# How to Fill Out an Air Permit Application

WVDEP Division of Air Quality Small Business Assistance Program



## General Permits

- General Permit application attachments can be found using the link
  - https://dep.wv.gov/daq/permitting/Pages/airgeneralpermit.asp
    X
- o The following General Permits can be used:
  - Coal Preparation Plant G10-D
  - o Hot Mix Asphalt Plant G20-C
  - o Nonmetallic Minerals Processing Plant G40-C
  - o Concrete Batch Plant G50-C
  - o Emergency Generator Class II G60-D
  - o Emergency Generator Class I G65-D
- o Use the applicable instructions for your General Permit Type



## ESS System

- O All General Permits must be submitted through the ESS System. Use the following link to login <a href="https://apps.dep.wv.gov/webapp/dep/securearea/Login/Login.cfm?myurl=%2Fwebapp%2F%5Fdep%2Fsecurearea%2FApplication%2Fappstart%2Ecfm">https://apps.dep.wv.gov/webapp/dep/securearea/Login/Login.cfm?myurl=%2Fwebapp%2F%5Fdep%2Fsecurearea%2FApplication%2Fappstart%2Ecfm</a>
- O Use the following link to request a user login if you do not already have one: <a href="https://apps.dep.wv.gov/webapp/dep/LoginRequest/index.cfm?">https://apps.dep.wv.gov/webapp/dep/LoginRequest/index.cfm?</a> <a href="prog=7">prog=7</a>
- o Click Enter after inputting new information in each box.
- Click submit at the end of the page once all information has been entered.

## Application for NSR Permit

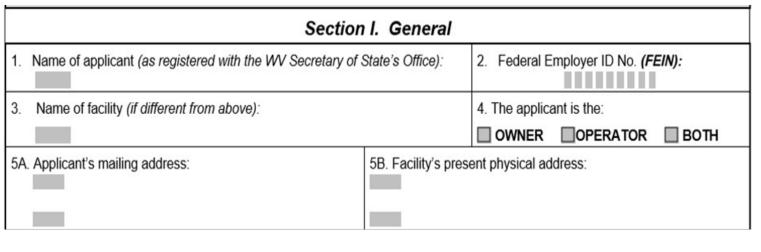
- o Application forms can be found using the following link: <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>
  - O Under heading 45CSR13 on the right-hand side of the page. Select the document title "Application for NSR Permits and/or Title V Operating Permit Revision (Word)"
- o NSR Permitting requirements:
  - Prevention of Significant Deterioration
  - Nonattainment NSR permits
  - O Minor source permits



## Application for NSR Permit

- o Application forms can be found using the following link: <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>
  - OUnder heading 45CSR13 on the right-hand side of the page. Select the document title "Application for NSR Permits and/or Title V Operating Permit Revision (Word)

## Section 1. General Steps 1-5



- 1. Type the name of your company, as it is registered with the WV Secretary of State Office.
- o 2. Enter your FEIN tax number
- 3. Type the name of your facility if it does not match the information provided in question number 1.
- 4. Is the applicant the Owner, Operator, or Both?
- o 5A. Enter your mailing address
- 5B. Enter the physical address of the facility.

## General: Step 6 WV Business Registration

Attachment A

- 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.
- o 6.) Is the Applicant a resident of WV?
  - If YES, attach a copy of your Certificate of Incorporation/Organization/Limited Partnership and label it as Attachment A.
  - If NO, attach a copy of your Certificate of Authority/Authority of LLC/Registration (or other Business Certificate) and label it as Attachment A.



## WEST VIRGINIA STATE TAX DEPARTMENT

# BUSINESS REGISTRATION CERTIFICATE

ISSUED TO:

EASTERN PANHANDLE ORGANIZATION OF HOMEOWNERS
ASSOCIATIONS, INC.
1000 COUNTRY CLUB DR
HARPERS FERRY, WV 25425-6797

BUSINESS REGISTRATION ACCOUNT NUMBER:

2230-3336

This certificate is issued on:

07/7/2011

This certificate is issued by the West Virginia State Tax Commissioner in accordance with Chapter 11, Article 12, of the West Virginia Code

The person or organization identified on this certificate is registered to conduct business in the State of West Virginia at the location above.

This certificate is not transferrable and must be displayed at the location for which issued. This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until if is suspended, revoked or cancolled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them. CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

att.006 v.4 L1662845568

## Attachment A: Business Certificate Example



I, Ken Hechler, Secretary of State of the State of West Virginia, hereby certify that

originals of the Articles of Amendment to the Articles of Incorporation of

are filed in my office, signed and verified, as required by the provisions of West Virginia Code \$31-1-31 and conform to law. Therefore, I issue this

## CERTIFICATE OF AMENDMENT TO THE ARTICLES OF INCORPORATION

changing the name of the corporation to

and I attach to this certificate a duplicate original of the Articles of Amendment.

