

Fact Sheet



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

Permit Number: **R30-00900002-2021**
Application Received: **February 12, 2020**
Plant Identification Number: **009-00002**
Permittee: **Mountain State Carbon, LLC**
Facility Name: **Follansbee Plant**
Mailing Address: **1851 Main Street, Follansbee, WV 26037**

Physical Location: Follansbee, Brooke County, West Virginia
UTM Coordinates: 533.41 km Easting • 4465.76 km Northing • Zone 17
Directions: One mile north of Follansbee on West Virginia Route 2 along the eastern bank of the Ohio River

Facility Description

The Mountain State Carbon, LLC (MSC) Follansbee Plant is a coke facility that produces metallurgical-grade coke and coke gas byproducts (light oil, ammonium sulfate, fuel gas, coal tar, sulfuric acid) from coal for use at off-site steel facilities and for commercial sales. This operation involves four coke oven batteries for coke production. In addition, the facility operates a by-product plant that recovers chemicals from the process and prepares the coke oven gas for use as fuel. The Follansbee plant also operates a material storage area located to the west. The maximum capacity of the coke plant is 174.9 tons per hour and 1,535,000 tons per year of coke output with 249.8 tons per hour and 2,190,000 tons per year of coal input. The facility has the potential to operate twenty-four (24) hours a day for seven (7) days per week. The facility operates under SIC code 3312 and NAICS code 324199.

Emissions Summary

Plantwide Emissions Summary [Tons per Year]		
Regulated Pollutants	Potential Emissions*	2019 Actual Emissions
Carbon Monoxide (CO)	2,781.1	925.5
Nitrogen Oxides (NO _x)	2,203.4	578.7
Particulate Matter (PM _{2.5})	318.6	117.2
Particulate Matter (PM ₁₀)	363.3	132.7
Total Particulate Matter (TSP)	710.4	562.7
Sulfur Dioxide (SO ₂)	1,289.6	547.5
Volatile Organic Compounds (VOC)	513.1	100.7
Lead	0.08	0.01

PM₁₀ is a component of TSP.

Hazardous Air Pollutants	Potential Emissions	2019 Actual Emissions
Benzene	65.8	23.7
Coke Oven Emissions	995.5	5.9
Cyanide Compounds	1.2	0.5
Methanol	8.6	3.3
Naphthalene	4.4	2.6
Phenol	7.1	4.2
Toluene	9.9	3.0

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

**During the preparation of the Title V permit application, MSC performed a comprehensive detailed analysis of the emission factors being used for various sources/pollutants in the facility's annual emissions reports. In doing so, MSC identified a number of historical emission factors and assumptions which were determined to be either outdated/no longer representative of facility operations, or the best currently available information. As a result, MSC has updated potential to emit (PTE) calculations using updated emission factors for several emissions sources/pollutants, and has documented the source of the proposed emissions factors as detailed in Attachment P of the permit application. It should be noted that none of the source capacities have changed, and that any increase in PTE values as calculated in the permit application are simply a reflection of updated calculation methodology (i.e., they do not reflect actual increases in emissions).*

Title V Program Applicability Basis

This facility has the potential to emit 2,781 tpy CO, 2,203 tpy NO_x, 363 tpy PM₁₀, 1,290 tpy SO₂, 513 tpy VOC, 66 tpy Benzene and 996 tpy Coke Oven Emission. Due to this facility's potential to emit over 100 tons per year of criteria pollutant, over 10 tons per year of a single HAP, and over 25 tons per year of aggregate HAPs, Mountain State Carbon, LLC 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
45CSR7	To Prevent and Control Particulate Matter Air Pollution from Manufacturing Processes and Associated Operations
45CSR10	Control of Sulfur Dioxide Emissions from Indirect Heat Exchangers.
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
45CSR16	Standards of Performance for New Stationary Sources Pursuant to 40 CFR Part 60
45CSR20	Good Engineering Practice as Applicable to Stack Heights
45CSR30	Requirements For Operating Permits
45CSR34	Emission Standards For Hazardous Air Pollutants
40 C.F.R. Part 60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
40 C.F.R. Part 61 Subpart L	National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants
40 C.F.R. Part 61 Subpart M	Asbestos inspection and removal
40 C.F.R. Part 61 Subpart V	National Emission Standard for Equipment Leaks (Fugitive Emission Source)
40 C.F.R. Part 61 Subpart FF	National Emission Standard for Benzene Waste Operation
40 C.F.R. Part 63 Subpart L	National Emission Standards for Coke Oven Batteries
40 C.F.R. Part 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
40 C.F.R. Part 63 Subpart CCCCC	National Emission Standards for Coke Ovens: Pushing, Quenching, and Batteries Stacks
40 C.F.R. Part 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters
40 C.F.R. Part 82 Subpart F	Ozone depleting substances
WV Code § 22-5-4 (a) (14)	The Secretary can request any pertinent information such as annual emission inventory reporting.

