APPLICATION FOR
NSR PERMIT REVISION

GOODRICH CORPORATION
225 STRINGTOWN ROAD
UNION, WEST VIRGINIA

PERMIT NO. R13-1244E
PLANT ID NO. 063-00001

EnSafe Project Number
0888819541

Prepared for:

Goodrich Corporation
225 Stringtown Road
Union, West Virginia 24983

Prepared by:

EnSafe Inc.
1233 Silas Deane Highway
Wethersfield, Connecticut 06109
(800) 588-7962
www.ensafe.com

December 2016

Table of Contents

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street, SE
Charleston, WV 25304
(304) 926-0475
www.dep.wv.gov/daq

APPLICATION FOR NSR PERMIT AND TITLE V PERMIT REVISION (OPTIONAL)

PLEASE CHECK ALL THAT APPLY TO **NSR (45CSR13)** (IF KNOWN):

☐ **CONSTRUCTION** ■ **MODIFICATION** ☐ **RELOCATION**
☐ **CLASS I ADMINISTRATIVE UPDATE** ☐ **TEMPORARY**
☐ **CLASS II ADMINISTRATIVE UPDATE** ☐ **AFTER-THE-FACT**

PLEASE CHECK TYPE OF **45CSR30 (TITLE V)** REVISION (IF ANY):

☐ **ADMINISTRATIVE AMENDMENT** ☐ **MINOR MODIFICATION**
☐ **SIGNIFICANT MODIFICATION**

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS **ATTACHMENT S** TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant *(as registered with the WV Secretary of State's Office):*
The BF Goodrich Corporation

2. Federal Employer ID No. ***(FEIN):***
34-0252680

3. Name of facility *(if different from above):*
Goodrich Corporation Union

4. The applicant is the:
☐ **OWNER** ☐ **OPERATOR** ■ **BOTH**

5A. Applicant's mailing address:
HC 75, Box 1
Union, WV 24983

5B. Facility's present physical address:
225 Stringtown Road
Union, WV 24983

6. **West Virginia Business Registration.** Is the applicant a resident of the State of West Virginia? ■ **YES** ☐ **NO**

➪ If **YES,** provide a copy of the **Certificate of Incorporation/Organization/Limited Partnership** (one page) including any name change amendments or other Business Registration Certificate as **Attachment A.**

➪ If **NO,** provide a copy of the **Certificate of Authority/Authority of L.L.C./Registration** (one page) including any name change amendments or other Business Certificate as **Attachment A.**

7. If applicant is a subsidiary corporation, please provide the name of parent corporation: Goodrich Corporation

8. Does the applicant own, lease, have an option to buy or otherwise have control of the *proposed site?* ■ **YES** ☐ **NO**

➪ If **YES,** please explain:
Applicant controls the facility site.

➪ If **NO,** you are not eligible for a permit for this source.

9. Type of plant or facility (stationary source) to be **constructed, modified, relocated, administratively updated** or **temporarily permitted** (e.g., coal preparation plant, primary crusher, etc.):
Manufacturer of fabricated rubber products

10. North American Industry Classification System **(NAICS)** code for the facility:
336413

11A. DAQ Plant ID No. (for existing facilities only):
063 – 00001

11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only):
R13-1244E

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

12A.

- For **Modifications, Administrative Updates** or **Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- For **Construction** or **Relocation permits,** please provide directions to the *proposed new site location* from the nearest state road. Include a **MAP** as **Attachment B**.

From I-64 exit 169, turn right onto US-219S for 19.5 miles. Turn right on Stringtown Road and proceed 0.1 miles. The facility is located on the left.
UTM Coordinates: 541,607 m E & 4,163,836 m N.

12.B. New site address (if applicable):	12C. Nearest city or town:	12D. County:
NA	Union	Monroe
12.E. UTM Northing (KM):	**12F. UTM Easting (KM):**	**12G. UTM Zone:**
541.607	4163.836	17

13. Briefly describe the proposed change(s) at the facility:

Modification of boiler to remove No. 2 fuel oil as a fuel type. Review of permitted and insignificant/trivial sources.

14A. Provide the date of anticipated installation or change: 02 / 28 / 2015 ➪ If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: / / 2014	14B. Date of anticipated Start-Up if a permit is granted: / /

14C. Provide a **Schedule** of the planned **Installation** of/**Change** to and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
24 Hours Per Day 7 Days Per Week 52 Weeks Per Year

16. Is demolition or physical renovation at an existing facility involved? ☐ **YES** ■ **NO**

17**. Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (RMP)** to U. S. EPA Region III.

18**. Regulatory Discussion.** List all Federal and State air pollution control regulations that you believe are applicable to the proposed process *(if known).* A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance *(if known).* Provide this information as **Attachment D.**

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

20. Include a **Table of Contents** as the first page of your application package.

21. Provide a **Plot Plan,** e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to ***Plot Plan Guidance***) **.**

➪ Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).

22. Provide a **Detailed Process Flow Diagram(s)** showing each proposed or modified emissions unit, emission point and control device as **Attachment F.**

23. Provide a **Process Description** as **Attachment G.**

➪ Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H.**

➪ For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I.**

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J.**

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K.**

28. Check all applicable **Emissions Unit Data Sheets** listed below:

☐ Bulk Liquid Transfer Operations	☐ Haul Road Emissions	☐ Quarry
☐ Chemical Processes	☐ Hot Mix Asphalt Plant	☐ Solid Materials Sizing, Handling and Storage Facilities
☐ Concrete Batch Plant	☐ Incinerator	☐ Storage Tanks
☐ Grey Iron and Steel Foundry	☒ Indirect Heat Exchanger	
☐ General Emission Unit, specify		

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L.**

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

☐ Absorption Systems	☒ Baghouse	☐ Flare
☐ Adsorption Systems	☐ Condenser	☐ Mechanical Collector
☐ Afterburner	☐ Electrostatic Precipitator	☐ Wet Collecting System

