounted Primary
    _____ Shoe Primary, Rim Secondary
    _____ Liquid Primary w/Weather Shield
    _____ Vapor Mounted Primary
    _____ Vapor Primary, Rim Secondary
    _____ Shoe Primary and Secondary
    _____ Liquid Mounted Primary
    _____ Liquid Primary, Rim Secondary
    _____ Vapor Primary w/Weather Shield
    C. Roof type (check one): : _____ Pontoon roof _____ Double Deck roof
    D. Roof fitting types (indicate the number of each type):

Access Hatch (24" Diameter well)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Unslotted Guide-Pole Well
(8" Diameter Unslotted Pole, 21" Dia. Well)
_____ Ungasketed sliding cover
_____ Gasketed sliding cover

Gauge-Float Well (20" Diameter)
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed
_____ Bolted cover, gasketed

Gauge-Hatch/Sample Well (8" Dia.)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Vacuum Breaker (10" Dia. Well)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Roof Drain
_____ Open
_____ 90% Closed

Slotted Guide-Pole/Sample Well
(8" Slotted Pole, 21" Dia. Well)
_____ Ungasketed Sliding Cover, without Float
_____ Ungasketed Sliding Cover, with Float
_____ Gasketed Sliding Cover, without Float
_____ Gasketed Sliding Cover, with Float

Roof Leg (3" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

Roof Leg (2 ½" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

15. For Internal Floating Roof tanks: "Not Applicable"

A. Rim Seal system description:

_____ Liquid Mounted Primary
_____ Vapor Mounted Primary
_____ Liquid Mounted Primary plus Secondary Seal
_____ Vapor Mounted Primary plus Secondary Seal

B. Number of Columns: _____

C. Effective Column diameter: _____ (Feet)

D. Deck Type (check one): _____ Welded _____ Bolted

E. Total Deck Seam length: _____ (Feet)

F. Deck Area: _____ (Square Feet)

G. Deck Fitting types (indicate the number of each type):

Access Hatch (24" Dia.)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Automatic Gauge Float Well
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Column Well
____ Built-up Column-Sliding cover, gasketed
____ Built-up Column-Sliding cover, ungasketed
____ Pipe Column-Flexible fabric sleeve seal
____ Pipe Column-Sliding cover, gasketed
____ Pipe Column-Sliding cover, ungasketed

Ladder well
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Sample Pipe and Well
_____ Slotted Pipe-Sliding cover, gasketed
_____ Slotted Pipe-Sliding cover, ungasketed
_____ Sample Well-Slit fabric seal, 10% open area
_____ Stub Drain, 1 inch diameter

Roof Leg or Hanger Well
_____ Adjustable
_____ Fixed

Vacuum Breaker

_____ Weighted Mechanical Actuation, gasketed
_____ Weighted Mechanical Actuation, ungasketed

16. For variable vapor space tanks:

Volume expansion capacity N/A (Gallons)

TANK CONTENTS AND OPERATION DESCRIPTION

17. Complete the flowing table for materials to be stored in this tank:

Material or component stored	Wt. %	Material Annual Throughput (Gal./Yr.)	Material stored Daily Average (Gallons)	Component Molecular weights (Lb./Lb. Mole)	Component Vapor Pressures (PSIA)	Material storage pressure(PSIA)	Material average storage temp. (Deg. F)
Isopropanol	20	20,000	600	60.11	0.591	Atmospheric	Ambient
Toluene	60	60,000	1,800	92.14	0.684	Atmospheric	Ambient
Acetone	16	16,000	480	58.9	3.340	Atmospheric	Ambient
Isopropyl Acetate	4	4,000	120	102.14	0.856	Atmospheric	Ambient

Multipurpose tank with variable composition:

_____ Yes X No

18. Describe the operation this tank will serve:

HM Blend is a formulated blend of solvents. These solvents are blended together prior to shipment and delivery at Holliston. The HM Blend is used to cut Nitrocellulose Fibers into a usable resin coating (Jelly).

19. Page number: APC 6.4 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
STORAGE TANKS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC

2. **Process emission source (identify):** Vent T33

STORAGE TANK DESCRIPTION

3. Storage tank identification: Tank T33

4. Location of the storage tank or tank farm in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

5. Storage tank capacity:	6. Year of installation:	7. Tank height	8. Tank diameter:
10,000 (Gallons)	1974	10.5 ± (Feet)	7.00 ± (Feet)

9. Color of tank: _____ White ~~X~~ Other Specify ~~Silver~~

10. Is this tank equipped with a submerged fill pipe? _____ Yes __X__ No

11. Type of storage tank:

_____ Open top tank __X__ Fixed roof _____ Fixed roof w/internal floating roof _____ Other (specify)
_____ Pressurized tank _____ External floating roof _____ Variable vapor space _____

12. For fixed roof tanks:
A. Tank configuration (check one):: _____ Vertical (upright cylinder) __X__ Horizontal
B. Tank roof type: N/A Cone roof – indicate tank roof height N/A (ft)
(check one) _____ Dome roof – indicate tank roof height N/A (ft)
Indicate shell radius 3.50 (ft)

FLOATING ROOF-TANK DESCRIPTION

13. For Floating Rook tanks (both internal and external) – shell condition (check one):
_____ Light rust _____ Dense rust _____ Gunite lined "Not Applicable"

14. For External Floating Roof tanks: "Not Applicable"

A. Tank construction (check one): _____ Welded tank _____ Riveted tank

B. Rim Seal system description (check one):
_____ Shoe Mounted Primary
_____ Shoe Primary, Rim Secondary
_____ Liquid Primary w/Weather Shield
_____ Vapor Mounted Primary
_____ Vapor Primary, Rim Secondary
_____ Shoe Primary and Secondary
_____ Liquid Mounted Primary
_____ Liquid Primary, Rim Secondary
_____ Vapor Primary w/Weather Shield

C. Roof type (check one): : _____ Pontoon roof _____ Double Deck roof

D. Roof fitting types (indicate the number of each type):

Access Hatch (24" Diameter well)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Unslotted Guide-Pole Well
(8" Diameter Unslotted Pole, 21" Dia. Well)
_____ Ungasketed sliding cover
_____ Gasketed sliding cover

Gauge-Float Well (20" Diameter)
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed
_____ Bolted cover, gasketed

Gauge-Hatch/Sample Well (8" Dia.)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Vacuum Breaker (10" Dia Well)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Roof Drain
_____ Open
_____ 90% Closed

Slotted Guide-Pole/Sample Well
(8" Slotted Pole, 21" Dia. Well)
_____ Ungasketed Sliding Cover, without Float
_____ Ungasketed Sliding Cover, with Float
_____ Gasketed Sliding Cover, without Float
_____ Gasketed Sliding Cover, with Float

Roof Leg (3" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

Roof Leg (2 ½" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

15. For Internal Floating Roof tanks: "Not Applicable"

A. Rim Seal system description:

_____ Liquid Mounted Primary
_____ Vapor Mounted Primary
_____ Liquid Mounted Primary plus Secondary Seal
_____ Vapor Mounted Primary plus Secondary Seal

B. Number of Columns: _____

C. Effective Column diameter: _____ (Feet)

D. Deck Type (check one): _____ Welded _____ Bolted

E. Total Deck Seam length: _____ (Feet)

F. Deck Area: _____ (Square Feet)

G. Deck Fitting types (indicate the number of each type):

Access Hatch (24" Dia)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Automatic Gauge Float Well
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Column Well
____ Built-up Column-Sliding cover, gasketed
____ Built-up Column-Sliding cover, ungasketed
____ Pipe Column-Flexible fabric sleeve seal
____ Pipe Column-Sliding cover, gasketed
____ Pipe Column-Sliding cover, ungasketed

Ladder well
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Sample Pipe and Well
_____ Slotted Pipe-Sliding cover, gasketed
_____ Slotted Pipe-Sliding cover, ungasketed
_____ Sample Well-Slit fabric seal, 10% open area
_____ Stub Drain, 1 inch diameter

Roof Leg or Hanger Well
_____ Adjustable
_____ Fixed

Vacuum Breaker

_____ Weighted Mechanical Actuation, gasketed
_____ Weighted Mechanical Actuation, ungasketed

16. For variable vapor space tanks:

Volume expansion capacity N/A (Gallons)

TANK CONTENTS AND OPERATION DESCRIPTION

17. Complete the flowing table for materials to be stored in this tank:

Material or component stored	Wt. %	Material Annual Throughput (Gal./Yr.)	Material stored Daily Average (Gallons)	Component Molecular weights (Lb./Lb. Mole)	Component Vapor Pressures (PSIA)	Material storage pressure(PSIA)	Material average storage temp. (Deg. F)
Ethyl Acetate	80.3	20,000	1,200	60.11	3.27	Atmospheric	Ambient
Acetone	17	4,234	250	58.9	3.34	Atmospheric	Ambient
Water	2.7	672	40	18	0.33	Atmospheric	Ambient

Multipurpose tank with variable composition:

_____ Yes X No

18. Describe the operation this tank will serve:

Ethyl Acetate was purchased for trial use as possible replacement for HM Solvent Blend as a cleaning solvent for color tub washing.

19. Page number: APC 6.5 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
STORAGE TANKS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. **Process emission source (identify):** Vent T34

STORAGE TANK DESCRIPTION

3. Storage tank identification: Tank T34
4. Location of the storage tank or tank farm in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00
5. Storage tank capacity: 10,000 (Gallons)
6. Year of installation: 1974
7. Tank height: 10.5 (Feet)
8. Tank diameter: 7.00 (Feet)
9. Color of tank: _____ White ~~X~~ Other Specify ~~Silver~~
10. Is this tank equipped with a submerged fill pipe? _____ Yes __X__ No
11. Type of storage tank:

_____ Open top tank	__X__ Fixed roof	_____ Fixed roof w/internal floating roof	_____ Other (specify)
_____ Pressurized tank	_____ External floating roof	_____ Variable vapor space	_____

12. For fixed roof tanks:
    A. Tank configuration (check one):: _____ Vertical (upright cylinder) __X__ Horizontal
    B. Tank roof type: (check one) N/A Cone roof – indicate tank roof height N/A (ft)
    _____ Dome roof – indicate tank roof height N/A (ft)
    Indicate shell radius 3.50 (ft)

FLOATING ROOF TANK DESCRIPTION

13. For Floating Rook tanks (both internal and external) – shell condition (check one):
    _____ Light rust _____ Dense rust _____ Gunite lined "Not Applicable"
14. For External Floating Roof tanks: "Not Applicable"
    A. Tank construction (check one): _____ Welded tank _____ Riveted tank
    B. Rim Seal system description (check one):

_____ Shoe Mounted Primary	_____ Vapor Mounted Primary	_____ Liquid Mounted Primary
_____ Shoe Primary, Rim Secondary	_____ Vapor Primary, Rim Secondary	_____ Liquid Primary, Rim Secondary
_____ Liquid Primary w/Weather Shield	_____ Shoe Primary and Secondary	_____ Vapor Primary w/Weather Shield

    C. Roof type (check one): : _____ Pontoon roof _____ Double Deck roof
    D. Roof fitting types (indicate the number of each type):

Access Hatch (24" Diameter well)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Unslotted Guide-Pole Well
(8" Diameter Unslotted Pole, 21" Dia. Well)
_____ Ungasketed sliding cover
_____ Gasketed sliding cover

Gauge-Float Well (20" Diameter)
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed
_____ Bolted cover. gasketed

Gauge-Hatch/Sample Well (8" Dia.)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Vacuum Breaker (10" Dia Well)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Roof Drain
_____ Open
_____ 90% Closed

Slotted Guide-Pole/Sample Well
(8" Slotted Pole, 21" Dia. Well)
_____ Ungasketed Sliding Cover, without Float
_____ Ungasketed Sliding Cover, with Float
_____ Gasketed Sliding Cover, without Float
_____ Gasketed Sliding Cover, with Float

Roof Leg (3" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

Roof Leg (2 ½" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

15. For Internal Floating Roof tanks: "Not Applicable"

A. Rim Seal system description:

_____ Liquid Mounted Primary
_____ Vapor Mounted Primary
_____ Liquid Mounted Primary plus Secondary Seal
_____ Vapor Mounted Primary plus Secondary Seal

B. Number of Columns: _____

C. Effective Column diameter: _____ (Feet)

D. Deck Type (check one): _____ Welded _____ Bolted

E. Total Deck Seam length: _____ (Feet)

F. Deck Area: _____ (Square Feet)

G. Deck Fitting types (indicate the number of each type):

Access Hatch (24" Dia.)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Automatic Gauge Float Well
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Column Well
____ Built-up Column-Sliding cover, gasketed
____ Built-up Column-Sliding cover, ungasketed
____ Pipe Column-Flexible fabric sleeve seal
____ Pipe Column-Sliding cover, gasketed
____ Pipe Column-Sliding cover, ungasketed

Ladder well
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Sample Pipe and Well
_____ Slotted Pipe-Sliding cover, gasketed
_____ Slotted Pipe-Sliding cover, ungasketed
_____ Sample Well-Slit fabric seal, 10% open area
_____ Stub Drain, 1 inch diameter

Roof Leg or Hanger Well
_____ Adjustable
_____ Fixed

Vacuum Breaker

_____ Weighted Mechanical Actuation, gasketed
_____ Weighted Mechanical Actuation, ungasketed

16. For variable vapor space tanks:

Volume expansion capacity N/A (Gallons)

TANK CONTENTS AND OPERATION DESCRIPTION

17. Complete the flowing table for materials to be stored in this tank:

Material or component stored	Wt. %	Material Annual Throughput (Gal./Yr.)	Material stored Daily Average (Gallons)	Component Molecular weights (Lb./Lb. Mole)	Component Vapor Pressures (PSIA)	Material storage pressure(PSIA)	Material average storage temp. (Deg. F)
Isopropanol	20	20,000	600	60.11	0.591	Atmospheric	Ambient
Toluene	60	60,000	1,800	92.14	0.684	Atmospheric	Ambient
Acetone	16	16,000	480	58.9	3.340	Atmospheric	Ambient
Isopropyl Acetate	4	4,000	120	102.14	0.856	Atmospheric	Ambient

Multipurpose tank with variable composition:

_____ Yes X No

18. Describe the operation this tank will serve:

HM Blend is a formulated blend of solvents. These solvents are blended together prior to shipment and delivery at Holliston. The HM Blend is used to cut Nitrocellulose Fibers into a usable resin coating (Jelly).

THIS TANK IS NOT IN USE AT THIS TIME

19. Page number: APC 6.6 | Revision Number: 1 | Date of Revision: November 23, 2021

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
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312 Rosa L. Parks Avenue, 15th Floor
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TITLE V PERMIT APPLICATION
STORAGE TANKS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. **Process emission source (identify):** Vent T35

STORAGE TANK DESCRIPTION

3. Storage tank identification: Tank T35
4. Location of the storage tank or tank farm in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

5. Storage tank capacity:	6. Year of installation:	7. Tank height	8. Tank diameter:
10,000 (Gallons)	1974	10.5 ± (Feet)	7.00 ± (Feet)

9. Color of tank: _____ White ~~X~~ Other Specify ~~Silver~~

10. Is this tank equipped with a submerged fill pipe? _____ Yes __X__ No

11. Type of storage tank:

_____ Open top tank __X__ Fixed roof _____ Fixed roof w/internal floating roof _____ Other (specify)
_____ Pressurized tank _____ External floating roof _____ Variable vapor space _____

12. For fixed roof tanks:
A. Tank configuration (check one):: _____ Vertical (upright cylinder) __X__ Horizontal
B. Tank roof type: N/A Cone roof – indicate tank roof height N/A (ft)
(check one) _____ Dome roof – indicate tank roof height N/A (ft)
Indicate shell radius 3.50 (ft)

FLOATING ROOF TANK DESCRIPTION

13. For Floating Rook tanks (both internal and external) – shell condition (check one):
_____ Light rust _____ Dense rust _____ Gunite lined "Not Applicable"

14. For External Floating Roof tanks: "Not Applicable"

A. Tank construction (check one): _____ Welded tank _____ Riveted tank

B. Rim Seal system description (check one):
_____ Shoe Mounted Primary _____ Vapor Mounted Primary _____ Liquid Mounted Primary
_____ Shoe Primary, Rim Secondary _____ Vapor Primary, Rim Secondary _____ Liquid Primary, Rim Secondary
_____ Liquid Primary w/Weather Shield _____ Shoe Primary and Secondary _____ Vapor Primary w/Weather Shield

C. Roof type (check one): : _____ Pontoon roof _____ Double Deck roof

D. Roof fitting types (indicate the number of each type):

Access Hatch (24" Diameter well)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Unslotted Guide-Pole Well
(8" Diameter Unslotted Pole, 21" Dia. Well)
_____ Ungasketed sliding cover
_____ Gasketed sliding cover

Gauge-Float Well (20" Diameter)
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed
_____ Bolted cover, gasketed

Gauge-Hatch/Sample Well (8" Dia.)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Vacuum Breaker (10" Dia. Well)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Roof Drain
_____ Open
_____ 90% Closed

Slotted Guide-Pole/Sample Well
(8" Slotted Pole, 21" Dia. Well)
_____ Ungasketed Sliding Cover, without Float
_____ Ungasketed Sliding Cover, with Float
_____ Gasketed Sliding Cover, without Float
_____ Gasketed Sliding Cover, with Float

Roof Leg (3" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

Roof Leg (2 ½" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

15. For Internal Floating Roof tanks: "Not Applicable"

A. Rim Seal system description:

_____ Liquid Mounted Primary
_____ Vapor Mounted Primary
_____ Liquid Mounted Primary plus Secondary Seal
_____ Vapor Mounted Primary plus Secondary Seal

B. Number of Columns: _____

C. Effective Column diameter: _____ (Feet)

D. Deck Type (check one): _____ Welded _____ Bolted

E. Total Deck Seam length: _____ (Feet)

F. Deck Area: _____ (Square Feet)

G. Deck Fitting types (indicate the number of each type):

Access Hatch (24" Dia.)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Automatic Gauge Float Well
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Column Well
____ Built-up Column-Sliding cover, gasketed
____ Built-up Column-Sliding cover, ungasketed
____ Pipe Column-Flexible fabric sleeve seal
____ Pipe Column-Sliding cover, gasketed
____ Pipe Column-Sliding cover, ungasketed

Ladder well
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Sample Pipe and Well
_____ Slotted Pipe-Sliding cover, gasketed
_____ Slotted Pipe-Sliding cover, ungasketed
_____ Sample Well-Slit fabric seal, 10% open area
_____ Stub Drain, 1 inch diameter

Roof Leg or Hanger Well
_____ Adjustable
_____ Fixed

Vacuum Breaker

_____ Weighted Mechanical Actuation, gasketed
_____ Weighted Mechanical Actuation, ungasketed

16. For variable vapor space tanks:

Volume expansion capacity N/A (Gallons)

TANK CONTENTS AND OPERATION DESCRIPTION

17. Complete the flowing table for materials to be stored in this tank:

Material or component stored	Wt. %	Material Annual Throughput (Gal./Yr.)	Material stored Daily Average (Gallons)	Component Molecular weights (Lb./Lb. Mole)	Component Vapor Pressures (PSIA)	Material storage pressure(PSIA)	Material average storage temp. (Deg. F)
Isopropanol	20	20,000	600	60.11	0.591	Atmospheric	Ambient
Toluene	60	60,000	1,800	92.14	0.684	Atmospheric	Ambient
Acetone	16	16,000	480	58.9	3.340	Atmospheric	Ambient
Isopropyl Acetate	4	4,000	120	102.14	0.856	Atmospheric	Ambient

Multipurpose tank with variable composition:

_____ Yes X No

18. Describe the operation this tank will serve:

HM Blend is a formulated blend of solvents. These solvents are blended together prior to shipment and delivery at Holliston. The HM Blend is used to cut Nitrocellulose Fibers into a usable resin coating (Jelly).