COMP SSO 248 kecorded In Shower Root, and Page 06/11/2000 01:16:10 PM Shax T, King Cousty Clerk Kacasha Lounty, W'

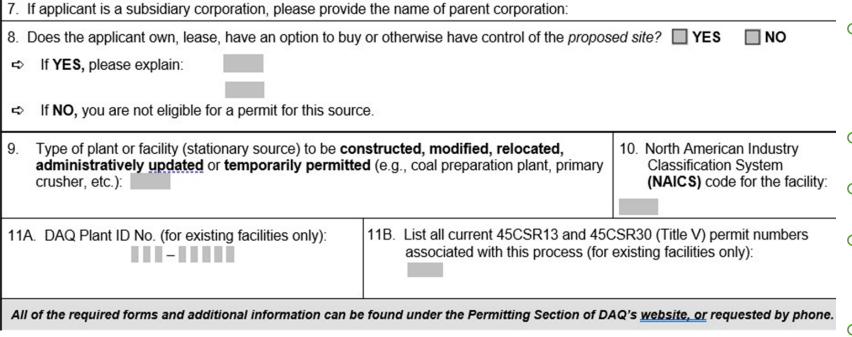
Given under my hand and the Great Seal of the State of West Virginia on this day of August 1, 2000

Tan Hickley





## General Steps 7-11



- 7. Please provide the name of your parent corporation, if one exists
- 8. To be eligible to apply for a permit, the applicant must own, lease, or have an option to buy or otherwise control the proposed site. Check Yes if this is true, then provided an explanation.
- 9.What type of plant/facility is this application for?
- 10. Insert your NAICS Code (See Slide 11 for more information)
- 11A. Only insert your DAQ Plant ID if you have had one issued to you from the WVDEP. If you DO NOT have one, leave 11A. blank.
- 11B. List all 45 CSR13 and Title V permit number associated with this application if one (or more) exist. If not, leave it blank.

## Permit Classification Criteria

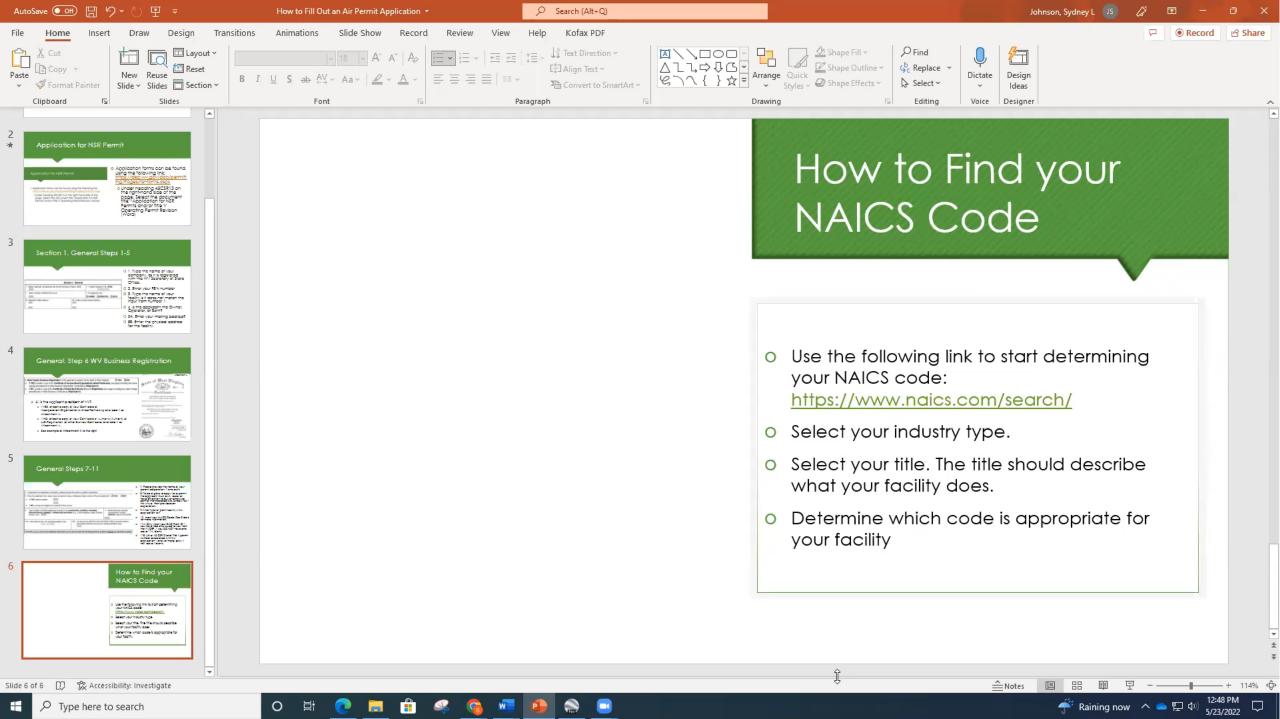
	Criteria	Application Type	
Administrative Update (Class I)	Decrease in emissions OR permanent removal of equipment OR more stringent requirements OR change in MRR that is equivalent or superior Application for Permit		
Administrative Update (Class II)	Less than modification	Permit Determination Form OR Application for Permit	
Construction Permit	6 pph AND 10 tpy of any regulated air pollutant OR 144 ppd of any regulated air pollutant OR 2 pph OR 5 tpy of aggregated HAP OR 45CSR27 TAP (10% increase if above BAT triggers an increase to BAT triggers) OR subject to applicable standard or rule	Application for Permit	
Modification Permit	Permit Same as construction Application for Permit		
Relocation Permit	Po emissions increase or change in facility design or equipment  Application for Pern		
Temporary Permit	Same as construction, but for limited period of time (6 months initially, but can be extended up to 12 additional months by written request)	Application for Permit	