State Only:

45CSR4	No objectionable odors.
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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>)
R13-0090	July 12, 1974	
R13-1652C	April 8, 2019	
R13-1939E	October 29, 2020	
R13-2548B	September 22, 2015	
R13-2591E	September 22, 2015	
R13-2632A	September 23, 2015	
R13-2772	September 17, 2008	
CO-SIP-91-29	November 14, 1991	
CO-SIP-C-2017-9	September 29, 2017	

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 August 13, 2015 and modified on March 27, 2017 and on April 30, 2019. This renewal permit incorporates minor modification MM03 associated with R13-1939D issued on August 14, 2020 and the Class I Administrative Update R13-1939E issued on October 29, 2020. MM03 incorporates the changes made in the administrative update to the permit R13-1939D to increase the volume of COG flared at the excess COG Flare (P024-1) from 7.1 to 19.2 million cubic feet per day. The Class I Administrative Update R13-1939E revised the language of condition 4.5.6. of R13-1939D to be consistent with the language of Section II.1.d. of Consent Order CO-SIP-C-2017-9. This renewal permit also incorporates the applicable requirements, many of which were incorporated in permit R13-1939D, of Consent Order CO-SIP-C-2017-9 issued on September 29, 2017. Substantial changes to the most recent version of the Title V Permit consist of the following:

1) Title V Boilerplate changes

- **Conditions 3.5.3., 3.5.5. and 3.5.6.** - These conditions were revised to require electronic submittal of the Title V compliance certifications (annual and semi-annual), self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols to the WV DAQ.

2) Section 1.1. Emission Units Table:

- Revised the Boiler #9 and Boiler #10 Emission Point ID to “Stack 11” as per the consent order CO-SIP-C-2017-9. CO-SIP-C-2017-9 required that the Boiler #9 stack “E3” and Boiler #10 stack “E4” be combined and that the emissions from these two boilers be diverted into the existing common stack “Stack 11.”
- Added Portable Screening Units “SS2” and “SS3” and Coke Loading Belt “SS4” under the “Coke Screening System Group 006” section.
 - The portable screens loading belt are subject to 45CSR7 -see item 23 below.
- Added the Tar (or Ammonia Liquor) Storage Tank Number 3 “P021-3” under the “Process Tanks on By-Product Plant Group 009” section.
 - The tank is subject to the existing requirements in Section 8 of the permit.
- Added (4) Other Cooling Towers “P021” under the “Non-Contact Cooling Tower Group 009” section.
 - The cooling towers are subject to the existing requirements in Section 8 of the permit.
- Added natural gas fired emergency generator “E8” under the “Emergency Equipment Group 010” section.
 - The emergency generator is subject to the requirements of 40 CFR 60 Subpart JJJJ and 40 CFR 63 Subpart ZZZZ. – see item 34 below.
- Added diesel emergency wastewater pump “E9” under the “Emergency Equipment Group 010” section.
 - The emergency water pump is subject to the requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ. – see item 34 below.
- Added diesel emergency boiler house generator “E10” under the “Emergency Equipment Group 010” section.
 - The emergency generator is subject to the requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ. – see item 34 below.
- Added diesel emergency controls and instrument air compressor “E11” under the “Emergency Equipment Group 010” section.
 - The emergency air compressor is subject to the requirements of 40 CFR 63 Subpart ZZZZ. – see item 34 below.
- Added Coke Loading Belt Diesel Emergency Backup Engine “E12” under the Emergency Equipment Group 010” section.
 - The Coke Loading Belt Diesel Back Backup Engine is subject to the requirements of 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ. – see item 34 below.