THIS TANK IS NOT IN USE AT THIS TIME

19. Page number: APC 6.7 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
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312 Rosa L. Parks Avenue, 15th Floor
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Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
STORAGE TANKS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. **Process emission source (identify):** Vent T44

STORAGE TANK DESCRIPTION

3. Storage tank identification: Tank T44
4. Location of the storage tank or tank farm in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

5. Storage tank capacity:	6. Year of installation:	7. Tank height	8. Tank diameter:
43,658 (Gallons)	1961	12 ± (Feet)	25.00 ± (Feet)

9. Color of tank: _____ White ~~X~~ Other Specify ~~Silver~~
10. Is this tank equipped with a submerged fill pipe? _____ Yes __X__ No
11. Type of storage tank:

_____Open top tank __X__Fixed roof _____Fixed roof w/internal floating roof _____Other (specify)
_____Pressurized tank _____External floating roof _____Variable vapor space _____

12. For fixed roof tanks:
    A. Tank configuration (check one):: __X__ Vertical (upright cylinder) _____Horizontal
    B. Tank roof type: N/A Cone roof – indicate tank roof height N/A (ft)
    (check one) N/A Dome roof – indicate tank roof height N/A (ft)
    Indicate shell radius 12.5 (ft)

FLOATING ROOF TANK DESCRIPTION

13. For Floating Rook tanks (both internal and external) – shell condition (check one):
_____ Light rust _____ Dense rust _____ Gunite lined "Not Applicable"

14. For External Floating Roof tanks: "Not Applicable"

A. Tank construction (check one): _____ Welded tank _____ Riveted tank

B. Rim Seal system description (check one):
_____Shoe Mounted Primary _____Vapor Mounted Primary _____Liquid Mounted Primary
_____Shoe Primary, Rim Secondary _____Vapor Primary, Rim Secondary _____Liquid Primary, Rim Secondary
_____Liquid Primary w/Weather Shield _____Shoe Primary and Secondary _____Vapor Primary w/Weather Shield

C. Roof type (check one): : _____ Pontoon roof _____ Double Deck roof

D. Roof fitting types (indicate the number of each type):

Access Hatch (24" Diameter well)
_____Bolted cover, gasketed
_____Unbolted cover, gasketed
_____Unbolted cover, ungasketed

Unslotted Guide-Pole Well
(8" Diameter Unslotted Pole, 21" Dia. Well)
_____Ungasketed sliding cover
_____Gasketed sliding cover

Gauge-Float Well (20" Diameter)
_____Unbolted cover, ungasketed
_____Unbolted cover, gasketed
_____Bolted cover, gasketed

Gauge-Hatch/Sample Well (8" Dia.)
_____Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Vacuum Breaker (10" Dia. Well)
_____Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Roof Drain
_____Open
_____ 90% Closed

Slotted Guide-Pole/Sample Well
(8" Slotted Pole, 21" Dia. Well)
_____Ungasketed Sliding Cover, without Float
_____Ungasketed Sliding Cover, with Float
_____Gasketed Sliding Cover, without Float
_____ Gasketed Sliding Cover, with Float

Roof Leg (3" Dia.)
_____Adjustable, Pontoon area
_____Adjustable, Center area
_____Adjustable, Double-Deck roofs
_____Fixed

Roof Leg (2 ½" Dia.)
_____Adjustable, Pontoon area
_____Adjustable, Center area
_____Adjustable, Double-Deck roofs
_____Fixed

15. For Internal Floating Roof tanks: "Not Applicable"

A. Rim Seal system description:

_____ Liquid Mounted Primary
_____ Vapor Mounted Primary
_____ Liquid Mounted Primary plus Secondary Seal
_____ Vapor Mounted Primary plus Secondary Seal

B. Number of Columns: _____

C. Effective Column diameter: _____(Feet)

D. Deck Type (check one): _____ Welded _____ Bolted

E. Total Deck Seam length: _____(Feet)

F. Deck Area: _____(Square Feet)

G. Deck Fitting types (indicate the number of each type):

Access Hatch (24" Dia.)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Automatic Gauge Float Well
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Column Well
____ Built-up Column-Sliding cover, gasketed
____ Built-up Column-Sliding cover, ungasketed
____ Pipe Column-Flexible fabric sleeve seal
____ Pipe Column-Sliding cover, gasketed
____ Pipe Column-Sliding cover, ungasketed

Ladder well
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Sample Pipe and Well
_____ Slotted Pipe-Sliding cover, gasketed
_____ Slotted Pipe-Sliding cover, ungasketed
_____ Sample Well-Slit fabric seal, 10% open area
_____ Stub Drain, 1 inch diameter

Roof Leg or Hanger Well
_____ Adjustable
_____ Fixed

Vacuum Breaker

_____ Weighted Mechanical Actuation, gasketed
_____ Weighted Mechanical Actuation, ungasketed

16. For variable vapor space tanks:

Volume expansion capacity N/A (Gallons)

TANK CONTENTS AND OPERATION DESCRIPTION

17. Complete the flowing table for materials to be stored in this tank:

Material or component stored	Wt. %	Material Annual Throughput (Gal /Yr.)	Material stored Daily Average (Gallons)	Component Molecular weights (Lb./Lb. Mole)	Component Vapor Pressures (PSIA)	Material storage pressure(PSIA)	Material average storage temp. (Deg. F)
#2 Fuel Oil	100	0	0	Not Applicable	<0.1	Atmospheric	Ambient
#4 Fuel Oil	100	500,000	24,400	Not Applicable	<0.1	Atmospheric	Ambient
#6 Fuel Oil	100	0	0	Not Applicable	<0.1	Atmospheric	Ambient

Multipurpose tank with variable composition:

_____ Yes X No

18. Describe the operation this tank will serve:

Storage for fuel oil for boilers.

BOILERS ARE FIRED ONLY WITH NATURAL GAS AT THIS TIME

19. Page number: APC 6.8 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
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312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243
Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
STORAGE TANKS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. **Process emission source (identify):** Vent T48

STORAGE TANK DESCRIPTION

3. Storage tank identification: Tank T48
4. Location of the storage tank or tank farm in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

5. Storage tank capacity:	6. Year of installation:	7. Tank height	8. Tank diameter:
10,000 (Gallons)	1968	18.00 ± (Feet)	10.00 ± (Feet)

9. Color of tank: _____ White ~~X~~ Other Specify ~~Tan~~

10. Is this tank equipped with a submerged fill pipe? _____ Yes __X__ No

11. Type of storage tank:

_____ Open top tank X Fixed roof _____ Fixed roof w/internal floating roof _____ Other (specify)
_____ Pressurized tank _____ External floating roof _____ Variable vapor space _____

12. For fixed roof tanks:
A. Tank configuration (check one):: _____ Vertical (upright cylinder) X Horizontal
B. Tank roof type: N/A Cone roof – indicate tank roof height N/A (ft)
(check one) N/A Dome roof – indicate tank roof height N/A (ft)
Indicate shell radius 5.0 (ft)

FLOATING ROOF TANK DESCRIPTION

13. For Floating Rook tanks (both internal and external) – shell condition (check one):
_____ Light rust _____ Dense rust _____ Gunite lined "Not Applicable"

14. For External Floating Roof tanks: "Not Applicable"

A. Tank construction (check one): _____ Welded tank _____ Riveted tank

B. Rim Seal system description (check one):

_____ Shoe Mounted Primary
_____ Shoe Primary, Rim Secondary
_____ Liquid Primary w/Weather Shield
_____ Vapor Mounted Primary
_____ Vapor Primary, Rim Secondary
_____ Shoe Primary and Secondary
_____ Liquid Mounted Primary
_____ Liquid Primary, Rim Secondary
_____ Vapor Primary w/Weather Shield

C. Roof type (check one): : _____ Pontoon roof _____ Double Deck roof

D. Roof fitting types (indicate the number of each type):

Access Hatch (24" Diameter well)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Unslotted Guide-Pole Well
(8" Diameter Unslotted Pole, 21" Dia. Well)
_____ Ungasketed sliding cover
_____ Gasketed sliding cover

Gauge-Float Well (20" Diameter)
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed
_____ Bolted cover, gasketed

Gauge-Hatch/Sample Well (8" Dia.)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Vacuum Breaker (10" Dia. Well)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Roof Drain
_____ Open
_____ 90% Closed

Slotted Guide-Pole/Sample Well
(8" Slotted Pole, 21" Dia. Well)
_____ Ungasketed Sliding Cover, without Float
_____ Ungasketed Sliding Cover, with Float
_____ Gasketed Sliding Cover, without Float
_____ Gasketed Sliding Cover, with Float

Roof Leg (3" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

Roof Leg (2 ½" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

15. For Internal Floating Roof tanks: "Not Applicable"

A. Rim Seal system description:

_____ Liquid Mounted Primary
_____ Vapor Mounted Primary
_____ Liquid Mounted Primary plus Secondary Seal
_____ Vapor Mounted Primary plus Secondary Seal

B. Number of Columns: _____

C. Effective Column diameter: _____(Feet)

D. Deck Type (check one): _____ Welded _____ Bolted

E. Total Deck Seam length: _____(Feet)

F. Deck Area: _____(Square Feet)

G. Deck Fitting types (indicate the number of each type):

Access Hatch (24" Dia.)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Automatic Gauge Float Well
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Column Well
____ Built-up Column-Sliding cover, gasketed
____ Built-up Column-Sliding cover, ungasketed
____ Pipe Column-Flexible fabric sleeve seal
____ Pipe Column-Sliding cover, gasketed
____ Pipe Column-Sliding cover, ungasketed

Ladder well
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Sample Pipe and Well
_____ Slotted Pipe-Sliding cover, gasketed
_____ Slotted Pipe-Sliding cover, ungasketed
_____ Sample Well-Slit fabric seal, 10% open area
_____ Stub Drain, 1 inch diameter

Roof Leg or Hanger Well
_____ Adjustable
_____ Fixed

Vacuum Breaker

_____ Weighted Mechanical Actuation, gasketed
_____ Weighted Mechanical Actuation, ungasketed

16. For variable vapor space tanks:

Volume expansion capacity N/A (Gallons)

TANK CONTENTS AND OPERATION DESCRIPTION

17. Complete the flowing table for materials to be stored in this tank:

Material or component stored	Wt. %	Material Annual Throughput (Gal./Yr.)	Material stored Daily Average (Gallons)	Component Molecular weights (Lb./Lb. Mole)	Component Vapor Pressures (PSIA)	Material storage pressure(PSIA)	Material average storage temp. (Deg. F)
Airflex A-144	100	87,000	3,000	Not Applicable	<0.36	Atmospheric	70 deg

Multipurpose tank with variable composition:

_____ Yes X No

18. Describe the operation this tank will serve:

Airflex A-144 is a predispersed resin emulsion that is delivered to Holliston for use by production personnel.

19. Page number: APC 6.9 Revision Number: 1 Date of Revision: November 23, 2021

State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
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TITLE V PERMIT APPLICATION
STORAGE TANKS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. **Process emission source (identify):** Vent T49

STORAGE TANK DESCRIPTION

3. Storage tank identification: Tank T49
4. Location of the storage tank or tank farm in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal 36 30 00

5. Storage tank capacity:	6. Year of installation:	7. Tank height	8. Tank diameter:
10,000 (Gallons)	1968	17.00 ± (Feet)	10.00 ± (Feet)

9. Color of tank: _____ White __X__ Other Specify Tan

10. Is this tank equipped with a submerged fill pipe? _____ Yes __X__ No

11. Type of storage tank:

_____ Open top tank
__X__ Fixed roof
_____ Fixed roof w/internal floating roof
_____ Other (specify)
_____ Pressurized tank
_____ External floating roof
_____ Variable vapor space
_____

12. For fixed roof tanks:
A. Tank configuration (check one):: _____ Vertical (upright cylinder) __X__ Horizontal
B. Tank roof type: (check one) N/A Cone roof – indicate tank roof height N/A (ft)
N/A Dome roof – indicate tank roof height N/A (ft)
Indicate shell radius 5.0 (ft)

FLOATING ROOF TANK DESCRIPTION

13. For Floating Rook tanks (both internal and external) – shell condition (check one):
_____ Light rust _____ Dense rust _____ Gunite lined "Not Applicable"

14. For External Floating Roof tanks: "Not Applicable"

A. Tank construction (check one): _____ Welded tank _____ Riveted tank

B. Rim Seal system description (check one):
_____ Shoe Mounted Primary
_____ Shoe Primary, Rim Secondary
_____ Liquid Primary w/Weather Shield
_____ Vapor Mounted Primary
_____ Vapor Primary, Rim Secondary
_____ Shoe Primary and Secondary
_____ Liquid Mounted Primary
_____ Liquid Primary, Rim Secondary
_____ Vapor Primary w/Weather Shield

C. Roof type (check one): : _____ Pontoon roof _____ Double Deck roof

D. Roof fitting types (indicate the number of each type):

Access Hatch (24" Diameter well)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Unslotted Guide-Pole Well
(8" Diameter Unslotted Pole, 21" Dia. Well)
_____ Ungasketed sliding cover
_____ Gasketed sliding cover

Gauge-Float Well (20" Diameter)
_____ Unbolted cover, ungasketed
_____ Unbolted cover, gasketed
_____ Bolted cover, gasketed

Gauge-Hatch/Sample Well (8" Dia.)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Vacuum Breaker (10" Dia Well)
_____ Weighted Mechanical Actuation Gasketed
_____ Weighted Mechanical Actuation Ungasketed

Roof Drain
_____ Open
_____ 90% Closed

Slotted Guide-Pole/Sample Well
(8" Slotted Pole, 21" Dia. Well)
_____ Ungasketed Sliding Cover, without Float
_____ Ungasketed Sliding Cover, with Float
_____ Gasketed Sliding Cover, without Float
_____ Gasketed Sliding Cover, with Float

Roof Leg (3" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

Roof Leg (2 ½" Dia.)
_____ Adjustable, Pontoon area
_____ Adjustable, Center area
_____ Adjustable, Double-Deck roofs
_____ Fixed

15. For Internal Floating Roof tanks: "Not Applicable"

A. Rim Seal system description:

_____ Liquid Mounted Primary
_____ Vapor Mounted Primary
_____ Liquid Mounted Primary plus Secondary Seal
_____ Vapor Mounted Primary plus Secondary Seal

B. Number of Columns: _____

C. Effective Column diameter: _____ (Feet)

D. Deck Type (check one): _____ Welded _____ Bolted

E. Total Deck Seam length: _____ (Feet)

F. Deck Area: _____ (Square Feet)

G. Deck Fitting types (indicate the number of each type):

Access Hatch (24" Dia.)
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Automatic Gauge Float Well
_____ Bolted cover, gasketed
_____ Unbolted cover, gasketed
_____ Unbolted cover, ungasketed

Column Well
____ Built-up Column-Sliding cover, gasketed
____ Built-up Column-Sliding cover, ungasketed
____ Pipe Column-Flexible fabric sleeve seal
____ Pipe Column-Sliding cover, gasketed
____ Pipe Column-Sliding cover, ungasketed

Ladder well
_____ Sliding cover, gasketed
_____ Sliding cover, ungasketed

Sample Pipe and Well
_____ Slotted Pipe-Sliding cover, gasketed
_____ Slotted Pipe-Sliding cover, ungasketed
_____ Sample Well-Slit fabric seal, 10% open area
_____ Stub Drain, 1 inch diameter

Roof Leg or Hanger Well
_____ Adjustable
_____ Fixed

Vacuum Breaker

_____ Weighted Mechanical Actuation, gasketed
_____ Weighted Mechanical Actuation, ungasketed

16. For variable vapor space tanks:

Volume expansion capacity N/A (Gallons)

TANK CONTENTS AND OPERATION DESCRIPTION

17. Complete the flowing table for materials to be stored in this tank:

Material or component stored	Wt. %	Material Annual Throughput (Gal./Yr.)	Material stored Daily Average (Gallons)	Component Molecular weights (Lb./Lb. Mole)	Component Vapor Pressures (PSIA)	Material storage pressure(PSIA)	Material average storage temp. (Deg. F)
Clay Slurry	70	33,000	3,000	258	<0.1	Atmospheric	70 deg
Water	30	14,142	1,286	18	0.33	Atmospheric	70 deg

Multipurpose tank with variable composition:

_____ Yes X No

18. Describe the operation this tank will serve:

Clay Slurry is used in aqueous formulations in the Plastics Department.

19. Page number: APC 6.10 | Revision Number: 1 | Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
INCINERATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. **Incinerator identification:** "Not Applicable" to Holliston Operations

INCINERATOR DESCRIPTION

3. Incinerator description: "Not Applicable"
4. Stack ID or flowdiagram point identification (s):

If this incinerator is controlled for compliance utilizing add-on control equipment, attach an appropriate Air Pollution Control system form.

5. Location of this incinerator in UTM coordinates: UTM Vertical: _____ UTM Horizontal: _____
6. Normal operating schedule: _____ Hrs./Day _____ Days/Wk. _____ Days/Yr.

If this incinerator's emissions and/or operations are monitored for compliance, please attach the appropriate compliance demonstration form.

7. Type of incinerator (check one):

_____ Single chamber _____ Controlled air _____ Multiple chamber _____ Fixed hearth

_____ Stepped hearth _____ Rotary kiln _____ Other - specify: _____

8. Year of construction or last modification:

MATERIALS AND COMBUSTION INFORMATION

9. Describe all types of materials to be burned in this unit. (Declare materials stated in 1200-3-31-.02(6) of the TN Air Pollution Control regulations and identify)

Types of materials to be burned	Weight percentage of total charge	Heating value

10. Type of incinerator charging:

A. _____ Batch feed _____ Continuous feed B. Maximum charging rate: _____ Lbs./Hr.

C. Waste charging method: _____

11. Type of Chamber; Combustion information	Design temperature (°F)	Size (Million BTU/Hr.)	Burner Fuels
Primary chamber			
Secondary chamber			

12. Residence time of gas in the secondary chamber:
13. If this incinerator is equipped with a heat recovery system, what is the projected energy production rate? (i.e. pounds of steam per hour)
14. If this incinerator is regulated under RCRA, please provide the permit number (the waste materials burned in RCRA permitted incinerator (s) are not required to be included in Item 9 above)

15. Page number: APC 7.1 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PRINTING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:**
Holliston Holdings, LLC

2. Process description:
Source 37-0001-10, #6 Print Machine/Coater #6; Woven and non-woven materials are surface coated with water and/or solvent based coatings

3. Year of construction or last modification:
Unknown - No manufacturer nameplate data available on this machine

4. Stack ID or flow diagram point identification (s):
P3F, P4F, P5F, P5aF

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule: 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.

