



OPERATING PERMIT (Conditional Permit) Issued Pursuant to Tennessee Air Quality Act

Date Issued: November 10, 2011

Permit Number

Date Amended: March 10, 2017

[AMENDMENT #3]

463944P

Date Expires: November 9, 2021

Issued To:

Rogers Group, Inc. – Lawrenceburg Asphalt

Installation Address:

2690 Waynesboro Highway,
US Hwy 64 West
Lawrenceburg

Installation Description:

04: Batch Mix Asphalt Plant with Baghouse Control and
Asphalt Regrind Circuit

05: One (1) Internal Combustion Diesel Engine
Powering a Generator

06: Portable Wheel-Mounted RAP Screening Unit
Powered by Exempt Diesel Engine

Emission Source Reference No.
50-0035

CONDITIONAL MAJOR

NSPS Subpart I & Subpart OOO

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

GENERAL CONDITION:

1. The application that was utilized in the preparation of this permit is dated March 28, 2011, and signed by Van Medlock, Environmental Manager of the permitted facility. The application that was utilized in the preparation of this permit amendment is dated June 30, 2016, and is signed by Erik Knowles, Senior Environmental Engineer of the permitted facility. If this person terminates employment or is assigned different duties and is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.



TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON TRANSFERABLE

POST AT INSTALLATION ADDRESS

SECTION I: The following conditions shall apply to all sections of this permit unless otherwise noted.

2. The permittee has elected to opt-out of being issued a major source operating permit pursuant to Rule 1200-03-09-.02(11)(a) of the Tennessee Air Pollution Control Regulations (TAPCR). The permittee would be considered a major source because their “potential to emit” for Sulfur Dioxide (SO₂), Oxides of Nitrogen (NO_x), and Carbon Monoxide (CO) was greater than 100 tons per year each at the time of application. The permittee has agreed to be subject to limitations in order to be below the major source applicability threshold for Sulfur Dioxide, Oxides of Nitrogen, and Carbon Monoxide of 100 tons per year each.
3. Any non-compliance with any condition(s) of this permit set to restrain the “potential to emit” below the applicability thresholds of 1200-03-09-.02(11) of the Tennessee Air Pollution Control Regulations shall be reported in writing to the Technical Secretary within fifteen (15) working days of such discovery. This notification, at a minimum, shall include the identification of the source, identification of the permit condition(s) violated, and details of the violation.
4. The permittee is placed on notice that **Conditions 16, 17, 27, and 28** of this permit contain limitations that allow the permittee to opt-out of the major source operating permit program requirements specified in Division Rule 1200-03-09-.02(11). Failure to abide by these limits will not only subject the permittee to enforcement action by the State of Tennessee, but it may also result in the imposition of Federal enforcement action by the United States Environmental Protection Agency and the loss of being federally recognized as a conditional major source.
5. Compliance with **Conditions 16, 17, 27, and 28** assures that this facility will be below the major source applicability threshold for Sulfur Dioxide (SO₂), Oxides of Nitrogen (NO_x), and Carbon Monoxide (CO) of 100 tons per year each.

This assurance is based on AP-42 Chapter 11, Section 1 (Hot Mix Asphalt Plants, dated March 2004) from which the emission factors were used to calculate emissions as shown below:

Parameter	Based on use of Waste Oil as fuel; Batch Mix Plant			
	AP-42 Table	Emission Factor, lb/ton	Emissions without limiting conditions, ton/yr	Emissions with limiting conditions, ton/yr
SO ₂	11.1-5	0.088	123.3	17.6
CO	11.1-5	0.40	560.6	80.0
NO _x	11.1-5	0.12	168.2	24.0

6. A written report stating the compliance status of this facility with **Conditions 16, 17, 27, and 28** shall be submitted by March 31 of every year. This report shall include the records required by **Conditions 25 and 29** for the previous calendar year. This report shall be submitted to the Environmental Field Office at the following address:

Air Pollution Control Field Office Manager
Columbia Environmental Field Office
1421 Hampshire Pike
Columbia, TN 38401

OR

PDF Copy via email to:
APC.ColuEFO@tn.gov

7. Should proof of compliance for the pollutant(s) with emission limitations placed on this permit be required, the emissions measuring test method(s) and procedure(s) are the following:

Pollutant or Parameter	Testing Methodology
Sulfur Dioxide	EPA Method 6 as published in the current 40 CFR 60, Appendix A
Particulate Matter	EPA Method 5 as published in the current 40 CFR 60, Appendix A
Carbon Monoxide	EPA Method 10 as published in the current 40 CFR 60, Appendix A
Oxides of Nitrogen	EPA Method 7 as published in the current 40 CFR 60, Appendix A
Volatile Organic Compounds	EPA Method 25A as published in the current 40 CFR 60, Appendix A

8. Visible emissions from roads and parking areas shall not exhibit greater than 10 percent opacity utilizing Tennessee Visible Emissions Evaluation (TVEE) Method 1. This condition is established pursuant to Rule 1200-03-08-.01(1) of the Tennessee Air Pollution Control Regulations.