☐ Other Collectors, specify

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M.**

30. Provide all **Supporting Emissions Calculations** as **Attachment N,** or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O.**

➢ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and ***Example Legal Advertisement*** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

☐ **YES** ☒ **NO**

➢ If **YES,** identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's "***Precautionary Notice – Claims of Confidentiality"*** guidance found in the ***General Instructions*** as **Attachment Q.**

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

☐ Authority of Corporation or Other Business Entity	☐ Authority of Partnership
☐ Authority of Governmental Agency	☐ Authority of Limited Partnership

Submit completed and signed **Authority Form** as **Attachment R.**

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned ☒ **Responsible Official** / ☐ **Authorized Representative,** hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE _____ DATE: _____

(Please use blue ink) *(Please use blue ink)*

35B. Printed name of signee: David Rollyson		35C. Title: General Manager
35D. E-mail: david.rollyson2@utas.utc.com	36E. Phone: (304) 772-3062	36F. FAX: (304) 772-5249
36A. Printed name of contact person (if different from above): Thomas Elmore		36B. Title: EH&S Manager
36C. E-mail: Thomas.Elmore@utas.utc.com	36D. Phone: (304) 772-3951	36E. FAX: (304) 772-5249

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- ☐ **Attachment A: Business Certificate**
- ☐ **Attachment B: Map(s)**
- ☐ **Attachment C: Installation and Start Up Schedule**
- ☒ **Attachment D: Regulatory Discussion**
- ☒ **Attachment E: Plot Plan**
- ☐ **Attachment F: Detailed Process Flow Diagram(s)**
- ☐ **Attachment G: Process Description**
- ☐ **Attachment H: Material Safety Data Sheets (MSDS)**
- ☒ **Attachment I: Emission Units Table**
- ☐ **Attachment J: Emission Points Data Summary Sheet**
- ☐ **Attachment K: Fugitive Emissions Data Summary Sheet**
- ☒ **Attachment L: Emissions Unit Data Sheet(s)**
- ☒ **Attachment M: Air Pollution Control Device Sheet(s)**
- ☒ **Attachment N: Supporting Emissions Calculations**
- ☐ **Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans**
- ☐ **Attachment P: Public Notice**
- ☐ **Attachment Q: Business Confidential Claims**
- ☐ **Attachment R: Authority Forms**
- ☐ **Attachment S: Title V Permit Revision Information**
- ☒ **Application Fee**

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- ☐ ***Forward 1 copy of the application to the Title V Permitting Group and:***
- ☐ ***For Title V Administrative Amendments:***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit,***
- ☐ ***For Title V Minor Modifications:***
  - ☐ ***Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit.***
- ☐ ***For Title V Significant Modifications processed in parallel with NSR Permit revision:***
  - ☐ ***NSR permit writer should notify a Title V permit writer of draft permit,***
  - ☐ ***Public notice should reference both 45CSR13 and Title V permits,***
  - ☐ ***EPA has 45 day review period of a draft permit.***

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

Attachment D
Regulatory Discussion

Goodrich Corporation
Union
Facility ID 063-00001
Permit R13-1244E

Attachment D

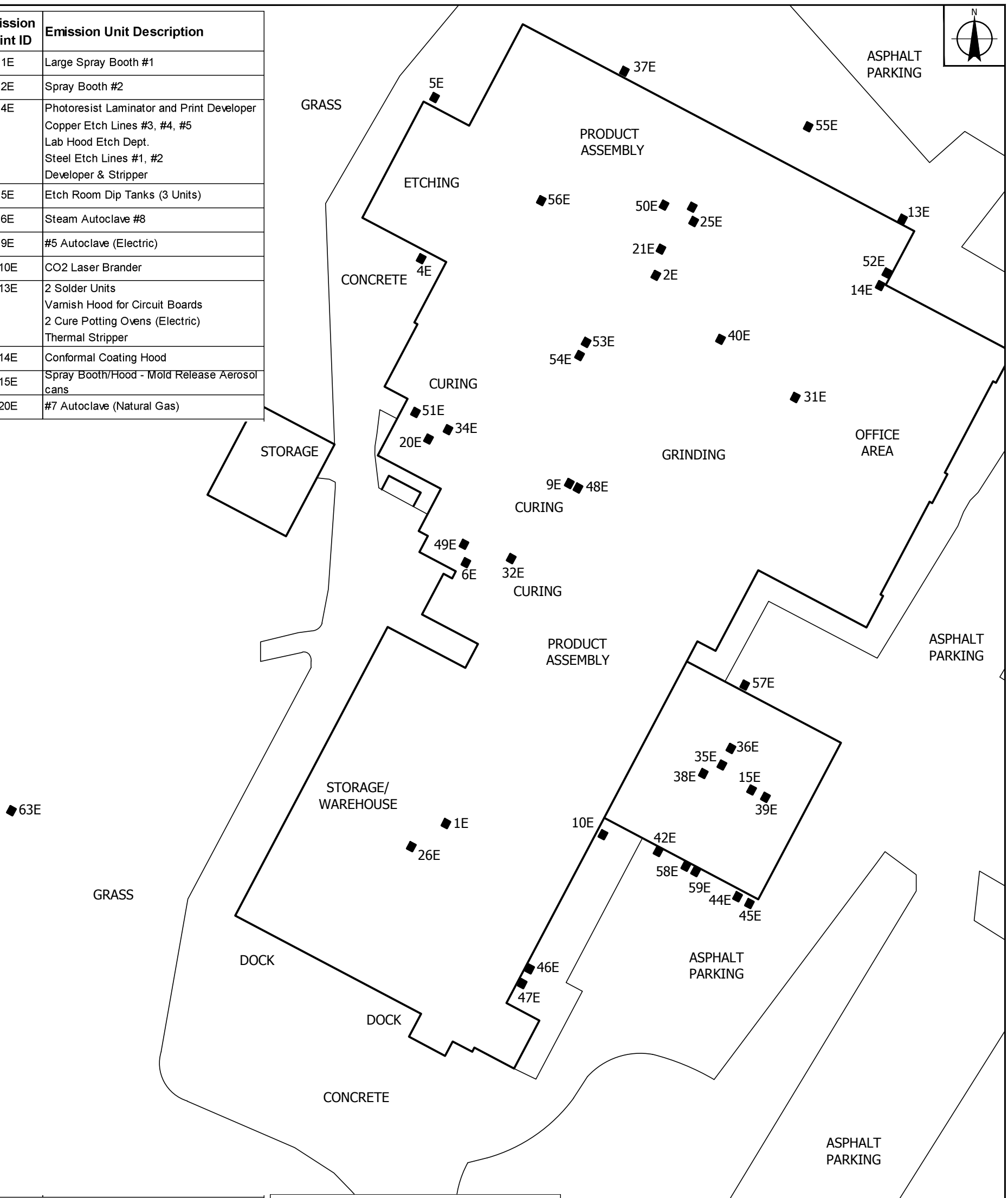
- This permit modification includes the addition of an emergency, diesel-fired, 220 horsepower, fire pump engine, built prior to April 1, 2006 (1971) and installed circa 1992. The fire pump engine is subject to 40 CFR 63, Subpart ZZZZ: National Emission Standards for Hazardous Air Pollutants, Reciprocating Internal Combustion Engines (RICE).

