

# HENTHORN

Environmental Services

www.henthornenv.com • 517 Sixth Avenue • St. Albans, WV 25177 • (304) 727-1445

September 14, 2015

William F. Durham, Director  
Division of Air Quality  
WV Department of Environmental Protection  
601 57<sup>th</sup> Street  
Charleston, West Virginia 25304

Re: AC&S, Inc.  
Registration Application for General Permit G60-C  
Nitro, West Virginia

Dear Mr. Durham:

Enclosed are the original and two copies of an application on behalf of AC&S, Inc. (AC&S) to register an emergency generator under General Permit G60-C. The emergency generator is a new source. Also enclosed is a check for \$1500.00 for the application fee. The affidavit of publication for the legal advertisement will be provided as soon as it is received.

Thank you for your assistance in this matter. Should you have any questions, please call me.

Sincerely,

  
Jennie Henthorn

*Specializing in Strategic Environmental Planning and Permitting*



WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 DIVISION OF AIR QUALITY  
 601 - 57<sup>th</sup> Street  
 Charleston, WV 25304  
 Phone: (304) 926-0475 □ www.wvdep.org

**APPLICATION FOR GENERAL PERMIT REGISTRATION**  
 CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE  
 A STATIONARY SOURCE OF AIR POLLUTANTS

PLEASE CHECK ALL THAT APPLY (IF KNOWN):

- CONSTRUCTION**    **MODIFICATION**    **RELOCATION**  
 **ADMINISTRATIVE UPDATE**    **AFTER-THE-FACT**

FOR AGENCY USE ONLY: PLANT I.D. # \_\_\_\_\_

PERMIT # \_\_\_\_\_ PERMIT WRITER: \_\_\_\_\_

**CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> <b>G10-C</b> – Coal Preparation and Handling<br><input type="checkbox"/> <b>G20-B</b> – Hot Mix Asphalt<br><input type="checkbox"/> <b>G30-D</b> – Natural Gas Compressor Stations<br><input type="checkbox"/> <b>G35-A</b> – Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit)<br><input type="checkbox"/> <b>G40-B</b> – Nonmetallic Minerals Processing<br><input type="checkbox"/> <b>G50-B</b> – Concrete Batch | <input checked="" type="checkbox"/> <b>G60-C</b> - Class II Emergency Generator<br><input type="checkbox"/> <b>G65-C</b> – Class I Emergency Generator |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION I. GENERAL INFORMATION**

1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE): AC&S, Inc	2. FEDERAL EMPLOYER ID NO. (FEIN): 55-0661163
--------------------------------------------------------------------------------------------	--------------------------------------------------

3. APPLICANT'S MAILING ADDRESS:  
 PO Box 335  
 Nitro, WV 25143

4. IF APPLICANT IS A SUBSIDIARY CORPORATION, PLEASE PROVIDE THE NAME OF PARENT CORPORATION:

5. **WV 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 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**.

**SECTION II. FACILITY INFORMATION**

7. TYPE OF PLANT OR FACILITY (STATIONARY SOURCE) TO BE CONSTRUCTED, MODIFIED, RELOCATED OR ADMINISTRATIVELY UPDATED (E.G., COAL PREPARATION PLANT, PRIMARY CRUSHER, ETC.):  Emergency Generator	8. STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE FOR THE FACILITY:  2865, 2819, 4013
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<p>9A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY):</p> <p>079-00014</p>	<p>10A. LIST ALL CURRENT 45CSR13 AND 45CSR30 (TITLE V) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR EXISTING FACILITY ONLY):</p> <p>R13-1377R; R13-2407</p>
----------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------

**PRIMARY OPERATING SITE INFORMATION**

<p>11A. NAME OF PRIMARY OPERATING SITE:</p> <p>AC&amp;S, Inc.</p>	<p>12A. MAILING ADDRESS OF PRIMARY OPERATING SITE:</p> <p>PO Box 335 Nitro, WV 25143</p>
-------------------------------------------------------------------	----------------------------------------------------------------------------------------------

13A. 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 owns site
- IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14A. - FOR **MODIFICATIONS** or **ADMINISTRATIVE UPDATES**, 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.

