

Fact Sheet



For Final Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Number: **R30-00300133-2017**

Application Received: **November 28, 2016 and January 4, 2017**

Plant Identification Number: **003-00133**

Permittee: **U.S. Department of the Treasury, Internal Revenue Service**

Facility Name: **Martinsburg Computing Center Main Building and Annex Complex**

Mailing Address: **250 Murall Drive, MS#2225, Kearneysville, WV 25430**

Revised: NA

Physical Location:	Kearneysville, Berkeley County, West Virginia
UTM Coordinates:	248.928 km Easting • 4365.127 km Northing • Zone 18
Directions:	Take I-81 to WV. At Exit 12 (WV-45/Winchester Avenue/Charlestown) turn onto WV-45 Eastbound (Apple Harvest Drive). Drive for 2.0 miles until WV-45 Eastbound becomes WV-9 Eastbound (Charles Town Road). Drive for 3.7 miles on WV-9 Eastbound (Charles Town Road). Next, turn onto Short Road and make immediate left onto Murall Drive. Drive for 0.2 miles on Murall Drive to arrive at the site.

Facility Description

The U.S. Department of the Treasury, Internal Revenue Service (IRS) operates an Enterprise Computing Center in Kearneysville, WV. This facility is responsible for the processing of tax returns that are submitted electronically. The IRS Enterprise Computing Center operations are located in a Main Building and an Annex Complex. The Main Building is equipped with four (4) 5.0 MMBtu/hr boilers and ten (10) emergency generator sets that were installed in 2012 and 1999 respectively. The Annex Complex is equipped with two (2) 1.62 MMBtu/hr boilers and five (5) emergency generator sets that were installed in 1995. The boilers provide space heating for each building. This facility has a Standard Industrial Classification (SIC) Code of 9311 and North American Industry Classification System (NAICS) Code of 921130. The facility has the potential to operate seven (7) days per week, twenty-four (24) hours per day.

Emissions Summary

Plantwide Emissions Summary [Tons per Year]		
Regulated Pollutants	Potential Emissions	2016 Actual Emissions
Carbon Monoxide (CO)	49.22	6.44
Nitrogen Oxides (NO _x)	152.42	6.33
Particulate Matter (PM _{2.5})	4.82	0.26
Particulate Matter (PM ₁₀)	4.97	0.39
Total Particulate Matter (TSP)	6.40	0.86
Sulfur Dioxide (SO ₂)	30.02	4.70
Volatile Organic Compounds (VOC)	4.44	0.60

PM₁₀ is a component of TSP.

Hazardous Air Pollutants	Potential Emissions	2016 Actual Emissions
Total HAPS	< 0.1	N/A

Some of the above HAPs may be counted as PM or VOCs.

Title V Program Applicability Basis

This facility has the potential to emit 152.42 tons per year of NO_x. Due to this facility's potential to emit over 100 tons per year of a criteria pollutant, U.S. Department of the Treasury, Internal Revenue Service's Martinsburg Computing Center Main Building and Annex Complex is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:

45CSR2	To Prevent And Control Particulate Air Pollution From Combustion Of Fuel In Indirect Heat Exchangers
45CSR6	Control Of Air Pollution From Combustion Of Refuse
45CSR11	Prevention Of Air Pollution Emergency Episodes
45CSR13	Permits For Construction, Modification, Relocation And Operation Of Stationary Sources Of Air Pollutants, Notification Requirements, Administrative Updates, Temporary Permits, General Permits, And Procedures For Evaluation
45CSR30	Requirements For Operating Permits
45CSR34	Emission Standards For Hazardous Air Pollutants
40 C.F.R. Part 61, Subpart M	National Emission Standard For Asbestos
40 C.F.R. Part 63, Subpart JJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

40 C.F.R. Part 82, Subpart F
WV Code § 22-5-4 (a) (14)

Recycling and Emissions Reduction

The Secretary can request any pertinent information such as annual emission inventory reporting.

State Only:

45CSR4

To Prevent And Control The Discharge Of Air Pollutants Into The Open Air Which Causes Or Contributes To An Objectionable Odor Or Odors

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit (<i>if any</i>)
R13-2787A	February 1, 2012	
R13-2788	February 13, 2009	

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table," which may be downloaded from DAQ's website.