  40 CFR 63.6655(f) requires that an emergency RICE operate for no more than 100 hours per calendar year in a non-emergency setting, with no more than 50 hours dedicated to regular testing or maintenance. This fire pump complies with the requirements as specified under this Rule, including maintenance and recordkeeping.

- This permit modification includes the removal of No. 2 fuel oil as a standby fuel source from the existing 9.757 MMBtu/hr boiler (75S, 49E). The current permit lists the boiler capacity as 400 hp, 16.4 mmBTU/hr, and utilizing natural gas as the primary fuel with #2 fuel oil as a standby fuel. The smaller boiler capacity removes the applicability of 40 CFR 60, Subpart Dc.

Attachment E
Plot Plan

Emission Point ID	Emission Unit Description
1E	Large Spray Booth #1
2E	Spray Booth #2
4E	Photoresist Laminator and Print Developer Copper Etch Lines #3, #4, #5 Lab Hood Etch Dept. Steel Etch Lines #1, #2 Developer & Stripper
5E	Etch Room Dip Tanks (3 Units)
6E	Steam Autoclave #8
9E	#5 Autoclave (Electric)
10E	CO2 Laser Brander
13E	2 Solder Units Varnish Hood for Circuit Boards 2 Cure Potting Ovens (Electric) Thermal Stripper
14E	Conformal Coating Hood
15E	Spray Booth/Hood - Mold Release Aerosol cans
20E	#7 Autoclave (Natural Gas)



Emission Points Continued	
21E	Walk-In Oven (Natural Gas)
25E	Spray Booth #4
26E	Spray Booth #1 Drying Room
31E	Quality Assurance Lab Vent
32E	Walk-In Electric Oven
35E	Spray Booth #5
36E	Spray Booth #6
37E	Down Draft Table #1
38E	Down Draft Table #2
39E	CO2 Laser Brander CTT Oven (Electric)
40E	CO2 Laser Brander Composites
42E	Brazing Units Soldering Pots Soldering Machines Acid Cleaning Oven at Brazing
44E	Autoclave #9 (Electric)
45E	Steam Autoclave #10

Emission Points Continued	
46E	Nozzle Dip
47E	Large Press & Little Press
48E	Autoclave #11 (Electric)
49E	Natural gas-fired boiler
50E	Walk-In Oven (Natural Gas)
51E	#12 Autoclave (Natural Gas)
52E	Environmental Test Chamber
53E	Autoclave #14 (Electric)
54E	Autoclave #15 (Electric)
55E	2 Routers with Baghouse
56E	3 Soldering Areas
57E	Winding Machine Thermal Strippers (3 Electric Units)
58E	Tectra Etch Booth
59E	Tectra Etch Waste drum exhaust
63E	Backup diesel fire pump

0 30 60
SCALE IN FEET

FIGURE 1
SITE PLAN
GOODRICH CORPORATION
225 STRINGTOWN ROAD
UNION, WEST VIRGINIA 24983

REQUESTED BY:	AW
DRAWN BY:	CC
DATE:	12/07/2016
PROJECT:	0888819541

ENSAFE
Creative thinking. Custom solutions.
800.588.7962 | www.ensafe.com

I:\CAD PROJECTS\19541 UTC-UTAS Air Support WV\Plans\19541_C001_SITE PLAN_UTC-UTAS AIR SUPPORT_UNION_WV.dwg 12/8/2016 9:34:48 AM

