



COMMONWEALTH of VIRGINIA

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Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9VAC5-80-50 through 9VAC5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Columbia Gas Transmission, LLC
Facility Name:	Gala Compressor Station
Facility Location:	15971 Botetourt Road Eagle Rock, Virginia
Registration Number:	20157
Permit Number:	BRRO-20157

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Pages 5 through 23)

August 6, 2013
Effective Date

August 5, 2018
Expiration Date

Robert J. Weld
Regional Director

Signature Date

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Facility Information

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Responsible Official
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Facility
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15971 Botetourt Road
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Joseph E. Morgan
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Environmental Safety & Sustainability Coordinator
304/357-2196

County-Plant Identification Number: 51-023-0009

Facility Description: NAICS 486210 (Pipeline Transport of Natural Gas)

The facility is a natural gas pipeline compressor station. Natural gas is received via gas pipelines from an upstream compressor station, compressed and pumped into outlet pipes for transmission to a downstream station. The station has the potential to operate seven days per week, 24 hours per day.

The natural gas is compressed using two White-Superior 8GTLA 4-stroke lean burn reciprocating engines with design rated capacity of 1,100 hp each and one Superior 16SGTB 4-stroke lean burn reciprocating engine rated at 2,650 hp. On-site auxiliary equipment includes one auxiliary generator rated at 221 hp and one 25 hp air compressor. All fuel burning equipment is natural gas fired.

Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment						
01203	E03	White-Superior 8GTLA Reciprocating Engine/Compressor; Spark Ignition 4-cycle, clean burn; installed 1983	1,100 HP	none	N/A	March 7, 2011
01204	E04	White-Superior 8GTLA Reciprocating Engine/Compressor; Spark Ignition 4-cycle, clean burn; installed 1983	1,100 HP	none	N/A	March 7, 2011
01205	E05	Superior 16SGTB Reciprocating Engine/Compressor; Spark Ignition 4-cycle, clean burn; installed 1997	2,650 HP	none	N/A	May 23, 2011
012G1	G1	Waukesha VSG 11GSI Reciprocating Engine/(Emergency) Generator; 4-cycle, rich burn; installed 1992	221 HP	none	N/A	Sept. 23, 1993
021A1	A1	Waukesha VRG232U 4 stroke rich burn air compressor; installed 1977	25 HP	none	N/A	--

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

White-Superior Engines/Compressors – (ID# 01203 and 01204)

1. Nitrogen Oxide (NO_x) and Volatile Organic Compound (VOC) emissions from each White-Superior engine/compressor (ID# 01203 and 01204) shall be controlled by low-emission combustion using Clean-Burn technology (lean ratio engines equipped with pre-combustion chambers and automatic controls for fuel/air mixture, ignition timing and intake manifold temperature).
(9VAC5-80-110 and Condition 2 of 3/7/11 Permit)
2. The facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested and safe sampling platforms and access shall be provided.
(9VAC5-80-110 and Condition 3 of 3/7/11 Permit)
3. The approved fuel for the White-Superior engines/compressors (ID# 01203 and 01204) is natural gas. A change in the fuel may require a permit to modify and operate.
(9VAC5-80-110 and Condition 4 of 3/7/11 Permit)
4. Emissions from the operation of each White-Superior engine/compressor (ID# 01203 and 01204) shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	4.4 lbs/hr	19.1 tons/yr	(9 VAC 5-50-260)
Volatile Organic Compounds	3.7 lbs/hr	15.9 tons/yr	(9 VAC 5-50-260)
Carbon Monoxide	7.3 lbs/hr	31.8 tons/yr	(9 VAC 5-50-260)

(9VAC5-80-110 and Condition 5 of 3/7/11 Permit)
5. Visible emissions from each White-Superior engine/compressor (ID# 01203 and 01204) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9VAC5-50-80, 9VAC5-80-110 and Condition 6 of 3/7/11 Permit)
6. At least one time per week an observation of the presence of visible emissions from each White-Superior engine stack shall be made. The presence of visible emissions shall require the permittee to:
 - a. Take timely corrective action such that the unit resumes operation with no visible emissions, or,