## How to Find your NAICS Code

- o Use the following link to start determining your NAICS code: <a href="https://www.naics.com/search/">https://www.naics.com/search/</a>
- Select your industry type.
- Select your title. The title should describe what your facility does.
- o Determine which code is appropriate for your facility
- o SIC to NAICS crosswalk: <a href="https://www.naics.com/sic-naics-crosswalk-search-results/">https://www.naics.com/sic-naics-crosswalk-search-results/</a>





## General Steps 12A-12D

### 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 <u>road</u>;
- 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

12.B. New site address (if applicable):

12.C. Nearest city or town:

12.D. County:

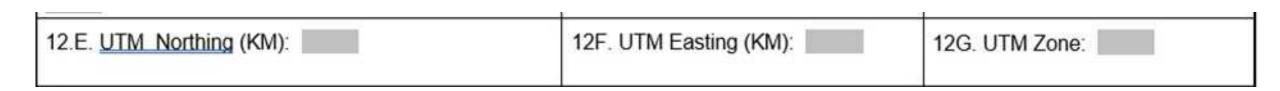


## Attachment B: Maps

- Required for Construction and Relocation permit applications.
- Using Google Earth, take a screenshot of your facility
- Located on 12.a of Section I of the application

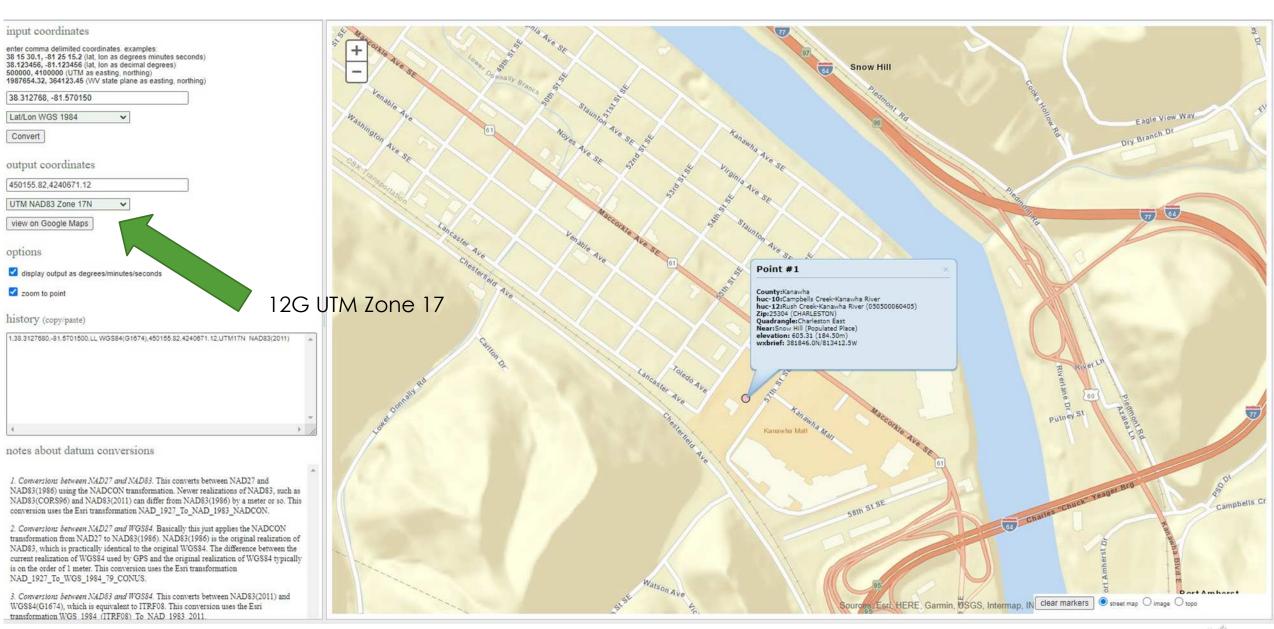


## General Steps 12E-12G

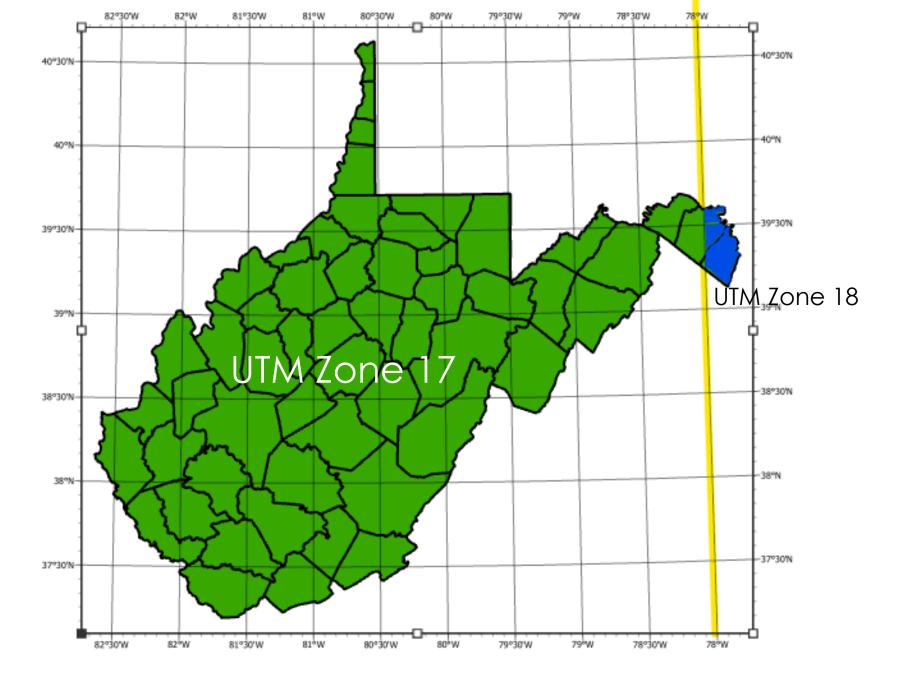


- Use Google Earth to get the longitude and latitude of your facility.
  - Compass app on iPhone can show you Degrees Minutes Seconds
- Use the following link to convert the longitude and latitude to UTM: <a href="https://tagis.dep.wv.gov/convert/">https://tagis.dep.wv.gov/convert/</a>
- Divide the results of the UTM Northing and Easting by 1,000 to convert the values from meters to kilometers
- Insert the values into 12E and 12F. Look under the output coordinate box and insert the UTM zone into 12G











## General Steps 13-16

13. Briefly describe the proposed change(s) at the facility:	**	
14A. Provide the date of anticipated installation or change: // //  If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: // //	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 application as Attachment C (if more than one unit is involved).	units proposed in this permit	
15. Provide maximum projected Operating Schedule of activity/activities outlined in this applic	ration:	
Hours Per Day Days Per Week Weeks Per Year  16. Is demolition or physical repoyation at an existing facility involved? VFS NO		



# Attachment C: Description of Fugitive Emissions

- o Step 14C
- o Provide a detailed written description of all potential sources of fugitive particulate emissions such as stockpiles, haul roads, and vehicle traffic from work areas
- Describe methods and fugitive dust control equipment which will be utilized for each potential source of fugitive emissions