9. Fugitive emissions from this facility shall be controlled as specified in Rule 1200-03-08-.01. Specifically, no person shall cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five (5) minutes per hour or twenty (20) minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in Chapter 1200-03-20. Fugitive emissions from this facility shall be determined by Tennessee Visible Emissions Evaluation Method 4. This condition is established pursuant to Rule 1200-03-08-.01(2) of the Tennessee Air Pollution Control Regulations.
10. Unless otherwise noted, visible emissions from this facility not covered by **Conditions 8, 9, 23, 40, and 41** shall not exhibit greater than twenty percent (20%) opacity, except for one (1) six-minute period in any one (1) hour period and for no more than four (4) six-minute periods in any twenty-four (24) hour period. Visible emissions from this facility shall be determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A. (6 minute average). This condition is established pursuant to Rule 1200-03-05-.03(6) of the Tennessee Air Pollution Control Regulations.
11. Routine maintenance, as required to maintain specified emission limits, shall be performed on the air pollution control devices. Maintenance records shall be recorded in a suitable permanent form and kept available for inspection by the Division. These records must be retained for a period of not less than five (5) years.
12. The source(s) controlled by the air pollution control device(s) shall not operate unless the control device(s) is in operation. In the event a malfunction/failure of a control device(s) occurs, the operation of the process(es) controlled by the control device(s) shall be regulated by the provisions of Chapter 1200-03-20 of the Tennessee Air Pollution Control Regulations.
13. This permit is valid only at this location.
14. The issuance of this permit supersedes any permit(s) previously issued for this air contaminant source.
15. The permittee shall apply for a renewal of this permit not less than sixty (60) days prior to the permit's expiration date pursuant to Division Rule 1200-03-09-.02(3).

SECTION II: SOURCE SPECIFIC CONDITIONS

**50-0035-04: 320 ton/hr Batch Mix Asphalt Plant with Baghouse Control, NSPS, and Asphalt Recycle Circuit.
Conditions 16 – 25 apply to Source 50-0035-04.**

16. Only natural gas and fuel oil (up to and including #4) shall be used as fuels for the asphalt plant.
17. Production rate for this source shall not exceed 400,000 tons during all intervals of twelve (12) consecutive months. Compliance with this requirement shall be indicated by the records required by **Condition 25**.

This emission limitation is established pursuant to Rule 1200-03-09-.02(11)(a) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated November 4, 2009 from the permittee.
18. Particulate Matter (TSP) emitted from this source shall not exceed 0.04 grain per dry standard cubic foot of stack gases (11.8 pounds per hour and 7.37 tons per year). TAPCR 1200-03-16-.08(3)(a).
19. Carbon Monoxide (CO) emitted from this source shall not exceed 128.0 pounds per hour and 80.0 tons per year. TAPCR 1200-03-07-.07(2).
20. Sulfur Dioxide (SO₂) emitted from this source shall not exceed 28.2 pounds per hour and 17.6 tons per year. TAPCR 1200-03-14-.03(5).
21. Oxides of Nitrogen (NO_x) emitted from this source shall not exceed 38.4 pounds per hour and 24.0 tons per year. TAPCR 1200-03-07-.07(2).
22. Volatile Organic Compounds (VOC) emitted from this source shall not exceed 2.62 pounds per hour and 1.64 tons per year. TAPCR 1200-03-07-.07(2).
23. Visible emissions from Source 04 shall not exhibit twenty percent (20%) opacity, or greater, as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A (six-minute average). 40 CFR §60.92(a)(2)

24. Compliance with the emission limits in **Conditions 18, 19, 20, 21, and 22** is based on compliance with **Conditions 16 and 17** of this permit and AP-42, Chapter 11, Section 1, emission factors.
25. The permittee shall maintain a record of the type of fuel used (natural gas and #2, #3, or #4 fuel oil), and asphalt production at this source, in a form that readily provides the information required in the following tables. All monthly data, including all required calculations, must be entered in the log no later than thirty (30) days from the end of the month for which the data is required. All daily data, including all required calculations, must be entered into the log no later than seven (7) days from the end of the day for which the data is required. The permittee shall retain this record at the source location for a period of not less than five (5) years and keep this record available for inspection by the Technical Secretary or their representative.

MONTHLY LOG: Source 50-0035-04

Date	Type of Fuel Used	Production (tons)	Production Rate (tons/month)	Date	Type of Fuel Used	Production (tons)	Production Rate (tons/month)
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16							
Totals for the month of _____, 20__							

YEARLY LOG: Source 50-0035-04

Month	Production (tons)	Production (tons/12 consecutive months)	Month	Production (tons)	Production (tons/12 consecutive months)
January			July		
February			August		
March			September		
April			October		
May			November		
June			December		

The Tons per 12 consecutive month value is the sum of the Production (in tons) in the 11 months preceding the month just completed + the Production (in tons) in the month just completed. If data is not available for the 11 months preceding the initial use of this table, this value will be equal to the value for "Production".