Take Exit 45 (Nitro) of I-64. Turn left onto Route 25. Travel 1.2 miles, and turn right on Plant Road. Travel 0.7 miles, and turn left at water tower at AC&S guardhouse.

INCLUDE A **MAP AS ATTACHMENT F**.

<p>15A. NEAREST CITY OR TOWN:</p> <p>Nitro</p>	<p>16A. COUNTY:</p> <p>Putnam</p>
------------------------------------------------	-----------------------------------

<p>17A. UTM NORTHING (KM):</p> <p>4254.1</p>	<p>18A. UTM EASTING (KM):</p> <p>426.1</p>	<p>19A. UTM ZONE:</p> <p>17</p>
----------------------------------------------	--------------------------------------------	---------------------------------

**1<sup>ST</sup> ALTERNATE OPERATING SITE INFORMATION**

<p>11B. NAME OF PRIMARY OPERATING SITE:</p> <p>N/A</p>	<p>12B. MAILING ADDRESS OF PRIMARY OPERATING SITE:</p> <p>N/A</p>
--------------------------------------------------------	-------------------------------------------------------------------

13B. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE *PROPOSED SITE*?  
 **YES**     **NO**

- IF **YES**, PLEASE EXPLAIN: \_\_\_\_\_
- IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14B. – FOR **MODIFICATIONS or ADMINISTRATIVE UPDATES**, 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 F**.

15B. NEAREST CITY OR TOWN:	16B. COUNTY:	
17B. UTM NORTHING (KM):	18B. UTM EASTING (KM):	19B. UTM ZONE:

**2<sup>ND</sup> ALTERNATE OPERATING SITE INFORMATION**

11C. NAME OF PRIMARY OPERATING SITE: N/A	12C. MAILING ADDRESS OF PRIMARY OPERATING SITE: N/A
---------------------------------------------	--------------------------------------------------------

13C. DOES THE APPLICANT OWN, LEASE, HAVE AN OPTION TO BUY, OR OTHERWISE HAVE CONTROL OF THE *PROPOSED SITE*?  
 YES     NO

– IF **YES**, PLEASE EXPLAIN: \_\_\_\_\_  
 \_\_\_\_\_

– IF **NO**, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14C. – FOR **MODIFICATIONS or ADMINISTRATIVE UPDATES**, 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 F**.

15C. NEAREST CITY OR TOWN:	16C. COUNTY:	
17C. UTM NORTHING (KM):	18C. UTM EASTING (KM):	19C. UTM ZONE:

20. PROVIDE THE DATE OF ANTICIPATED INSTALLATION OR CHANGE: ____/____/____ – IF THIS IS AN <b>AFTER-THE-FACT</b> PERMIT APPLICATION, PROVIDE THE DATE UPON WHICH THE PROPOSED CHANGE DID HAPPEN: 2006	21. DATE OF ANTICIPATED START-UP IF REGISTRATION IS GRANTED:  2006
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------

22. PROVIDE MAXIMUM PROJECTED **OPERATING SCHEDULE** OF ACTIVITY/ ACTIVITIES OUTLINED IN THIS APPLICATION:

HOURS PER YEAR 500 PERCENTAGE OF OPERATION \_\_\_\_\_

**SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS**

PLEASE CHECK ALL ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

Please See the appropriate reference document for an explanation of the attachments listed below.