6. Location of this operation in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

7. Operation type: ____ Flexographic ____ Web – offset ____ Web – offset (non – heatset) ____ Packaging Rotogravure ____ Publication Rotogravue
____ Screen Printing x Other (Specify): Gravure Roll

INKS AND SOLVENTS

8. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify inks and solvents: (name or type of ink)	Daily usage: Gallons or pounds		Monthly Usage	Coating composition: Weight percent as applied				Ink density
				Solids	Solvents (VOCs)	Water	Exempt Solvents	
	Average	Maximum	Maximum	Wt. %	Wt. %	Wt. %	Wt. %	Lbs./Gal.
Print Solvent Based	26 gals	79 gals	2,401 gals	7.219	89.313	3.468	0	7.17
Print Aqueous Based	26 gals	79 gals	2,401 gals	N/A	N/A	N/A	N/A	N/A
Total inks	52 gals	158 gals	4,802 gals					
List the Thinning Solvents used with the inks identified above:								
(1): Methyl isobutyl ketone	60 gals	180 gals	5,409 gals		99.9	0.1		6.68
(2):								
Clean-up solvents: HM Blend	4 gals	20 gals	608.4 gals	0	84	0	16	7.1
Other (specify):								

9. Page number: APC 8.1 Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: **Holliston Holdings, LLC**
2. Process description: **Source 37-0001-10, Coater #3; Woven and non-woven materials are surface coated with water-based coatings**
3. Year of construction or last modification: Unknown - No manufacturer name plate available
4. Stack ID or flowdiagram point identification (s): P6aF, P6F, P7F, P8F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00
7. Oven curing (complete if applicable) Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 210 +/- 10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU
8. Application technique and transfer efficiency (%): Blade

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt	Lbs./Gal.	Lbs./Gal.
Back Coat Aqueous based	827	25,155	1,113		37.359	0.040		62.601		0	0.010	9.56
Clear Coat Aqueous based	942	28,641	679		19.343	1.346		79.311		0	0.570	8.86
Coating Aqueous based	4,426	134,644	3,200		55.060	0.311		44.629		0	0.058	10.34
*** Continued on page APC 9.1b ***												
Total coatings												
List the Thinning Solvents used with the coatings identified above:												
(1):												
(2):												
Clean-up solvents:												
Other (specify):												

10. Page number: APC 9.1a Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: **Hollston Holdings, LLC**
2. Process description: **Source 37-0001-10, Coater #3 - Woven and non-woven materials are surface coated with water-based coatings** *** Continued from Page APC 9.1a ***
3. Year of construction or last modification: Unknown - No manufacturer name plate available
4. Stack ID or flow diagram point identification (s): P6aF, P6F, P7F, P8F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00
7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 210 +/- 10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU
8. Application technique and transfer efficiency (%): Blade

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Tie Coat Aqueous based	196	5,969	1,040		57.837	0.255		41.908		0	0.043	9.76
Top Coat Aqueous based	1,251	38,040	193		55.863	0.017		44.120		0	0.003	11.36
Over Print Solvent based	79	2,401	0		N/A	N/A		N/A		N/A	N/A	N/A
Over Print Aqueous based	79	2,401	0		N/A	N/A		N/A		N/A	N/A	N/A
Total coatings	7,800	237,251	6,225									
List the Thinning Solvents used with the coatings identified above:												
(1): HM Blend	3	90	30		0	84		0		16	5.964	N/A
(2):												
Clean-up solvents: HM Blend	16	487	487		0	84		0		16	5.964	N/A
Other (specify):												

10. Page number: APC 9.1b Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. Process description: **Source 37-0001-10, Coater #4 - Woven and non-woven materials are surface coated with water-based and/or solvent-based coatings**
3. Year of construction or last modification: 1963
4. Stack ID or flow diagram point identification (s): P9F, P10F, P11F, P11aF

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82.45.00 UTM Horizontal: 36.30.00
7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 210 +/- 10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU
8. Application technique and transfer efficiency (%): Blade and/or Air Knife

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Back Coat Aqueous based	827	25,155	1,113		37.359	0.040		62.601		0	0.010	9.56
Clear Coat Aqueous based	942	28,641	679		19.343	1.346		79.311		0	0.570	8.86
Coating Aqueous based	4,426	134,644	3,200		55.060	0.311		44.629		0	0.058	10.34
*** Continued on page APC 9.2b ***												
Total coatings												
List the Thinning Solvents used with the coatings identified above:												
(1):												
(2):												
Clean-up solvents:												
Other (specify):												

10. Page number: APC 9.2a Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Hollston Holdings LLC
2. Process description: **Source 37-0001-10, Coater #4 - Woven and non-woven materials are surface coated with water-based and/or solvent-based coatings** *** Continued from Page APC 9.2a ***
3. Year of construction or last modification: Unknown - No manufacturer name plate available
4. Stack ID or flow diagram point identification (s): P9F, P10F, P11F, P11aF

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82.45.00 UTM Horizontal: 36.30.00
7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 210 +/- 10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU
8. Application technique and transfer efficiency (%): Blade, Meyer Rod, and/or Air Knife

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Tie Coat Aqueous based	196	5,969	1,040		57.837	0.255		41.908		0	0.043	9.76
Top Coat Aqueous based	1,251	38,040	193		55.863	0.017		44.120		0	0.003	
Over Print Solvent based	79	2,401	0		N/A	N/A		N/A		N/A	N/A	N/A
Over Print Aqueous based	79	2,401	0		N/A	N/A		N/A		N/A	N/A	N/A
Total coatings	7,800	237,251	6,225									
List the Thinning Solvents used with the coatings identified above:												
(1): HM Blend	3	90	30		0	84		0		16	5.964	N/A
(2):												
Clean-up solvents: HM Blend	16	487	487		0	84		0		16	5.964	N/A
Other (specify):												

10. Page number: APC 9.2b Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: **Hollston Holdings, LLC**
2. Process description: **Source 37-0001-10, Coater #6 - Woven and non-woven materials are surface coated with water-based and/or solvent-based coatings**
3. Year of construction or last modification: 1964
4. Stack ID or flow diagram point identification (s): P12F, P13F, P14F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00
7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 210 +/- 10%
   Specify oven fuels: **Natural Gas** Total maximum heat input to each oven: **10,000,000 BTU**
8. Application technique and transfer efficiency (%): **Blade**

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Back Coat Aqueous based	827	25,155	1,113		37.359	0.040		62.601		0	0.010	9.56
Clear Coat Aqueous based	942	28,641	679		19.343	1.346		79.311		0	0.570	8.86
Coating Aqueous based	4,426	134,644	3,200		55.060	0.311		44.629		0	0.058	10.34
*** Continued on page APC 9.3b ***												
Total coatings												
List the Thinning Solvents used with the coatings identified above:												
(1):												
(2):												
Clean-up solvents:												
Other (specify):												

10. Page number: APC 9.3a Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: **Holliston Holdings, LLC**
2. Process description: **Source 37-0001-10, Coater #5 - Woven and non-woven materials are surface coated with water-based and/or solvent-based coatings** *** Continued from Page APC 9.3a ***
3. Year of construction or last modification: Unknown - No manufacturer name plate available
4. Stack ID or flow diagram point identification (s): P12F, P13F, P14F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82.45.00 UTM Horizontal: 36.30.00
7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 210 +/- 10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU
8. Application technique and transfer efficiency (%): Blade

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Tie Coat Aqueous based	196	5,969	1,040		57.837	0.255		41.908		0	0.043	9.76
Top Coat Aqueous based	1,251	38,040	193		55.863	0.017		44.120		0	0.003	11.36
Over Print Solvent based	79	2,401	0		N/A	N/A		N/A		N/A	N/A	N/A
Over Print Aqueous based	79	2,401	0		N/A	N/A		N/A		N/A	N/A	N/A
Total coatings	7,800	237,251	6,225									
List the Thinning Solvents used with the coatings identified above:												
(1): HM Blend	3	90	30		0	84		0		16	5.964	N/A
(2):												N/A
Clean-up solvents: HM Blend	16	487	487		0	84		0		16	5.964	
Other (specify):												

10. Page number: APC 9.3b Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Hollston Holdings, LLC
2. Process description: Source 37-0001-10, Coater #7 - Woven and non-woven materials are surface coated with water-based coatings
3. Year of construction or last modification: 1967
4. Stack ID or flow diagram point identification (s): P20F, P21F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82.45.00 UTM Horizontal: 36.30.00
7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 165 +/- 10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU
8. Application technique and transfer efficiency (%): Blade, Meyer Rod, and/or Air Knife

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Back Coat Aqueous based	827	25,155	1,113		37.359	0.040		62.601		0	0.010	9.56
Clear Coat Aqueous based	942	28,641	679		19.343	1.346		79.311		0	0.570	8.86
Coating Aqueous based	4,426	134,644	3,200		55.060	0.311		44.629		0	0.058	10.34
*** Continued on page APC 9.4b ***												
Total coatings												
List the Thinning Solvents used with the coatings identified above:												
(1):												
(2):												
Clean-up solvents:												
Other (specify):												

10. Page number: APC 9.4a Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Hollision Holdings, LLC

2. Process description: **Source 37-0001-10, Coater #7 - Woven and non-woven materials are surface coated with water-based coatings** *** Continued from Page APC 9.4a ***

3. Year of construction or last modification: Unknown - No manufacturer name plate available

4. Stack ID or flow diagram point identification (s): P12F, P13F, P14F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.

6. Location of this operation in UTM coordinates: UTM Vertical: 82.45.00 UTM Horizontal: 36.30.00

7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 210 +/- 10%
Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU

8. Application technique and transfer efficiency (%): Blade

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Tie Coat Aqueous based	196	5,969	1,040		57.837	0.255		41.908		0	0.043	9.76
Top Coat Aqueous based	1,251	38,040	193		55.863	0.017		44.120		0	0.003	11.36
Over Print Aqueous based	79	2,401	0		N/A	N/A		N/A		N/A	N/A	N/A
Total coatings	7,721	234,850	4,992									
List the Thinning Solvents used with the coatings identified above:												
(1): HM Blend	3	90	30		0	84		0		16	5.964	N/A
(2):												
Clean-up solvents: HM Blend	16	487	487		0	84		0		16	5.964	N/A
Other (specify):												

10. Page number: APC 9.4b Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: **Holliston Holdings, LLC**
2. Process description: **Source 37-0001-10, Coater #8 - Woven and non-woven materials are surface coated with water-based and/or solvent-based coatings**
3. Year of construction or last modification: Unknown - No manufacturer nameplate data available
4. Stack ID or flow diagram point identification (s): P23F, P24F, P25F, P26F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00
7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 178 +/- 10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU
8. Application technique and transfer efficiency (%): Blade

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Back Coat Solvent based	578	17,597	0		21.948	65.630		12.422		0	5.938	7.93
Back Coat Aqueous based	827	25,155	0		37.359	0.040		62.601		0	0.010	9.56
Clear Coat Solvent based	772	23,490	0		12.664	73.998		13.338		0	6.598	7.74
*** Continued on page APC 9.5b ***												
Total coatings												
List the Thinning Solvents used with the coatings identified above:												
(1):												
(2):												
Clean-up solvents:												
Other (specify):												

10. Page number: APC 9.5a Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. Process description: **Source 37-0001-10, Coater #8 - Woven and non-woven materials are surface coated with water-based and/or solvent-based coatings** *** Continued from Page APC 9.5a ***
3. Year of construction or last modification: Unknown - No manufacturer name plate available
4. Stack ID or flow diagram point identification (s): P23F, P24F, P25F, P26F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00
7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 178 +/- 10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU
8. Application technique and transfer efficiency (%): Blade

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Clear Coat Aqueous based	942	28,641	0		19,343	1.346		79.311		0	0.570	8.86
Coating Solvent based	2,346	71,361	0		31.877	55.389		12.734		0	5.200	8.48
Coating Aqueous based	4,426	134,644	0		55.060	0.311		44.629		0	0.058	10.34
Tie Coat Aqueous based	196	5,969	0		57.837	0.255		41.908		0	0.043	9.76
Total coatings	********** Continued on form APC 9.5c **********											
List the Thinning Solvents used with the coatings identified above:												
Clean-up solvents:												
Other (specify):												

10. Page number: APC 9.5b Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: **Holliston Holdings, LLC**
2. Process description: **Source 37-0001-10, Coater #8 - Woven and non-woven materials are surface coated with water-based and/or solvent-based coatings** *** Continued from Page APC 9.5b ***
3. Year of construction or last modification: Unknown - No manufacturer name plate available
4. Stack ID or flow diagram point identification (s): P23F, P24F, P25F, P26F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00
7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 178 +/- 10%
   Specify oven fuels: **Natural Gas** Total maximum heat input to each oven: **10,000,000 BTU**
8. Application technique and transfer efficiency (%): **Blade**

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt	Lbs./Gal.	Lbs./Gal.
Top Coat solvent based	1.222	37,161	0		23.749	61.770		14.481		0	5.655	8.17
Top Coat Aqueous based	1.251	38,040	0		55.863	0.017		44.120		0	0.003	11.36
Over Print Solvent based	79	2,401	0		7.219	89.313		3.468		0	6.630	7.17
Over Print Aqueous based	79	2,401	0		N/A	N/A		N/A		N/A	N/A	N/A
Total coatings	12,718	386,860	0									
List the Thinning Solvents used with the coatings identified above:												
(1): HM Blend	494	15,026	0		0	84		0		16	5.964	N/A
(2):												
Clean-up solvents: HM Blend	8	243	0		0	84		0		16	5.964	N/A
Other (specify):												

10. Page number: APC 9.5c Revision Number: 1 Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: **Holliston Holdings, LLC**
2. Process description: **Source 37-0001-10, Coater #11 - Woven and non-woven materials are surface coated with water-based and/or solvent-based coatings**
3. Year of construction or last modification: Unknown - No manufacturer nameplate data available
4. Stack ID or flow diagram point identification (s): P34F, P35F, P36F, P37F, P38F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00
7. Oven curing (complete if applicable): Number of ovens: 02 Temperature of air contacting coated material as it leaves the oven (°F): 210; 150+/-10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 1, 780,000; 1,420,000 BTU
8. Application technique and transfer efficiency (%): Blade and/or Metering Rod

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Back Coat Solvent based	578	17,597	0		21.948	65.630		12.422		0	5.938	7.93
Back Coat Aqueous based	827	25,155	0		37.359	0.040		62.601		0	0.010	9.56
Clear Coat Solvent based	772	23,490	0		12.664	73.998		13.338		0	6.598	7.74
*** Continued on page APC 9.6b ***												
Total coatings												
List the Thinning Solvents used with the coatings identified above:												
(1):												
(2):												
Clean-up solvents:												
Other (specify):												

10. Page number: APC 9.6a Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: **Holliston Holdings, LLC**
2. Process description: **Source 37-0001-10, Coater #11 - Woven and non-woven materials are surface coated with water-based and/or solvent-based coatings** *** Continued from Page APC 9.6a ***
3. Year of construction or last modification: Unknown - No manufacturer name plate available
4. Stack ID or flow diagram point identification (s): P34F, P35F, P36F, P37F, P38F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82.45.00 UTM Horizontal: 36.30.00
7. Oven curing (complete if applicable): Number of ovens: 02 Temperature of air contacting coated material as it leaves the oven (°F): 210; 150+/-10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 1, 780,000; 1,420,000 BTU
8. Application technique and transfer efficiency (%): Blade and/or Metering Rod

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Clear Coat Aqueous based	942	28,641	0		19.343	1.346		79.311		0	0.570	8.86
Coating Solvent based	2,346	71,361	0		31.877	55.389		12.734		0	5.200	8.48
Coating Aqueous based	4,426	134,644	0		55.060	0.311		44.629		0	0.058	10.34
Tie Coat Aqueous based	196	5,969	0		57.837	0.255		41.908		0	0.043	9.76
Total coatings	**********Continued on form APC 9.6c**********											
List the Thinning Solvents used with the coatings identified above:												
(1):												
(2):												
Clean-up solvents:												
Other (specify):												

10. Page number: APC 9.6b Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: **Holliston Holdings, LLC**
2. Process description: **Source 37-0001-10, Coater #11 - Woven and non-woven materials are surface coated with water-based and/or solvent-based coatings** *** Continued from Page APC 9.6b ***
3. Year of construction or last modification: Unknown - No manufacturer name plate available
4. Stack ID or flow diagram point identification (s): P34F, P35F, P36F, P37F, P38F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82.45.00 UTM Horizontal: 36.30.00
7. Oven curing (complete if applicable) Number of ovens: 02 Temperature of air contacting coated material as it leaves the oven (°F): ~~210; 150+/- 10%~~
   Specify oven fuels: **Natural Gas** Total maximum heat input to each oven: **1,780,000; 1,420,000 BTU**
8. Application technique and transfer efficiency (%): **Blade and/or Metering Rod**

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Top Coat solvent based	1,222	37,161	0		23.749	61.770		14.481		0	5.655	8.17
Top Coat Aqueous based	1,251	38,040	0		55.863	0.017		44.120		0	0.003	11.36
Over Print Solvent based	79	2,401	0		7.219	89.313		3.468		0	6.630	7.17
Over Print Aqueous based	79	2,401	0		N/A	N/A		N/A		N/A	N/A	N/A
Total coatings	12,718	386,860	0									
List the Thinning Solvents used with the coatings identified above:												
(1): HM Blend	494	15,026	0		0	84		0		16	5.964	N/A
(2):												
Clean-up solvents: HM Blend	8	243	0		0	84		0		16	5.964	N/A
Other (specify):												

10. Page number: APC 9.6c Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. Process description: **Source 37-0001-10, Coater #15 - Woven and non-woven materials are surface coated with water-based coatings**
3. Year of construction or last modification: Unknown - No manufacturer nameplate data available
4. Stack ID or flow diagram point identification (s): P62F, P63F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82.45.00 UTM Horizontal: 36.30.00
7. Oven curing (complete if applicable): Number of ovens: 1 Temperature of air contacting coated material as it leaves the oven (°F): 210 +/-10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU
8. Application technique and transfer efficiency (%): Blade and/or Air Knife

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Back Coat Aqueous based	827	25,155	1,113		37.359	0.040		62.601		0	0.010	9.56
Clear Coat Aqueous based	942	28,641	679		19.343	1.346		79.311		0	0.570	8.86
Coating Aqueous based	4,426	134,644	3,200		55.060	0.311		44.629		0	0.058	10.34
Tie Coat Aqueous based	196	5,969	1,040		57.837	0.255		41.908		0	0.043	9.76
Total coatings	*******	********	Continued on form APC 9.7b					**********				
List the Thinning Solvents used with the coatings identified above:												
(1):												
Clean-up solvents:												
Other (specify):												

10. Page number: APC 9.7a Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC

2. Process description: Source 37-0001-10, Coater #15 - Woven and non-woven materials are surface coated with water-based *** Continued from Page APC 9.7a ***

3. Year of construction or last modification: Unknown - No manufacturer name plate available

4. Stack ID or flow diagram point identification (s): P34F, P35F, P36F, P37F, P38F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.

6. Location of this operation in UTM coordinates: UTM Vertical: 82.45.00 UTM Horizontal: 36.30.00

7. Oven curing (complete if applicable): Number of ovens: 01 Temperature of air contacting coated material as it leaves the oven (°F): 210 +/-10%
Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU

8. Application technique and transfer efficiency (%): Blade and/or Air Knife

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Top Coat Aqueous based	1,251	38,040	193		55.863	0.017		44.120		0	0.003	11.36
Mangle Mixture	117	3,560	237		46.000	0.000		54.000		0	0.000	10.00
Tommy Dodd Mixture	120	3,635	242		57.031	0.057		42.912		0	0.009	9.17
Over Print Solvent based	79	2,401	0		7.219	89.313		3.468		0	6.630	7.17
Total coatings	**********		Continued on form APC 9.7c					**********				
List the Thinning Solvents used with the coatings identified above:												
(1):												
(2):												
Clean-up solvents:												
Other (specify):												

10. Page number: APC 9.7b Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
PAINTING AND COATING OPERATIONS

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC
2. Process description: **Source 37-0001-10, Coater #15 - Woven and non-woven materials are surface coated with water-based coatings** *** Continued from Page APC 9.7b ***
3. Year of construction or last modification: Unknown - No manufacturer name plate available
4. Stack ID or flow diagram point identification (s): P34F, P35F, P36F, P37F, P38F

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.
If this printing operation is monitored for compliance, please attach the appropriate compliance demonstration form.

5. Normal operating schedule 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.
6. Location of this operation in UTM coordinates: UTM Vertical: 82.45.00 UTM Horizontal: 36.30.00
7. Oven curing (complete if applicable): Number of ovens: 1 Temperature of air contacting coated material as it leaves the oven (°F): 210 +/- 10%
   Specify oven fuels: Natural Gas Total maximum heat input to each oven: 10,000,000 BTU
8. Application technique and transfer efficiency (%): Blade and/or Air Knife

COATINGS AND SOLVENTS

9. Complete the following table – Attach additional tables as needed – Fill in only the items necessary for determination of compliance with emission standard(s).

Identify coatings	Maximum Usage		Normal Usage	Coating Composition: Volume and weight percent as applied							Density of Solvent Fraction	Coating Density
				Solids		Solvents (VOCs)	Water		Exempt Solvent			
	Gal./Hr.	Gal./Mo.	Gal./Mo.	Vol. %	Wt. %	Wt.%	Vol.	Wt.	Vol.	Wt.	Lbs./Gal.	Lbs./Gal.
Over Print Aqueous based	79	2,401	0		N/A	N/A		N/A		N/A	N/A	N/A
Total coatings	8,037	244,446	6,704									
List the Thinning Solvents used with the coatings identified above:												
(1): HM Blend	3	90	30		0	84		0		16	5.964	N/A
(2):												
Clean-up solvents: HM Blend	16	487	487		0	84		0		16	5.964	N/A
Other (specify):												

10. Page number: APC 9.7c Revision Number: Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
MISCELLANEOUS PROCESSES

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Facility name:** Holliston Holdings, LLC

2. **Process emission source (identify):** SOURCE 37-0001-04 - WASTE PAPER TRIM SYSTEM WITH CYCLONE SEPARATOR

3. Stack ID or flow diagram point identification (s): C1W

4. Year of construction or last modification: 1964 - Ohio Blowpipe Company

If the emissions are controlled for compliance, attach an appropriate Air Pollution Control system form.