- 3) **Condition 3.1.33.** – Updated citation of authority to reflect revisions to R13-1939E.
- 4) **Condition 3.5.10.** – Revised to reflect changes to R13-1939E.
- 5) **Conditions 4.1.32. and 4.1.33.** – Revised citation of authority to include consent order CO-SIP-C-2017-9 and updated to reflect revisions to R13-1939E.
- 6) **Condition 4.1.34.** – Updated citation of authority to reflect revisions to R13-1939E.
- 7) **Condition 4.1.35.4.(a)(1)(ii)** – At the request of the permittee, the “note” has been deleted. Although the permittee has the option of meeting the requirements of 40 CFR§63.7295(a)(1)(i) or (ii) in order to be in compliance with this condition and 40 Subpart CCCC, MSC must still meet the requirement of TDS not to exceed 1,100 milligrams per liter (mg/L) as required by condition 4.1.4.c. of Permit R13-2772.
- 8) **Condition 4.1.35.8.(e)** – Updated the note to reflect the most recent parameters established during testing on May 7, 8 and 11, 2020.
- 9) **Conditions 4.1.42. and 4.1.43.** – Added these requirements from consent order CO-SIP-C-2017-9.
- 10) **Condition 4.2.4.4.(d)** – At the request of the permittee, the “note” has been deleted.
- 11) **Condition 4.2.4.4.(g)** – At the request of the permittee, the “note” has been deleted.
- 12) **Conditions 4.3.11., 4.3.12. and 4.3.13.** – Added these requirements from consent order CO-SIP-C-2017-9.
- 13) **Condition 4.4.3.** – Updated to reflect revisions to R13-1939E.
- 14) **Condition 4.5.6. of current permit** – This condition was deleted and not included in the renewal permit since the requirements were removed from R13-1939E.
- 15) **Section 5.0 description** – Revised to reflect changes to Boilers #9 and #10 emission points from separate stacks “E3” and “E4” to common “Stack 11.”
- 16) **Conditions 5.1.1. and 5.1.5.** – Revised to reflect that the boilers #9 and #10 emissions are no longer vented through separate stacks E3 and E4 and are now vented through Stack 11.
- 17) **Condition 5.1.14.** – The requirements in the current Title V permit have been removed from R13-1939E. Therefore, they have been deleted from this condition and replaced with the requirements from consent order CO-SIP-C-2017-9.
- 18) **Condition 5.1.15. of the current permit** – This condition was deleted and not included in the renewal permit since the requirements were removed from R13-1939E. The subsequent conditions have been renumbered. Any references to the subsequent conditions made throughout the permit have been updated with the new condition numbers.
- 19) **Conditions 5.1.15.(4) and 5.1.15.(6) (condition 5.1.16. of the current permit)** – Revised to add the requirement from consent order CO-SIP-C-2017-9 to vent the emissions from boilers #9 and #10 through Stack 11. Also added the consent order to the citation of authority.
- 20) **Condition 5.1.18. (condition 5.1.19. of the current permit)** – Added language from 40 CFR 63 Subpart DDDDD.

- 21) **Condition 5.5.3.** – Updated the requirements to reflect the revised requirements of 40 CFR 63 Subpart DDDDD.
- 22) **Condition 5.5.4. of the current permit** – This condition was deleted and not included in the renewal permit since the requirements were removed from R13-1939E.
- 23) **Conditions 6.1.14. and 6.1.15.** – These conditions have been added as requirements for two portable electrically driven coke screening units and a coke loading belt.
 - **45CSR7 Applicability:** The portable screening units and the coke loading belt are 100 TPH standalone units. They do not meet any of the categorization types under the “Source Operation Type” definition of 45CSR§7-2.39. and therefore, are not subject to the opacity requirements of 45CSR§7-3.1. They are subject to 45CSR§7-3.3.i. for maintaining good operating practices to prevent entrainment of PM resulting from spillage or other deposition of coke and 45CSR§7-5.1. for control of fugitive PM.
- 24) **Condition 6.4.4.** – This condition has been added to ensure compliance with conditions 6.1.14 and 6.1.15.
- 25) **Condition 8.1.5.** – Revised the requirements to match the revised requirements of R13-1939E and to add the requirements from consent order CO-SIP-C-2017-9. The requirements from 45CSR§§6-4.3 and 4.4 will be streamlined with 8.1.5.b. Added “45CSR §§6-4.3. and 4.5., CO-SIP-C-2017-9, Section II.4.a.i.” to the citation of authority.
- 26) **Conditions 8.1.6. through 8.1.13.** – These conditions have been modified to include the revised requirements of R13-1939E which also include requirements from consent order CO-SIP-C-2017-9. Where appropriate, the citations of authority have been updated to include the new R13-1939E condition numbers, and the CO-SIP-C-2017-9 and 45CSR 10 citations.
- 27) **Conditions 8.1.14. and 8.1.15.** – These conditions have been modified to delete the old requirements that have been removed from R13-1939E and to add requirements from CO-SIP-C-2017-9.
- 28) **Conditions 8.1.16. through 8.1.20., 8.1.23., 8.1.25. and 8.1.27.** – The requirements of these conditions have been removed from R13-1939E. Given the number of permit conditions in Section 8 of the Title V permit and since many of the permit conditions in this section have references to other Section 8 permit conditions, these conditions have been marked as “Reserved” in order to alleviate any possible errors if these conditions were deleted and the subsequent conditions renumbered.
- 29) **Conditions 8.2.4. through 8.2.9.** – These conditions have been added to include new requirements of R13-1939E and/or consent order CO-SIP-C-2017-9.
- 30) **Conditions 8.3.10. through 8.3.12.** – These conditions have been added to include requirements of consent order CO-SIP-C-2017-9.
- 31) **Conditions 8.4.17. through 8.4.25.** – These conditions have been added to include new requirements of R13-1939E and/or consent order CO-SIP-C-2017-9.
- 32) **Condition 8.5.1.** – This condition has been modified to include the revised requirements of R13-1939E and to add requirements from consent order CO-SIP-C-2017-9.
- 33) **Conditions 8.5.13. through 8.5.18.** – These conditions have been added to include new requirements of R13-1939E and/or consent order CO-SIP-C-2017-9.