- ATTACHMENT A : CURRENT BUSINESS CERTIFICATE**
- ATTACHMENT B: PROCESS DESCRIPTION**
- ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS**
- ATTACHMENT D: PROCESS FLOW DIAGRAM**
- ATTACHMENT E: PLOT PLAN**
- ATTACHMENT F: AREA MAP**
- ATTACHMENT G: AFFECTED SOURCE SHEETS**
- ATTACHMENT H: BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET**
- ATTACHMENT I: EMISSIONS CALCULATIONS**
- ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT**
- ATTACHMENT K: ELECTRONIC SUBMITTAL DISKETTE**
- CERTIFICATION OF INFORMATION**
- ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE**
- ATTACHMENT M: SITING CRITERIA WAIVER**

PLEASE MAIL AN ORIGINAL AND TWO COPIES OF THE COMPLETE GENERAL PERMIT REGISTRATION APPLICATION WITH THE SIGNATURE(S) TO THE DAQ PERMITTING SECTION AT THE ADDRESS SHOWN ON THE FRONT PAGE. PLEASE DO NOT FAX PERMIT APPLICATIONS. FOR QUESTIONS REGARDING APPLICATIONS OR WEST VIRGINIA AIR POLLUTION RULES AND REGULATIONS PLEASE CALL (304) 926-0475.

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

FOR A CORPORATION (domestic or foreign)

I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation

FOR A PARTNERSHIP

I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

I certify that I am the President or a member of the Board of Directors

FOR A JOINT VENTURE

I certify that I am the President, General Partner or General Manager

FOR A SOLE PROPRIETORSHIP

I certify that I am the Owner and Proprietor

**Eric Miller** is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Chief of the Office of Air Quality immediately, and/or,

I hereby certify that all information contained in this General Permit Registration Application and any supporting documents appended hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made to provide the most comprehensive information possible

Signature Eric A. Miller 9/10/15  
(please use blue ink) Responsible Official Date

Name & Title Thomas L Beal, Executive Vice President  
(please print or type)

Signature Thomas Beal 9/10/15  
(please use blue ink) Authorized Representative (if applicable) Date

Applicant's Name AC&S, Inc.

Phone & Fax (304) 755-9275 (304) 755-5309  
Phone Fax

Email tbeal@acandsinc.com

# Attachment A

1106 8 3 411

**WEST VIRGINIA  
STATE TAX DEPARTMENT  
BUSINESS REGISTRATION  
CERTIFICATE**

ISSUED TO:  
**A C & S INC  
PAR INDUSTRIAL PARK  
NITRO, WV 25143-0000**

BUSINESS REGISTRATION ACCOUNT NUMBER: **1039-3818**

This certificate is issued on: **06/15/2011**

*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 it is suspended, revoked or cancelled 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.

atL006 v.4  
L1812683904



# Attachment B

## **Attachment B**

### **Process Description**

#### **Emergency Generator**

AC&S, Inc. ("AC&S") installed a generator at its Raw Materials Warehouse for emergency electricity if a power outage occurs. The generator was manufactured in May 2006 and purchased in September 2006. In the case of a power outage, the generator is used to power boilers and keep pipes from freezing in the winter.

The make and model of the generator are set forth in Attachment G. The emission factors for this engine were applied based on peak emission rates and the maximum power rating. As with any internal combustion engine, pollutants are generally emitted through the exhaust, with some total organic compounds escaping from the crankcase as a result of blowby as well as evaporative losses from the carburetor. The exhaust exits to the atmosphere through an emission point E-GEN-01.

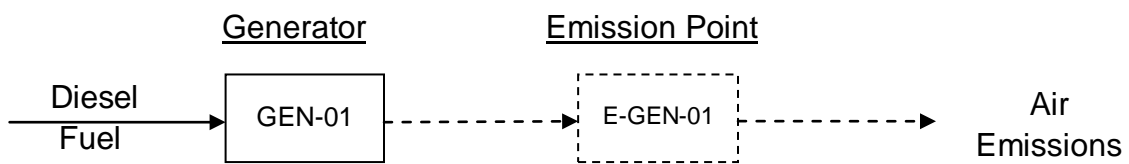
This permit application is specific to the emergency generator. Accordingly, the process description, process flow diagram, and plot plan refer only to the source being added in this permit application. AC&S's other existing operations are addressed in detail in Permits R13-1377R; R13-2407.