- Outline fugitive dust control measures or best management practices to be employed on haul roads, stockpiles, and work areas
- Provide the application rate of water, or if using solution, mix ratio and type used at sprays and the frequency of use
- Describe methods employed to winterize sprays.
- Indicate type of haul road surface(s) that will be maintained such as asphalt pavement, concrete, dirt, coarse gravel, etc.
- Describe fugitive dust control methods and related equipment for any highwall truck or conveyor dump.

## General Steps 17-18

- 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**.



## Attachment D: Regulatory Discussion

- o Step 18
- List all Federal and State air pollution control devices that are applicable to the proposed process
- Discuss applicability and proposed demonstrations of compliance



# Section II Additional Attachments and Supporting Documents: Steps 19-23

## Section II. Additional attachments and supporting documents.

- 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.



## Question 19

- Do Not Include Confidential Business Information (CBI) or Copies of Checks
- o CBI and checks must be mailed separately to:
  - WVDEP DAQ Permitting
     Attn: NSR Permitting Secretary
     601 57th Street SE
     Charleston, WV 25304
- Additional instructions and tips can be found using the following link: <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>



## Application Fee Amount

o Pay the application fee. The fees are as follows:

Application Type	Application Fee
Permit Determination	None
Administrative Update (Class I)	None
Administrative Update (Class II)	\$300 + 45CSR22 fees
Construction Permit	\$1,000 + 45CSR22 fees
Modification Permit	\$1,000 + 45CSR22 fees
Relocation Permit	\$1,000 + 45CSR22 fees
Temporary Permit	\$1,000 + 45CSR22 fees
General Permit (Class I)	\$250
General Permit (Class II)	\$500 + 45CSR22 fees

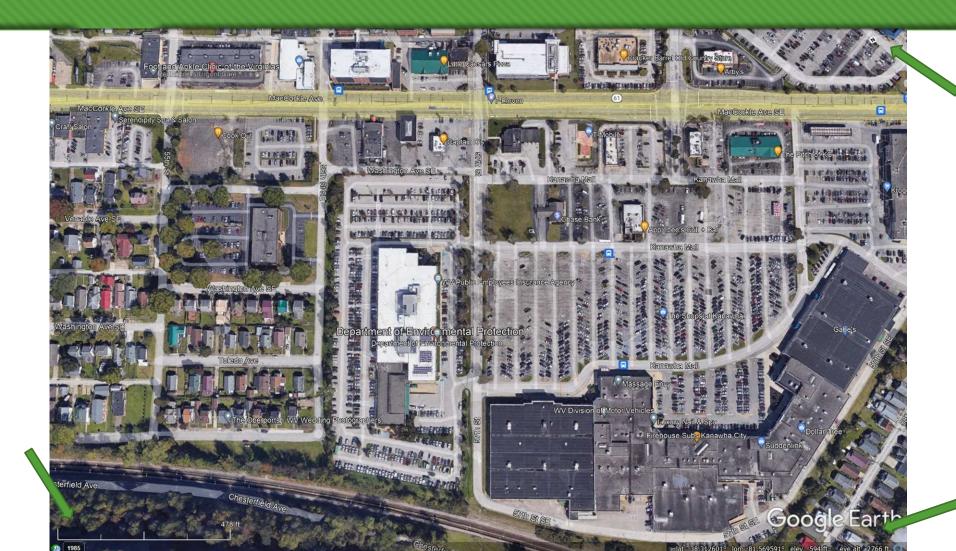


## Attachment E: Plot Plan

- O Step 21
- O Show all equipment, affected facilities, enclosures, buildings and plant entrances and exits from the nearest public road(s) as appropriate. Note height, width and length of proposed or existing buildings and structures.
- O Your Plot Plan **MUST** have:
  - Operation, plant or facility name
  - Company name
  - Facility ID number
  - O Plot scale, north arrow, date drawn, and submittal date.
  - Fence lines
  - Property lines
  - Base elevation
  - UTM reference coordinates from the Area Map and corresponding reference point elevation
  - Location of all sources labeled with proper and consistent Source Identification numbers