5. Normal operating schedule: 24 Hrs./Day 7 Days/Wk. 365 Days/Yr.

6. Location of this process emission source in UTM coordinates: UTM Vertical: 82 45 00 UTM Horizontal: 36 30 00

7. Describe this process (Please attach a flow diagram of this process) and check one of the following:

[✓] Batch [ ] Continuous

PROCESS MATERIAL INPUT AND OUTPUT

8. List the types and amounts of raw materials input to this process:

Material	Storage/Material handling process	Average usage (units)	Maximum usage (units)
Finished Material Trim	Trimmings are conveyed by air to the Cyclone Sep	300 lbs/hr	54,026 lbs/mo

9. List the types and amounts of primary products produced by this process:

Material	Storage/Material handling process	Average usage (units)	Maximum usage (units)
Not Applicable			

10. Process fuel usage:

Type of fuel	Max heat input (10^6 BTU/Hr.)	Average usage (units)	Maximum usage (units)
Not Applicable			

11. List any solvents, cleaners, etc., associated with this process:

Not Applicable

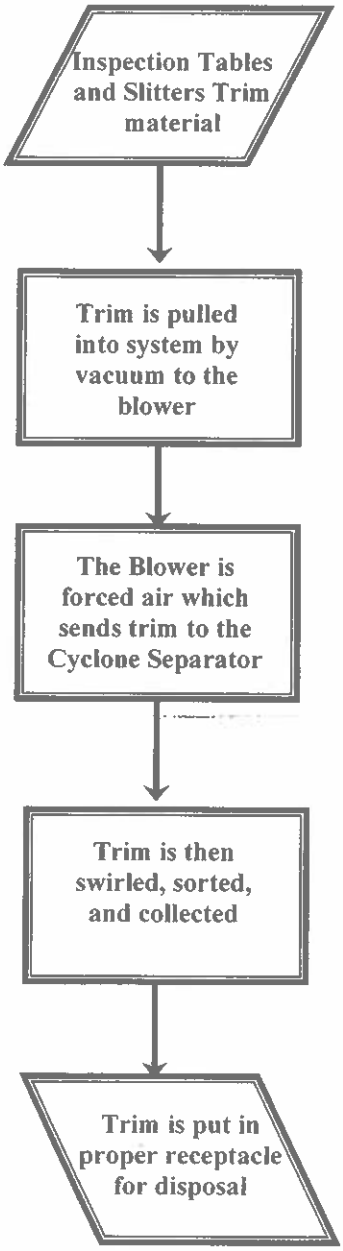
If the emissions and/or operations of this process are monitored for compliance, please attach the appropriate Compliance Demonstration form.

12. Describe any fugitive emissions associated with this process, such as outdoor storage piles, open conveyors, open air sand blasting, material handling operations, etc. (please attach a separate sheet if necessary).

Not Applicable

13. Page number: APC 10.1 Revision Number: 1 Date of Revision: November 23, 2021

Process Chart
Paper Trim/Cyclone Separator (Source 37-0001-04)
Form APC 10.1.a



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TITLE V PERMIT APPLICATION
CONTROL EQUIPMENT - MISCELLANEOUS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:	2. Emission source (identify):
Holliston Holdings, LLC	"Not Applicable" to Holliston Operations

3. Stack ID or flow diagram point identification (s)

CONTROL EQUIPMENT DESCRIPTION

4. Describe the device in use. List the key operating parameters of this device and their normal operating range (e.g., pressure drop, gas flow rate, temperature):

5. Manufacturer and model number (if available):

6. Year of installation:

7. List of pollutant (s) to be controlled by this equipment and the expected control efficiency for each pollutant.

Pollutant	Efficiency (%)	Source of data

8. Discuss how collected material is handled for reuse or disposal.

9. If this control equipment is in series with some other control equipment, state and specify the overall efficiency.

10. Page number: APC 11.1 | Revision Number: 1 | Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
CONTROL EQUIPMENT - ADSORBERS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Emission source (identify): "Not Applicable" to Holliston Operations

3. Stack ID or flow diagram point identification (s):

ADSORBER DESCRIPTION

4. Describe the device in use. List the key operating parameters of this device and their normal operating range.

5. Manufacturer and model number (if available):

6. Year of installation:

7. Are you recovering solvent? If the answer is "Yes", please describe.

8. List of pollutant (s) to be controlled and the expected control efficiency for each pollutant:

Pollutant	Inlet Concentration		Outlet Concentration		Pollutant Capture Efficiency (%)	Adsorber Efficiency (%)
	Gr./ACF	PPMV	Gr./ACF	PPMV		

9. If you were required to answer Item #8, please describe how the bed break through is monitored or controlled.

10. Discuss how collected material is handled for reuse or disposal. Indicate if the bed material is disposable. Discuss method of disposal or regeneration method

11. If this control equipment is in series with some other control equipment, state and specify the overall efficiency.

12. Page number: APC 13.1 | Revision Number: 1 | Date of Revision: November 23, 2021

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TITLE V PERMIT APPLICATION
CONTROL EQUIPMENT - CATALYTIC OR THERMAL OXIDATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:	2. Emission source (identify):
Holliston Holdings, LLC	"Not Applicable" to Holliston Operations

3. Stack ID or flowdiagram point identification (s):

OXIDIZER DESCRIPTION

4. Describe the oxidation system in use. List the key operating parameters of this device and their normal operating range.

5. Manufacturer and model number (if available):	6. Year of installation:	7. Type (check one):
		Catalytic oxidizer ☐
		Thermal oxidizer ☐

8. List of pollutant (s) to be controlled and the expected control efficiency for each pollutant.

Pollutant	Efficiency (%)	Source of data

9. If applicable, discuss how spent catalyst is handled for reuse or disposal.

10. Equipment specifications:

Catalytic oxidation	Thermal oxidation
10A. Minimum operating temperature (°F):	10B. Minimum operating temperature (°F):
11A. Type of fuel used:	11B. Type of fuel used:
12. Type of catalyst used and volume of catalyst used (Ft.³):	12. Not applicable.
13A. Maximum fuel use:	13B. Maximum fuel use:
14A. Residence time (sec.):	14B. Residence time (sec.):

15. If this control equipment is in series with some other control equipment, state and specify the overall efficiency.

16. Page number:	Revision Number:	Date of Revision:
APC 14.1	1	November 23, 2021

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TITLE V PERMIT APPLICATION
CONTROL EQUIPMENT - CYCLONES/SETTLING CHAMBERS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:
Holliston Holdings, LLC

2. Emission source (identify):
Source 37-0001-04 - Waste Paper Trim System with Cyclone Control

3. Stack ID or flow diagram point identification (s):
C1W

CYCLONE/SETTLING CHAMBER DESCRIPTION

4 Describe the device in use List the key operating parameters of this device and their normal operating range

This unit receives chopped trim from paper and fabric inspection tables and slitters.

Amount of material blown to cyclone - 300 lbs./hr

Amount of air handled by the cyclone - 8,600 cubic ft. per minute

This unit has a circular inlet configuration that measures 20" in diameter.

Maximum amount of material to be received by this unit is 325.5 tons/year.

The cyclone separator was manufactured by Ohio Blow Pipe Company.

5. List of pollutants (s) to be controlled and the expected control efficiency for each pollutant.

Pollutant	Efficiency (%)	Source of data
Particulates	80%	Vendor information

6. Discuss how collected material is handled for reuse or disposal.

Collected material is sent to the landfill

7. Gas flow rate (ACFM):
8,600 cubic feet per minute

8. If this control equipment is in series with some other control equipment, state and specify the overall efficiency
Not Applicable

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TITLE V PERMIT APPLICATION
CONTROL EQUIPMENT - WET COLLECTION SYSTEMS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:	2. Emission source (identify):
Holliston Holdings, LLC	"Not Applicable" to Holliston Operations

3. Stack ID or flowdiagram point identification (s):

WET COLLECTION SYSTEM DESCRIPTION

4. Describe the device in use. List the key operation parameters of this device and their normal operating range.

5. Manufacturer and model number (if available):	6. Year of installation:

7. List of pollutant (s) to be controlled and the expected control efficiency for each pollutant.

Pollutant	Efficiency (%)	Source of data

8. Discuss how collected material and effluent is handled for reuse or disposal..

9. Scrubbing medium (water, sodium hydroxide slurry, etc.):

10. If this control equipment is in series with some other control equipment, state and specify the overall efficiency.

11. Page number:	Revision Number:	Date of Revision:
APC 17.1	1	November 23, 2021

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TITLE V PERMIT APPLICATION
CONTROL EQUIPMENT - BAGHOUSES/FABRIC FILTERS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Emission source (identify): "Not Applicable" to Holliston Operations

3. Stack ID or flowdiagram point identification (s):

BAGHOUSE/FABRIC FILTER DESCRIPTION

4. Describe the device in use. List the key operating parameters of this device and their normal operating range.

5. Manufacturer and model number (if available):

6. Year of installation:

7. List of pollutant(s) to be controlled and the expected control efficiency for each pollutant (see instructions).

Pollutant	Efficiency (%)	Source of data

8. Discuss how collected material is handled for reuse or disposal.

9. If the bags are coated, specify the material used for coating and frequency of coating

10. Does the baghouse collect asbestos containing material?

Yes ☐ No ☐

If "Yes", provide data as outlined in Item 10, Instructions for this form.

11. If this control equipment is in series with some other control equipment, state and specify the overall efficiency.

Page number:	Revision Number:	Date of Revision:
APC 18.1	1	November 23, 2021

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TITLE V PERMIT APPLICATION
COMPLIANCE CERTIFICATION - MONITORING AND REPORTING
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE

All sources that are subject to 1200-03-09-.02(11) of the Tennessee Air Pollution Control Regulations are required to certify compliance with all applicable requirements by including a statement within the permit application of the methods used for determining compliance. This statement must include a description of the monitoring, recordkeeping, and reporting requirements and test methods. In addition, the application must include a schedule for compliance certification submittals during the permit term. These submittals must be no less frequent than annually and may need to be more frequent if specified by the underlying applicable requirement or the Technical Secretary.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC
2. Process emission source, fuel burning installation, or incinerator (identify): Source 37-0001-02 - 39 MM Btu/hr Springfield Boiler
3. Stack ID or flowdiagram point identification(s):

METHODS OF DETERMINING COMPLIANCE

4. This source as described under Item #2 of this application will use the following method(s) for determining compliance with applicable requirements (and special operating conditions from an existing permit). Check all that apply and attach the appropriate form(s)

- [ ] Continuous Emission Monitoring (CEM) - APC 20
  Pollutant(s):
- [ ] Emission Monitoring Using Portable Monitors - APC 21
  Pollutant(s):
- [ ] Monitoring Control System Parameters or Operating Parameters of a Process - APC 22
  Pollutant(s):
- [ ] Monitoring Maintenance Procedures - APC 23
  Pollutant(s):
- [ ] Stack Testing - APC 24
  Pollutant(s):
- [ ] Fuel Sampling & Analysis (FSA) - APC 25
  Pollutant(s):
- [x] Recordkeeping - APC 26
  Pollutant(s):
- [ ] Other (please describe) - APC 27
  Pollutant(s):

5. Compliance certification reports will be submitted to the Division according to the following schedule:
   Start date: July, 2022
   And every 6 mo. ~~days~~ thereafter.
6. Compliance monitoring reports will be submitted to the Division according to the following schedule:
   Start date: July, 2022
   And every 6 mo. ~~days~~ thereafter.

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TITLE V PERMIT APPLICATION
COMPLIANCE CERTIFICATION - MONITORING AND REPORTING
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE

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GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC
2. Process emission source, fuel burning installation, or incinerator (identify): Source 37-0001-04 - Waste Paper Trim System with Cyclone Control
3. Stack ID or flowdiagram point identification(s):

METHODS OF DETERMINING COMPLIANCE

4. This source as described under Item #2 of this application will use the following method(s) for determining compliance with applicable requirements (and special operating conditions from an existing permit). Check all that apply and attach the appropriate form(s)

- [ ] Continuous Emission Monitoring (CEM) - APC 20
  Pollutant(s):
- [ ] Emission Monitoring Using Portable Monitors - APC 21
  Pollutant(s):
- [ ] Monitoring Control System Parameters or Operating Parameters of a Process - APC 22
  Pollutant(s):
- [x] Monitoring Maintenance Procedures - APC 23
  Pollutant(s):
- [ ] Stack Testing - APC 24
  Pollutant(s):
- [ ] Fuel Sampling & Analysis (FSA) - APC 25
  Pollutant(s):
- [ ] Recordkeeping - APC 26
  Pollutant(s):
- [ ] Other (please describe) - APC 27
  Pollutant(s):

5. Compliance certification reports will be submitted to the Division according to the following schedule:
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6. Compliance monitoring reports will be submitted to the Division according to the following schedule:
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TITLE V PERMIT APPLICATION
COMPLIANCE CERTIFICATION - MONITORING AND REPORTING
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE

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GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC
2. Process emission source, fuel burning installation, or incinerator (identify): Source 37-0001-10 - Coating Operations with Drying Ovens
3. Stack ID or flowdiagram point identification(s): P12F, P13F, P14F

METHODS OF DETERMINING COMPLIANCE

4. This source as described under Item #2 of this application will use the following method(s) for determining compliance with applicable requirements (and special operating conditions from an existing permit). Check all that apply and attach the appropriate form(s)

- [ ] Continuous Emission Monitoring (CEM) - APC 20
  Pollutant(s): _____
- [ ] Emission Monitoring Using Portable Monitors - APC 21
  Pollutant(s): _____
- [ ] Monitoring Control System Parameters or Operating Parameters of a Process - APC 22
  Pollutant(s): _____
- [ ] Monitoring Maintenance Procedures - APC 23
  Pollutant(s): _____
- [ ] Stack Testing - APC 24
  Pollutant(s): _____
- [ ] Fuel Sampling & Analysis (FSA) - APC 25
  Pollutant(s): _____
- [x] Recordkeeping - APC 26
  Pollutant(s): _____
- [ ] Other (please describe) - APC 27
  Pollutant(s): _____

5. Compliance certification reports will be submitted to the Division according to the following schedule:
   Start date: July, 2022
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6. Compliance monitoring reports will be submitted to the Division according to the following schedule:
   Start date: July, 2022
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TITLE V PERMIT APPLICATION
COMPLIANCE CERTIFICATION - MONITORING AND REPORTING
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE

All sources that are subject to 1200-03-09-.02(11) of the Tennessee Air Pollution Control Regulations are required to certify compliance with all applicable requirements by including a statement within the permit application of the methods used for determining compliance. This statement must include a description of the monitoring, recordkeeping, and reporting requirements and test methods. In addition, the application must include a schedule for compliance certification submittals during the permit term. These submittals must be no less frequent than annually and may need to be more frequent if specified by the underlying applicable requirement or the Technical Secretary.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston, LLC
2. Process emission source, fuel burning installation, or incinerator (identify): Source 37-0001-12 - 29.41 MM Btu/hr York-Shipley Boiler
3. Stack ID or flow diagram point identification(s):

METHODS OF DETERMINING COMPLIANCE

4. This source as described under Item #2 of this application will use the following method(s) for determining compliance with applicable requirements (and special operating conditions from an existing permit). Check all that apply and attach the appropriate form(s)

- [ ] Continuous Emission Monitoring (CEM) - APC 20
  Pollutant(s):
- [ ] Emission Monitoring Using Portable Monitors - APC 21
  Pollutant(s):
- [ ] Monitoring Control System Parameters or Operating Parameters of a Process - APC 22
  Pollutant(s):
- [ ] Monitoring Maintenance Procedures - APC 23
  Pollutant(s):
- [ ] Stack Testing - APC 24
  Pollutant(s):
- [ ] Fuel Sampling & Analysis (FSA) - APC 25
  Pollutant(s):
- [x] Recordkeeping - APC 26
  Pollutant(s):
- [ ] Other (please describe) - APC 27
  Pollutant(s):

5. Compliance certification reports will be submitted to the Division according to the following schedule:
   Start date: July, 2022
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6. Compliance monitoring reports will be submitted to the Division according to the following schedule:
   Start date: July, 2022
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TITLE V PERMIT APPLICATION
COMPLIANCE CERTIFICATION - MONITORING AND REPORTING
DESCRIPTION OF METHODS USED FOR DETERMINING COMPLIANCE

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GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston, LLC
2. Process emission source, fuel burning installation, or incinerator (identify): Source 37-0001-16 - Eight (8) each, 0.8 MM Btu/hr Tenter Ovens
3. Stack ID or flowdiagram point identification(s):

METHODS OF DETERMINING COMPLIANCE

4. This source as described under Item #2 of this application will use the following method(s) for determining compliance with applicable requirements (and special operating conditions from an existing permit). Check all that apply and attach the appropriate form(s)

- [ ] Continuous Emission Monitoring (CEM) - APC 20
  Pollutant(s):
- [ ] Emission Monitoring Using Portable Monitors - APC 21
  Pollutant(s):
- [ ] Monitoring Control System Parameters or Operating Parameters of a Process - APC 22
  Pollutant(s):
- [ ] Monitoring Maintenance Procedures - APC 23
  Pollutant(s):
- [ ] Stack Testing - APC 24
  Pollutant(s):
- [ ] Fuel Sampling & Analysis (FSA) - APC 25
  Pollutant(s):
- [x] Recordkeeping - APC 26
  Pollutant(s):
- [ ] Other (please describe) - APC 27
  Pollutant(s):

5. Compliance certification reports will be submitted to the Division according to the following schedule:
   Start date: July, 2022
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6. Compliance monitoring reports will be submitted to the Division according to the following schedule:
   Start date: July, 2022
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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY CONTINUOUS EMISSIONS MONITORING

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:
Holliston Holdings, LLC

2. Stack ID or flowdiagram point identification(s):

3. Process emission source or fuel burning installation or incinerator:
"Not Applicable" to Holliston Operations

MONITOR DESCRIPTION

4. Description of equipment monitoring pollutant:

Pollutant being monitored: _____

4A. Name of Manufacturer:

4B. Model number:

4C. Installation year

4D. Type:
☐ In situ ☐ Extractive ☐ Dilution ☐ Other (Specify): _____

4E. Describe how the monitor works:

5. Description of equipment monitoring diluent:

Diluent being monitored: _____

5A. Name of manufacturer:

5B. Model number:

5C. Installation year

5D. Type:
☐ In situ ☐ Extractive ☐ O_2 ☐ CO_2 ☐ Other (Specify): _____

5E. Describe how the monitor works:

6. Description of equipment monitoring flow:

Amount of flow (DSCFM): _____

6A. Name of manufacturer:

6B. Model number:

6C. Installation year

6D. Type:
☐ Differential pressure ☐ Thermal ☐ Other (Specify): _____

7. Opacity (or use of visible emission evaluations in lieu of opacity monitoring)

7A. Indicate which is used.

☐ Monitor ☐ Visible emission evaluations*

* For "Visible emission evaluation" choice, procedures will be specified as a condition in the source's operating permit.

7B. Opacity monitor (state the name of manufacturer, model number, and year of installation):

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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY PORTABLE MONITORS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:

Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s):	3. Process emission source (identify):	4. Pollutant(s) being monitored:
	"Not Applicable" to Holliston Operations	

MONITOR DESCRIPTION

5. Name of manufacturer (if available):	6. Model number (if available):

7. Type:

☐ In situ ☐ Extractive ☑ Dilution ☐ Other (specify): _____

Describe how monitor works.

9. Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated):

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TITLE V PERMIT APPLICATION - COMPLIANCE DEMONSTRATION BY MONITORING CONTROL SYSTEM PARAMETERS OR OPERATING PARAMETERS OF A PROCESS

The monitoring of a control system parameter or a process parameter shall be acceptable as a compliance demonstration method provided that a correlation between the parameter value and the emission rate of a particular pollutant is established.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:
   Holliston Holdings, LLC
2. Stack ID or flow diagram point identification(s)

3. Emission source:
   "Not Applicable" to Holliston Operations

MONITORING DESCRIPTION

4. Pollutant(s) being monitored:

5. Description of the method of monitoring and establishment of correlation between the parameter value and the emission rate of a particular pollutant:

6. Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated):

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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY MONITORING MAINTENANCE PROCEDURES

The monitoring of a maintenance procedure shall be acceptable as a compliance demonstration method provided that a correlation between the procedure and the emission rate of a particular pollutant is established.

GENERAL IDENTIFICATION AND DESCRIPTION

1 Facility name:
Holliston Holdings, LLC

2 Stack ID or flow diagram point identification(s):
C1W

3 Emission source (identify):
Source 37-0001-04 - Waste Paper Trim System with Cyclone Control

MONITORING DESCRIPTION

4 Pollutant(s) being monitored:
Particulates

5 Procedure being monitored:
Maintenance records for the cyclone control device

Description of the method of monitoring and establishment of correlation between the procedure and the emission rate of a particular pollutant:

A summary of maintenance for the cyclone equipment is compiled on a monthly basis denoting what maintenance/repair was performed and what days the work was conducted. The monthly summary of maintenance log entries is included in the semiannual reporting in accordance with the permit.

In order to meet the emission rate limitation for particulates from stack C1W, the cyclone must be in operation whenever the paper trimming operation is being performed.

Cyclone maintenance logsheet is attached.