# Attachment C

## **Attachment C – Description of Fugitive Emissions**

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# Attachment D



**Attachment D**  
AC&S, Inc.

Process Flow Diagram  
Emergency Generator

Henthorn Environmental Services LLC

# Attachment E

CLOSED GATE

FRONT GATE

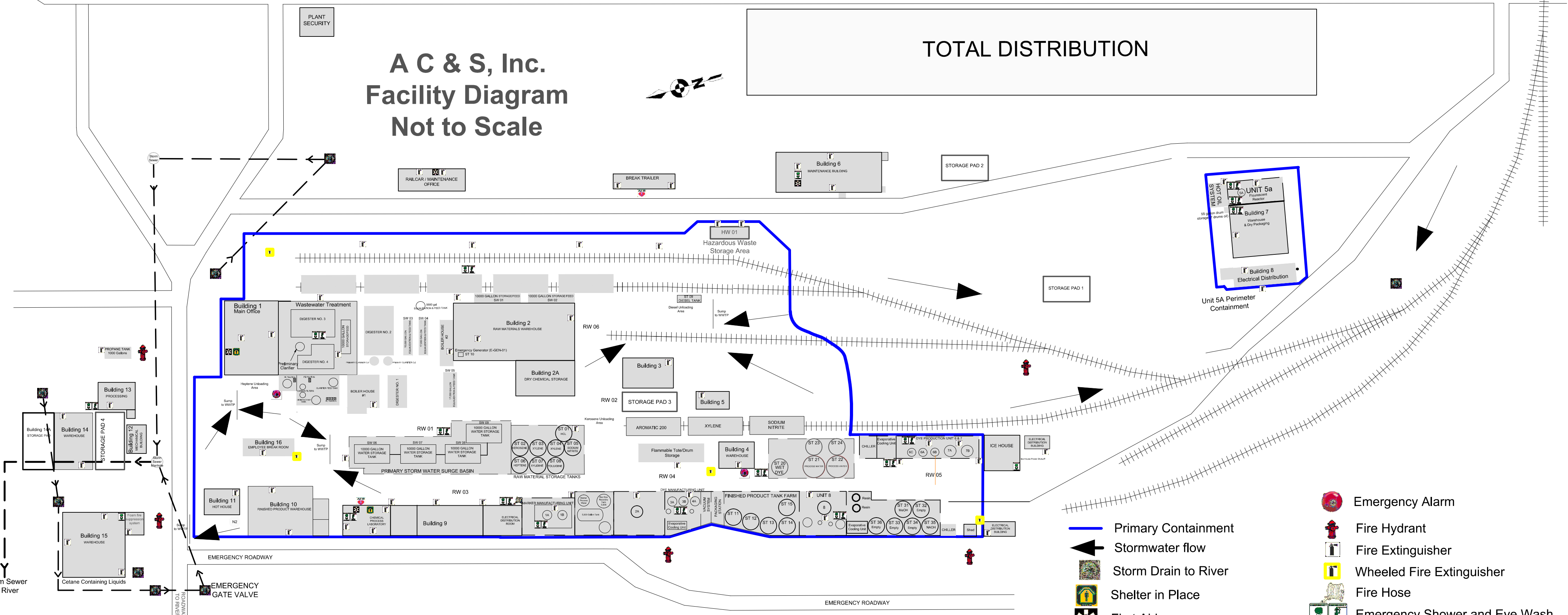
BACK GATE














PLANT ROAD

PLANT ROAD

# A C & S, Inc. Facility Diagram Not to Scale

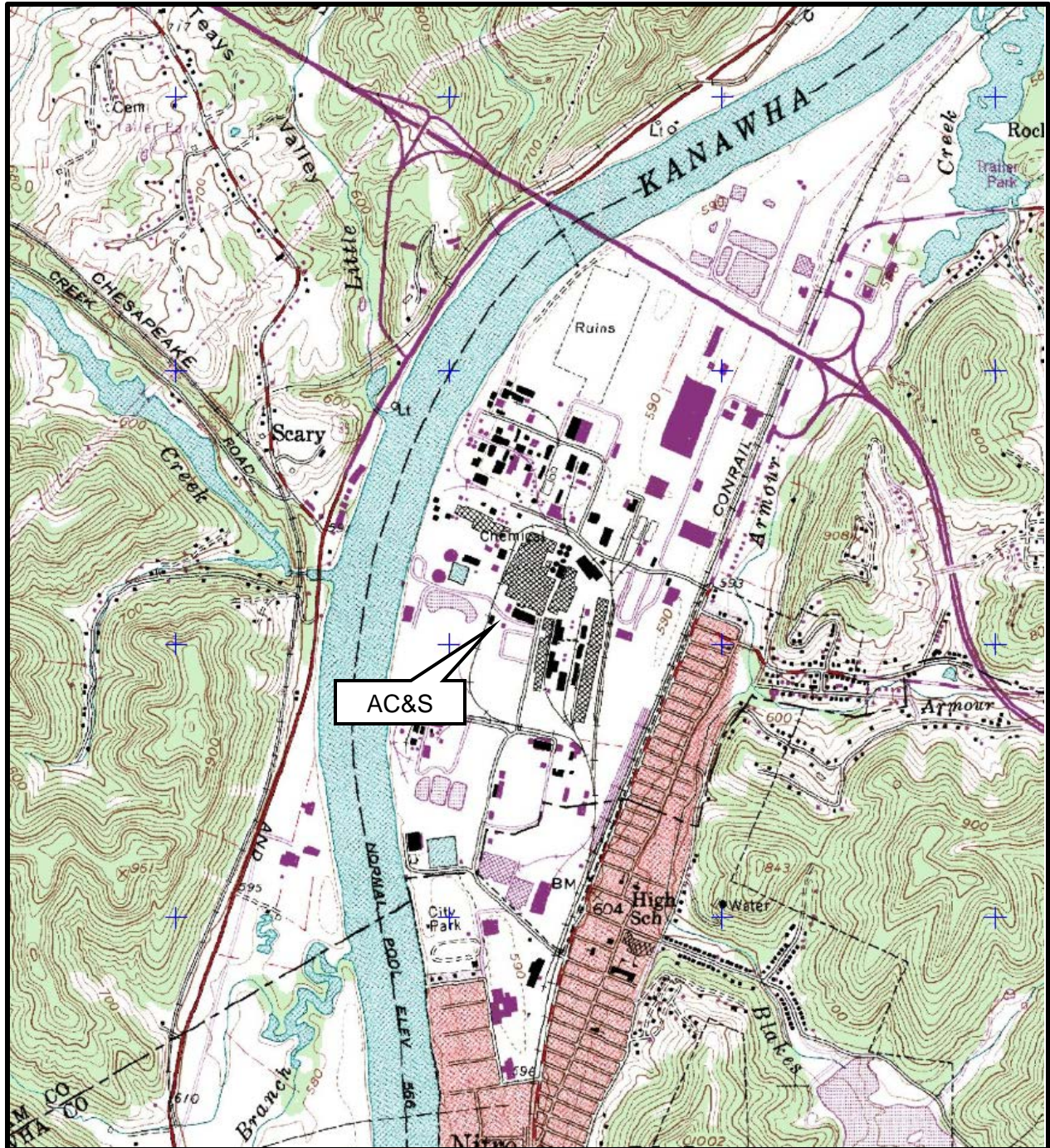
## TOTAL DISTRIBUTION



-  Emergency Alarm
-  Fire Hydrant
-  Fire Extinguisher
-  Storm Drain to River
-  Wheeled Fire Extinguisher
-  Shelter in Place
-  Fire Hose
-  Emergency Shower and Eye Wash
-  Emergency Eye Wash
-  Primary Containment
-  Stormwater flow
-  Shelter in Place
-  First Aid
-  Automated External Defibrillator



# Attachment F



**Attachment F – Area Map**  
 USGS 7.5 Minute Series  
 Topographic Map  
 St. Albans, WV, Quadrangle  
 Henthorn Environmental Services LLC

# Attachment G

## General Permit G60-C Registration Section Applicability Form

General Permit G60-C was developed to allow qualified registrants to seek registration for emergency generator(s).