## Attachment E: Example

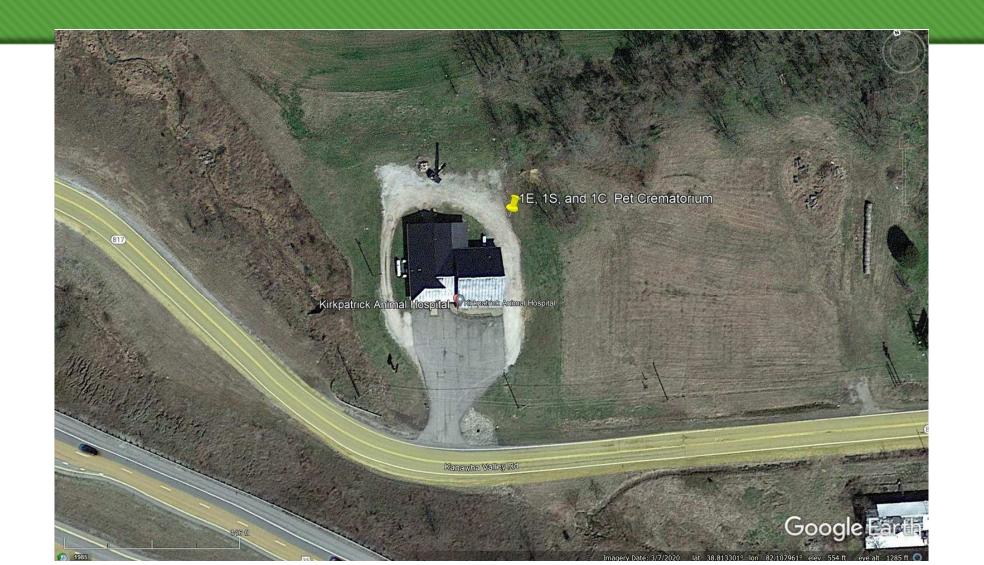


North

Scale

Elevation, Long, and Lat

## Attachment E Example 2



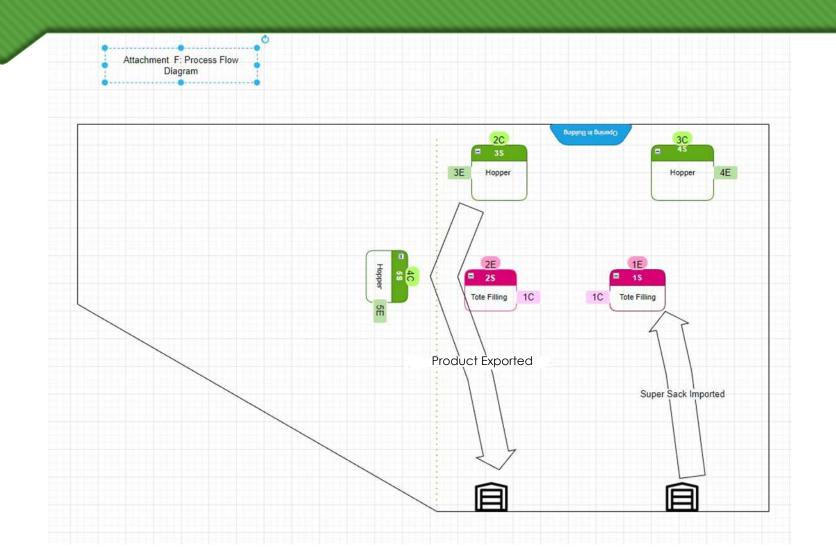


## Attachment F: Process Flow Diagram

- o Step 22
- Provide a diagram depicting the process description of the operation or plant
- Show all sources, components or facets of the operation or plant in an understandable line sequence of operation
- The Process Flow Diagram shall logically follow the entire process from beginning to end.
- Identify each source, air pollution control device and transfer point with proper and consistent Source Identification Numbers, Control Device Identification Numbers and Transfer Point Identification Numbers.
- Include material handling rates for all lines of the Process Flow Diagram. If applicable, include pre- and post-modification material handling rates and identify accordingly.



## Attachment F: Example





# Add sequential line

## Attachment G: Process Description

- o Step 23
- Detail your operating processes
- Describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable)



## Steps 24-27

- 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.



# Attachment H: Material Safety Data Sheet Example



### **Material Safety Data Sheet**

Creation Date 29-Dec-2009

Revision Date 29-Dec-2009

Revision Number

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name

Deionized Water

Cat No.

290-065, 23-290-065, 751-610, 23-751-610, 751-628, 23-751-628, 25065A

nonyms

No information available.

Recommended Use

In vitro diagnostic

Company Emergency Telephone Number Fisher Diagnostics Chemtrec US: (800) 424-9300 Chemtrec EU: (202) 483-7616

A Part of Thermo Fisher Scientific, Inc. 8365 Valley Pike Middletown, VA 22645-1905 Tel: (800) 528-0494

### 2. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Colorless

Physical State Liquid

Odor odorie

Target Organs None known

Potential Health Effects

Acute Effects
Principle Routes of Exposure

rinciple Routes of Exposure

Eyes No hazard from product as supplied. Skin No hazard from product as supplied.