- b. Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40CFR60 Appendix A) for a minimum of six minutes, to assure visible emissions from the affected unit are 20 percent opacity or less. If any of the 15-second observations exceeds 20 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to 20 percent opacity.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the name of the observer. If the unit has not been operated, it shall be noted in the log book.
(9VAC5-80-110)

7. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Blue Ridge Regional Office. These records shall include, but are not limited to:
 - a. The annual throughput of natural gas¹ (in million cubic feet) for each White-Superior engine/compressor (ID# 01203 and 01204). The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.
 - b. Scheduled and unscheduled maintenance and operator training.
 - c. Results of all stack tests, visible emission evaluations and performance evaluations.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.
(9VAC5-50-50, 9VAC5-80-110 and Condition 7 of 3/7/11 Permit)

8. At all times, including periods of start-up, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance;
- b. Maintain an inventory of spare parts;

¹ Throughput in this case is fuel combusted in the engine

- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum; and
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
(9VAC5-50-20 E, 9VAC5-80-110 and Condition 11 of 3/7/11 Permit)

MACT ZZZZ Requirements ID# 01203 and 01204 (These sources classify as Existing, Non-Emergency SI 4SLB >500HP located at Area Source under MACT ZZZZ)

- 9. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) each White-Superior engine (ID01203 and 01204) shall comply with the Emission Limitation requirements of 40CFR63 Subpart ZZZZ §63.6603(a) and Table 2d, Section 9. (9VAC5-80-110 and 40CFR63.6603)
- 10. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) each White-Superior engine (ID01203 and 01204) shall comply with the General Requirements of 40CFR63 Subpart ZZZZ §63.6605(a) and (b). (9VAC5-80-110 and 40CFR63.6605)
- 11. No later than 180 days after the compliance date (October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A)) each White-Superior engine (ID01203 and 01204) shall comply with the initial performance testing requirements of 40CFR63 Subpart ZZZZ §63.6612. (9VAC5-80-110 and 40CFR63.6612)
- 12. Each White-Superior engine (ID01203 and 01204) shall conduct performance tests in accordance with 40CFR63 Subpart ZZZZ §63.6620 and Table 4, Section 1 or 3. (9VAC5-80-110 and 40CFR63.6620)
- 13. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) each White-Superior engine (ID01203 and 01204) shall comply with the monitoring, installation, collection, operation and maintenance requirements of 40CFR63 Subpart ZZZZ §63.6625(b) and (h). (9VAC5-80-110 and 40CFR63.6625)
- 14. Each White-Superior engine (ID01203 and 01204) shall demonstrate initial compliance with the emission limitation, operation limitation and other requirements as specified in 40CFR63 Subpart ZZZZ §63.6630 and Table 5, Section 13. (9VAC5-80-110 and 40CFR63.6630)

15. Each White-Superior engine (ID01203 and 01204) shall monitor and collect data to demonstrate continuous compliance as specified in 40CFR63 Subpart ZZZZ §63.6635. (9VAC5-80-110 and 40CFR63.6635)
16. Each White-Superior engine (ID01203 and 01204) shall demonstrate continuous compliance with the emission limitations, operating limitation and other requirements as specified in 40CFR63 Subpart ZZZZ §63.6640 and Table 6, Section 14. (9VAC5-80-110 and 40CFR63.6640)
17. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) each White-Superior engine (ID01203 and 01204) shall comply with the notification requirements of 40CFR63 Subpart ZZZZ §63.6645. (9VAC5-80-110 and 40CFR63.6645)
18. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) each White-Superior engine (ID01203 and 01204) shall comply with the reporting requirements of 40CFR63 Subpart ZZZZ §63.6650 and Table 7, Section 3. (9VAC5-80-110 and 40CFR63.6650)
19. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) each White-Superior engine (ID01203 and 01204) shall comply with the record keeping requirements of 40CFR63 Subpart ZZZZ §63.6655 and §63.6660. (9VAC5-80-110, 40CFR63.6655 and 40CFR63.6660)
20. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) each White-Superior engine (ID01203 and 01204) shall comply with applicable General Provisions of 40CFR63 Subpart ZZZZ §63.6665 and Table 8. (9VAC5-80-110 and 40CFR63.6665)