7 Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated)
Monthly

8. Page number:	Revision number:	Date of revision:
APC 23.1	1	November 23, 2021

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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY STACK TESTING

The performance of an appropriate EPA stack test method for demonstrating compliance with an emission limitation has always been acceptable. EPA test methods contain quality assurance procedures that shall be strictly adhered to by the source.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:
   Holliston Holdings, LLC
2. Stack ID or flowdiagram point identification(s):
3. Emission source (identify):
   "Not Applicable" to Holliston Operations

STACK TESTING DESCRIPTION

4. Pollutant(s) being monitored:
5. Test method:
6. Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated):

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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY FUEL SAMPLING AND ANALYSIS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:
   Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s):
   F2M

3. Emission source (identify):
   Source 37-0001-02 - 39 MM Btu/hr Springfield Boiler

MONITORING THROUGH FUEL SAMPLING AND ANALYSIS

4. Pollutant(s) being monitored:
   Sulfur Content

5. Fuel being sampled:
   Fuel oils

6. List the fuel sample collecting and analyzing method used (if an ASTM method is not applicable, propose a method acceptable to the Technical Secretary).

* Supplier analyzes all incoming loads of fuel oil

Each delivered load of oil is analyzed for sulfur content (ASTM D4294) before it is supplied, and the supplier provides a record of the analyses.

7. Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated):
   per each load delivered

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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY FUEL SAMPLING AND ANALYSIS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:
   Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s):
   F1M

3. Emission source (identify):
   Source 37-0001-12 - 29.4 MM Btu/hr York-Shipley Boiler

MONITORING THROUGH FUEL SAMPLING AND ANALYSIS

4. Pollutant(s) being monitored:
   Sulfur Content

5. Fuel being sampled:
   Fuel oils

6. List the fuel sample collecting and analyzing method used (if an ASTM method is not applicable, propose a method acceptable to the Technical Secretary).

* Supplier analyzes all incoming loads of fuel oil

Each delivered load of oil is analyzed for sulfur content (ASTM D4294) before it is supplied, and the supplier provides a record of the analyses.

7. Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated):
   per each load delivered

Page number:	Revision number:	Date of revision:
APC 25.2	1	November 23, 2021

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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY RECORDKEEPING

Recordkeeping shall be acceptable as a compliance demonstration method provided that a correlation between the parameter value recorded and the applicable requirement is established

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:
Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s):
F2M

3. Emission source (identify):
Source 37-0001-02 - 39 MM Btu/hr Springfield Boiler

MONITORING AND RECORDKEEPING DESCRIPTION

4. Pollutant(s) or parameter being monitored:
PM(TSP), SO2, NOx, VOC (excluding methane)

5. Material or parameter being monitored and recorded:
Usage of Natural Gas

6. Method of monitoring and recording:

Holliston uses recordkeeping procedures to verify compliance by calculating emissions of PM, SO2, NOx, and VOC from combustion of natural gas in the boiler. The calculation methodology is described in APC 26 Attachment IV.

7. Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated):
Monthly

8. Page number: APC 26.1 | Revision number: 1 | Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY RECORDKEEPING

Recordkeeping shall be acceptable as a compliance demonstration method provided that a correlation between the parameter value recorded and the applicable requirement is established.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name
   Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s)
   Multiple stacks (see Stack Locations Drawing)

3. Emission source (identify)
   Source 37-0001-10 - Coating Operations with Drying Ovens

MONITORING AND RECORDKEEPING DESCRIPTION

4. Pollutant(s) or parameter being monitored:
   VOC, HAPs emissions

5. Material or parameter being monitored and recorded
   Quantity of VOC and HAPs contained within the applied coating formulations

6. Method of monitoring and recording:
   Holliston uses recordkeeping procedures to verify compliance by calculating VOC and HAPs content of applied coating formulations as described in APC 26 Attachment II for VOC and APC 26 Attachment III for HAPs.

7. Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated):
   Monthly

8. Page number: APC 26.2 | Revision number: 1 | Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY RECORDKEEPING

Recordkeeping shall be acceptable as a compliance demonstration method provided that a correlation between the parameter value recorded and the applicable requirement is established.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name
   Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s)
   F1M

3. Emission source (identify)
   Source 37-0001-12 - 29.41 MM Btu/hr York-Shipley Boiler

MONITORING AND RECORDKEEPING DESCRIPTION

4. Pollutant(s) or parameter being monitored:
   PM(TSP), SO2, CO, NOx, VOC (excluding methane)

5. Material or parameter being monitored and recorded:
   Usage of Natural Gas

6. Method of monitoring and recording:

Holliston uses recordkeeping procedures to verify compliance by calculating emissions of PM, SO2, CO, NOx, and VOC from combustion of natural gas in the boiler. The calculation methodology is described in APC 26 Attachment IV.

7. Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated)
   Monthly

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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY RECORDKEEPING

Recordkeeping shall be acceptable as a compliance demonstration method provided that a correlation between the parameter value recorded and the applicable requirement is established.

GENERAL IDENTIFICATION AND DESCRIPTION

1 Facility name
Holliston Holdings, LLC

2 Stack ID or flow diagram point identification(s)
P80F

3 Emission source (identify)
Source 37-0001-16 - Eight (8) each, 0.8 MM Btu/hr Tenter Drying Ovens

MONITORING AND RECORDKEEPING DESCRIPTION

4 Pollutant(s) or parameter being monitored:
PM, NOx, and SO2

5. Material or parameter being monitored and recorded:
Natural gas used (maximum throughput)

6. Method of monitoring and recording:

Holliston uses maximum natural gas fuel throughput and AP-42 emission factors to calculate PM, SO2, and NOx emissions. The calculation methodology is described in APC 26 Attachment V.

7. Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated):
Annually

8. Page number: APC 26.4 | Revision number: 1 | Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
COMPLIANCE DEMONSTRATION BY OTHER METHOD(S)

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:
Holliston Holdings, LLC

2. Stack ID or flowdiagram point identification(s):

3. Emission source (identify):
"Not Applicable" to Holliston Operations

MONITORING DESCRIPTION

4. Pollutant(s) or parameter being monitored:

5. Description of the method of monitoring:

6. Compliance demonstration frequency (specify the frequency with which compliance will be demonstrated):

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Revision number: 1
Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
EMISSIONS FROM PROCESS EMISSION SOURCE / FUEL BURNING INSTALLATION / INCINERATOR

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s): F2M

3. Process emission source / Fuel burning installation / Incinerator (identify): Source 37-0001-02 - 39 MM Btu/hr Springfield Boiler

EMISSIONS SUMMARY TABLE – CRITERIA AND FUGITIVE EMISSIONS

4. Complete the following emissions summary for regulated air pollutants. Fugitive emissions shall be included. Attach calculations and emission factor references.

Air Pollutant	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
	N/A		N/A	
Particulate Matter (TSP)	N/A		0.052	
(Fugitive Emissions)	N/A		N/A	
lfur Dioxide	39.0		0.0051	
(Fugitive Emissions)	N/A		N/A	
Volatile Organic Compounds	N/A		0.023	
(Fugitive Emissions)	N/A		N/A	
Carbon Monoxide	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Lead	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Nitrogen Oxides	N/A		1.79	
(Fugitive Emissions)	N/A		N/A	
Total Reduced Sulfur	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Mercury	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	

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AIR POLLUTANT	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
Asbestos	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Beryllium	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Vinyl Chloride	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Fluorides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Gaseous Fluorides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Greenhouse Gases in CO_2 Equivalents	N/A		1092	

EMISSIONS SUMMARY TABLE – FUGITIVE HAZARDOUS AIR POLLUTANTS

5. Complete the following emissions summary for regulated air pollutants that are hazardous air pollutant(s). Fugitive emissions shall be included. Attach calculations and emission factor references.

Air Pollutant & CAS	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	

6. Page number: APC 28.1 | Revision number: 1 | Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
EMISSIONS FROM PROCESS EMISSION SOURCE / FUEL BURNING INSTALLATION / INCINERATOR

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s): C1W

3. Process emission source / Fuel burning installation / Incinerator (identify): Source 37-0001-04 - Waste Paper Trim System with Cyclone Control

EMISSIONS SUMMARY TABLE – CRITERIA AND FUGITIVE EMISSIONS

4. Complete the following emissions summary for regulated air pollutants. Fugitive emissions shall be included. Attach calculations and emission factor references.

Air Pollutant	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
	N/A		N/A	
Particulate Matter (TSP)	N/A		2.0	
(Fugitive Emissions)	N/A		N/A	
lfur Dioxide	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Volatile Organic Compounds	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Carbon Monoxide	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Lead	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Nitrogen Oxides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Total Reduced Sulfur	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Mercury	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	

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AIR POLLUTANT	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
Asbestos	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Beryllium	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Vinyl Chloride	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Fluorides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Gascous Fluorides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Greenhouse Gases in CO_2 Equivalents	N/A		N/A	

EMISSIONS SUMMARY TABLE – FUGITIVE HAZARDOUS AIR POLLUTANTS

5. Complete the following emissions summary for regulated air pollutants that are hazardous air pollutant(s). Fugitive emissions shall be included. Attach calculations and emission factor references.

Air Pollutant & CAS	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	

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TITLE V PERMIT APPLICATION
EMISSIONS FROM PROCESS EMISSION SOURCE / FUEL BURNING INSTALLATION / INCINERATOR

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s): Multiple Stacks (See Stack Locations Drawing)

3. Process emission source / Fuel burning installation / Incinerator (identify): Source 37-0001-10 - Coating Operations with Drying Ovens

EMISSIONS SUMMARY TABLE – CRITERIA AND FUGITIVE EMISSIONS

4. Complete the following emissions summary for regulated air pollutants. Fugitive emissions shall be included. Attach calculations and emission factor references.

Air Pollutant	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
	N/A		N/A	
Particulate Matter (TSP)	N/A		0.76	
(Fugitive Emissions)	N/A		N/A	
ılfur Dioxide	N/A		0.074	
(Fugitive Emissions)	N/A		N/A	
Volatile Organic Compounds	N/A		78.5	
(Fugitive Emissions)	N/A		N/A	
Carbon Monoxide	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Lead	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Nitrogen Oxides	N/A		17.2	
(Fugitive Emissions)	N/A		N/A	
Total Reduced Sulfur	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Mercury	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	

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AIR POLLUTANT	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
Asbestos	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Beryllium	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Vinyl Chloride	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Fluorides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Gaseous Fluorides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Greenhouse Gases in CO_2 Equivalents	N/A		2,067	

EMISSIONS SUMMARY TABLE – FUGITIVE HAZARDOUS AIR POLLUTANTS

5. Complete the following emissions summary for regulated air pollutants that are hazardous air pollutant(s). Fugitive emissions shall be included. Attach calculations and emission factor references.

Air Pollutant & CAS	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
Toluene (CAS# 108-88-3)	N/A		75.4	
Methanol (CAS# 67-56-1)	N/A		0.02	
MIBK (CAS# 108-10-1)	N/A		0.27	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	

6. Page number: APC 28.3 | Revision number: 1 | Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
EMISSIONS FROM PROCESS EMISSION SOURCE / FUEL BURNING INSTALLATION / INCINERATOR

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s): F1M

3. Process emission source / Fuel burning installation / Incinerator (identify): Source 37-0001-12 - 29.41 MM Btu/hr York-Shipley Boiler

EMISSIONS SUMMARY TABLE – CRITERIA AND FUGITIVE EMISSIONS

4. Complete the following emissions summary for regulated air pollutants. Fugitive emissions shall be included. Attach calculations and emission factor references.

Air Pollutant	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
	N/A		N/A	
Particulate Matter (TSP)	N/A		0.04	
(Fugitive Emissions)	N/A		N/A	
lfur Dioxide	39.16		0.004	
(Fugitive Emissions)	N/A		N/A	
Volatile Organic Compounds	N/A		0.035	
(Fugitive Emissions)	N/A		N/A	
Carbon Monoxide	N/A		0.5331	
(Fugitive Emissions)	N/A		N/A	
Lead	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Nitrogen Oxides	N/A		0.317	
(Fugitive Emissions)	N/A		N/A	
Total Reduced Sulfur	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Mercury	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	

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AIR POLLUTANT	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
Asbestos	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Beryllium	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Vinyl Chloride	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Fluorides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Gaseous Fluorides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Greenhouse Gases in CO_2 Equivalents	N/A		823	

EMISSIONS SUMMARY TABLE – FUGITIVE HAZARDOUS AIR POLLUTANTS

5. Complete the following emissions summary for regulated air pollutants that are hazardous air pollutant(s). Fugitive emissions shall be included. Attach calculations and emission factor references.

Air Pollutant & CAS	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
Toluene (CAS# 108-88-3)	N/A		75.4	
Methanol (CAS# 67-56-1)	N/A		0.02	
MIBK (CAS# 108-10-1)	N/A		0.27	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	

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TITLE V PERMIT APPLICATION
EMISSIONS FROM PROCESS EMISSION SOURCE / FUEL BURNING INSTALLATION / INCINERATOR

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Stack ID or flow diagram point identification(s): P80F

3. Process emission source / Fuel burning installation / Incinerator (identify): Source 37-0001-16 - Eight (8) each, 0.8 MM Btu/hr Tenter Drying Ovens

EMISSIONS SUMMARY TABLE – CRITERIA AND FUGITIVE EMISSIONS

4. Complete the following emissions summary for regulated air pollutants. Fugitive emissions shall be included. Attach calculations and emission factor references.

Air Pollutant	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
	N/A		N/A	
Particulate Matter (TSP)	N/A		0.077	
(Fugitive Emissions)	N/A		N/A	
Sulfur Dioxide	39.0		0.007	
(Fugitive Emissions)	N/A		N/A	
Volatile Organic Compounds	15.0		0.033	
(Fugitive Emissions)	N/A		N/A	
Carbon Monoxide	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Lead	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Nitrogen Oxides	N/A		1.718	
(Fugitive Emissions)	N/A		N/A	
Total Reduced Sulfur	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Mercury	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	

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AIR POLLUTANT	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
Asbestos	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Beryllium	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Vinyl Chloride	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Fluorides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Gaseous Fluorides	N/A		N/A	
(Fugitive Emissions)	N/A		N/A	
Greenhouse Gases in CO_2 Equivalents	N/A		0	

EMISSIONS SUMMARY TABLE – FUGITIVE HAZARDOUS AIR POLLUTANTS

5. Complete the following emissions summary for regulated air pollutants that are hazardous air pollutant(s). Fugitive emissions shall be included. Attach calculations and emission factor references.

Air Pollutant & CAS	Maximum Allowable Emissions		Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour - Item 7, APC 30)	Tons per Year	Reserved for State use (Pounds per Hour- Item 8, APC 30)
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	
	N/A		N/A	

6. Page number: APC 28.5 | Revision number: 1 | Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
EMISSION SUMMARY FOR THE FACILITY OR FOR THE SOURCES CONTAINED IN THIS APPLICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

EMISSIONS SUMMARY TABLE – CRITERIA AND SELECTED POLLUTANTS

2. Complete the following emissions summary for regulated air pollutants at this facility or for the sources contained in this application.

Air Pollutant	Summary of Maximum Allowable Emissions		Summary of Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour- Item 4, APC 28)	Tons per Year	Reserved for State use (Pounds per Hour- Item 4, APC 28)
Particulate Matter (TSP)	N/A		0.86	
Sulfur Dioxide	N/A		0.083	
Volatile Organic Compounds	N/A		78.5	
Carbon Monoxide	N/A		0.545	
Lead	N/A		N/A	
Nitrogen Oxides	N/A		18.71	
Total Reduced Sulfur	N/A		N/A	
Mercury	N/A		N/A	
Asbestos	N/A		N/A	
Beryllium	N/A		N/A	
Vinyl Chlorides	N/A		N/A	
Fluorides	N/A		N/A	
Gaseous Fluorides	N/A		N/A	
Greenhouse Gases in CO_2 Equivalents	N/A		3,981	

(Continued on next page)

(Continued from previous page)

EMISSIONS SUMMARY TABLE – HAZARDOUS AIR POLLUTANTS

Complete the following emissions summary for regulated air pollutants that are hazardous air pollutant(s) at this facility or for the sources contained in this application.

Air Pollutant & CAS	Summary of Maximum Allowable Emissions		Summary of Actual Emissions	
	Tons per Year	Reserved for State use (Pounds per Hour- Item 5, APC 28)	Tons per Year	Reserved for State use (Pounds per Hour- Item 5, APC 28)
Toluene (CAS# 108-88-3)	N/A		75.4	
Methanol (CAS# 67-56-1)	N/A		0.02	
MIBK (CAS# 108-10-1)	N/A		0.27	

4. Page number: APC 29.1 | Revision number: 1 | Date of revision: November 23, 2021

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Nashville, TN 37243
Telephone: (615) 532-0554

TITLE V PERMIT APPLICATION
CURRENT EMISSIONS REQUIREMENTS AND STATUS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name	2. Emission source number
Holliston Holdings, LLC	Source 37-0001-02

3. Describe the process emission source / fuel burning installation / incinerator
NG and Oil Fired 39 MM Btu/hr Springfield Boiler

EMISSIONS AND REQUIREMENTS

4. Identify if only a part of the source is subject to this requirement	5 Pollutant	6. Applicable requirement(s): TN Air Pollution Control Regulations, 40 CFR, permit restrictions, air quality based standards	7. Limitation	8. Maximum actual emissions	9 Compliance status (In/Out)
Entire Unit	PM	1200-3-6-.02(2)(b)	38.6 lb/hr	38.6 lb/hr	IN
Entire Unit	SO2	1200-3-14-.02(1)(a)	4.0 lb/MM Btu	472.8 lb/hr	IN
Entire Unit	SO2	1200-3-14-.01(3) (No. 6 oil firing only)	39 tons/yr	39 tons/yr	IN
Entire Unit	---	40 CFR 63.7500	N/A	N/A	IN
Entire Unit	---	40 CFR 63.7545	N/A	N/A	IN

10 Other applicable requirements (new requirements that apply to this source during the term of this permit)

11. Page number:	Revision number:	Date of revision
APC 30.1	1	November 23, 2021

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TITLE V PERMIT APPLICATION
CURRENT EMISSIONS REQUIREMENTS AND STATUS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC
2. Emission source number: Source 37-0001-04
3. Describe the process emission source / fuel burning installation / incinerator: Waste Paper Trim System with Cyclone Control

EMISSIONS AND REQUIREMENTS

4. Identify if only a part of the source is subject to this requirement	5. Pollutant	6. Applicable requirement(s): TN Air Pollution Control Regulations, 40 CFR, permit restrictions, air quality based standards	7. Limitation	8. Maximum actual emissions	9. Compliance status (In/Out)
Entire Unit	PM	1200-3-7-.04(1)	0.02 gr/dscf	1.47 lb/hr	IN

10. Other applicable requirements (new requirements that apply to this source during the term of this permit)

11. Page number: APC 30.2 | Revision number: 1 | Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
CURRENT EMISSIONS REQUIREMENTS AND STATUS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Emission source number: Source 37-0001-10

3. Describe the process emission source / fuel burning installation / incinerator: Facility Coaters Nos. 3, 4, 5, 6, 7, 8, 11, and 15, and associated dryers

EMISSIONS AND REQUIREMENTS

4. Identify if only a part of the source is subject to this requirement	5. Pollutant	6. Applicable requirement(s) TN Air Pollution Control Regulations, 40 CFR, permit restrictions, air quality based standards	7. Limitation	8 Maximum actual emissions	9. Compliance status (In/Out)
Coaters 8 & 11	VOC	1200-3-18-.02(7)	per RDD	8.6 lb/gal	IN
Coaters 7 & 10	VOC	1200-3-18-.02(7)	per RDD	2.9 lb/gal	IN
Coaters 3, 4, 5, 6, 15	VOC	1200-3-18-.02(7)	per RDD	2.9 lb/gal (wtd avg)	IN
Coating Dryers	SO2	1200-3-14-.01(3)	0.05 lb/hr		IN
Entire Unit	HAPs	63.3320(b)(2), (b)(3)	0.04 kg/kg coating	0.02 kg/kg solids	IN
Entire Unit	HAPs	63.4291(a)(1), (a)(2)	0.04 kg/kg coating	0.02 kg/kg solids	IN
Entire Unit	HAPs	63.3400(c)(1)	N/A	N/A	IN
Entire Unit	HAPs	63.4322(a)	N/A	N/A	IN
	***	Section 4 continued on form APC 30.3b	***		

10. Other applicable requirements (new requirements that apply to this source during the term of this permit)

11. Page number: APC 30.3a | Revision number: 1 | Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
CURRENT EMISSIONS REQUIREMENTS AND STATUS

GENERAL IDENTIFICATION AND DESCRIPTION

1 Facility name: Holliston Holdings, LLC

2 Emission source number: Source 37-0001-10

3. Describe the process emission source / fuel burning installation / incinerator.
Facility Coaters Nos. 3, 4, 5, 6, 7, 8, 11, and 15, and associated dryers

