



WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street, SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

**PERMIT DETERMINATION FORM
(PDF)**

FOR AGENCY USE ONLY: PLANT I.D. # _____
PDF # _____ PERMIT WRITER: _____

1. NAME OF APPLICANT (AS REGISTERED WITH THE WV SECRETARY OF STATE'S OFFICE):

Huttonsville Public Service District

2. NAME OF FACILITY (IF DIFFERENT FROM ABOVE):

Water Treatment Plant

3. NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS) CODE:

221310

4A. MAILING ADDRESS: P. O. Box 277

Mill Creek, WV 26280

4B. PHYSICAL ADDRESS: 1469 Elkwater Fork Road

Huttonsville, WV 26273

5A. DIRECTIONS TO FACILITY (PLEASE PROVIDE MAP AS ATTACHMENT A): Go. 8.3 miles south from US 250 and US 219 intersection in Huttonsville, WV. Turn right on CR 58 and go 1.5 miles. Plant on left.

5B. NEAREST ROAD:

Elkwater Fork Rd, CR 58

5C. NEAREST CITY OR TOWN:

Huttonsville

5D. COUNTY:

Randolph

5E. UTM NORTHING (KM):

4272974.85

5F. UTM EASTING (KM):

581882.66

5G. UTM ZONE:

17S

6A. INDIVIDUAL TO CONTACT IF MORE INFORMATION IS REQUIRED:

Michael Green, P. E., Green Engineering, Inc.

6B. TITLE:

President

6C. TELEPHONE:

304-457-3441

6D. FAX:

N.A.

6E. E-MAIL:

mg.greeneng@gmail.com

7A. DAQ PLANT I.D. NO. (FOR AN EXISTING FACILITY ONLY):

7B. PLEASE LIST ALL CURRENT 45CSR13, 45CSR14, 45CSR19 AND/OR TITLE V (45CSR30) PERMIT NUMBERS ASSOCIATED WITH THIS PROCESS (FOR AN EXISTING FACILITY ONLY):

None

7C. IS THIS PDF BEING SUBMITTED AS THE RESULT OF AN ENFORCEMENT ACTION? IF YES, PLEASE LIST:

Submission due to recent inspection by Dan Bauerle, and data from Generator Manufacturer.

8A. TYPE OF EMISSION SOURCE (CHECK ONE):

- NEW SOURCE ADMINISTRATIVE UPDATE
 MODIFICATION OTHER (PLEASE EXPLAIN IN 11B)

8B. IF ADMINISTRATIVE UPDATE, DOES DAQ HAVE THE APPLICANT'S CONSENT TO UPDATE THE EXISTING PERMIT WITH THE INFORMATION CONTAINED HEREIN?

YES NO

9. IS DEMOLITION OR PHYSICAL RENOVATION AT AN EXISTING FACILITY INVOLVED?

YES NO

10A. DATE OF ANTICIPATED INSTALLATION OR CHANGE:

March/12/2015

10B. DATE OF ANTICIPATED START-UP:

August/19/2015

11A. PLEASE PROVIDE A DETAILED PROCESS FLOW DIAGRAM SHOWING EACH PROPOSED OR MODIFIED PROCESS EMISSION POINT AS ATTACHMENT B. Map showing emission point

11B. PLEASE PROVIDE A DETAILED PROCESS DESCRIPTION AS ATTACHMENT C. Generator only emission point.

12. PLEASE PROVIDE MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS PROCESSED, USED OR PRODUCED AS ATTACHMENT D. FOR CHEMICAL PROCESSES, PLEASE PROVIDE A MSDS FOR EACH COMPOUND EMITTED TO AIR.

13A. REGULATED AIR POLLUTANT EMISSIONS:

⇒ FOR A NEW FACILITY, PLEASE PROVIDE PLANT WIDE EMISSIONS BASED ON THE POTENTIAL TO EMIT (PTE) FOR THE FOLLOWING AIR POLLUTANTS INCLUDING ALL PROCESSES.

⇒ FOR AN EXISTING FACILITY, PLEASE PROVIDE THE PROPOSED CHANGE IN EMISSIONS BASED ON THE PTE OF ALL PROCESS CHANGES FOR THE FOLLOWING AIR POLLUTANTS.

PTE FOR A GIVEN POLLUTANT IS TYPICALLY BEFORE AIR POLLUTION CONTROL DEVICES AND IS COLLECTED BASED ON THE MAXIMUM DESIGN CAPACITY OF PROCESS EQUIPMENT.