General Permit G60-C allows the registrant to choose which sections of the permit that they wish to seek registration under. Therefore, please mark which sections that you are applying for registration under. Please keep in mind, that if this registration is approved, the issued registration will state which sections will apply to your affected facility.

- |           |                                                                                                                 |                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Section 5 | Reciprocating Internal Combustion Engines (R.I.C.E.)*                                                           | <input type="checkbox"/>            |
| Section 6 | Tanks                                                                                                           | <input type="checkbox"/>            |
| Section 7 | Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40CFR60 Subpart IIII) | <input checked="" type="checkbox"/> |
| Section 8 | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ)       | <input type="checkbox"/>            |

**\* Affected facilities that are subject to Section 5 may also be subject to Sections 7 or 8. Therefore, if the applicant is seeking registration under both sections, please select both.**

Source Identification Number <sup>1</sup>		E-GEN-01					
Engine Manufacturer and Model		Caterpillar D40-4					
Manufacturer's Rated bhp/rpm							
Source Status <sup>2</sup>		ES					
Date Installed/Modified/Removed <sup>3</sup>		9/26/2006					
Engine Manufactured/Reconstruction Date <sup>4</sup>		5/17/2006					
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart IIII? (Yes or No) <sup>5</sup>		Yes					
Is this a Certified Stationary Spark Ignition Engine according to 40CFR60 Subpart JJJJ? (Yes or No) <sup>6</sup>		No					
Engine, Fuel and Combustion Data	Engine Type <sup>7</sup>	LB4S					
	APCD Type <sup>8</sup>	A/F, LEC					
	Fuel Type <sup>9</sup>	2FO					
	H <sub>2</sub> S (gr/100 scf)	N/A					
	Operating bhp/rpm	1800 rpm					
	BSFC (Btu/bhp-hr)	2545					
	Fuel throughput ( <del>ft<sup>3</sup>/hr</del> )	5.04 GPH					
	Fuel throughput ( <del>MMBtu/yr</del> )	2,521 GPY					
	Operation (hrs/yr)	500					
Reference <sup>10</sup>	Potential Emissions <sup>11</sup>	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
AP	NO <sub>x</sub>	0.5	0.13				
AP	CO	0.11	0.03				
AP	VOC	0.07	0.02				
AP	SO <sub>2</sub>	0.05	0.01				
AP	PM <sub>10</sub>	0.04	0.01				
AP	Formaldehyde	2.18E-04	0.00005				
AP	Benzene	1.72E-04	0.00004				
AP	Toluene	7.56E-05	0.00002				
AP	Xylene	5.27E-04	0.00001				
AP	Propylene	4.77E-04	0.00012				
AP	Acetaldehyde	1.42E-04	0.00004				
AP	Total PAHs	3.10E-05	0.00001				

## EMERGENCY GENERATOR ENGINE DATA SHEET

1. Enter the appropriate Source Identification Number for each emergency generator. Generator engines should be designated EG-1, EG-2, EG-3 etc. If more than three (3) engines exist, please use additional sheets.

2. Enter the Source Status using the following codes:

NS	Construction of New Source (installation)	ES	Existing Source
MS	Modification of Existing Source	RS	Removal of Source

3. Enter the date (or anticipated date) of the engine's installation (construction of source), modification or removal.

4. Enter the date that the engine was manufactured, modified or reconstructed.

5. Is the engine a certified stationary spark ignition internal combustion engine according to 40CFR60 Subpart IIII. If so, the engine and control device must be operated and maintained in accordance with the manufacturer's emission-related written instructions. You must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. If the certified engine is not operated and maintained in accordance with the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and you must demonstrate compliance according to 40CFR§60.4210 as appropriate.