EMISSIONS AND REQUIREMENTS

4. Identify if only a part of the source is subject to this requirement	5 Pollutant	6 Applicable requirement(s): TN Air Pollution Control Regulations, 40 CFR, permit restrictions, air quality based standards	7. Limitation	8 Maximum actual emissions	9. Compliance status (In/Out)
		Continued from form APC30.3a			
Entire Unit	HAPs	63.4311(a)	N/A	N/A	IN
Coating Dryers	TSP	1200-3-26-.02(9)(g)1	0.61 lb/hr	0.61 lb/hr	IN

10. Other applicable requirements (new requirements that apply to this source during the term of this permit)

N/A	N/A	N/A	N/A	N/A	N/A

11. Page number: APC 30.3b | Revision number: 1 | Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
CURRENT EMISSIONS REQUIREMENTS AND STATUS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Emission source number: Source 37-0001-12

3. Describe the process emission source / fuel burning installation / incinerator: 29.41 MM Btu/hr York-Shipley Boiler

EMISSIONS AND REQUIREMENTS

4. Identify if only a part of the source is subject to this requirement	5. Pollutant	6. Applicable requirement(s): TN Air Pollution Control Regulations, 40 CFR, permit restrictions, air quality based standards	7. Limitation	8. Maximum actual emissions	9. Compliance status (In/Out)
Entire Unit	PM	1200-3-6-.02(2)(b)	9.7 lb/hr	9.7 lb/hr	IN
Entire Unit	SO2	1200-3-14-.02(1)(a)	4.0 lb/MM Btu	117.16 lb/hr	IN
Entire Unit	SO2	1200-3-14-.01(3) (No. 4 oil firing only)	39.16 tons/yr	39.16 tons/yr	IN
Entire Unit	NOx	1200-3-6-.03(2)	4.2 lb/hr	4.2 lb/hr	IN
Entire Unit	CO	1200-3-6-.03(2)	2.47 lb/hr	2.47 lb/hr	IN
Entire Unit	VOC	1200-3-6-.03(2)	0.16 lb/hr	0.16 lb/hr	IN
Entire Unit	SO2	40 CFR 60.48c	N/A	N/A	IN
Entire Unit	---	40 CFR 63.7500	N/A	N/A	IN
Entire Unit	---	40 CFR 63.7545	N/A	N/A	IN

10. Other applicable requirements (new requirements that apply to this source during the term of this permit)

11. Page number: APC 30.4 Revision number: 1 Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
CURRENT EMISSIONS REQUIREMENTS AND STATUS

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Emission source number: Source 37-0001-16

3. Describe the process emission source / fuel burning installation / incinerator: Eight (8) each, 0.8 MM Btu/hr Tenter Drying Ovens

EMISSIONS AND REQUIREMENTS

4. Identify if only a part of the source is subject to this requirement	5 Pollutant	6 Applicable requirement(s): TN Air Pollution Control Regulations, 40 CFR, permit restrictions, air quality based standards	7. Limitation	8 Maximum actual emissions	9 Compliance status (In/Out)
Entire Unit	VOC	1200-3-7-.07(2)	15 tons/yr	15 tons/yr	IN
Entire Unit	PM	1200-3-6-.02(2)(a)	3.84 lb/hr	3.84 lb/hr	IN
Entire Unit	SO2	1200-3-14-.02(2)(a)	39.0 tons/yr	39.0 tons/yr	IN

10. Other applicable requirements (new requirements that apply to this source during the term of this permit)

11. Page number: APC 30.5 | Revision number: 1 | Date of revision: November 23, 2021

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TITLE V PERMIT APPLICATION
COMPLIANCE PLAN AND COMPLIANCE CERTIFICATION

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name:
Holliston Holdings, LLC

2. List all the process emission source(s) or fuel burning installation(s) or incinerator(s) that are part of this application.
37-0001-02: Steam Generating Installation, 39 MM Btu/hr Springfield Boiler
37-0001-04: Waste paper Trim System with Cyclone Control
37-0001-10: Coating Operation with Drying Ovens
37-0001-12: 29.41 MM Btu/hr York-Shipley Boiler 37-0001-16: Eight 0.8 MM Btu/hr. Tenter Ovens

COMPLIANCE PLAN AND CERTIFICATION

3. Indicate that source(s) which are contained in this application are presently in compliance with all applicable requirements, by checking the following:

X A. Attached is a statement of identification of the source(s) currently in compliance. We will continue to operate and maintain the source(s) to assure compliance with all the applicable requirements for the duration of the permit.

X B. APC 30 form(s) includes new requirements that apply or will apply to the source(s) during the term of the permit. We will meet such requirements on a timely basis.

4. Indicate that there are source(s) that are contained in this application which are not presently in full compliance, by checking both of the following:

_____ A. Attached is a statement of identification of the source(s) not in compliance, non-complying requirement(s), brief description of the problem, and the proposed solution.

_____ B. We will achieve compliance according to the following schedule: ***NOT APPLICABLE***

Action	Deadline

Progress reports will be submitted:

Start date: _____ and every 180 days thereafter until compliance is achieved.

5. State the compliance status with any applicable compliance assurance monitoring and compliance certification requirements that have been promulgated under section 114(a)(3) of the Clean Air Act as of the date of submittal of this APC 31.

N/A

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TITLE V PERMIT APPLICATION
AIR MONITORING NETWORK

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

2. Facility street address: 905 Holliston Mills Rd | City: CHURCH HILL | Zip Code: 37642

3. Air monitoring contact name: | Title: | Telephone number with area code:

AIR MONITORING NETWORK DESCRIPTION

4. For existing networks, indicate the type of air monitoring network. (i.e. indicate all of the pollutants which are currently being monitored for)

5. For proposed new networks, indicate the type of air monitoring network. (i.e. indicate all of the pollutants which will be monitored)

6. If conducting PSD pre-construction monitoring, briefly describe the reason for monitoring.
If conducting PSD post-construction monitoring, briefly describe the reason for monitoring.

QUALITY ASSURANCE / QUALITY CONTROL PLAN

7. Will a quality assurance/quality control plan be submitted with the permit application?

_____ YES _____ NO If no, provide the plan within 30 days of permit application date.

8. If a plan has already been submitted and previously approved (i.e. the network is an existing network), provide a copy of the most recently updated plan with any revisions or changes as an attachment to the permit application. Provide the date of the previous approval by the Technical Secretary.

Previous approval date: _____

9. The quality assurance / quality control plan which is submitted must at least contain sections that specifically address each of the following areas identified below in order to be considered acceptable.

A. Selection of analyzers, samplers or sampling methods including installation of equipment, preventive and remedial maintenance.

B. Training of staff on equipment or methods.

C. Calibration procedures, frequency of calibration, control of calibration standards, recertification of standards.

D. Zero and span check frequency, adjustment of instrument response.

E. Control check frequency, control limits for zero and span response, including corrective action procedures.

F. Recording, validating, and reporting procedures for data, including assessment and reporting of precision and accuracy data.

G. Procedures to document implementation of plan and any subsequent changes to the plan.

H. Procedures to document and report causes of any missed data, violations of ambient air quality standards, including upset conditions or malfunctions that affect or impact analyzers or samplers.

I. Siting of analyzers or samplers including topographic map coordinates, photographs of sites, maps with major terrain features, roads, buildings, rivers, and proposed or existing air contaminant sources.

10. Page number: APC 32.1 | Revision number: 1 | Date of revision: November 23, 2

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TITLE V PERMIT APPLICATION
STAGE I AND STAGE II VAPOR RECOVERY

GENERAL IDENTIFICATION AND DESCRIPTION

1. Facility name: Holliston Holdings, LLC

TANK DESCRIPTION

2. Number, gas type, capacity, type of tank [aboveground (AG), underground (UG)], installation date

Tank #	Gas Type	Size	Tank Type circle one	Installation Date	Tank #	Gas Type	Size	Tank Type circle one	Installation Date
1		gal.	AG / UG		7		gal.	AG / UG	
2		gal.	AG / UG		8		gal.	AG / UG	
3		gal.	AG / UG		9		gal.	AG / UG	
4		gal.	AG / UG		10		gal.	AG / UG	
5		gal.	AG / UG		11		gal.	AG / UG	
6		gal.	AG / UG		12		gal.	AG / UG	

FACILITY DESCRIPTION

3. Total number of gasoline nozzles: _____ Nozzle model number: _____

4. Gasoline dispenser mfr. _____ Dispenser model number: _____

5. Type of Stage I system: _____ Type of Stage II system: _____

6. Maximum monthly throughput: _____ gallons Average yearly throughput: _____ gallons

SUPPLIER INFORMATION

7. Supplier of gasoline:

Company name: _____ Contact name: _____

Address: _____ Address: _____

_____ _____

Telephone number with area code: _____ Telephone number with area code: _____

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TITLE V PERMIT APPLICATION
OPEN BURNING

GENERAL IDENTIFICATION AND DESCRIPTION

1. Company name:
Holliston Holdings, LLC

Mailing address (ST/RD/P.O. BOX):
905 Holliston Mills Rd

City, zip code:
CHURCH HILL

Address of burning site:
N/A

City:

County where burn will be conducted:

Name of official contact:

Official's title:

Telephone number (with area code):

OPEN BURNING DESCRIPTION

2. Material to be burned:

	Pounds per day
Trees, limbs, brush:	
Wood products:	
Household waste, except garbage:	
Petroleum waste:	
Other (describe):	

Total weight of material to be burned: _____ tons/year

On what date is it desired to begin such open burning? _____

How long will such open burning continue? _____

During what hours of the day will burning be conducted: _____ to _____

Frequency of burning: _____ days/week

3. Give reasons which in your opinion justify disposal by burning rather than other methods creating less air pollution.

4. Will an air curtain destructor be used to conduct this burning (yes/no)?

5. What plans have been made to reduce or eliminate open burning at this site?

6. On a map with a scale of not less than 1:24,000, show the location of the following:
   A. The burning site.
   B. A road or highway within one mile of the site.
   C. Airports, hospitals, schools, or nursing homes within one mile of the site.
   D. Nearest incorporated town.
   E. Sanitary landfill or similar facility, within 1000 feet of the site
   F. Nearest residence not on the same property as the burning site.
   G. National reservation, wildlife area, state park or forest within ½ mile of the burning site.

7. Page number: APC 34.1 | Revision number: 1 | Date of revision: November 23, 202

PERMIT APPLICATION ATTACHMENTS

- APC 1 Attachment – List of Insignificant Sources/Emissions Units
- APC 23 Attachment – Cyclone Maintenance Logsheet
- APC 26 Attachment I – Facility VOC and HAP Emissions Estimation Procedure
- APC 26 Attachment II – Letter dated February 13, 2020, Operational Flexibility Notification
- APC 26 Attachment III – Coater VOC Compliance Tracking
- APC 26 Attachment IV – Procedure for Calculation of HAPs from Coating and Printing
- APC 26 Attachment V – Procedure for Calculation of Combustion Emissions from Boilers #2 and #12
- APC 26 Attachment VI – Calculation Table for Coating Dryers Combustion Emissions
- APC 26 Attachment VII – Calculation Table for Source #16 Tenter Ovens Combustion Emissions
- Actual Emissions – Summary Table for Period July 1, 2020 through June 30, 2021
- Opacity Matrix Decision Tree for Visible Emission Evaluation by EPA Method 9, dated June 18, 1996 and amended September 11, 2013
- AP-42 Emission Factors from Natural Gas Combustion, Supplement to 5th Edition, Dated 7/98
- AP-42 Emission Factors for Uncontrolled Fuel Oil Combustion, 5th Edition, Dated 5/2010
- Drawing – Holliston Site Facilities Layout
- Drawing – Holliston Production Building Stack Locations
- Drawing – Holliston Stack Layout Table (Stack Identifications)

APC 1 Attachment 1
Holliston Holdings, LLC – Title V Permit Application
Insignificant Sources/Emission Units

Exhaust ID	Description	Capacity	Exemption 1200-3-9-0.04
E1W	1 Compactor Area Heater #1	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
E2W	2 Compactor Area Heater #2	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
E3W	3 Warehouse Heater #1	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
E6W	4 Warehouse Heater #2	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
E7W	5 Warehouse Heater #3	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
E9W	6 Warehouse Heater #4	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
E10W	7 Warehouse Heater #5	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Area Vents between Tenter #1 & #2	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Opaque Machine/Vent	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Vent over Scray Box (Bleach House)	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Vent over Desize Tank	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Vent in Compactor Room	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Vent over Caustic Tub Washer	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Vent over Range #3 & #4	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Vent over Slitter Room	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Vent over Power Rooms	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Repair, cleaning, maintenance, degreasing operations	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)

APC 1 Attachment 1
Holliston Holdings, LLC – Title V Permit Application
Insignificant Sources/Emission Units

None	8 Maintenance Heater	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
P6A	9 Saturator Oven	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
None	10 Coater #15 Heater	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
None	11 Warehouse Heater	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
None	12 Coating Dept. Heater #1	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
None	13 Coating Dept. Heater #2	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
None	14 Coating Dept. Heater #3	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
None	15 Coating Dept. Heater #4	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
None	16 Pent House Heater #1	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
None	17 Pent House Heater #2	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
None	18 Pent House Heater #3	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
None	19 Pent House Heater #4	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
N/A	Calender Roll heater – natural gas singer	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	~~(5)(a)4(i)~~
P9F. E19F	Solvent Coating Mixing Room	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
P60F	Syloid Room Exhaust	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
P48F, P49F P51F	Pigment Grinding Exhaust	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
P58F. P67F	Jelly Room Exhaust	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
E26A	Opaque Machine	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)

APC 1 Attachment 1
Holliston Holdings, LLC – Title V Permit Application
Insignificant Sources/Emission Units

C2A	Torpedo Mix Exhaust	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
E4F, E5F, E52F, E62F	Tub Washing Room	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
P1A, P2A, P3A	Tenter #1	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
P4A, P5A, P6A	Tenter #2	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
P7A, P8A, P9A, P10A	Tenter #3	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
P11A, P12A, P22A	Tenter #4	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
P20A, P21A	Tenter #5	PTE < 5 tpy of non hazardous pollutants < .5 tpy of hazardous pollutants	(5)(a)4(i)
	Revision: 3	Revision Date: October 06, 2014	

APC 23 Attachment

Holliston Holdings, LLC Title V Permit No. 568009; Source 37-0001
Cyclone Maintenance Log [Permit Condition E6-2]

Maintenance							
START		END					
Time	Date	Time	Date	Month/YR	Description of Maintenance	Worker's Initials	ENV Mgr Review

Maintenance will log in all mechanical repairs on the "Cyclone" within 72 hours of completion.

Visual inspections and removing trash from the warehouse unit is not considered maintance on the cyclone.

Routine inspections/cleaning will be conducted each work day, typically by the night maintenace shift.

APC 26 Attachment I

Facility VOC and HAP Emissions Estimation Procedure

Holliston Holdings, LLC
Church Hill, TN

References: Attachment I to ICG Holliston Mills letter: "Response to Comments and Revisions to the Title V Air Permit Application", dated April 26, 2000

APC 26 Attachment I, Holliston Title V Permit Application, dated October 6, 2014

Operational Flexibility Notification, dated February 13, 2020

This document has been updated from the 2014 version to include procedure changes which became necessary with the optional use of off-site (toll) manufactured nitrocellulose jellies and EVA jelly, which had been produced solely on-site at Holliston prior to 2020.

Annual total VOC emissions from the facility are estimated based on net solvent consumption (i.e., year beginning inventory *plus* purchase for the year *minus* year-end inventory *minus* waste solvent shipped), assuming 100% of the Solvents consumed is released to the atmosphere. Holliston Holdings LLC uses HM Blend, Isopropyl Alcohol (IPA), Toluene, Isopropanol, n-butyl Acetate and MIBK, as well as toll-converted VOC-containing EVA jelly, ½ Sec Nitrocellulose jelly, and 5/6 Sec Nitrocellulose jelly. The following calculation steps are used:

1. Obtain prior year-end (for example, 2020) inventory for each of the solvents used (in gallons). This value corresponds to beginning year inventory (2021) at hand of the year for which emissions are estimated.
2. Obtain annual (2021) total purchase data for each of the solvents (in gallons).
3. Obtain current year-end (2021) inventory in gallons.
4. Obtain total solvent included in the annual (2021) hazardous waste shipments. Calculate amount of individual solvents included in the shipments (in gallons or lbs) using available composition data or best engineering estimate based on historic data.
5. Calculate annual total solvents consumed in gallons or lbs using the equation: year beginning inventory *plus* purchase for the year *minus* year-end inventory *minus* waste solvent shipped.
6. Set annual VOC emissions (lbs) = annual solvent consumption, assuming 100% of consumed solvents are emitted to the atmosphere.
7. Using annual consumption and average (wt%) composition of the solvents and blended solvents given below, estimate individual HAP emissions:
   - HM Blend: 60% toluene; 16% acetone; 4% isopropyl acetate; 20% isopropyl alcohol (IPA)
   - Toluene: 100% toluene
   - Isopropanol (IPA, anhydrous): 100% IPA
   - n-Butyl Acetate: 100% n-butyl acetate
   - MIBK: 100% MIBK
   - EVA jelly: 55% toluene; 8% acetone; 2% isopropyl acetate; 10% IPA
   - NC 5/6 Jelly Cut: 45.5% toluene; 12.1% acetone; 3% isopropyl acetate; 22.4% IPA
   - NC ½ Sec Jelly Cut: 35.2% toluene; 9.4% acetone; 2.35% isopropyl acetate; 24.1% IPA
8. Note that only toluene, methanol and MIBK are HAPs to be included in HAP estimation.
9. All resulting data are arranged in a report table as shown:

Pollutant	Toluene	Methanol	MIBK	Total HAPs	Total VOC
HAP (y/n)	Yes	Yes	Yes	Yes	
	(tons)	(tons)	(tons)	(tons)	(tons)
Total Emissions For Period (tons)					
Total Emissions For Period (lbs)					

Revision: November 23, 2021

Attachment APC 26 II

HOLLISTON

Holliston Holdings LLC
905 Holliston Mills Rd.
Church Hill, TN. 37642
www.holliston.com

423-357-6141 *phone*
800-251-0251 *customer service*
423-357-3893 *int'l phone*
800-325-0351 *fax*

February 13, 2020

Technical Secretary
Tennessee Department of Environment and Conservation
Division of Air Pollution Control
William R. Snodgrass Tennessee Tower
312 Rosa Parks Avenue, 15th Floor
Nashville, TN 37243

RE: Holliston Holdings LLC, Church Hill, TN – Hawkins County
Title V Air Permit 568009 [Source No. 37-0001] -- Operational Flexibility Notification

Dear Sir/Madam:

Holliston Holdings, LLC facility located in Church Hill in Hawkins County currently operates under a Title V Air Permit [Permit No. 568009, Source # 37-0001] and has been duly in compliance with the terms and conditions of the permit.

Through this submittal, Holliston Holdings, LLC is providing Tennessee Department of Environmental Conservation Division of Air Pollution Control (TDEC) with this notification of change under the Operational Flexibility provisions of the Title V Air Permit, as provided under Section C, Permit Condition C1. Further, the change enumerated here complies with all requirements as stipulated under items (a) through (g) of Permit Condition C1.

Source subject to Notification: Coating Operations (Source 37-0001)

Brief Description of Change:
The Holliston Holdings facility experienced a fire event in November 2019, when part of the facility operations (also called 'mixing room') associated with mixing and preparation of solvent-based coatings was partially disabled. Immediately following this event, the facility suspended solvent-based coating preparations in the mixing room. Concurrently, the facility is working with the Insurance provider for the facility to assess the extent of damage, and for re-build/re-start of operations of the mixing room. However, processing of insurance claim and adjustments is taking a substantially longer time. In order to meet our customers' quality requirements and to stay on schedule with solvent-based coated products delivery dates, Holliston will be purchasing pre-mixed solvent-based materials (in place of the on-site mixing performed previously) and use them to prepare the solvent-based coatings. The purchased materials will be based on the exact composition (chemicals and % content of each chemical) that were made in-house using the

mixing room in the past, prior to the fire event. Air emissions from the facility's mixing and coating operations will not change (both in terms of VOCs and HAPs); total air emissions (of VOCs and HAPs) will remain at the same level from these operations, as before the fire event.

Permit Applicability of Change:
No Changes in the Permit terms and conditions are sought as a result of this operational flexibility change.

Truth and Accuracy Statement:
I have reviewed the information contained in this operational flexibility notification in its entirety, and to the best of my knowledge, and based on information and belief after reasonable review, certify that the statements and information provided herein are true, accurate and complete.

We thank you for your timely consideration of this matter.