POLLUTANT	HOURLY PTE (LB/HR)	YEARLY PTE (TON/YR) (HOURLY PTE MULTIPLIED BY 8760 HR/YR) DIVIDED BY 2000 LB/TON
PM	0.017	0.027 tons for 9 hr max operation/day
PM ₁₀		
VOCs		
CO	0.21	0.35 tons for 9 hr max operation/day
NO _x	6.01	9.88 tons for 9 hr max operation/day
SO ₂		
Pb		
HAPs (AGGREGATE AMOUNT)		
TAPs (INDIVIDUALLY)*		
OTHER (INDIVIDUALLY)*	HC 0.018	0.029 tons for 9 hr max operation/day

* ATTACH ADDITIONAL PAGES AS NEEDED

13B. PLEASE PROVIDE ALL SUPPORTING CALCULATIONS AS ATTACHMENT E.

CALCULATE AN HOURLY AND YEARLY PTE OF EACH PROCESS EMISSION POINT (SHOWN IN YOUR DETAILED PROCESS FLOW DIAGRAM) FOR ALL AIR POLLUTANTS LISTED ABOVE INCLUDING INDIVIDUAL HAP'S (LISTED IN SECTION 112[b] OF THE 1990 CAAA), TAP'S (LISTED IN 45CSR27), AND OTHER AIR POLLUTANTS (E.G. POLLUTANTS LISTED IN TABLE 45-13A OF 45CSR13, MINERAL ACIDS PER 45CSR7, ETC.).

14. CERTIFICATION OF DATA

I, LOUISE MCATEE (TYPE NAME) ATTEST THAT ALL THE REPRESENTATIONS CONTAINED IN THIS APPLICATION, OR APPENDED HERETO, ARE TRUE, ACCURATE, AND COMPLETE TO THE BEST OF MY KNOWLEDGE BASED ON INFORMATION AND BELIEF AFTER REASONABLE INQUIRY, AND THAT I AM A **RESPONSIBLE OFFICIAL**** (PRESIDENT, VICE PRESIDENT, SECRETARY OR TREASURER, GENERAL PARTNER OR SOLE PROPRIETOR) OF THE APPLICANT.

SIGNATURE OF RESPONSIBLE OFFICIAL: _____

Louise A. McAttee

TITLE: OFFICE MANAGER

DATE: AUGUST/19/2015.

** THE DEFINITION OF THE PHRASE 'RESPONSIBLE OFFICIAL' CAN BE FOUND AT 45CSR13, SECTION 2.23.

ATTACHMENT E
August, 2015 for Air Pollution Application

Huttonsville Public Service District - Water Plant adjacent to Elkwater Fork Dam

Approximate Plant Power Requirements = 301,553 w = 302 KW

Unit	Total Units	Power / Unit	Total Power Required
Travelling Screen Drive Motor	1 each	3 hp	2238 w
Floculator Drive Motors	4 each	2.5 hp	7460 w
Horizontal Sludge Scraper	2 each	5 hp (1 operating)	3730w
Transverse Sludge Scraper	2 each	3 hp (1 operating)	2238 w
Backwash water Pumps	2 each	30 hp	44,760 w
High Service Pumps (1400 gpm)	2 each	150 hp (1 operational)	111,900 w
Lighting 2 bulbs @ 60w Fluorescent	160 each	60w / each	9600 w
Lighting 120 w	8 each	120 w / each	960 w
Chemical Feeder Pumps (1/2 hp)	10 each	1/2 hp	3730 w
Mixer Motors	5 each	1/2 hp	1865 w
Hot water Tank	1 each	3200w	3200 w
Electric Stove	1 each	5000 w	5000 w
Refrigerator	1 each	500 w	500 w
Trolley Motor	1 each	5 hp	3730 w
HW Tank	1 each	2500 w	2500 w
Exhaust fans	8 each	2 hp	11,936 w
Electric Wall Heaters	5-10 kw, 1-5 kw, 4-2500 w, 2-1500 w	varies	68,000 w
HVAC System	1 each	8 hp	5968 w
Electric garage door openers	2 each	1.5 hp	2238 w
Misc.			10,000 w

Assumptions for Section 13A Calculations

1. The generator at the water plant is rated at 750 ekw, or at 1,005 HP, and was oversized to allow for future expansion and lower fuel consumption.
2. The water plant runs for 9 hours per day, with a maximum draw of 302 kw or 405 HP.
3. Emissions are calculated on 9 hours per day, with one week of operation on the generator per year.
4. Data on the generator is shown on the map labeled Attachment D.
5. As the plant operates a maximum of 9 hours per day, the yearly amount is calculated as 3,285 hours of operation rather than 8,760 hours of operation.
6. Calculations are shown for only the data provided by the manufacturer on Attachment D.

The only emissions from this operation is when the backup generator is operating.