Determinations and Justifications

This is a renewal of the Title V permit which was issued on September 22, 2010 and modified on April 25, 2012. Changes to the most recent version of the Title V Permit include the following:

1) Title V Boilerplate changes:

- **Condition 3.3.1.** - This condition was revised to add subsection "d." to the testing requirements.
- **Conditions 3.5.3., 3.5.5. and 3.5.6.** - These conditions were revised to require electronic submittal of the Title V annual compliance certifications, semi-annual monitoring reports, self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols to the WV DAQ.

2) Emission Units Table Section 1.1 – The following changes have been made to the equipment table:

- From the information contained in the initial Title V fact sheet, the maximum horsepower of the emergency generator engines were determined to be 1917 HP, based on an engine performance test that was done on the Annex Complex emergency generators that were installed in 1995. The Main Building emergency generator sets were installed in 1999. Since the Main Building emergency generators are the same make and model as those of the Annex building, they were assumed to have the same horsepower rating. This assumption was made in the permit application

for permit R13-2787. Consequently, Permit R13-2787 based its requirements on 1917 HP and included a requirement limiting the horsepower to 1917. The emergency generator requirements of R13-2787 are now part of R13-2787A.

The current Title V permit shows the emergency generator design capacity for each generator for the Main Building as 2680 HP and for the Annex Building as 2413 HP. Based on the information above, and the description in the title V renewal application (#14 of the general forms), the design capacity for each of the emergency generators has been corrected to 1917 HP in the “Emission Units” table.

- Boilers B2-001C, B2-002C and B2-003C have been removed from the facility and therefore removed from the table.
 - Boilers B-1.1, B-1.2, B-1.3 and B-1.4 were previously shown with individual emission points. However, the general description of operations in section 14 of the application states that all four boilers vent to a common stack (B2-001CS). Review of the application for permit R13-2787A (the construction permit for the boilers) confirms that all four boilers vent to a common stack. Therefore, the emission point for each boiler has been corrected to “B2-001CS.”
 - Five (5) existing underground fuel oil storage tanks with a capacity of 25,000 gallons each were not previously listed in the emissions unit table. These tanks have been added to the table in the renewal permit.
- 3) **Condition 3.4.2.** – This condition has been re-written to combine the Title V permit, R13-2787A, and R13-2788 permit boilerplate language. The requirements from 40 CFR §63.10(b)(1) which are required by 40 CFR §§63.11225(c) and (d) have also been added to this condition.
- 4) **Conditions 4.1.1.c., 4.1.1.d. and 4.4.4.** - 40 CFR §63.11223 of Subpart JJJJJ was amended on February 1, 2013 and September 14, 2016. There were “exceptions” to the biennial boiler tune-up of §63.11223(b) added in §§63.11223(c) thorough(f). 40 CFR §63.11223(e) is for oil fired boilers with heat input capacity of 5 mmBtu/hr or less. Instead of the biennial tune-up, they are required to conduct a tune-up every 5 years. The first 5-year tune-up must be conducted no more than 61 months after the initial start-up and thereafter no more than 61 months after the previous tune-up.
- Permit R13-2787A §4.1.1.c. requires a biennial tune-up of the boilers based on and with the citation of the 2012 version of 40 CFR §63.11223(b) which was in effect at the time the permit was written. Since the intent of the boiler tune-up in permit R13-2787A is from Subpart JJJJJ, and given that the subpart has been amended, the requirement for the tune-up has been updated in condition 4.1.1.c. of the Title V permit to every 5 years.
 - The language in 4.1.1.c. has been updated to the amended language of Subpart JJJJJ.
 - Boilers B2-001C, B2-002C and B2-003C have been removed from the facility. Therefore, condition 4.1.1.d. has been removed from the permit.
- 5) **Condition 4.1.5.** – Added 40 CFR §63.1123(b) and §63.11223(e) requirements for 5 year tune-ups for B2-001A and B2-002A. Subsequent conditions have been re-numbered.
- 6) **Conditions 4.1.9., 4.1.10., 4.2.3., 4.4.5. 4.5.3., 4.5.4., 4.5.5. (current permit)** - These conditions have been deemed to be non-applicable and therefore not included in the renewal permit. In accordance with EPA Memorandum for “Guidance Regarding Definition of Residential, Commercial, and Institutional Emergency Stationary RICE in the NESHAP for Stationary RICE” dated August 9, 2010, the Emergency Generator engines at this facility are defined as “institutional emergency stationary RICE based on the facility’s NAICS code of 921130.
-

Pursuant to 40 CFR §63.6585(f)(3), since the emergency generators do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) and they do not operate for the purpose specified in §63.6640(f)(4)(ii), they are not subject to 40 CFR 63 Subpart ZZZZ.