**Provide a manufacturer's data sheet for all engines being registered.**

6. Is the engine a certified stationary spark ignition internal combustion engine according to 40CFR60 Subpart JJJJ. If so, the engine and control device must be operated and maintained in accordance with the manufacturer's emission-related written instructions. You must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required. If the certified engine is not operated and maintained in accordance with the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and you must demonstrate compliance according to 40CFR§60.4243a(2)(i) through (iii), as appropriate.

**Provide a manufacturer's data sheet for all engines being registered.**

7. Enter the Engine Type designation(s) using the following codes:

LB2S	Lean Burn Two Stroke	RB4S	Rich Burn Four Stroke
LB4S	Lean Burn Four Stroke		

8. Enter the Air Pollution Control Device (APCD) type designation(s) using the following codes:

A/F	Air/Fuel Ratio	IR	Ignition Retard
HEIS	High Energy Ignition System	SIPC	Screw-in Precombustion Chambers
PSC	Prestratified Charge	LEC	Low Emission Combustion
NSCR	Rich Burn & Non-Selective Catalytic Reduction	SCR	Lean Burn & Selective Catalytic Reduction

9. Enter the Fuel Type using the following codes:

PQ	Pipeline Quality Natural Gas	RG	Raw Natural Gas
2FO	#2 Fuel Oil	LPG	Liquid Propane Gas

10. Enter the Potential Emissions Data Reference designation using the following codes. Attach all referenced data to this *Compressor/Generator Data Sheet(s)*.

MD	Manufacturer's Data	AP	AP-42
GR	GRI-HAPCalc™	OT	Other _____ (please list)

11. Enter each engine's Potential to Emit (PTE) for the listed regulated pollutants in pounds per hour and tons per year. PTE shall be calculated at manufacturer's rated brake horsepower and may reflect reduction efficiencies of listed Air Pollution Control Devices. Emergency generator engines may use 500 hours of operation when calculating PTE. PTE data from this data sheet shall be incorporated in the *Emissions Summary Sheet*.

### STORAGE TANK DATA SHEET

Source ID # <sup>1</sup>	Status <sup>2</sup>	Content <sup>3</sup>	Volume <sup>4</sup>	Dia <sup>5</sup>	Throughput <sup>6</sup>	Orientation <sup>7</sup>	Liquid Height <sup>8</sup>
ST 10	EXIST	Diesel	121		2,521		

1. Enter the appropriate Source Identification Numbers (Source ID #) for each storage tank located at the compressor station. Tanks should be designated T01, T02, T03, etc.
2. Enter storage tank Status using the following:
 

EXIST Existing Equipment	NEW Installation of New Equipment
REM Equipment Removed	
3. Enter storage tank content such as condensate, pipeline liquids, glycol (DEG or TEG), lube oil, etc.
4. Enter storage tank volume in gallons.
5. Enter storage tank diameter in feet.
6. Enter storage tank throughput in gallons per year.
7. Enter storage tank orientation using the following:
 

VERT Vertical Tank	HORZ Horizontal Tank
--------------------	----------------------
8. Enter storage tank average liquid height in feet.

**EMERGENCY GENERATOR EMISSION SUMMARY SHEET FOR CRITERIA POLLUTANTS**

Emergency Generator Location: <u>Walker Machinery Co. - Belle</u>						Registration Number (Agency Use) <u>G60-C</u>				
	Potential Emissions (lbs/hr)					Potential Emissions (tons/yr)				
Source ID No.	NO <sub>x</sub>	CO	VOC	SO <sub>2</sub>	PM <sub>10</sub>	NO <sub>x</sub>	CO	VOC	SO <sub>2</sub>	PM <sub>10</sub>
GEN-1	0.5	0.11	0.07	0.05	0.04	0.13	0.03	0.02	0.01	0.01
<b>Total</b>	<b>0.5</b>	<b>0.11</b>	<b>0.07</b>	<b>0.05</b>	<b>0.04</b>	<b>0.13</b>	<b>0.03</b>	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>

Note: Gen-1 was previously permitted and is referenced herein to make information for G60-C comprehensive for both gen sets.