Superior 16SGTB Engine/Compressor – (ID# 01205)

21. Nitrogen oxide and volatile organic compound emissions from the Superior 16SGTB engine/compressor (ID# 01205) shall be controlled by low-emissions combustion using Clean-Burn technology. (9VAC5-80-110 and Condition 4 of 5/23/11 Permit)
22. The approved fuel for the Superior 16SGTB engine/compressor (ID# 01205) is natural gas. A change in the fuels may require a permit to modify and operate. (9VAC5-80-110 and Condition 5 of 5/23/11 Permit)
23. The annual throughput of natural gas² to the Superior 16SGTB reciprocating engine (ID# 01205) shall not exceed 212 MMscf/yr, calculated monthly as the sum of each consecutive 12-month period. (9VAC5-80-110 and Condition 7 of 5/23/11 Permit)

² Throughput in this case is fuel combusted in the engine

24. Emissions from the operation of the Superior 16SGTB engine/compressor (ID# 01205) shall not exceed the limits specified below:

Total Suspended Particulate	0.8 lbs/hr	3.1 tons/yr
PM-10	0.8 lbs/hr	3.1 tons/yr
Nitrogen Oxides (as NO ₂)	10.1 lbs/hr	38.4 tons/yr
Volatile Organic Compounds	4.0 lbs/hr	15.4 tons/yr
Carbon Monoxide	10.8 lbs/hr	40.9 tons/yr

(9VAC5-80-110, 9VAC5-50-260 and Condition 10 of 5/23/11 Permit)

25. Visible Emissions from the Superior 16SGTB engine/compressor (ID# 01205) shall not exceed 5 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 10 percent opacity.
(9VAC5-50-80, 9VAC5-80-110 and Condition 11 of 5/23/11 Permit)
26. At least one time per week an observation of the presence of visible emissions from the Superior 16SGTB engine stack shall be made. The presence of visible emissions shall require the permittee to:
- Take timely corrective action such that the unit resumes operation with no visible emissions, or,
 - Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40 CFR 60 Appendix A) for a minimum of six minutes, to assure visible emissions from the affected unit are 5 percent opacity or less. If any of the 15-second observations exceeds 5 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to 5 percent opacity.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the name of the observer. If the unit has not been operated, it shall be noted in the log book.
(9VAC5-80-110)

27. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. Annual throughput of natural gas for the Superior 16SGTB engine/compressor (ID# 01205). The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.
(9VAC5-50-50, 9VAC5-80-110 and Condition 13 of 5/23/11 Permit)

28. The permittee shall have available written operating procedures for the related air pollution control equipment. Operators shall be trained in the proper operation of all such equipment and shall be familiar with the written operating procedures. These procedures shall be based on the manufacturer's recommendations, at minimum. The permittee shall maintain records of training provided including names of trainees, date of training and nature of training.
(9VAC5-80-110 and Condition 18 of 5/23/11 Permit)

MACT ZZZZ Requirements ID# 01205 (This source classifies as Existing, Non-Emergency SI 4SLB >500HP located at Area Source under MACT ZZZZ)

29. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) the Superior 16SGTB engine/compressor (ID# 01205) shall comply with the Emission Limitation requirements of 40CFR63 Subpart ZZZZ §63.6603(a) and Table 2d, Section 9.
(9VAC5-80-110 and 40CFR63.6603)
30. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) the Superior 16SGTB engine/compressor (ID# 01205) shall comply with the General Requirements of 40CFR63 Subpart ZZZZ §63.6605(a) and (b).
(9VAC5-80-110 and 40CFR63.6605)
31. No later than 180 days after the compliance date (October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A)) the Superior 16SGTB engine/compressor (ID# 01205) shall comply with the initial performance testing requirements of 40CFR63 Subpart ZZZZ §63.6612.
(9VAC5-80-110 and 40CFR63.6612)
32. The Superior 16SGTB engine/compressor (ID# 01205) shall conduct performance tests in accordance with 40CFR63 Subpart ZZZZ §63.6620 and Table 4, Section 1 or 3.
(9VAC5-80-110 and 40CFR63.6620)
33. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) the Superior 16SGTB engine/compressor (ID# 01205) shall comply with the monitoring, installation, collection, operation and maintenance requirements of 40CFR63 Subpart ZZZZ §63.6625(b) and (h).
(9VAC5-80-110 and 40CFR63.6625)

34. The Superior 16SGTB engine/compressor (ID# 01205) shall demonstrate initial compliance with the emission limitation, operation limitation and other requirements as specified in 40CFR63 Subpart ZZZZ §63.6630 and Table 5, Section 13.
(9VAC5-80-110 and 40CFR63.6630)
35. The Superior 16SGTB engine/compressor (ID# 01205) shall monitor and collect data to demonstrate continuous compliance as specified in 40CFR63 Subpart ZZZZ §63.6635.
(9VAC5-80-110 and 40CFR63.6635)
36. The Superior 16SGTB engine/compressor (ID# 01205) shall demonstrate continuous compliance with the emission limitations, operating limitation and other requirements as specified in 40CFR63 Subpart ZZZZ §63.6640 and Table 6, Section 14.
(9VAC5-80-110 and 40CFR63.6640)
37. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) the Superior 16SGTB engine/compressor (ID# 01205) shall comply with the notification requirements of 40CFR63 Subpart ZZZZ §63.6645.
(9VAC5-80-110 and 40CFR63.6645)
38. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) the Superior 16SGTB engine/compressor (ID# 01205) shall comply with the reporting requirements of 40CFR63 Subpart ZZZZ §63.6650 and Table 7, Section 3.
(9VAC5-80-110 and 40CFR63.6650)
39. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) the Superior 16SGTB engine/compressor (ID# 01205) shall comply with the record keeping requirements of 40CFR63 Subpart ZZZZ §63.6655 and §63.6660.
(9VAC5-80-110, 40CFR63.6655 and 40CFR63.6660)
40. No later than October 19, 2013, unless granted an extension under 40 CFR §63.6(i)(4)(i)(A) the Superior 16SGTB engine/compressor (ID# 01205) shall comply with applicable General Provisions of 40CFR63 Subpart ZZZZ §63.6665 and Table 8.
(9VAC5-80-110 and 40CFR63.6665)

Waukesha Auxiliary Generator – (ID# 012G1)

41. The approved mode of operation for the Waukesha auxiliary generator (ID# 012G1) is normal (best economy). A change in the mode of operation may require a permit to modify and operate.
(9VAC5-80-110 and Condition 4 of 9/23/93 Permit)
42. The approved fuel for the Waukesha auxiliary generator (ID# 012G1) is natural gas. A change in the fuels may require a permit to modify and operate.
(9VAC5-80-110 and Condition 3 of 9/23/93 Permit)

43. The Waukesha auxiliary generator (ID# 012G1) shall not operate more than 1,000 hours per year.
(9VAC5-80-110 and Condition 6 of 9/23/93 Permit)
44. The Waukesha auxiliary generator (ID# 012G1) shall consume no more than 1.695 million cubic feet of natural gas, calculated as the sum of each consecutive twelve (12) month period.
(9VAC5-80-110 and Condition 5 of 9/23/93 Permit)
45. Emissions from the operation of the Waukesha auxiliary generator (ID# 012G1) shall not exceed the limits specified below:

Nitrogen Oxides 6.9 lb/MMBtu 14.0 lbs/hr 7.0 tons/yr (9 VAC 5-50-260)
(as NO₂)

(9VAC5-80-110 and Condition 8 of 9/23/93 Permit)
46. Visible Emissions from the Waukesha auxiliary generator (ID# 012G1) shall not exceed 5 percent opacity.
(9VAC5-50-80, 9VAC5-80-110 and Condition 7 of 9/23/93 Permit)
47. At least one time per week when the auxiliary generator is in operation an observation of the presence of visible emissions from the stack shall be made. The presence of visible emissions shall require the permittee to:
 - a. Take timely corrective action such that the unit resumes operation with no visible emissions, or,
 - b. Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40 CFR 60 Appendix A) for a minimum of six minutes, to assure visible emissions from the affected unit are 5 percent opacity or less. If any of the 15-second observations exceeds 5 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to 5 percent opacity.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the name of the observer. If the unit has not been operated, it shall be noted in the log book.
(9VAC5-80-110)

48. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. The number of hours of operation of the Waukesha auxiliary generator (ID# 012G1).
- b. Consumption of natural gas, calculated as the sum of each consecutive 12-month period.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.

(9VAC5-80-110 and Condition 9 of 9/23/93 Permit)

MACT ZZZZ Requirements ID# 012G1 (This source classifies as Existing, Emergency SI <500HP located at Area Source under MACT ZZZZ)

49. No later than October 19, 2013, the Waukesha auxiliary generator (ID# 012G1) shall comply with the Emission Limitation requirements of 40CFR63 Subpart ZZZZ §63.6603(a) as specified in Table 2d, Section 5.
(9VAC5-80-110 and 40CFR63.6603)
50. No later than October 19, 2013, the Waukesha auxiliary generator (ID# 012G1) shall comply with the General Requirements of 40CFR63 Subpart ZZZZ §63.6605(a) and (b).
(9VAC5-80-110 and 40CFR63.6605)
51. No later than October 19, 2013, the Waukesha auxiliary generator (ID# 012G1) shall comply with the monitoring, installation, collection, operation and maintenance requirements of 40CFR63 Subpart ZZZZ §63.6625(e)(3), (f), (h) and (j).
(9VAC5-80-110 and 40CFR63.6625)
52. The Waukesha auxiliary generator (ID# 012G1) shall demonstrate continuous compliance with the emission limitations, operating limitation and other requirements as specified in 40CFR63 Subpart ZZZZ §63.6640 and Table 6, Section 9.
(9VAC5-80-110 and 40CFR63.6640)
53. No later than October 19, 2013, the Waukesha auxiliary generator (ID# 012G1) shall comply with the record keeping requirements of 40CFR63 Subpart ZZZZ §63.6655 and §63.6660.
(9VAC5-80-110, 40CFR63.6655 and 40CFR63.6660)
54. No later than October 19, 2013, the Waukesha auxiliary generator (ID# 012G1) shall comply with applicable General Provisions of 40CFR63 Subpart ZZZZ §63.6665 and Table 8.
(9VAC5-80-110 and 40CFR63.6665)

Waukesha Air Compressor – (ID# 012A1)

55. Visible Emissions from the Waukesha air compressor (ID#012A1) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.
(9VAC5-50-80 and 9VAC5-80-110)
56. At least one time per week an observation of the presence of visible emissions from the Waukesha air compressor stack shall be made. The presence of visible emissions shall require the permittee to:
 - a. Take timely corrective action such that the unit resumes operation with no visible emissions, or,
 - b. Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40CFR60 Appendix A) for a minimum of six minutes, to assure visible emissions from the affected unit are 20 percent opacity or less. If any of the 15-second observations exceeds 20 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to 20 percent opacity.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the name of the observer. If the unit has not been operated, it shall be noted in the log book.
(9VAC5-80-110)