Inhalation Low hazard for usual industrial or commercial handling Ingestion Low hazard for usual industrial or commercial handling

Chronic Effects None know

See Section 11 for additional Toxicological informatio

Aggravated Medical Conditions No information available

https://techblog.ctgclean.com/2013/07/che mistry-material-safety-data-sheets-vs-technical-data/



## Attachment I:

- o Step 25
- Using the link <u>https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</u>, under 45CSR13 Attachment I to find this document
- Your Emission Unit ID should be your source, label it 1S, 2S, 3S, etc.
- o Your Emission Point ID should be the point where pollutants are emitted, label it 1E, 2E, 3E, etc.
- For your Control Devices, label them 1C, 2C, 3C, etc.
- All Emission Unit IDs, Emission Point IDs, and Control Device IDs should match the IDs on the plot plan

### 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 <sup>1</sup>	Emission Point ID <sup>2</sup>	Emission Unit Description	Year Installed/ Modified	Design Capacity	Type <sup>3</sup> and Date of Change	Control Device
			-		-	
	-		= =			
			1			
			1			
			1			
						-
-	-		4	-		-

For Emission Units (or Sources) use the following numbering system:1S, 2S, 3S,... or other appropriate designation.

For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation



For Emission Points use the following numbering system: 1E, 2E, 3E, ... or other appropriate designation

## Attachment J

- o Step 26
- o Using the link <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>, under 45CSR13 Attachment J to find this document
- o Use the same Emission Point ID as before
- Use the same Emission Unit ID as before
- Fill out the maximum potential for uncontrolled and controlled emissions for each pollutant. Determine the pounds per hour (PPH) and tons per year (TPY) of pollutants emitted
- Follow additional instructions in the footnotes of the document



## Attachment K: Fugitive Emissions Data Summary Sheet

- o Step 27
- Using the link
   <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>,
   under 45CSR13 Attachment K to find the Fugitive Emissions
   Data Summary Sheet
- Answer the questions on the sheet and report your fugitive emissions on page 2



# Step 28

28. Check all applicable Emissions U	nit Data Sheets listed below:	
<ul> <li>■ Bulk Liquid Transfer Operations</li> <li>■ Chemical Processes</li> <li>■ Concrete Batch Plant</li> <li>■ Grey Iron and Steel Foundry</li> </ul>	<ul> <li>☐ Haul Road Emissions</li> <li>☐ Hot Mix Asphalt Plant</li> <li>☐ Incinerator</li> <li>☐ Indirect Heat Exchanger</li> </ul>	<ul> <li>☐ Quarry</li> <li>☐ Solid Materials Sizing, Handling and Storage Facilities</li> <li>☐ Storage Tanks</li> </ul>
General Emission Unit, specify  Fill out and provide the Emissions Unit	t Data Sheet(s) as Attachment L.	

o Using the link <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>, under the Attachment L heading. Select the appropriate Emissions Unit Data Sheet. It should be labeled Attachment L.

### Attachment L: Emissions Unit Data Sheet

- O Using the link <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>, under the Attachment L heading. Select the appropriate Emissions Unit Data Sheet. It should be labeled Attachment L.
- Attachment L Sheets include sheets for:
  - Bulk Liquid Transfer
  - Chemical Process
  - Haul Roads
  - Incinerator
  - o Indirect Heat Exchanger
  - Nonmetallic Mineral Processing
  - Storage Tanks
  - General EUDS
  - Natural Gas Compressor Station Equipment
- o If your machine is not represented in the list above, use the most similar or use the General EUDS sheet.
- Overall, you will need your pollution emission rates and information on the emitting machine



# Step 29

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.		

O Check the Air Pollution Control Device(s) the machinery you are trying to permit has. Using the link <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>, under 45CSR13 Attachment M, download the applicable Attachment M document.



# Attachment M: Air Pollution Control Device Sheet

- o Step 29
- O Using the link <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>, under 45CSR13 tab find the Attachment M heading. Select the appropriate Air Pollution Control Device Sheet. It should be labeled Attachment M.
- Attachment M Sheets include sheets for:
  - Absorption
  - Afterburner
  - Baghouses
  - Condensers
  - Electrostatic Precipitator CDS
  - o Flare,
  - Mechanical Collector CDS
  - Other Collectors CDS
  - Wet Collecting System- Scrubber CDS
- o If your control device is not represented in the list above, use the most similar or use the Other Collectors CDS sheet
- Fill out the specific information for your control device. Each control device has different requirements, so make sure you
  select the correct control device sheet.



## Steps 30-32

- 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.



## Attachment N: Supporting Calculations

- Step 30
- o Provide support for the Emission Calculations. This includes:
  - Manual Calculations
  - o Calculations provided by the manufacturer
  - Emission Calculations Spreadsheets found using the following link:
     <a href="https://dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx">https://dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx</a>. These excel documents should be filled in using your specific information and attached as Attachment N.