If you have any questions or require additional information, please feel free to contact Jack Brown at 423-357-6141 at extension 6021 or via email at: jbrown@holliston.com

Sincerely,

Holliston Holdings, LLC

Sheldon Sillyman
VP of Business Development

Cc: Doug S. Wright, TAPCD, Nashville, TN
Jack Brown, Environmental & Safety Manager
Suresh Santanam, S-Square Consulting

APC 26 Attachment III

Coater VOC Compliance Tracking

Holliston Holdings, LLC
Church Hill, TN

Reference: Major source operating permit application revised April 26, 2000, Permit Attachment II

Every coating or formulation used at the Holliston Holdings, LLC facility is maintained in a computerized database. The information maintained in the database (to make each gallon of coating) include: individual constituents and quantities required to make a gallon of coating, amounts of solvents used, amount of solids, calculated lb VOC/gallon of coating, and calculated lb water/gallon of coating. The following procedure is used to schedule the coating to the appropriate coater, and to generate monthly compliance information:

1. Holliston customer service team receives each order as they are placed by the customer over phone or sent via written purchase orders.
2. A team member obtains coating information (color, type, VOC content, etc.) for the ordered product number from the database. Based on coating VOC content (lb/gal), the production run is scheduled for the coater where product can be run based on permit limit on VOC content (for example, solvent coatings are directed to coaters number 8 or 11).
3. As the orders are completed, the product runs are tracked in the computer database.
4. On a monthly basis, the information from the database is printed out for each coater. A line item in the print-out corresponds to one product run. The print-out also provides monthly total VOC consumed (based on coating composition), individual coating VOC content in lbs VOC/gal, and average VOC content in lbs VOC/gal.
5. The print-out is reviewed against permit limits for each of the coaters.
6. Each monthly print-out is reviewed and signed by environmental coordinator and plant Responsible Official.
7. Signed monthly print-outs are maintained in the regulatory file folders.
8. Monthly reports are summarized, reviewed, and sent to TDEC under signature on a semiannual basis.

Revision Date:

November 23, 2021

Procedure for Calculation of HAPs from Coating and Printing

Holliston Holdings, LLC
Church Hill, TN

Every variety of coated cloth or paper produced at the Holliston Holdings, LLC facility is maintained in a computerized database. The information maintained in the database (to make each yard of coated product) include: individual constituents and quantities required, amounts of HAPs used, and amount of solids in each coating type. Additionally, a production database is maintained which tabulates production yardage of each product variety as it is produced. For purposes of demonstrating compliance with MACT Standards Subpart JJJJ for Paper Coating Operations and Subpart OOOO for Fabric Coating Operations, Holliston utilizes the following procedure to generate monthly compliance information.

1. Holliston customer service team receives each order as they are placed by the customer over phone or sent via written purchase orders.
2. A team member obtains coating information (color, type, VOC content, etc.) for the ordered product number from the database. Based on coating VOC content (lb/gal), the production run is scheduled for the coater where product can be run based on permit limit on VOC content (for example, solvent coating are directed to coaters number 8 or 11).
3. As the orders are completed, the product run yardages are tracked in the computer production database.
4. On a monthly basis, production yardage data from the database is printed out for each product variety. The production yardage data are input to the coating composition database and calculations are performed to determine kilograms of HAPs/kilogram of coating, and kilograms of HAPs/kilogram of coating solids. In addition, mass of HAPs used for equipment cleaning and mass of HAPs in waste streams are compiled to complete the formula for Mass of HAP Emissions required per subpart OOOO.
5. The calculations are reviewed against MACT limits of HAPs applied (kg)/Coatings Mass (kg) and HAPs applied (kg)/Solids Mass (kg) per subpart JJJJ §63.3320(b)(2) and (b)(3) and against HAPs emissions (kg)/Solids Mass (kg), 12-month rolling average, per subpart OOOO §63.4332 (*Emission rate without add-on Controls Option*).
6. All resulting data are arranged in a report table as shown below.
7. Monthly print-outs are maintained in the regulatory file folders.
8. Monthly reports are summarized, reviewed, and sent to EPA and TDEC under signature on a semiannual basis.

Semiannual MACT Compliance Summary JJJJ

	Year	20xx	20xx	20xx	20xx	20xx	20xx
	Month	Apr	May	Jun	Jul	Aug	Sep
Parameter	**Standard**						
Total HAPs Applied (kg)							
Total Coatings Applied (kg)							
HAPs (kg)/Coatings Mass (kg) under 63.3320(b)(2)	**0.04**						
Total Solids (kg)							
HAPs (kg)/Solids Mass (kg) under 63.3320(b)(3)	**0.20**						
Compliant (Yes/No)							

Semiannual MACT Compliance Summary OOOO

	Year	20xx	20xx	20xx	20xx	20xx	20xx
	Month	Apr	May	Jun	Jul	Aug	Sep
Parameter	**Standard**						
Total Solids (kg)							
HAPs (kg)/Solids Mass (kg) under 63.4332 (12-month Compliance Period)	**0.12**						
Compliant (Yes/No)							

Revision Date: November 23, 2021

APC 26 Attachment V

Procedure for Calculation of Combustion Emissions from Boilers #2 and #12

Holliston Holdings, LLC
Church Hill, TN

Reference: EPA AP-42, Compilation of Air Pollutant Emission Factor, Chapter 1, Section 1.4, Natural Gas Combustion, July 1998

To demonstrate compliance with emission limitations for Boiler #2 and Boiler #12, Holliston maintains a log of natural gas usage for each of the boilers. These usages are applied to factors obtained from AP-42 Natural Gas Combustion – Tables 1.4-1 and 1.4-2 to obtain the pollutant emissions. The resulting data are arranged monthly into the tables shown below. These tables are maintained in Holliston company files and sent to TDEC under signature on a semiannual basis.

Monthly Fuel Use — Reporting Period:

Month	No.6 Oil (gal)		Sulfur Content (%)	No.4 Oil (gal)		Sulfur Content (%)	No.2 Oil (gal)		Sulfur Content (%)	Natural Gas (million SCF)	
	Boiler #2	Boiler #12		Boiler #2	Boiler #12		Boiler #2	Boiler #12		Boiler #2	Boiler #12

Actual Monthly Emissions for Boiler Source #12

Fuel	No. 4 Fuel Oil					No. 2 Fuel Oil					Natural Gas Fuel				
Pollutant	PM (TSP)	SO_2	NOx	VOC	CO	PM (TSP)	SO_2	NOx	VOC	CO	PM (TSP)	SO_2	NOx	VOC	CO
AP-42 Factor	7	150S	20	0.2	5	2	142S	20	0.2	5	7	0.6	50	5.5	84
Total (tons)															

Actual Monthly Emissions for Boiler Source #2

Fuel	No. 6 Fuel Oil				No. 4 Fuel Oil				No. 2 Fuel Oil				Natural Gas Fuel			
Pollutant	PM (TSP)	SO_2	NOx	VOC	PM (TSP)	SO_2	NOx	VOC	PM (TSP)	SO_2	NOx	VOC	PM (TSP)	SO_2	NOx	VOC
AP-42 Factor	10	157S	55	0.28	7	150S	20	0.2	2	142S	20	0.2	6.2	0.6	140	2.7
Total (tons)																

Boiler Emissions Summary

Fuel	Both boilers and all Fuels				
Pollutant	PM (TSP)	SO_2	NOx	VOC	CO
Month	(tons/month)	(tons/month)	(tons/month)	(tons/month)	(tons/month)
Total (tons)					

Attachment APC 26 VI

Holliston Holdings, LLC

Church Hill, TN

Title V Report (Source #10 Coating Operation with Drying Ovens)

Permit No: 568009 Emission Source: 37-0001

Fiscal Year Coating Dryers Emissions (tons)

Permit Condition E7-3

Estimated Natural Gas Usage (million ft3/year) =

Pollutant	AP-42 Emission Factor (lb/million ft3 of Natural Gas)	Emission Rate (tons/year)
PM (TSP)	6.2	
SO2	0.6	
NOx	140	
VOC (excluding Methane)	2.7	

Notes:

1. Each dryer for coaters 3,4,5, 7, 8, and 15 are rated at 10 MMBtu/hr, respectively
2. Coater 11 is 3.2 MM Btu/hr (1.78 and 1.42 MMBtu/hr)
3. Coater 6 is rated for 2 MMBtu/hr
4. Natural Gas heat content of 1030 Btu/ft3 is used as conversion factor
5. Each operating coater dryer is assumed run for 4000 hours/year

Attachment APC 26 VII

Holliston Holdings, LLC
Church Hill, TN
Title V Report (Source #16 Tenter Ovens)
Permit No: 568009 Emission Source: 37-0001

Fiscal Year Coating Dryers Emissions (tons)

Permit Condition E11-3

Estimated Natural Gas Usage (million ft3/year) =

Pollutant	AP-42 Emission Factor (lb/million ft3 of Natural Gas)	Emission Rate (tons/year)
PM (TSP)	6.2	
SO2	0.6	
NOx	140	
VOC (excluding Methane)	2.7	

Notes:

1. Each tenter drying oven is rated at 0.8 MMBtu/hr (total of 8 drying ovens)
2. Natural Gas heat content of 1030 Btu/ft3 is used as conversion factor
3. Each coater dryer is assumed run for 8760 hours/year

Holliston Holdings, LLC
Church Hill, TN
Title V Report (Fiscal 2020 - 2021 Emissions)
Permit No: 568009 Emission Source: 37-0001

Fee Emissions Summary Table for Major Source 37-0001

Permit Condition E1 Fee Payment : Actual Emissions Basis [2020-21]

Regulated Pollutants	Allowable Emissions (tons per AAP)	Actual Emissions (tons per AAP)	Comments
PM (TSP)	N/A		
PM -10	N/A		
SO2	N/A		
VOC	N/A		
NOx	N/A		
CO	N/A		

Category of Miscellaneous Hazardous Air Pollutants (HAP without a Standard) *

VOC Family Group	N/A		Fee Emissions are included in VOC above
Non-VOC Family Group	N/A		
PM Family Group	N/A		

Category of Miscellaneous Hazardous Air Pollutants (HAP with a Standard) **

VOC Family Group	N/A		
Non-VOC Family Group	N/A		
PM Family Group	N/A		

Category of NSPS Pollutants Not Listed Above ***

VOC Family Group	N/A		

NOTES:

Reflects July 1, 2020 through June 30, 2021 (For Fee Determination)

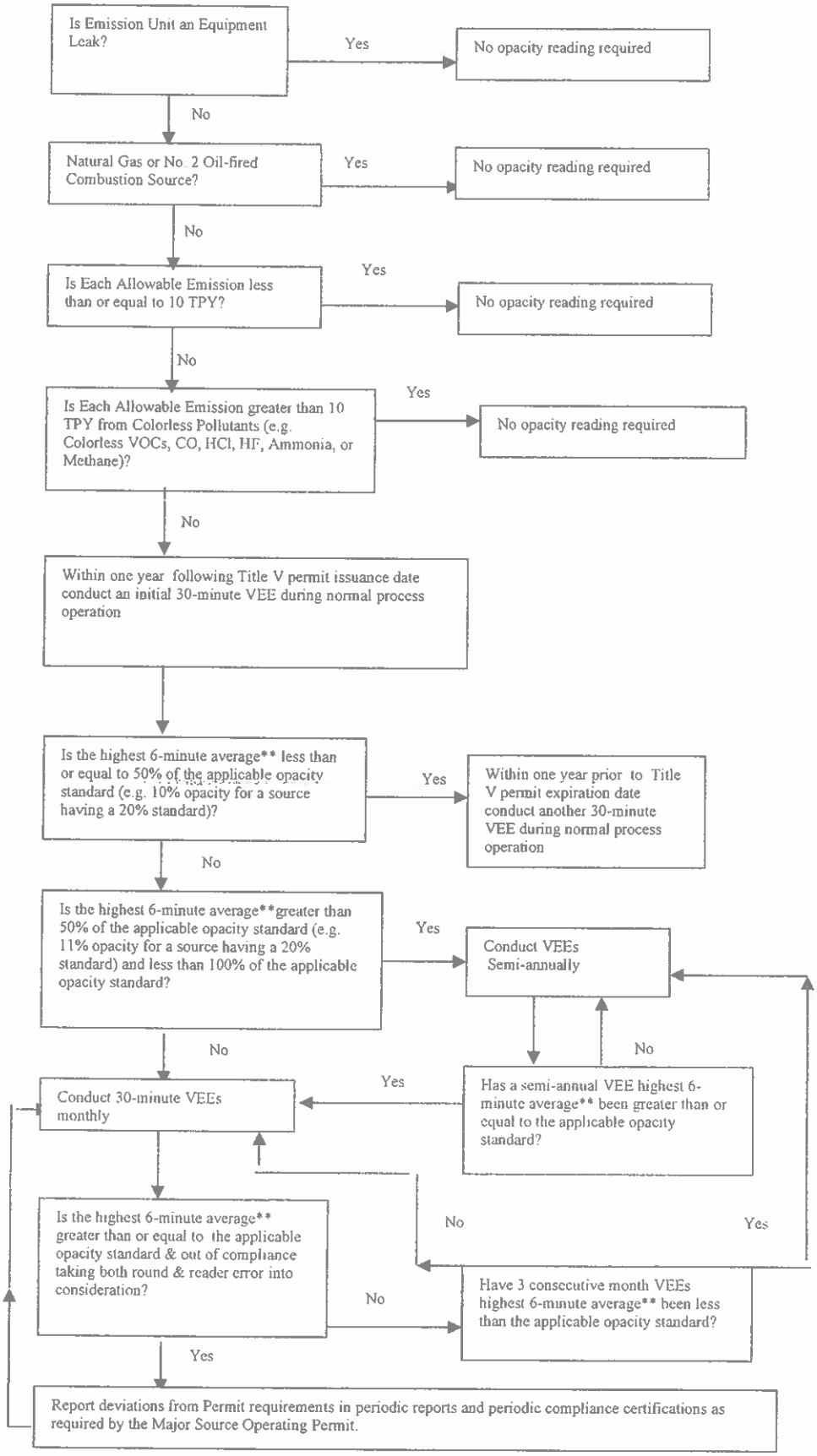
AAP The Annual Accounting Period (AAP) is a twelve (12) Consecutive month period that begins each July 1st and ends June 30th of the following year.
N/A indicates that no emissions are specified for fee computation
AEAR indicates that an Actual Emissions Analysis is Required to determine the actual emissions of:
(1) each regulated pollutant (Particulate matter, SO2, VOC, NOx, and so forth.
See TAPCR 1200-3-26-.-2(2)(l) for the definition of a regulated pollutant)
(2) each pollutant group (VOC family, Non-VOC gaseous, and Particulate family), and
(3) the Miscellaneous HAP Category
under consideration during the Annual Accounting Period

* Category Of Miscellaneous HAP (HAP Without A Standard): this category is made-up of hazardous air pollutants that do not have a federal or state standard. Ach HAP is classified into one of three groups, the VOC Family group, the Non-VOC Gaseous group, or the Particular (PM) Family group. For fee computation, the Miscellaneous HAP Category is subject to the 4,000 ton cap provisions of subparagraph 1200-3-26-.02(2)(l)

** Category Of Specific HAP (HAP With A Standard): this category is made-up of hazardous air pollutants (HAP) that are subject to Federally promulgated Hazardous Air Pollutant Standards that can be imposed under Chapter 1200-3-11 or Chapter 1200-3-31 Each individual hazardous air pollutant is classified into one of three groups, the VOC Family group, the Non-VOC Gaseous group, or the Particulate (PM) Family group. For fee computation, each individual hazardous air pollutant of the Specific HAP Category is subject to the 4,000 ton cap provisions of subparagraph 1200-3-26-.02(2)(l).

*** Category Of NSPS Pollutants Not Listed Above: This category is made-up of each New Source Performance Standard (NSPS) pollutant whose emissions are not included in the PM, SO2, VOC or NOx emissions from each source in this permit. For fee computation, each NSPS pollutant not listed above is subject to the 4,000 ton cap provisions of subparagraph 1200-3-26-.02(2)(l).

Decision Tree PM for Opacity for Sources Utilizing EPA Method 9*



Notes:

PM = Periodic Monitoring required by 1200-03-09-.02(11)(e)(iii).

This Decision Tree outlines the criteria by which major sources can meet the periodic monitoring and testing requirements of Title V for demonstrating compliance with the visible emission standards set forth in the permit. It is not intended to determine compliance requirements for EPA's Compliance Assurance Monitoring (CAM) Rule (formerly referred to as Enhanced Monitoring – Proposed 40 CFR 64).

Examine each emission unit using this Decision Tree to determine the PM required.*

Use of continuous emission monitoring systems eliminates the need to do any additional periodic monitoring.

Visible Emission Evaluations (VEEs) are to be conducted utilizing EPA Method 9. The observer must be properly certified to conduct valid evaluations.

Typical Pollutants
Particulates, VOC, CO, SO_2, NO_x, HCl, HF, HBr, Ammonia, and Methane.

Initial observations are to be repeated within 90 days of startup of a modified source, if a new construction permit is issued for modification of the source.

A VEE conducted by TAPCD personnel after the Title V permit is issued will also constitute an initial reading.

Reader Error
EPA Method 9, Non-NSPS or NESHAPS stipulated opacity standards:
The TAPCD guidance is to declares non-compliance when the highest six-minute average** exceeds the standard plus 6.8% opacity (e.g. 26.8% for a 20% standard).

EPA Method 9, NSPS or NESHAPS stipulate opacity standards:
EPA guidance is to allow only engineering round. No allowance for reader error is given.

*Not applicable to Asbestos manufacturing subject to 40 CFR 61.142

**Or second highest six-minute average, if the source has an exemption period stipulated in either the regulations or in the permit.

Dated June 18, 1996
Amended September 11, 2013

Table 1.4-1. EMISSION FACTORS FOR NITROGEN OXIDES (NO_x) AND CARBON MONOXIDE (CO) FROM NATURAL GAS COMBUSTION[a]

Combustor Type (MMBtu/hr Heat Input) [SCC]	NO_x[b]		CO	
	Emission Factor ($lb/10^6$ scf)	Emission Factor Rating	Emission Factor ($lb/10^6$scf)	Emission Factor Rating
Large Wall-Fired Boilers (>100) [1-01-006-01, 1-02-006-01, 1-03-006-01]				
Uncontrolled (Pre-NSPS)[c]	280	A	84	B
Uncontrolled (Post-NSPS)[c]	190	A	84	B
Controlled – Low NO_x burners	140	A	84	B
Controlled – Flue gas recirculation	100	D	84	B
Small Boilers (<100) [1-01-006-02, 1-02-006-02, 1-03-006-02, 1-03-006-03]				
Uncontrolled	100	B	84	B
Controlled – Low NO_x burners	50	D	84	B
Controlled – Low NO_x burners/Flue gas recirculation	32	C	84	B
Tangential-Fired Boilers (All Sizes) [1-01-006-04]				
Uncontrolled	170	A	24	C
Controlled – Flue gas recirculation	76	D	98	D
Residential Furnaces (<0.3) [No SCC]				
Uncontrolled	94	B	40	B

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. To convert from $lb/10^6$ scf to $kg/10^6$ m^3, multiply by 16. Emission factors are based on an average natural gas higher heating value of 1,020 Btu/scf. To convert from $lb/10^6$ scf to lb/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. SCC = Source Classification Code. ND = no data. NA = not applicable.

[b] Expressed as NO_2. For large and small wall fired boilers with SNCR control, apply a 24 percent reduction to the appropriate NO_x emission factor. For tangential-fired boilers with SNCR control, apply a 13 percent reduction to the appropriate NO_x emission factor.

[c] NSPS=New Source Performance Standard as defined in 40 CFR 60 Subparts D and Db. Post-NSPS units are boilers with greater than 250 MMBtu/hr of heat input that commenced construction modification, or reconstruction after August 17, 1971, and units with heat input capacities between 100 and 250 MMBtu/hr that commenced construction modification, or reconstruction after June 19, 1984

TABLE 1.4-2. EMISSION FACTORS FOR CRITERIA POLLUTANTS AND GREENHOUSE GASES FROM NATURAL GAS COMBUSTION[a]

Pollutant	Emission Factor ($lb/10^6$ scf)	Emission Factor Rating
CO_2[b]	120,000	A
Lead	0.0005	D
N_2O (Uncontrolled)	2.2	E
N_2O (Controlled-low-NO_X burner)	0.64	E
PM (Total)[c]	7.6	D
PM (Condensable)[c]	5.7	D
PM (Filterable)[c]	1.9	B
SO_2[d]	0.6	A
TOC	11	B
Methane	2.3	B
VOC	5.5	C

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from $lb/10^6$ scf to $kg/10^6$ m^3, multiply by 16. To convert from $lb/10^6$ scf to lb/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. TOC = Total Organic Compounds. VOC = Volatile Organic Compounds.