Attachment I
Emission Units Table

Attachment I Emission Units Table

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device [4]
PERMITTED EQUIPMENT WITH MODIFICATIONS:						
20S	~~12E~~ 4E	Print Developer and Photoresist Laminator	2007 and 2015	10 laminates/hr	MOD	Wet Scrubber
26S	14E	Conformal Coating Hood			MOD - Name Change	
39S	4E	Copper Etch Lines #3, #4, #5	2005/2013/2014		MOD	Wet Scrubber
63S	Fugitive	SHP Brazing & Soldering	2015		MOD	
75S	49E	Natural gas-fired boiler	2007	9.757 MMBtu/hr	MOD / 2014	
107S	15E	Spray Booth/Hood - Mold Release Aerosol cans			MOD	
EXISTING EQUIPMENT NOT ON PERMIT*						
78S	46E	Nozzle Dip			new*	
89S	Fugitive	Hand Soldering, Dept. 57			new	
90S	55E	2 Routers with Baghouse			new	Baghouse
93S	5E	Etch Room Dip Tanks (3 Units)			new	
94S	4E	Steel Etch Lines #1, #2	2003/2014		new	Wet Scrubber
95S	4E	Developer	2014		new	Wet Scrubber
96S	4E	Stripper	2005		new	Wet Scrubber
97S	42E	Soldering Pots			new	
98S	42E	Soldering Machines (table)			new	
99S	42E	Soldering Machines (Build tables)			new	
100S	42E	Acid Cleaning			new	
101S	42E	Oven at Brazing			new	
103S	57E	Winding Machine			new	
105S	58E	Tectra Etch Booth			new	
106S	59E	Tectra Etch Waste drum exhaust			new	
113S	63E	Backup diesel fire pump	early 1990s	200 hp, est	new / NA	
INSIGNIFICANT/DE MINIMIS						
79S	47E	Large Press			new	
80S	47E	Little Press			new	
84S	52E	Environmental Test Chamber			new	
85S	Vents Inside	Sanding (CNC Room)	2013		new	
91S	56E	3 Soldering Areas			new	
92S	Vents Inside	Sanding and Grinding Process (Trim Room)	2014		new	
111S	NA	Soldering Station, Timers			new	

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[4] For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

*new: Emission source is existing process, not previously permitted

Attachment I also includes all sources reviewed under de minimis categories under Table 45-13 B.

Attachment I Emission Units Table

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device [4]
PERMITTED EQUIPMENT - NO CHANGES:						
1S	1E	Large Spray Booth #1			no change	Filter
2S	2E	Spray Booth #2			no change	
23S	13E	Solder Unit			no change	
24S	13E	Solder Unit			no change	
25S	13E	Varnish Hood for Circuit Boards			no change	
38S	25E	Spray Booth #4			no change	Filter
40S	35E	Spray Booth #5			no change	Filter
41S	36E	Spray Booth #6			no change	Filter
42S	37E	Down Draft Table #1			no change	
43S	38E	Down Draft Table #2			no change	
50S	20E	#7 Autoclave (Natural Gas)	1997		no change	
52S	21E	Walk-In Oven (Natural Gas)			no change	
56S	26E	Spray Booth #1 Drying Room			no change	
60S	~~30E~~ 4E	Lab Hood Etch Dept.			no change	
68S	42E	Brazing Units (4 units)			no change	
76S	50E	Walk-In Oven (Natural Gas)			no change	
77S	51E	#12 Autoclave (Natural Gas)			no change	
INSIGNIFICANT/DE MINIMIS						
10S	6E	Steam Autoclave #8			no change	
14S	10E	CO2 Laser Brander			no change	
44S	39E	CO2 Laser Brander			no change	
45S	40E	CO2 Laser Brander Composites			no change	
61S	31E	Quality Assurance Lab Vent			no change	
67S	41E	Room Air Exhaust Ventilating Units			no change	
71S	45E	Steam Autoclave #10			no change	

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[4] For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

Attachment I also includes all sources reviewed under de minimis categories under Table 45-13 B.

Attachment I Emission Units Table

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device [4]
ELECTRIC SOURCES (insignificant/de minimis):						
13S	9E	#5 Autoclave (Electric)	1967		no change	
19S	32E	Walk-In Electric Oven			no change	
70S	44E	Autoclave #9 (Electric)	1981		no change	
81S	13E	Cure Potting Oven (Electric)	2012-2013		new*	
82S	13E	Cure Potting Oven (Electric)	2012-2013		new	
83S	13E	Thermal Stripper - Dept 53 (Electric)			new	
86S	48E	Autoclave #11 (Electric)	2006		new	
87S	53E	Autoclave #14 (Electric)	2010		new	
88S	54E	Autoclave #15 (Electric)	2011		new	
102S	NA	#4 Oven (Electric)			new	
104S	57E	Thermal Strippers (Electric)			new	
108S	39E	CTT Oven (Electric)			new	
110S	NA	CTT Heater Oven (Electric)	2015		new	
112S	NA	Test Oven (Electric)			new	
REMOVED SOURCES:						
12S	8E	Autoclave #4 (Electric)			REMOVED	
27S	(15E)	SHP Oven #1			REMOVED	
46S	17E	Naphtha Tank			REMOVED	
47S	18E	Naphtha / Isopropyl Acetate Tank			REMOVED	

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[4] For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

*new: Emission source is existing process, not previously permitted

Attachment I also includes all sources reviewed under de minimis categories under Table 45-13 B.

Attachment I Emission Units Table

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device [4]
Boiler Room						
75S	49E	Natural gas-fired boiler	2007	9.757 MMBtu/hr	MOD / 2014	
Plantwide						
67S	41E	Room Air Exhaust Ventilating Units			no change	
113S	63E	Backup diesel fire pump	early 1990s	200 hp, est	new*/ NA	
Department 61 - Props						
40S	35E	Spray Booth #5			no change	Filter
41S	36E	Spray Booth #6			no change	Filter
43S	38E	Down Draft Table #2			no change	
68S	42E	Brazing Units (4 units)			no change	
97S	42E	Soldering Pots			new	
98S	42E	Soldering Machines (table)			new	
99S	42E	Soldering Machines (Build tables)			new	
100S	42E	Acid Cleaning			new	
101S	42E	Oven at Brazing			new	
103S	57E	Winding Machine			new	
104S	57E	Thermal Strippers (3 Electric Units)			new	
Department 61 - Silicone Room						
44S	39E	CO2 Laser Brander			no change	
70S	44E	Autoclave #9 (Electric)	1981		no change	
71S	45E	Steam Autoclave #10			no change	
105S	58E	Tectra Etch Booth			new	
106S	59E	Tectra Etch Waste drum exhaust			new	
107S	15E	Spray Booth/Hood - Mold Release Aerosol cans			MOD	
108S	39E	CTT Oven (Electric)			new	

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[4] For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

*new: Emission source is existing process, not previously permitted

Attachment I also includes all sources reviewed under de minimis categories under Table 45-13 B.