MACT ZZZZ Requirements ID# 012A1 (This sources classifies as Existing, Non-Emergency SI 4SRB < 500HP located at Area Source under MACT ZZZZ)

57. No later than October 19, 2013, the Waukesha air compressor (ID#012A1) shall comply with the Emission Limitation requirements of 40CFR63 Subpart ZZZZ §63.6603(a) as specified in Table 2d, Section 10.
(9VAC5-80-110 and 40CFR63.6603)
58. No later than October 19, 2013, the Waukesha air compressor (ID#012A1) shall comply with the General Requirements of 40CFR63 Subpart ZZZZ §63.6605(a) and (b).
(9VAC5-80-110 and 40CFR63.6605)
59. No later than October 19, 2013, the Waukesha air compressor (ID#012A1) shall comply with the monitoring, installation, collection, operation and maintenance requirements of 40CFR63 Subpart ZZZZ §63.6625(e)(8), (h) and (j).
(9VAC5-80-110 and 40CFR63.6625)

60. The Waukesha air compressor (ID#012A1) shall demonstrate continuous compliance with the emission limitations, operating limitation and other requirements as specified in 40CFR63 Subpart ZZZZ §63.6640 and Table 6, Section 9. (9VAC5-80-110 and 40CFR63.6640)
61. No later than October 19, 2013, the Waukesha air compressor (ID#012A1) shall comply with the record keeping requirements of 40CFR63 Subpart ZZZZ §63.6655 and §63.6660. (9VAC5-80-110, 40CFR63.6655 and 40CFR63.6660)
62. No later than October 19, 2013, the Waukesha air compressor (ID#012A1) shall comply with applicable General Provisions of 40CFR63 Subpart ZZZZ §63.6665 and Table 8. (9VAC5-80-110 and 40CFR63.6665)

Insignificant Emission Units

63. The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted	Rated Capacity
BLR3	AJAX n. gas space heating boiler; installed 1998	9VAC5-80-720 C	NOx, CO, VOC, PM10	0.85 MMBtu/hr
HTR3	Modine PD300 direct-fired space heater; installed 2005	9VAC5-80-720 C	NOx, CO, VOC, PM10	0.3 MMBtu/hr
HTR1	HANOVER indirect-fired heater; installed 1998	9VAC5-80-720 C	NOx, CO, VOC, SO2, PM10	2.0 MMBtu./hr
HTR2	GAS TECH indirect-fired heater; installed 1998	9VAC5-80-720 C	NOx, CO, VOC, SO2, PM10	0.45 MMBtu/hr
A06	lube oil AST; installed 1940	9VAC5-80-720 B	VOC	120 gallons
A10	used oil AST; installed 1998	9VAC5-80-720 B	VOC	550 gallons
A11	pipeline liquids AST; installed 1998	9VAC5-80-720 B	VOC	1,000 gallons
A12	used coolant (ethylene glycol) AST; installed 1998	9VAC5-80-720 B	VOC	1,200 gallons
A14	Coolant (ethylene glycol) AST; installed 1998	9VAC5-80-720 B	VOC	1,200 gallons
A15	lube oil AST; installed 1998	9VAC5-80-720 B	VOC	550 gallons

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110.

Compliance Plan

64. Not Applicable

Permit Shield & Inapplicable Requirements

65. Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and

conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
None identified	--	--

Nothing in this permit shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
 (9VAC5-80-140)

General Conditions

- 66. **Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
 (9VAC5-80-110 N)
- 67. **Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
 (9VAC5-80-80 B, C and F, 9VAC5-80-110 D and 9VAC5-80-170 B)
- 68. **Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
 (9VAC5-80-80 B, C and F, 9VAC5-80-110 D and 9VAC5-80-170 B)
- 69. **Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the Board takes final action on the application under 9VAC5-80-150.
 (9VAC5-80-80 B, C and F, 9VAC5-80-110 D and 9VAC5-80-170 B)
- 70. **Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.
 (9VAC5-80-80 B, C and F, 9VAC5-80-110 D and 9VAC5-80-170 B)
- 71. **Permit Expiration** - If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and

conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

(9VAC5-80-80 B, C and F, 9VAC5-80-110 D and 9VAC5-80-170 B)