# AP 42

https://www.epa.g ov/air-emissionsfactors-andquantification/ap-42-compilation-airemissions-factors

1	
Chapter 1	External Combustion Sources
Chapter 2	Solid Waste Disposal
Chapter 3	Stationary Internal Combustion Sources
Chapter 4	<u>Evaporation Loss Sources</u>
Chapter 5	<u>Petroleum Industry</u>
Chapter 6	Organic Chemical Process Industry
Chapter 7	<u>Liquid Storage Tanks</u>
Chapter 8	<u>Inorganic Chemical Industry</u>
Chapter 9	Food and Agricultural Industries
Chapter 10	Wood Products Industry
Chapter 11	<u>Mineral Products Industry</u>
Chapter 12	<u>Metallurgical Industry</u>
Chapter 13	Miscellaneous Sources
Chapter 14	<u>Greenhouse Gas Biogenic Sources</u>
Chapter 15	Ordnance Detonation

#### Attachment N

$$Hp = 261.47^1$$

#### 4-stroke rich burn engine

NOx:

$$\frac{0.49^2 g}{hv - hr}$$
 \* 261.47  $Hp = 128.1 g/hr \div 454 g/lb = 0.282 PPH of NOx$ 

 $0.282 \, \text{lbs/hr} * 500 \, \text{hr/yr} = 141 \, \text{lb/yr}$ 

$$141 \text{ lb/yr} \div 2000 \text{ lb/ton} = 0.0705 \text{ TPY of NOx}$$

CO:

$$\frac{0.77 \ g}{hp-hr}$$
 \* 261.47  $Hp = 201.3 \ g/hr \div 454 \ g/lb =$ **0.443 PPH of CO**

 $0.443 \, \text{lbs/hr} * 500 \, \text{hr/yr} = 221.5 \, \text{lb/yr}$ 

$$221.5 \text{ lb/yr} \div 2000 \text{ lb/ton} = 0.111 \text{ TPY of CO}$$

VOC3:

$$\frac{0.12 g}{hv - hr}$$
 \* 261.47  $Hp = 31.4 g/hr \div 454 g/lb = 0.0692 PPH of VOC$ 

 $0.0692 \, \text{lbs/hr} * 500 \, \text{hr/yr} = 34.6 \, \text{lb/yr}$ 

$$34.6~\mathrm{lb/yr} \div 2000~\mathrm{lb/ton} = \textbf{0.0173 TPY of VOC}$$

PM4:

$$\frac{0.12 \ g}{hp-hr}$$
 \* 261.47  $Hp = 31.4 \ g/hr \div 454 \ g/lb = 0.0692 \ PPH of PM$ 

 $0.0692 \, \text{lbs/hr} * 500 \, \text{hr/yr} = 34.6 \, \text{lb/yr}$ 

 $34.6 \text{ lb/yr} \div 2000 \text{ lb/ton} = 0.0173 \text{ TPY of PM}$ 

SO<sub>2</sub>:

$$\frac{0.659^{\circ} MMBtu}{hr} = \frac{MMBtu}{0.000588 \, lbs} = 0.000387 \text{ PPH of SO}_2$$

$$0.000387 \, \text{lbs/hr} * 500 \, \text{hr/yr} = 0.194 \, \text{lb/yr}$$

$$0.194 \, \text{lb/yr} \div 2000 \, \text{lb/ton} = 0.000097 \, \text{TPY of SO}_2$$

<sup>5</sup> Values in this section come from AP-42, a "Compilation of Air Pollutants Emissions Factors", Fifth Edition section 3.2 and 4-stroke, rich burn emission factors were used.



<sup>&</sup>lt;sup>1</sup> Horsepower was provided in the PSI 8.8 Turbo Charge Air Cooled Stationary manual.

<sup>&</sup>lt;sup>2</sup> Values from this section come from the PSI 8.8L Zero Emissions Permitting Data.

<sup>3</sup> THC emission values were used in place of VOCs.

<sup>&</sup>lt;sup>4</sup> As recommended by Andrew Miller at Gillette Generators, VOC emission values were substituted for PM emission values.

# Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans

- o Step 31
- Create a monitoring, recordkeeping, reporting, and testing plan and attach it as Attachment O.



### Attachment P: Public Notice

- o Step 32
- Using the link <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>, under the Miscellaneous Information tab, find the "Example Legal Advertisement" document. Follow this example to create your legal advertisement.
- You MUST submit your Affidavit of Publication before the DAQ will consider the application complete!
- The comment periods are on the next slide



# Comment Periods

Application Type	Public Notice	Review Period as per Rule
Permit Determination	None	30 working days
Administrative Update (Class I)	None	60 days
Administrative Update (Class II)	30 days (application	60 days
Construction Permit	30 days (application) + 30 days DAQ*	90 days
Modification Permit	30 days (applicant) + 30 days DAQ*	90 days
Relocation Permit	30 days (applicant)	45 days
Temporary Permit	30 days (applicant)	45 days
General Permit (Class I)	None	45 days
General Permit (Class II)	30 days (applicant)	45 days



# Attachment P Example

A picture of the Legal Example is provided to the right

#### AIR QUALITY PERMIT NOTICE Notice of Application

Notice is given that (Applicant's Legal Name) has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a (Construction Permit, Modification Permit, Relocation Permit, Temporary Permit, Class II Administrative Update, General Permit Registration) for a (Type of Operation) located on (Street Name, Road Number, etc.), (in/near City or Town), in (County Name) County, West Virginia. The latitude and longitude coordinates are: (Provide latitude and longitude in decimal format.)

The applicant estimates the (Increased, if modification application) potential to discharge the following Regulated Air Pollutants will be: (Pollutants and associated amounts in tons per year).