Attachment I Emission Units Table

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device [4]
Attachment I Emission Units Table (includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)						
Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device [4]
Department 52 - Pneumatic Deicers						
1S	1E	Large Spray Booth #1			no change	
10S	6E	Steam Autoclave #8			no change	
14S	10E	CO2 Laser Brander			no change	
56S	26E	Spray Booth #1 Drying Room			no change	
Department 52 - Extruder Area						
78S	46E	Nozzle Dip			new*/ NA	
79S	47E	Large Press			new	
80S	47E	Little Press			new	
Department 57 - Curing						
13S	9E	#5 Autoclave (Electric)	1967		no change	
19S	32E	Walk-In Electric Oven			no change	
50S	20E	#7 Autoclave (Natural Gas)			no change	
63S	Fugitive	SHP Brazing & Soldering			MOD	
77S	51E	#12 Autoclave (Natural Gas)	12/1/2006		no change	
86S	48E	Autoclave #11 (Electric)	2006		new	
87S	53E	Autoclave #14 (Electric)	2010		new	
88S	54E	Autoclave #15 (Electric)	2011		new	
Department 57 - Trim Room						
92S	Vents Inside	Sanding and Grinding Process			new	
Department 57 - CNC Room						
85S	Vents Inside	Sanding (CNC Room)			new	
Department 57 - Clean Room						
20S	4E	Photoresist Laminator and Print Developer			MOD	
Department 57 - Etch Room						
39S	4E	Copper Etch Lines #3, #4, #5			MOD	Wet Scrubber
60S	4E	Lab Hood Etch Dept.			no change	
93S	5E	Etch Room Dip Tanks (3 Units)			new	
94S	4E	Steel Etch Lines #1, #2			MOD	Wet Scrubber
95S	4E	Developer			new	Wet Scrubber
96S	4E	Stripper			new	Wet Scrubber

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[4] For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

*new: Emission source is existing process, not previously permitted

Attachment I also includes all sources reviewed under de minimis categories under Table 45-13 B.

Attachment I Emission Units Table

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device [4]
Attachment I Emission Units Table (duplicate)						
Emission Unit ID[1]	Emission Point ID[2]	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type[3] and Date of Change	Control Device [4]
Department 57 - Spray Booth Area						
2S	2E	Spray Booth #2			no change	
38S	25E	Spray Booth #4			no change	
52S	21E	Walk-In Oven (Natural Gas)			no change	
Department 57 - Panel Layup						
42S	37E	Down Draft Table #1			no change	
76S	50E	Walk-In Oven (Natural Gas)			no change	
Department 57 - Supermarket						
91S	56E	3 Soldering Areas			new*/ NA	
Department 57 - Quality						
45S	40E	CO2 Laser Brander Composites			no change	
Department 57 - Old Final Finish						
89S	Fugitive	Hand Soldering, Dept. 57			new	
Department 57 - Final Panel Finish						
90S	55E	2 Routers with Baghouse			new	Baghouse
102S	NA	#4 Oven (Electric)			new	
Department 53 - Timers						
23S	13E	Solder Unit			no change	
24S	13E	Solder Unit			no change	
25S	13E	Varnish Hood for Circuit Boards			no change	
26S	14E	Conformal Coating Hood			MOD - NAME CHANGE	
81S	13E	Cure Potting Oven (Electric)	2012-2013		new	
82S	13E	Cure Potting Oven (Electric)	2012-2013		new	
83S	13E	Thermal Stripper			new	
84S	52E	Environmental Test Chamber			new	
110S	NA	CTT Heater Oven (Electric)			new	
111S	NA	Soldering Station			new	
Materials Lab						
61S	31E	Quality Assurance Lab Vent			no change	
112S	NA	Test Oven (Electric)			new	
Deleted Sources						
12S	8E	Autoclave #4 (Electric)			REMOVED	
27S	(15E)	SHP Oven #1			REMOVED	
46S	17E	Naphtha Tank			REMOVED	
47S	18E	Naphtha / Isopropyl Acetate Tank			REMOVED	

[1] For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.
[2] For Emission Points use the following numbering system:1E, 2E, 3E, ... or other appropriate designation.
[3] New, modification, removal
[4] For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

*new: Emission source is existing process, not previously permitted

Attachment I also includes all sources reviewed under de minimis categories under Table 45-13 B.

Attachment L
Emissions Unit Data Sheet

Attachment L
Emission Unit Data Sheet
(INDIRECT HEAT EXCHANGER)

Control Device ID No. (must match List Form): NA

Equipment Information

1. Manufacturer: Cleaver Brooks	2. Model No. CBLE 200X-239-200ST Serial No. OL105870
3. Number of units: 1	4. Use Provide process steam
5. Rated Boiler Horsepower: 400 hp	6. Boiler Serial No.: OL105870
7. Date constructed: 2007	8. Date of last modification and explain: 2014 - Discontinued use of #2 fuel oil. Natural gas is the only fuel source.
9. Maximum design heat input per unit: 9.757 $\times 10^6$ BTU/hr	10. Peak heat input per unit: 9.757 $\times 10^6$ BTU/hr
11. Steam produced at maximum design output: LB/hr psig	12. Projected Operating Schedule: 24 Hours/Day 7 Days/Week 52 Weeks/Year
13. Type of firing equipment to be used: ☐ Pulverized coal ☐ Spreader stoker ☐ Oil burners ☒ Natural Gas Burner ☐ Others, specify	14. Proposed type of burners and orientation: ☐ Vertical ☐ Front Wall ☐ Opposed ☐ Tangential ☐ Others, specify
15. Type of draft: ☐ Forced ☐ Induced	16. Percent of ash retained in furnace: %
17. Will flyash be reinjected? ☐ Yes ☒ No	18. Percent of carbon in flyash: %