72. **Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9VAC5-80-80 B, C and F, 9VAC5-80-110 D and 9VAC5-80-170 B)

73. **Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

- a. The date, place as defined in the permit, and time of sampling or measurements;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of such analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

(9VAC5-80-110 F)

74. **Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(9VAC5-80-110 F, Condition 21 of 5/23/11 Permit and Condition 15 of 9/23/93 Permit)

75. **Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and
- b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:

- i. Exceedance of emissions limitations or operational restrictions;
 - ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9VAC5-80-110 F)

76. **Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:
- a. The time period included in the certification. The time period to be addressed is January 1 to December 31;
 - b. The identification of each term or condition of the permit that is the basis of the certification;
 - c. The compliance status;
 - d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
 - e. Consistent with subsection 9VAC5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
 - f. Such other facts as the permit may require to determine the compliance status of the source; and
 - g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9VAC5-80-110 K.5)

77. **Permit Deviation Reporting** - The permittee shall notify the Director, Blue Ridge Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 75 of this permit.
(9VAC5-80-110 F.2 and 9VAC5-80-250)
78. **Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Blue Ridge Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9VAC5-40-50 C and 9VAC5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9VAC5-40-40 and 9VAC5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Blue Ridge Regional Office.
(9VAC5-20-180 C, Conditions 8 and 12 of 3/7/11 Permit, Conditions 16 and 17 of 5/23/11 Permit, and Conditions 12 and 13 of 9/23/93 Permit)
79. **Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9VAC5-80-110 G.1)
80. **Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9VAC5-80-110 G.2)
81. **Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9VAC5-80-110 G.3)

82. **Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9VAC5-80-190 and 9VAC5-80-260)
83. **Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9VAC5-80-110 G.5)
84. **Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9VAC5-80-110 G.6)
85. **Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.
(9VAC5-80-110 K.1)
86. **Duty to Pay Permit Fees** - The owner of any source for which a permit under 9VAC5-80-50 through 9VAC5-80-300 was issued shall pay permit fees consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9VAC5-80-2340, adjusted annually by the change in the Consumer Price Index.
(9VAC5-80-110 H, 9VAC5-80-340 C and 9VAC5-80-2340 B)
87. **Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
 - a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

- b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
- d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9VAC5-50-90)

88. **Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9VAC5-50-20 E)

89. **Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.

(9VAC5-80-110 J)

90. **Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

- d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9VAC5-80-110 K.2, Condition 10 of 3/7/11 Permit, Condition 15 of 5/23/11 Permit and Condition 11 of 9/23/93 Permit)

91. **Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.

(9VAC5-80-110 L)

92. **Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9VAC5-80-150 E)

93. **Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.

(9VAC5-80-160)

94. **Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.

(9VAC5-80-160)

95. **Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.

(9VAC5-80-160)

96. **Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements stated in Condition 97 are met.
(9VAC5-80-250)
97. **Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9VAC5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9VAC5-20-180 C.
- (9VAC5-80-250)
98. **Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
(9VAC5-80-250)
99. **Malfunction as an Affirmative Defense** - The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9VAC5-80-250)
100. **Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9VAC5-80-190 C and 9VAC5-80-260)

101. **Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9VAC5-80-80 E)
102. **Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40CFR Part 82, Subparts A to F.
(40CFR Part 82, Subparts A-F)
103. **Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40CFR61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40CFR61.145), Standards for Insulating Materials (40CFR61.148), and Standards for Waste Disposal (40CFR61.150).
(9VAC5-60-70 and 9VAC5-80-110 A.1)
104. **Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40CFR68.115, the permittee shall comply with the requirements of 40CFR Part 68.
(40CFR Part 68)
105. **Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9VAC5-80-110 I)
106. **Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.
- (9VAC5-80-110 I)