34) Section 9.0.

- The requirements for the emergency generator engine E8, (40 CFR 60 Subpart JJJJ and 40 CFR 63 Subpart ZZZZ) and E10 (40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ), Diesel Fired Wastewater Emergency Pump Engine E9 (40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ), Emergency Air Compressor Engine E11 (40 CFR 63 Subpart ZZZZ) and the Coke Loading Belt Emergency Backup Engine E12 (40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ) have been added to this section of the permit.
 - Emergency generator E8 was installed in 2018 and is subject to 40 CFR 60 Subpart JJJJ. It is a “new” Natural gas-fired certified 104.7 HP engine. Pursuant to 40 CFR §63.6590(c)(6), it must meet the requirements of 40 CFR Part 63 by meeting the requirements of 40 CFR Part 60 Subpart JJJJ, for spark ignition engines.
 - Wastewater Emergency Pump E9 was installed in 2018 and is subject to 40 CFR 60 Subpart IIII. It is a “new” Diesel-fired certified 48 HP engine. Pursuant to 40 CFR §63.6590(c)(6), it must meet the requirements of 40 CFR Part 63 by meeting the requirements of 40 CFR Part 60 Subpart IIII, for compression ignition engines.
 - Emergency generator E10 was installed in 2019 and is subject to 40 CFR 60 Subpart IIII. It is a “new” Diesel-fired certified 402 HP engine. Pursuant to 40 CFR §63.6590(c)(6), it must meet the requirements of 40 CFR Part 63 by meeting the requirements of 40 CFR Part 60 Subpart IIII, for compression ignition engines.
 - Wastewater Emergency Air Compressor E11 was installed in 1998. It is an “existing” Diesel-fired certified 48 HP engine and subject to 40 CFR 63 Subpart ZZZZ. It is not subject to the requirements of 40 CFR Part 60 Subpart IIII.
 - Coke Loading Belt Emergency Backup Engine E12 was installed in 2015 and is subject to 40 CFR 60 Subpart IIII. It is a “new” (2010 model year) Diesel-fired certified 24.8 HP engine. Pursuant to 40 CFR §63.6590(c)(6), it must meet the requirements of 40 CFR Part 63 by meeting the requirements of 40 CFR Part 60 Subpart IIII, for compression ignition engines.

35) Condition 9.1.10. – The requirements of this condition have been revised to remove the vacated requirement of 40 CFR 63 Subpart ZZZZ. (i.e., §§63.6640(f)(2)(ii) and (iii))

36) Appendix A, Attachment 1

- The facility contact information has been updated on the first page.
- On the second page under Section II, a typographical error has been corrected and the following note has been added for clarification regarding the reference to Appendix C: “*[*Note: attached to the submitted monitoring plan and is not included in this permit*]

37) Appendix C – At the request of the facility, road segment “M1” has been added to Table 2.

38) Appendix D – The “CEMS Summary Report” sample form contained in R13-1939E has been added as Appendix D.