Stack or Vent Data

19. Inside diameter or dimensions: 2 ft.	20. Gas exit temperature: 455 °F
21. Height: 30 ft.	22. Stack serves: ☒ This equipment only ☐ Other equipment also (submit type and rating of all other equipment exhausted through this stack or vent)
23. Gas flow rate: 5895 ft^3/min	
24. Estimated percent of moisture: %	

Fuel Requirements

25.						
	Type	Fuel Oil No.	Natural Gas	Gas (other, specify)	Coal, Type:	Other:
	Quantity (at Design Output)	gph@60°F	ft^3/hr	ft^3/hr	TPH	
	Annually	$\times 10^3$ gal	$\times 10^6$ ft^3/hr	$\times 10^6$ ft^3/hr	tons	
	Sulfur	Maximum: wt. % Average: wt. %	gr/100 ft^3	gr/100 ft^3	Maximum: wt. %	
	Ash (%)				Maximum	
	BTU Content	BTU/Gal. Lbs/Gal.@60°F	1020 BTU/ft^3	BTU/ft^3	BTU/lb	
	Source					
	Supplier					
	Halogens (Yes/No)					
	List and Identify Metals		NA			

26. Gas burner mode of control:
☐ Manual ☐ Automatic hi-low
☐ Automatic full modulation ☐ Automatic on-off

27. Gas burner manufacture:

28. Oil burner manufacture: NA

29. If fuel oil is used, how is it atomized? ☐ Oil Pressure ☐ Steam Pressure ☐ Compressed Air ☐ Rotary Cup ☐ Other, specify

30. Fuel oil preheated: ☐ Yes ☐ No

31. If yes, indicate temperature: °F

32. Specify the calculated theoretical air requirements for combustion of the fuel or mixture of fuels described above actual cubic feet (ACF) per unit of fuel:
@ °F, PSIA, % moisture

33. Emission rate at rated capacity: lb/hr

34. Percent excess air actually required for combustion of the fuel described: %

Coal Characteristics

35. Seams:

36. Proximate analysis (dry basis): % of Fixed Carbon: % of Sulfur:
% of Moisture: % of Volatile Matter:
% of Ash:

Emissions Stream

37. What quantities of pollutants will be emitted from the boiler before controls?

Pollutant	Pounds per Hour lb/hr	grain/ACF	@ °F	PSIA
CO				
Hydrocarbons				
NO_x				
Pb				
PM_{10}				
SO_2				
VOCs				
Other (specify)				

38. What quantities of pollutants will be emitted from the boiler after controls?

Pollutant	Pounds per Hour lb/hr	grain/ACF	@ °F	PSIA
CO				
Hydrocarbons				
NO_x				
Pb				
PM_{10}				
SO_2				
VOCs				
Other (specify)				

39. How will waste material from the process and control equipment be disposed of?

NA

40. Have you completed an *Air Pollution Control Device Sheet(s)* for the control(s) used on this Emission Unit. NA

41. Have you included the ***air pollution rates*** on the Emissions Points Data Summary Sheet?

42. **Proposed Monitoring, Recordkeeping, Reporting, and Testing**
Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING PLAN: Please list (1) describe the process parameters and how they were chosen (2) the ranges and how they were established for monitoring to demonstrate compliance with the operation of this process equipment operation or air pollution control device.

TESTING PLAN: Please describe any proposed emissions testing for this process equipment or air pollution control device.

RECORDKEEPING: Please describe the proposed recordkeeping that will accompany the monitoring.

REPORTING: Please describe the proposed frequency of reporting of the recordkeeping.

43. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.

Attachment M
Air Pollution Control Device Sheet

Attachment M
Air Pollution Control Device Sheet
(BAGHOUSE)

Control Device ID No. (must match Emission Units Table):

Equipment Information and Filter Characteristics

1. Manufacturer: Nederman
   Model No. FMC 200-4A

2. Total number of compartments: 1

3. Number of compartment online for normal operation: 1

4. Provide diagram(s) of unit describing capture system with duct arrangement and size of duct, air volume, capacity, horsepower of movers. If applicable, state hood face velocity and hood collection efficiency.

5. Baghouse Configuration: (check one)
   ☐ Open Pressure ☐ Closed Pressure X Closed Suction
   ☐ Electrostatically Enhanced Fabric
   ☐ Other, Specify

6. Filter Fabric Bag Material:
   ☐ Nomex nylon ☐ Wool
   ☒ Polyester ☐ Polypropylene
   ☐ Acrylics ☐ Ceramics
   ☐ Fiber Glass
   ☐ Cotton Weight oz./sq.yd
   ☐ Teflon Thickness in
   ☐ Others, specify

7. Bag Dimension:
   Diameter 6.0 in.
   Length 48 ft.

8. Total cloth area: 2,482 ft^2

9. Number of bags: 16

10. Operating air to cloth ratio: 2 to 1 ft/min

11. Baghouse Operation: ☐ Continuous ☐ Automatic X Intermittent

12. Method used to clean bags:
   ☐ Mechanical Shaker ☐ Sonic Cleaning ☐ Reverse Air Jet
   ☐ Pneumatic Shaker ☐ Reverse Air Flow ☐ Other:
   ☐ Bag Collapse ☒ Pulse Jet
   ☐ Manual Cleaning ☐ Reverse Jet

13. Cleaning initiated by:
   ☐ Timer ☐ Frequency if timer actuated
   ☒ Expected pressure drop range 3 to 5 in. of water ☐ Other

14. Operation Hours: Max. per day: 24
   Max. per yr: 8,760

15. Collection efficiency: Rating: 99% at 3microns %
   Guaranteed minimum: 99% at 3u %

Gas Stream Characteristics

16. Gas flow rate into the collector: 6.2 ACFM at ambient °F and 90 PSIA
   ACFM: Design: PSIA Maximum: PSIA Average Expected: PSIA