[b] Based on approximately 100% conversion of fuel carbon to CO_2. $CO_2[lb/10^6 scf] = (3.67)(CON)(C)(D)$, where CON = fractional conversion of fuel carbon to CO_2, C = carbon content of fuel by weight (0.76), and D = density of fuel, $4.2x10^4$ $lb/10^6$ scf.

[c] All PM (total, condensable, and filterable) is assumed to be less than 1.0 micrometer in diameter. Therefore, the PM emission factors presented here may be used to estimate PM_{10}, $PM_{2.5}$ or PM_1 emissions. Total PM is the sum of the filterable PM and condensable PM. Condensable PM is the particulate matter collected using EPA Method 202 (or equivalent). Filterable PM is the particulate matter collected on, or prior to, the filter of an EPA Method 5 (or equivalent) sampling train.

[d] Based on 100% conversion of fuel sulfur to SO_2.

Assumes sulfur content is natural gas of 2,000 grains/10^6 scf. The SO_2 emission factor in this table can be converted to other natural gas sulfur contents by multiplying the SO_2 emission factor by the ratio of the site-specific sulfur content (grains/10^6 scf) to 2,000 grains/10^6 scf.

AP-42 Emission Factors for Uncontrolled Fuel Oil Combustion

5th Edition, Dated 5/2010

TABLE 1.3-1. CRITERIA POLLUTANT EMISSION FACTORS FOR FUEL OIL COMBUSTION[a] – PARTIAL TABLE

Firing Configuration (SCC)[a]	SO_2[b]		SO_3[c]		NO_X[d]		CO[e]		Filterable PM[f]	
	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING
Boilers < 100 Million Btu/hr										
No. 6 oil fired (1-02-004-02/03) (1-03-004-02/03)	157S	A	2S	A	55	A	5	A	9.19(S)+3.22[i]	B
No. 5 oil fired (1-03-004-04)	157S	A	2S	A	55	A	5	A	10[i]	A
No. 4 oil fired (1-03-005-04)	150S	A	2S	A	20	A	5	A	7	B
Distillate oil fired (1-02-005-02/03) (1-03-005-02/03)	142S	A	2S	A	20	A	5	A	2	A
Residential furnace (A2104004/A2104011)	142S	A	2S	A	18	A	5	A	0.4[g]	B

[a] To convert from $lb/10^3$ gal to $kg/10^3$ L, multiply by 0.120. SCC=Source Classification Code.

[b] References 1-2, 6-9, 14, 56-60. S indicates that the weight % of sulfur in the oil should be multiplied by the value given. For example, if the fuel is 1% sulfur, then S=1.

[c] References 1-2, 6-8, 16, 57-60. S indicates that the weight % of sulfur in the oil should be multiplied by the value given. For example, if the fuel is 1% sulfur, then S=1.

[d] References 6-7, 15, 19, 22, 56-62. Expressed as NO_2. Test results indicate that at least 95% by weight of NO_X is NO for all boiler types except residential furnaces, where about 75% is NO. For utility vertical fired boilers use $105\ lb/10^3$ gal at full load and normal (>15%) excess air. Nitrogen oxides emissions from residential oil combustion in industrial and commercial boilers are related to fuel nitrogen content, estimated by the following empirical relationship: lb $NO_2/10^3$ gal = 20.54 + 104.39(N), where N is the weight % of nitrogen in oil. For example, if the fuel is 1% nitrogen, then N = 1.

[e] References 6-8, 14, 17-19, 56-61. CO emissions may increase by factors of 10 to 100 if the unit is improperly operated or not well maintained.

[f] References 6-8, 10, 13-15, 56-60, 62-63. Filterable PM is that particulate collected on or prior to the filter of an EPA Method 5 (or equivalent) sampling train. Particulate emission factors for residual oil combustion are, on the average, a function of fuel oil sulfur content where S is the weight % of sulfur in oil. For example, if fuel is 1% sulfur, then S =1.

[g] Based on data from new burner designs. Pre-1970's burner designs may emit filterable PM as high as 3.0 $lb/10^3$ gal.

Table 1.3-3. EMISSION FACTORS FOR TOTAL ORGANIC COMPOUNDS (TOC), METHANE, AND NONMETHANE TOC (NMTOC) FROM UNCONTROLLED FUEL OIL COMBUSTION[a]

EMISSION FACTOR RATING: A

Firing Configuration (SCC)	TOC[b] Emission Factor ($lb/10^3$ gal)	Methane[b] Emission Factor ($lb/10^3$ gal)	NMTOC[b] Emission Factor ($lb/10^3$ gal)
Utility boilers			
No. 6 oil fired, normal firing (1-01-004-01)	1.04	0.28	0.76
No. 6 oil fired, tangential firing (1-01-004-04)	1.04	0.28	0.76
No. 5 oil fired, normal firing (1-01-004-05)	1.04	0.28	0.76
No. 5 oil fired, tangential firing (1-01-004-06)	1.04	0.28	0.76
No. 4 oil fired, normal firing (1-01-005-04)	1.04	0.28	0.76
No. 4 oil fired, tangential firing (1-01-005-05)	1.04	0.28	0.76
Industrial boilers			
No. 6 oil fired (1-01-004-01/02/03)	1.28	1.00	0.28
No. 5 oil fired (1-01-004-04)	1.28	1.00	0.28
Distillate oil fired (1-02-005-01/02/03)	0.252	0.052	0.2
No. 4 oil fired (1-02-005-04)	0.252	0.052	0.2
Commercial/institutional/residential combustors			
No. 6 oil fired (1-03-004-01/02/03)	1.605	0.475	1.13
No. 5 oil fired (1-03-004-04)	1.605	0.475	1.13
Distillate oil fired (1-03-005-01/02/03)	0.556	0.216	0.34
No. 4 oil fired (1-03-005-04)	0.556	0.216	0.34
Residential Furnaces (A2104004/A2104011)	2.493	1.78	0.713

[a] To convert from $lb/10^3$ gal to $kg/10^3$ L, multiply by 0.12. SCC=Source Classification Code.

[b] References 29-32. Volatile organic compound emissions can increase by several orders of magnitude if the boiler is improperly operated or is not well maintained.

Table 1.3-2. CONDENSABLE PARTICULATE MATTER EMISSION FACTORS FOR OIL COMBUSTION[a]

Firing Configuration[b] (SCC)	Controls	CPM – TOT [c,d]		CPM-IOR[c,d]		CPM-ORG[c,d]	
		Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING	Emission Factor ($lb/10^3$ gal)	EMISSION FACTOR RATING
No. 2 oil fired (1-01-005-01, 1-02-005-01, 1-03-005-01)	All controls, or uncontrolled	1.3 [d,e]	D	65% of CPM-TOT emission factor[c]	D	35% of CPM-TOT emission factor[c]	D
No. 6 oil fired (1-01-004-01/04, 1-02-004-01, 1-03-004-01)	All controls, or uncontrolled	1.5[f]	D	85% of CPM-TOT emission factor[d]	E	15% of CPM-TOT emission factor[d]	E

[a] All condensable PM is assumed to be less than 1.0 micron in diameter.

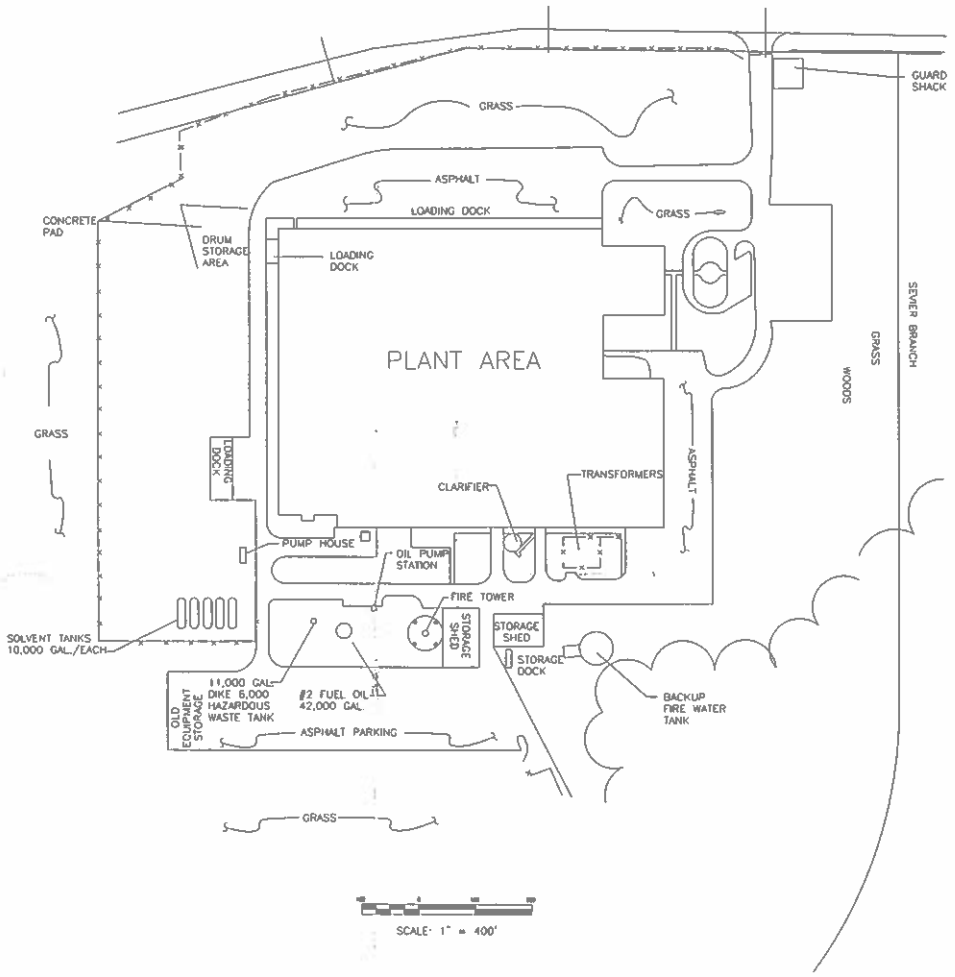
[b] No data are available for numbers 3, 4, and 5 oil. For number 3 oil, use the factors provided for number 2 oil. For numbers 4 and 5 oil, use the factors provided for number 6 oil.

[c] CPM-TOT = total condensable particulate matter.
CPM-IOR = inorganic condensable particulate matter.
CPM-ORG = organic condensable particulate matter.

[d] To convert to lb/MMBtu of No. 2 oil, divide by 140 MMBtu/10^3 gal. To convert to lb/MMBtu of No. 6 oil, divide by 150 MMBtu/10^3 gal.

[e] References 76-78.

[f] References 79-82.



DRAWING PRODUCED FROM SWPPP DRAINAGE MAP

NAME	DATE	DESCRIPTION	CHECKED BY	DATE	REVISED FOR PROJECT No.

DIMENSIONS IN () ARE MILLIMETERS

UNSPECIFIED TOLERANCES

INCHES	
DECIMAL PLACES	+/-
.00	.03
.000	.005
.0000	.0005

BUILDING & GROUNDS

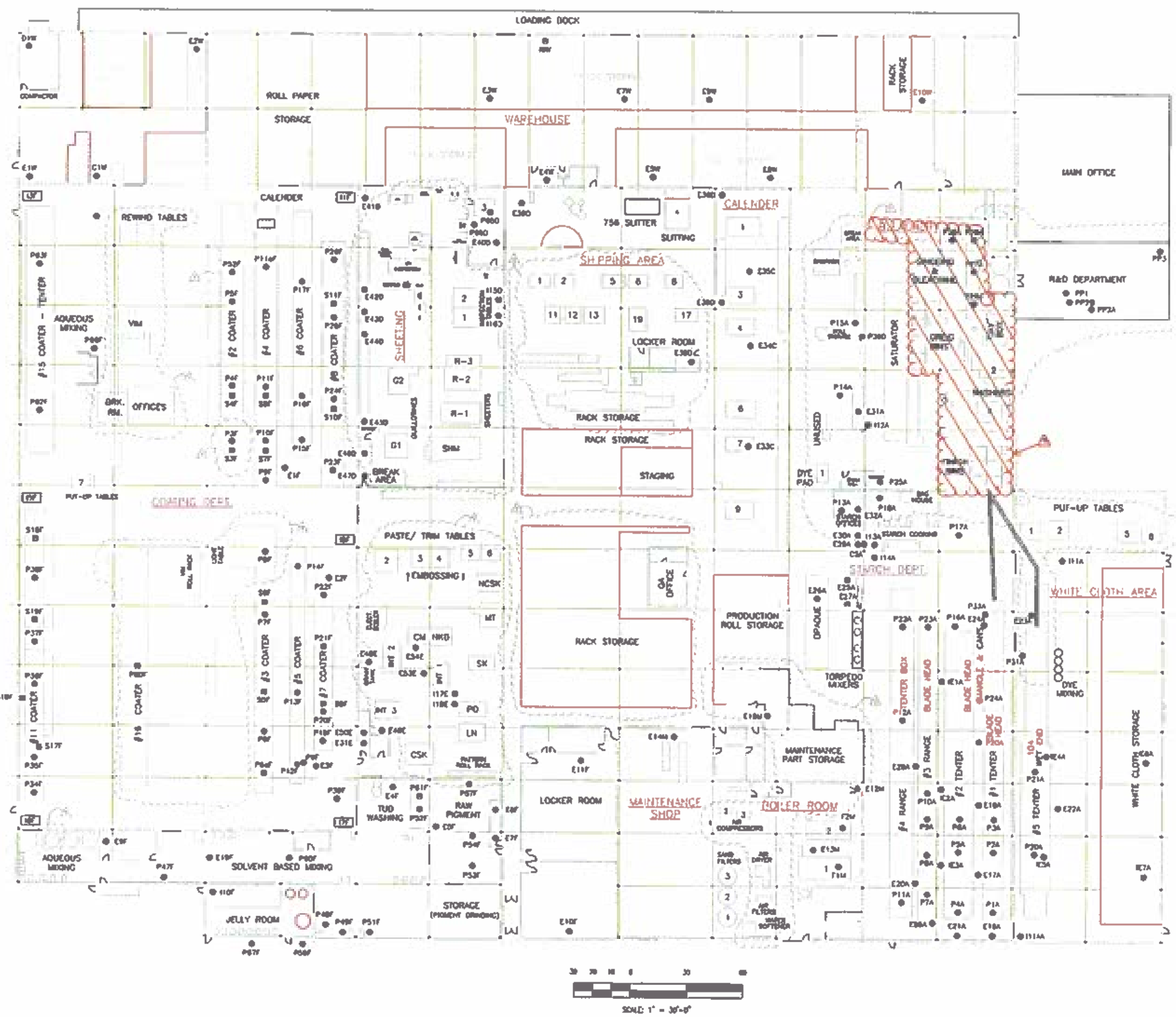
SITE FACILITIES LAYOUT

HOLLISTON.

DRAWN BY	DATE DRAWN	CHECKED BY	DATE CHECKED
R. MINK	7/23/2014		

SCALE	DRAWING No.	SHEET	REV
1" = 400'	14204SFENV	001	0

HOLLISTON LLC.
906 HOLLISTON MILLS ROAD
CHURCH HILL TN 37642



"Property Line" do not erase !

WORK THIS DRAWING W/ SHEET 003

TAKEN FROM EXISTING ANCHOR COLUMBIA, SC DRAWING H0020 SHT 2 OF 3 REV 5 DRAWING DATED 120194

REV	NAME	DATE	DESCRIPTION	CHECKED BY	DATE
6	JBB	11/01/2021	EQUIPMENT REMOVED (DEMOLISHED)		
-	-	-	-		
5	RLM	7/01/2014	EQUIPMENT ADDITIONS & CHANGES		
4	SS	1/2005	VENT LOCATIONS ADDITIONS/ CHANGES		
3	SS	3/1999	EQUIPMENT ADDITIONS/ CHANGES		
2	SS	8/97	VENT LOCATIONS ADDED- S&W		
1	SS	3/27/1996	ANCHOR REVISION		

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BUILDING & GROUNDS

PRODUCTION BUILDING
STACK LOCATIONS

DRAWN BY	DATE DRAWN	CHECKED BY	DATE CHECKED
R. MINK	9/23/2014		

SCALE	DRAWING No.	SHEET	REV
1" = 30'	H002D	002	5

HOLLISTON

HOLLISTON LLC.

PROCESS EXHAUST

ID#	SOURCE	HGT FT.	SIZE (IN)			PROPERTY LINE		
P1F	COATER 1, ZONE 1 (DISCONTINUED)	37.00	1.75	x	7.00	176N	/	495W
P2F	COATER 1, ZONE 2 (DISCONTINUED)	38.75	3.79	x	3.79	183N	/	500W
P3F	COATER 2, ZONE 1 (DISCONTINUED)	38.75	2.65	x	2.65	284N	/	480W
P4F	PRINTER 2, ZONE 2 (DISCONTINUED)	37.00	1.75	x	7.00	309N	/	513W
P5F	PRINTER 2, ZONE 3 (DISCONTINUED)	37.00	1.75	x	7.00	300N	/	503W
P6F	PRINTER 2, ZONE 4 (DISCONTINUED)	38.75	3.79	x	3.79	[illegible]	/	510W
P6AF	COATER 3 HEAD EXHAUST	38.75	2.66	x	2.63	110N	/	470W
P7F	COATER 3, ZONE 1	37.00	1.75	x	7.00	[illegible]	/	487W
P8F	COATER 3, ZONE 2	37.00	1.75	x	7.00	170N	/	487W
P9F	COATER 3, ZONE 3	38.75	3.79	x	3.79	165N	/	480W
P9F	COATER 4, HEAD EXHAUST	38.75	2.50	x	2.50	280N	/	480W
P10F	COATER 4, ZONE 1	37.00	1.75	x	7.00	309N	/	503W
P11F	COATER 4, ZONE 2	37.00	1.75	x	7.00	350N	/	513W
P11AF	COATER 4, ZONE 3	38.75	3.79	x	3.79	368N	/	480W
P12F	COATER 5, ZONE 1	38.88	2.44	x	3.13	138N	/	460W
P13F	COATER 5, ZONE 2	40.00	1.40	x	1.63	[illegible]	/	448W
P14F	COATER 5, ZONE 3	38.33	1.33	x	0.50	178N	/	450W
P15F	PRINTER 6, ZONE 1	38.75	2.10	x	2.71	290N	/	460W
P16F	PRINTER 6, ZONE 2	38.75	2.30	x	2.90	341N	/	448W
P17F	PRINTER 6, ZONE 3	37.00	1.75	x	7.00	368N	/	461W
P19F	COATER 7, HEAD EXHAUST (DISCONTINUED)	38.88	1.73	x	2.42	120N	/	463W
P20F	COATER 7, ZONE 1	38.88	2.48	x	2.73	130N	/	448W
P21F	COATER 7, ZONE 2	38.88	2.73	x	2.73	175N	/	448W
P22F	COATER 7, REWIND EXHAUST (DISCONTINUED)	38.00	1.50	dia		188N	/	448W
P23F	COATER 8, ZONE 1	38.75	1.80	x	2.06	280N	/	445W
P24F	COATER 8, ZONE 2	37.00	1.75	x	7.00	280N	/	430W

WORK THIS DRAWING W/ SHEET 002

TAKEN FROM EXISTING ANCHOR COLUMBIA, SC DRAWING H002D SHT 3 OF 3 REV 5 DRAWING DATED 120194

REV#	NAME	DATE	DESCRIPTION	CHECKED BY	DATE	REVISED FOR PROJECT No.
6	JBB	11/01/2021	VENT LOCATIONS REMOVED			
-	-	-	-			
5	RLM	7/01/2014	EQUIPMENT ADDITIONS & CHANGES			
4	SS	1/2005	VENT LOCATIONS ADDITIONS/ CHANGES			
3	SS	3/1999	EQUIPMENT ADDITIONS/ CHANGES			
2	SS	8/97	VENT LOCATIONS ADDED- S&W			
1	SS	3/27/1996	ANCHOR REVISION			

DIMENSIONS IN () ARE MILLIMETERS

UNSPECIFIED TOLERANCES

BUILDING & GROUNDS

PRODUCTION BUILDING
STACK LAYOUT

DRAWN BY	DATE DRAWN	CHECKED BY	DATE CHECKED
R. MINK	9/23/2014		

SCALE	DRAWING No.	SHEET	REV
1" = 30'	H002D	003	5

HOLLISTON.

HOLLISTON LLC
905 HOLLISTON MILLS ROAD
CHURCH HILL, TN 37642