Non-Applicability Determinations

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

45CSR33	Acid Rain Provisions and Permits do not apply to Mountain State Carbon LLC because it is not considered a Title IV (Acid Rain) Source.
40 C.F.R. Part 60 Subpart Cd	Standards of Performance for Sulfuric Acid Production plants Emissions Guidelines and Compliance times does not apply because Mountain State Carbon LLC does not meet the definition of a sulfuric acid production unit as defined in 40 C.F.R. § 60.81 (a).
40 C.F.R. Part 60 Subpart D	Standards of Performance for fossil-fuel-fired steam generators for which construction is commenced after August 17, 1971 does not apply because Mountain State Carbon LLC boilers are less than the applicability size of 250 mm Btu/hr.
40 C.F.R. Part 60 Subpart Da	Standards of Performance for fossil-fuel-fired steam generators for which construction is commenced after September 18, 1978 does not apply because Mountain State Carbon LLC boilers are less than the applicability size of 250 mm Btu/hr.
40 C.F.R. Part 60 Subpart Db	Standards of Performance for fossil-fuel-fired steam generators for which construction is commenced after June 19, 1984 does not apply because Mountain State Carbon LLC boilers are less than the applicability size of 100 mm Btu/hr.
40 C.F.R. Part 60 Subpart E	Standards of Performance for Incinerators for which construction is commenced after August 17, 1971 does not apply because Mountain State Carbon LLC does not operate equipment defined as incinerators (under 40 C.F.R. §60.51).
40 C.F.R. Part 60 Subpart H	40 CFR Part 60 NSPS Subpart H Standards of Performance for Sulfuric Acid Production plants does not apply because Mountain State Carbon LLC (MSC) does not meet the definition of a sulfuric acid production unit as defined in 40 C.F.R. § 60.81 (a). MSC is a metallurgical plant that uses the H ₂ SO ₄ plant as a control device to reduce sulfur compound emissions, such as H ₂ S.
40 C.F.R. Part 60 Subpart K	Standards of Performance for storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after June 11, 1973, and prior to May 19, 1978 does not apply because Mountain State Carbon LLC has not installed any tanks between these dates with a storage capacity greater than 40,000 gallons.
40 C.F.R. Part 60 Subpart Ka	Standards of Performance for storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after May 18, 1978, and prior to July 23, 1984 does not apply because Mountain State Carbon LLC has not installed any tanks between these dates.
40 C.F.R. 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 does not apply because Mountain State Carbon LLC is exempt by paragraph 40 C.F.R. §60.110b(d)(1) [for vessels at coke oven by-product plants].
40 C.F.R. §§60.251 - 60.254 Subpart Y	Standards of Performance for Coal Preparation Plants does not apply because Mountain State Carbon LLC commenced construction or modification of their coal facilities prior to October 24, 1974.
40 C.F.R. Part 60 Subpart VV	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry does not apply to Mountain State Carbon LLC because the facility is not considered a part of the Synthetic Organic Chemical Manufacturing Industry.
40 C.F.R. Part 61 Subpart J	National Emission Standards for Equipment Leaks (Fugitive Emission Sources) of Benzene is not applicable to sources located in coke by-product plants and therefore does not apply to Mountain State Carbon LLC.
40 C.F.R. Part 61 Subpart Y	National Emission Standards for Benzene Emissions from Benzene Storage Vessels is not applied to storage vessels used for storing benzene at a coke by-product facility and therefore does not apply to Mountain State Carbon LLC.