17. Water Vapor Content of Effluent Stream: lb. Water/lb. Dry Air

18. Gas Stream Temperature: ambient °F

19. Fan Requirements: 15 hp
   OR ft^3/min

20. Stabilized static pressure loss across baghouse. Pressure Drop: High 5 in. H_2O
   Low 3 in. H_2O

21. Particulate Loading: Inlet: grain/scf Outlet: grain/scf

22. Type of Pollutant(s) to be collected (if particulate give specific type):

Particulate, TSP

23. Is there any SO_3 in the emission stream? ☒ No ☐ Yes SO_3 content: ppmv

24. Emission rate of pollutant (specify) into and out of collector at maximum design operating conditions:

	IN		OUT	
Pollutant	**lb/hr**	**grains/acf**	**lb/hr**	**grains/acf**

25. Complete the table:

	Particle Size Distribution at Inlet to Collector	**Fraction Efficiency of Collector**
Particulate Size Range (microns)	**Weight % for Size Range**	**Weight % for Size Range**
0 – 2		
2 – 4		
4 – 6		
6 – 8		
8 – 10		
10 – 12		
12 – 16		
16 – 20		
20 – 30		
30 – 40		
40 – 50		
50 – 60		
60 – 70		
70 – 80		
80 – 90		
90 – 100		
>100		

26. How is filter monitored for indications of deterioration (e.g., broken bags)?
☐ Continuous Opacity
X Pressure Drop
☐ Alarms-Audible to Process Operator
☐ Visual opacity readings, Frequency:
☐ Other, specify:

27. Describe any recording device and frequency of log entries:

FMC comes with DFC-08 Controller that monitors pressure drop.

28. Describe any filter seeding being performed:

None

29. Describe any air pollution control device inlet and outlet gas conditioning processes (e.g., gas cooling, gas reheating, gas humidification):

None

30. Describe the collection material disposal system:

Particulate matter drops into a 55-gallon drum.

31. Have you included ***Baghouse Control Device*** in the Emissions Points Data Summary Sheet? yes

32. **Proposed Monitoring, Recordkeeping, Reporting, and Testing**
Please propose monitoring, recordkeeping, and reporting in order to demonstrate compliance with the proposed operating parameters. Please propose testing in order to demonstrate compliance with the proposed emissions limits.

MONITORING:	RECORDKEEPING:
REPORTING:	TESTING:

MONITORING: Please list and describe the process parameters and ranges that are proposed to be monitored in order to demonstrate compliance with the operation of this process equipment or air control device.

RECORDKEEPING: Please describe the proposed recordkeeping that will accompany the monitoring.

REPORTING: Please describe any proposed emissions testing for this process equipment on air pollution control device.

TESTING: Please describe any proposed emissions testing for this process equipment on air pollution control device.

33. Manufacturer's Guaranteed Capture Efficiency for each air pollutant.

NA

34. Manufacturer's Guaranteed Control Efficiency for each air pollutant.

NA

35. Describe all operating ranges and maintenance procedures required by Manufacturer to maintain warranty.

NA

Attachment N
Supporting Emissions Calculations

GOODRICH CORPORATION UNION
225 STRINGTOWN ROAD
UNION, WEST VIRGINIA
WVDEP PERMIT NO: R13-1244E
DAQ PLANT ID: 063-00001

CHANGES IN BOILER (75S, 49E) EMISSIONS

Pollutant	previous 16.4 mmBTU/hr, #2 fuel oil	existing 9.757 mmBTU/hr, nat gas	Increase (tons/yr)
NOx	10.34	4.19	-6.15
CO	2.58	3.52	0.94
SO2	22.01	0.03	-21.99
VOC	0.10	0.23	0.13
PM/PM10	1.03	0.32	-0.72
Lead	6.46E-04	2.09E-05	-6.26E-04
Benzene	0.00E+00	8.80E-05	8.80E-05
Dichlorobenzene	0.00E+00	5.03E-05	5.03E-05
Formaldehyde	3.15E-02	3.14E-03	-2.84E-02
Hexane	0.00E+00	7.54E-02	7.54E-02
Naphthlene	0.00E+00	2.56E-05	2.56E-05
Toluene	0.00E+00	1.42E-04	1.42E-04
Arsenic	2.87E-04	8.38E-06	-2.79E-04
Beryllium	2.15E-04	5.03E-07	-2.15E-04
Cadmium	2.15E-04	4.61E-05	-1.69E-04
Chromium	2.15E-04	5.87E-05	-1.57E-04
Cobalt	0.00E+00	3.52E-06	3.52E-06
Manganese	4.31E-04	1.59E-05	-4.15E-04
Mercury	2.15E-04	1.09E-05	-2.05E-04
Nickel	2.15E-04	8.80E-05	-1.28E-04
Selenium	1.08E-03	1.01E-06	-1.08E-03
Polycyclic Organic Matter (POM)	1.71E-03	3.49E-06	-1.70E-03
Total HAP	3.67E-02	7.91E-02	4.24E-02

Notes:

(1) Emission factors are from Section 1.4, Natural Gas Combustion of AP-42.

(2) POM is defined as a HAP by Section 112(b) of the Clean Air Act. The emission factor for POM was obtained by adding together the emission factors for the individual compounds that were identified as POMs in Section

POTENTIAL NATURAL GAS EMISSIONS - BOILER

Assumptions:

Potential Hours of operation (hours/yr) = 8,760

Fuel Heating Value (BTU/cubic feet) = 1,020

Source ID	Max Firing Rate (MMBTU/hr)	Max Firing Rate (MMCF/hr)
Boiler (75S, 49E)	9.757	0.0096