- 7) **Condition 4.1.11.** – As discussed in the third bullet in Item 4). above, boilers B2-001C, B2-002C and B2-003C have been removed from the facility. Therefore, the visible emissions limit from their common stack B2-S has not been included in the renewal permit.
- 8) **Condition 4.1.10. (renewal permit)** – The requirements of 40 CFR §63.11205(a) have been added as condition 4.1.10. in the renewal permit.
- 9) **Condition 4.4.5. (renewal permit)** – The requirements of 40 CFR §63.11223(a) and §§63.11225(c) and (d) have been added as condition 4.4.5. in the renewal permit.
- 10) **Condition 4.5.2.** – 40 CFR §63.11225 of Subpart JJJJJJ was amended on February 1, 2013 and September 14, 2016. 40 CFR §63.11225(a)(4) states in part “If you own or operate a new boiler subject to a requirement to conduct a tune-up, you are not required to prepare and submit a Notification of Compliance Status for the tune-up.” Therefore, this condition has been revised to remove the requirement for the new boilers (B-1.1, B-1.2, B-1.3, B-1.4).

Non-Applicability Determinations

The following requirements have been determined not to be applicable to the subject facility due to the following:

- | | |
|------------------------------------|---|
| 45CSR10 | To Prevent and Control Air Pollution From Emissions of Sulfur Oxides: The maximum design heat input for each boiler is less than 10 MMBtu/hr. Therefore, the boilers are not subject to 45CSR10 per 45CSR§10-10.1. |
| 40 CFR Part 60 Subpart Dc | Standards of Performance for fossil-fuel-fired steam generators for which construction is commenced after June 9, 1989: The maximum design heat input for each boiler is less than 10 MMBtu/hr, which is below the applicability threshold of 40 CFR §60.40c(a). |
| 40 CFR Part 60 Subpart Kb | Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984: Fifteen (15) No. 2 fuel oil “day” tanks are less than 75 m ³ in capacity and therefore not subject to this subpart per 40 CFR §60.110b(a). Five (5) No. 2 fuel oil storage tanks are between 75 m ³ and 151 m ³ in capacity with a maximum true vapor pressure less than 15.0 kPa (2.18 psi) and therefore are not subject to this subpart per 40 CFR §60.110b(b). |
| 40 CFR Part 60 Subpart IIII | Standards of Performance for Stationary Compression Ignition Internal Combustion Engines: The fifteen (15) emergency generator engines are compression ignition, internal combustion engines manufactured before July 11, 2005. Therefore, these engines are not subject to this subpart per 40 CFR §60.4200(a)(2). |
| 40 CFR Part 60 Subpart JJJJ | Standards of Performance for Stationary Spark Ignition Internal Combustion Engines: The fifteen (15) emergency generator engines are not spark ignition internal combustion engines. Therefore, the engines are not subject to this subpart. |

40 CFR Part 63 Subpart ZZZZ **National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines:** The facility's fifteen (15) emergency generator sets are defined as "existing institutional emergency stationary RICE located at an area source of HAP" and therefore are not subject to this subpart per 40 CFR §63.6585(f)(3).

40 CFR Part 64 **Compliance Assurance Monitoring (CAM):** There are no pollutant specific emissions units (PSEU) that satisfy all of the applicability criteria of 40 CFR§64.2(a). Therefore, the facility is not subject to CAM.

Request for Variances or Alternatives

None.

Insignificant Activities

Insignificant emission unit(s) and activities are identified in the Title V application.

Comment Period

Beginning Date: Friday, May 26, 2017
Ending Date: Monday, June 26, 2017

Point of Contact

All written comments should be addressed to the following individual and office:

Frederick Tipane
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304/926-0499 ext. 1215 • Fax: 304/926-0478
frederick.tipane@wv.gov

Procedure for Requesting Public Hearing

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

Response to Comments (Statement of Basis)

Not applicable.