# Attachment H

## **Attachment H – Baghouse Air Pollution Control Device Sheet**

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# Attachment I

**Attachment I**  
**Emissions Calculations for Generator E-GEN-01**  
**Assuming Peak Emission Rate and Maximum Power Rating**

<b>Pollutant</b>	<b>Max. Power (KW)</b>	<b>Emission Factor (g/KW-h)</b>	<b>Conversion (lb/g)</b>	<b>Emissions (lb/hr)</b>	<b>Emissions (TPY)<sup>1</sup></b>
<b>NO<sub>x</sub></b>	54.2	4.41	0.002205	0.5	0.13
<b>CO</b>	54.2	0.95	0.002205	0.11	0.03
<b>PM-10</b>	54.2	0.31	0.002205	0.04	0.01

<b>Pollutant</b>	<b>Power (HP)</b>	<b>Conversion Factor (mmBtu/hr/HP)</b>	<b>Emission Factor (lb/mmBtu)</b>	<b>Emissions (lb/hr)</b>	<b>Emissions (TPY)<sup>1</sup></b>
<b>SO<sub>2</sub></b>	72.6	0.002545	0.29	0.05	0.01
<b>TOC/VOC</b>	72.6	0.002545	0.36	0.07	0.02
<b>Benzene</b>	72.6	0.002545	9.33E-04	1.72E-04	0.00004
<b>Toluene</b>	72.6	0.002545	4.09E-04	7.56E-05	0.00002
<b>Xylenes</b>	72.6	0.002545	2.85E-04	5.27E-05	0.00001
<b>Propylene</b>	72.6	0.002545	2.58E-03	4.77E-04	0.00012
<b>1,3-Butadiene</b>	72.6	0.002545	3.91E-05	7.22E-06	1.81E-06
<b>Formaldehyde</b>	72.6	0.002545	1.18E-03	2.18E-04	0.00005
<b>Acetaldehyde</b>	72.6	0.002545	7.67E-04	1.42E-04	0.00004
<b>Acrolein</b>	72.6	0.002545	9.25E-05	1.71E-05	4.27E-06
<b>Total PAHs</b>	72.6	0.002545	1.68E-04	3.10E-05	0.00001

<sup>1</sup> Based on 500 hours/year operating schedule

# Attachment J

## **AIR QUALITY PERMIT NOTICE**

### **Notice of Application**

Notice is given that AC&S, Inc., has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a General Permit Registration for an Emergency Generator located at 150 Plant Road, Nitro, in Putnam County, West Virginia. The latitude and longitude coordinates are: 38.43212 and -81.84647.

The applicant estimates the increased potential to discharge the following Regulated Air Pollutants will be:

NO <sub>x</sub>	0.13 TPY
CO	0.03 TPY
PM	0.01 TPY
SO <sub>2</sub>	0.01 TPY
VOC	0.02 TPY
All other pollutants – trace	

Startup of operation is planned to begin as necessary during a power outage. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57<sup>th</sup> Street, SE, Charleston, WV 25304, for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1227, during normal business hours.

Dated this 14th day of September, 2015.

By: AC&S, Inc.  
Thomas Beal  
Executive Vice President  
Post Office Box 335  
Nitro, West Virginia 25143

# Attachment K

# Attachment L



**A. C., & S. INC.**  
P.O. BOX 335  
NITRO, WV 25143

**CHASE, WEST VIRGINIA**  
P.O. BOX 1113  
CHARLESTON, WV 25324  
69-36/519

27720

9/11/2015

PAY TO THE ORDER OF WVDEP-AQ

\$ \*\*1,500.00

One Thousand Five Hundred and 00/100\*\*\*\*\* DOLLARS

WV DEP  
DIV OF AIR QUALITY  
601 57TH STREET, SE  
CHARLESTON, WV 25304

*Don Cook*  
\_\_\_\_\_  
AUTHORIZED SIGNATURE

Memo

⑈027720⑈ ⑆051900366⑆ 290037997⑈

**A. C., & S. INC.**

27720

WVDEP-AQ

9/11/2015

1,500.00

Chase Operating Cas

1,500.00