40 C.F.R. Part 61 Subpart BB	National Emission Standards for Benzene Emissions from Benzene Transfer Operations is not applicable to benzene-laden liquid from coke by-product recovery plants and therefore does not apply to Mountain State Carbon LLC.
40 C.F.R. Part 63 Subpart F	National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry does not apply to Mountain State Carbon LLC because the facility is not considered a part of the Synthetic Organic Chemical Manufacturing Industry.
40 C.F.R. Part 63 Subpart G	National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater does not apply to Mountain State Carbon LLC because the facility is not considered a part of the Synthetic Organic Chemical Manufacturing Industry.
40 C.F.R. Part 63 Subpart H	National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks does not apply to Mountain State Carbon LLC because the facility is not considered a part of the Synthetic Organic Chemical Manufacturing Industry.
40 C.F.R. Part 63 Subpart I	National Emission Standards for Organic Hazardous Air Pollutants related to Equipment Leaks does not apply to Mountain State Carbon LLC because the facility is not considered a part of the Synthetic Organic Chemical Manufacturing Industry.
40 C.F.R. Part 63 Subpart Q	National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers does not apply to Mountain State Carbon LLC because the facility does not use chromium-based water treatment chemicals.
40 C.F.R. Part 63 Subpart Y	National Emission Standards for Hazardous Air Pollutants for Marine Tank Vessel Loading Operations does not apply to Mountain State Carbon LLC because the vapor pressure of the light oil is less than 1.5 psia at standard conditions of 20 deg. C and 760 mmHg and is therefore exempt from the rule.
40 C.F.R. Part 63 Subpart EEEE	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) does not apply to Mountain State Carbon LLC because the facility components are subject to another NESHAP (Subparts L, V, and FF) as per 40 C.F.R. §63.2338(c)(1).
40 C.F.R. Part 63 Subpart FFFF	National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing does not apply to Mountain State Carbon LLC since 40 CFR §63.2435(b)(1) is not satisfied. The facility does not produce ammonium sulfate via caprolactam as per 40 C.F.R. §63.2435(b)(1)(iii) nor materials or family of materials listed in 40 C.F.R. §§63.2435(b)(1)(i), (ii), (iv) or (v).
40 C.F.R. Part 63 Subpart GGGGG	National Emission Standards for Hazardous Air Pollutants: Site Remediation does not apply to Mountain State Carbon LLC because the facility received an Administrative Order under Section 3008(h) of the Resource Conservation and Recovery Act from USEPA to perform RCRA corrective Actions.
40 C.F.R. Part 64	The potential PSEU's at the facility are for PM emissions from the coke oven Batteries #1, #2, #3 and #8 pushing and quenching processes. The controls for Batteries #1, #2, and #3 include a Shed, Baghouse, and Quench Baffles. The controls for Battery #8 include a Mobile Hood, a Venturi Scrubber, and two Quench Baffle Towers. The batteries are subject to 40 CFR 63 Subpart L and 40 CFR 63 Subpart CCCCC both of which were proposed after November 11, 1990. Therefore, they are exempt pursuant to 40 CFR§64.2(b)(1)(i).
40 C.F.R. Part 68 Subpart A & C	Chemical Action Prevention Provisions do not apply to Mountain State Carbon LLC as none of the regulated materials exist above the threshold limits.
40 C.F.R. Part 72	Acid Rain Program General Provisions does not apply to Mountain State Carbon LLC because it is not considered a Title IV (Acid Rain) Source.

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: December 24, 2020
Ending Date: January 25, 2021

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
304/926-0499 ext. 41910
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)

Note: Due to a technical error at *The Weirton Daily Times* newspaper, the public notice ad was not published until December 24, 2020 (*supposed to be published on December 22*). Therefore, the “Comment Period” ended on January 25, 2021.

Comments on the Draft Permit were received from Mr. Patrick J. Smith of Mountain State Carbon LLC (MSC), via email on January 25, 2021. As a result of comments, the following revisions have been made to the permit:

- 1) **Section 1.1. Emission Units Table:** - Under the “*Process Tanks on By-Product Plant Group 009*” section, updated P021-3 emission unit descriptions, installation/modification dates and capacities as follows:
 - Added “(MSC-12)” to the “Tar Storage Number 1” description and revised the capacity to 249,000 gals.
 - For “Tar Storage Number 2” – revised the year installed to 2020 and the capacity to 230,000 gals.
 - Added “(T-201A)” to the “Tar (or Ammonia Liquor) Storage Number 3” description.
- 2) **Condition 4.1.3.** – Revised the Battery Stack IDs in the table as follows:

No. 1 Battery (Stack 01)
No. 2 Battery (Stack 02)
No. 3 Battery (Stack 03)
No. 8 Battery (Stack 04)

- 3) **Condition 4.3.13.** – Added “(refers to test required by 4.3.11.)” after the citation of authority.
- 4) **Condition 5.1.15.** – Added “(per Boiler)” after “Emissions Limits” in the table heading.
- 5) **Condition 5.1.16.** – Added “(Boilers #6 & #7 combined)” after “Emissions Limits” in the table heading.
- 6) **Condition 5.1.19.** – Added “(Note: The energy assessment for Boiler # 8 was completed per QSEM Solutions, Inc report dated October 19, 2015.)”
- 7) **Condition 8.1.13.** – Corrected two typographical errors.
- 8) **Condition 8.3.10.** – Added “SO₂” to indicate the testing refers to SO₂. Also added “utilizing 40 CFR 60, Appendix A, Method 6 or equivalent” which is contained in the underlying requirement of CO-SIP-C-2017-9.
- 9) **Condition 8.3.12.** – Added “(refers to test required by 8.3.10.)” after the citation of authority.