From Manufacturer Data on Attachment D

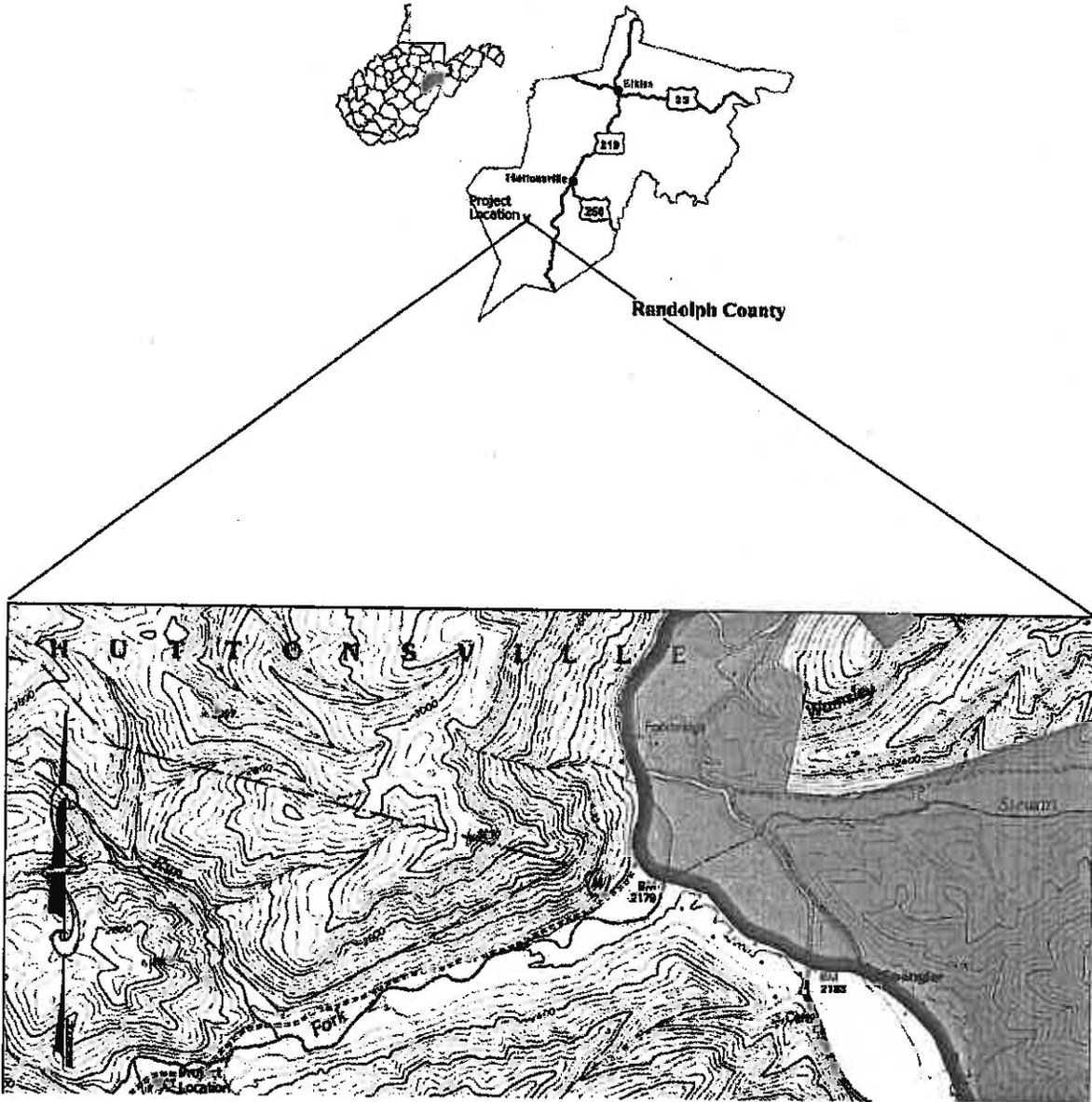
Emissions (Nominal) ¹	
NOx g/hp-hr	6.74 g/hp-hr
CO g/hp-hr	.24 g/hp-hr
HC g/hp-hr	.02 g/hp-hr
PM g/hp-hr	.019 g/hp-hr

1. Pollutant - PM = $0.019 \text{ grams/HP-hr} \times 405 \text{ HP} / 453.6 \text{ grams/lb} = 0.017 \text{ lb/hour}$

$0.017 \text{ lb/hour} \times 3,285 \text{ hours of operation} = 55.7 \text{ lbs}$

Typically, the maximum use of the generator should be one week per year of 1/52 of the 55.7 lbs or 1.07 lbs.

Attachment A



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Misc.			10,000 w

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From Manufacturer Data on Attachment D

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CO g/hp-hr	.24 g/hp-hr
HC g/hp-hr	.02 g/hp-hr
PM g/hp-hr	.019 g/hp-hr

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FOIA Request

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The fax number is 304-926-0447.

Thank you.



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