Startup of operation is planned to begin on or about the (Day) day of (Month). (Year). Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57th Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice. Written comments will also be received via email at DEPAirQualityPermitting@WV.gov.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 41281, during normal business hours.

Dated this the (Day) day of (Month), (Year).

By: (Applicant's Legal Name) (Name of Responsible Official) (Title of Responsible Official) (Mailing Address) (City, State and Zip Code)



# Step 33: Business Confidentiality Claims

- 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.
- Does the application include confidential information? Check yes or no.
  - If yes, then you will need to follow the General Instructions provided for Attachment Q.
  - If no, then you do not need an Attachment Q



# Attachment Q: Business Confidential Claims

- o If you checked "Yes" on question 33 of the permit application, you would need to supply Attachment Q. Otherwise, you do not need Attachment Q.
- Using the link <a href="https://dep.wv.gov/daq/permitting/pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/pages/nsr-forms.aspx</a>, scroll down the page until you see the "Instructions and Tips" heading. Open the "Precautionary Notice- Claim of Confidentiality" document. The font color should be orange.
- Follow the instructions on this document.
- The confidentiality claim MUST BE SIGNED IN BLUE INK.
- The confidentiality claim CANNOT be emailed and should instead be mailed to the following address:

WVDEP – DAQ – Permitting Attn: NSR or Title V Permitting Secretary \* 601 57th Street, SE Charleston, WV 25304



# Sample Cover Document Confidential Information

Company Name	Responsible O	official	
Company Address	Confidential	Name	
	Information Designee in	Title	
	State of WV	Address	
Person/Title			
Submitting Confidential		Phone	
Information		Fax	

Reason for Submittal of Confidential Information:	
	·

Identification of Confidential Information	Rationale for Confidential Claim	Confidential Treatment Time Period
	Provide justification that the criteria set forth in § 45CSR31-4.1.a - e have been met.	

Responsible Official Signature:	
Responsible Official Title:	
Date Signed:	

NOTE: Must be signed and dated in BLUE INK.



# Section III. Certification of Information and Attachment R

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 Governmental Agency		
Submit completed and signed Authority Form as Attachmen	nt R.	
All of the required forms and additional information can be foun	nd under the Permitting Section of DAQ's <u>website, or</u> requested by phone.	

O Check whether you are the authority of a corporation/other business entity, of a Partnership, of a Limited Partnership, or of a Governmental Agency. Using the link <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>, under 45CSR13 Attachment R, print the applicable form and sign it.

# Steps 35a-36e

2.28) or Authorized Representa	tive shall check the appropriate box and sign	below.
Certification of Truth, Accura	cy, and Completeness	
application and any supporting of reasonable inquiry I further agrestationary source described her Environmental Protection, Divisionand regulations of the West Virginian Regulation Regulati	documents appended hereto, is true, accura se to assume responsibility for the constructi ein in accordance with this application and a ion of Air Quality permit issued in accordance pinia Division of Air Quality and W.Va. Code Responsible Official or Authorized Represe	ve, hereby certify that all information contained in this te, and complete based on information and belief after on, modification and/or relocation and operation of the ny amendments thereto, as well as the Department of e with this application, along with all applicable rules § 22-5-1 et seq. (State Air Pollution Control Act). If the ntative, the Director of the Division of Air Quality will be
	belief formed after reasonable inquiry, all air	ance is not achieved, I, the undersigned hereby certify contaminant sources identified in this application are in DATE:
SIGNATURE	(Please use blue ink)	(Please use blue ink)
35B. Printed name of signee:		35C. Title:
35D. E-mail:	36E. Phone:	36F. FAX:
36A. Printed name of contact pe	erson (if different from above):	36B. Title:
36C. E-mail:	36D. Phone:	36E. FAX:

35A Certification of Information. To certify this permit application, a Responsible Official (per 45CSR813-2, 22 and 45CSR830-

 Fill out all required contact information and sign and date the application using blue ink



## Check Applicable Attachments

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
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- Check the Applicable Attachments. You will be required to have Attachments A, E, I, J, L, P, and R.
- You are also required to check the Application Fee box, as you must pay your fee.



# Attachment S: Title V Permit Revision Information

- o Using the link <a href="https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx">https://dep.wv.gov/daq/permitting/Pages/nsr-forms.aspx</a>, under the Attachment S heading, open Title V Revision Information
- Fill out the form if a Title V revision is required



## The Completed Application

- o When everything is complete:
  - o Number pages 1 of x, 2 of x, 3 of x, etc.,
  - Make a table of contents.
  - o Then scan and submit to permitting via email to <a href="mailty-ermitting@wv.gov">DEPAirQualityPermitting@wv.gov</a>.
    - o The subject line for your email should be headed: [Company Name; Facility Location]
    - o If possible, applications should be scanned as ONE PDF file and attached to the email. Please scan the application with a medium resolution or as a compact PDF. If the application is still larger than 25MB, separate the application and send each section as a separate email and make a notation in the email subject line of the attached section number.
    - o Attach the email cover letter available under the Resources heading on the following website <a href="https://dep.wv.gov/daq/permitting/Pages/TitleVGuidanceandForms.aspx">https://dep.wv.gov/daq/permitting/Pages/TitleVGuidanceandForms.aspx</a>



# If you have any questions, please contact the Small Business Assistance Program at the WVDEP

Gene Coccari SBAP Manager available at (304) 926-0499 x41251

# Good Luck!