Potential Emissions

	EF	Boiler (75S, 49E)	
Pollutant	**lb/MMscf**	**lb/hr**	**tons/yr**
NOX	1.00E+02	0.96	4.19
CO	8.40E+01	0.80	3.52
SO2	6.00E-01	5.74E-03	2.51E-02
VOC	5.50E+00	5.26E-02	2.30E-01
PM/PM10	7.60E+00	7.27E-02	3.18E-01
Lead	5.00E-04	4.78E-06	2.09E-05
Benzene	2.10E-03	2.01E-05	8.80E-05
Dichlorobenzene	1.20E-03	1.15E-05	5.03E-05
Formaldehyde	7.50E-02	7.17E-04	3.14E-03
Hexane	1.80E+00	1.72E-02	7.54E-02
Naphthlene	6.10E-04	5.84E-06	2.56E-05
Toluene	3.40E-03	3.25E-05	1.42E-04
Arsenic	2.00E-04	1.91E-06	8.38E-06
Beryllium	1.20E-05	1.15E-07	5.03E-07
Cadmium	1.10E-03	1.05E-05	4.61E-05
Chromium	1.40E-03	1.34E-05	5.87E-05
Cobalt	8.40E-05	8.04E-07	3.52E-06
Manganese	3.80E-04	3.63E-06	1.59E-05
Mercury	2.60E-04	2.49E-06	1.09E-05
Nickel	2.10E-03	2.01E-05	8.80E-05
Selenium	2.40E-05	2.30E-07	1.01E-06
Polycyclic Organic Matter (POM)	8.32E-05	7.96E-07	3.49E-06
Total HAP		1.81E-02	7.91E-02

Notes:

(1) Emission factors are from Section 1.4, Natural Gas Combustion of AP-42.

(2) POM is defined as a HAP by Section 112(b) of the Clean Air Act. The emission factor for POM was obtained by adding together the emission factors for the individual compounds that were identified as POMs in Section 1.4 of AP-

POTENTIAL #2 FUEL OIL EMISSIONS - BOILER

Assumptions	
Potential Hours of operation (hours/yr) =	8,760
Sulfur Content (%) =	0.30
Heat Value (BTU/gal) =	139,000
Rated Input (hp/hr) =	400
Max Rated Input (BTU/hr) =	16,400,000
Maximum Usage (gal/yr) =	1,033,554
Maximum Usage (gal/hr) =	117.99

Potential Emissions

Criteria Pollutants[(1)]	**lbs/1000 gal**	**lbs/hr**	**tons/yr**
NO_X	20	2.360	10.34
CO	5	0.590	2.58
SO2	43	5.026	22.01
VOC	0.2	0.024	0.10
PM/PM_{10}	2	0.236	1.03
Hazardous Air Pollutants (HAPs)[(1)]	**lbs/1000 gal**	**lbs/hr**	**tons/yr**
Formaldehyde	6.10E-02	0.007	3.15E-02
Polycyclic Organic Matter (POM)	3.30E-03	3.89E-04	1.71E-03
	lbs/10^12 Btu		
Arsenic	4.0	6.56E-05	2.87E-04
Beryllium	3.0	4.92E-05	2.15E-04
Cadmium	3.0	4.92E-05	2.15E-04
Chromium	3.0	4.92E-05	2.15E-04
Lead	9.0	1.48E-04	6.46E-04
Mangenese	6.0	9.84E-05	4.31E-04
Mercury	3.0	4.92E-05	2.15E-04
Nickel	3.0	4.92E-05	2.15E-04
Selenium	15.0	2.46E-04	1.08E-03
Total HAPs		8.39E-03	3.67E-02

Notes:

(1) Emission factors are from AP-42, Volume 1, Fifth Edition, September 1998, Section 1.3.

Appendix A
Insignificant Activities

Insignificant Activities (Check all that apply)		
☒	1.	Air compressors and pneumatically operated equipment, including hand tools.
☐	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.
☐	3.	Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
☐	4.	Bathroom/toilet vent emissions.
☐	5.	Batteries and battery charging stations, except at battery manufacturing plants.
☐	6.	Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
☐	7.	Blacksmith forges.
☐	8.	Boiler water treatment operations, not including cooling towers.
☐	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
☒	10.	CO_2 lasers, used only on metals and other materials which do not emit HAP in the process.
☐	11.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
☐	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
☒	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
☐	14.	Demineralized water tanks and demineralizer vents.
☐	15.	Drop hammers or hydraulic presses for forging or metalworking.
☒	16.	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
☐	17.	Emergency (backup) electrical generators at residential locations.
☐	18.	Emergency road flares.
☐	19.	Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO_2, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Insignificant Activities (Check all that apply)		
☒	20.	Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis: Waste Water Treatment Tanks, total HAPS: 0.0112 pounds/hour, 98 pounds/year _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
☐	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.
☐	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
☐	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
☐	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
☐	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
☐	26.	Fire suppression systems.
☐	27.	Firefighting equipment and the equipment used to train firefighters.
☐	28.	Flares used solely to indicate danger to the public.
☐	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
☐	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
☐	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
☐	32.	Humidity chambers.
☐	33.	Hydraulic and hydrostatic testing equipment.
☐	34.	Indoor or outdoor kerosene heaters.
☐	35.	Internal combustion engines used for landscaping purposes.
☐	36.	Laser trimmers using dust collection to prevent fugitive emissions.
☐	37.	Laundry activities, except for dry-cleaning and steam boilers.
☐	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
☐	39.	Oxygen scavenging (de-aeration) of water.

Insignificant Activities (Check all that apply)		
☐	40.	Ozone generators.
☐	41.	Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
☐	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
☐	43.	Process water filtration systems and demineralizers.
☐	44.	Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
☐	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
☐	46.	Routing calibration and maintenance of laboratory equipment or other analytical instruments.
☐	47.	Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
☐	48.	Shock chambers.
☐	49.	Solar simulators.
☐	50.	Space heaters operating by direct heat transfer.
☐	51.	Steam cleaning operations.
☐	52.	Steam leaks.
☐	53.	Steam sterilizers.
☐	54.	Steam vents and safety relief valves.
☐	55.	Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
☐	56.	Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
☐	57.	Such other sources or activities as the Director may determine.
☐	58.	Tobacco smoking rooms and areas.
☐	59.	Vents from continuous emissions monitors and other analyzers.