50-0035-05: Internal Combustion Diesel Engine Powering a Generator (2,127 hp). Conditions 26 – 35 apply to Source 50-0035-05

26. The maximum power output capacity for the internal combustion diesel engine shall not exceed 2,127 horsepower (hp). Any increase in this limit will require a construction permit.
27. Only No. 2 fuel oil and diesel fuel shall be used as fuels for this engine.
28. Operating hours for this source shall not exceed 2,000 hours per year.

This limit is established pursuant to TAPCR 1200-03-09-.02(11) and the information contained in the agreement letter dated November 4, 2009, from the permittee. Compliance with this limit is assured by the records required by **Condition 29**.

29. A log with hours of operation must be maintained at the source location. The log must be in a form that readily shows compliance with **Condition 28** of this permit. The permittee shall calculate the total hours for each month and current year. (See example below) This log must be maintained at the source location and kept available for inspection by the Technical Secretary or a Division representative. This log must be retained for a period of not less than five (5) years. All data, including all required calculations, must be entered in the log no later than thirty (30) days from the end of the month for which the data is required.

Monthly Log for Operation		Month _____
Day of the Month	Operating time (hours/day)	
		Total: _____

Yearly Log for Operation		Year _____
Month	Operating time (hours/month)	
		Total: _____

30. Nitrogen oxides (NO_x) emitted from this source shall not exceed 65.9 pounds per hour and 16.5 tons per year. TAPCR 1200-03-07-.07(2)
31. Particulate matter (PM) emitted from this source shall not exceed 0.481 pound per million British thermal units of heat input (7.2 pounds per hour and 1.8 tons per year). TAPCR 1200-03-06-.02(2)
32. Sulfur dioxide (SO₂) emitted from this source shall not exceed 4.4 pounds per hour and 1.1 tons per year. TAPCR 1200-03-14-.03(5)
33. Carbon monoxide (CO) emitted from this source shall not exceed 14.5 pounds per hour and 3.6 tons per year. TAPCR 1200-03-07-.07(2)
34. Volatile organic compounds (VOC) emitted from this source shall not exceed 6.2 pounds per hour and 1.5 tons per year. TAPCR 1200-03-07-.07(2)
35. Compliance with the emission limits in **Conditions 30, 31, 32, 33, and 34** is based on compliance with **Conditions 26, 27, 28, and 29** of this permit.

50-0035-06: 200 tons/hr Portable RAP Screening Unit with exempt diesel engine. Conditions 36 – 44 apply to Source 50-0035-06.

36. The total stated design input capacity for the portable reclaimed asphalt pavement (RAP) screening unit is 200 tons per hour on a daily average basis. The Technical Secretary may require the permittee to demonstrate compliance with this rate. TAPCR 1200-03-09-.02(6) and the application dated June 30, 2016
37. Particulate matter (TSP) emitted from the portable RAP screening unit shall not exceed 40.4 pounds per hour and 20.2 tons per year, on a daily average basis. TAPCR 1200-03-07-.03(1)
38. The operating time for this portable RAP screening unit shall not exceed 1,000 hours per calendar year.
39. The engine that powers the mobile unit is a non-road engine and exempt from regulations as long as the engine does not remain at the same location for more than 12-consecutive months. The permittee must maintain records that show compliance with the definition of a non-road engine. 40 CFR §1068.30

This emission limitation is established pursuant to Rule 1200-03-26-.02(6)(b) of the Tennessee Air Pollution Control Regulations and the information contained in the agreement letter dated February 27, 2015 from the permittee. The permittee has requested this limit in order to reduce emission fees.

40. The portable RAP screening unit is self-contained pieces of equipment that is comprised of several components that are considered being affected facilities subject to 40 CFR Part 60, Subpart OOO for which construction, modification, or reconstruction commenced after August 31, 1983, but before April 22, 2008. Fugitive visible emissions from the screens and conveyors shall not exceed ten percent (10%) opacity. The opacity is to be determined by EPA Method 9, as published in the current 40 CFR Part 60, Appendix A (six-minute average). 40 CFR §60.672(b)
41. For affected facilities that commence construction, modification, or reconstruction after April 22, 2008, fugitive visible emissions from screens, conveyors, and any other affected facilities (as defined by 40 CFR §60.670 and 60.671) shall not exceed seven percent (7%) opacity. The opacity is to be determined by EPA Method 9, as published in the current 40 CFR Part 60, Appendix A (six-minute average). 40 CFR §60.672(b)
42. A log of the operating hours for the mobile unit, in a form that readily shows compliance with **Condition 38**, shall be maintained at the source location and kept available for inspection by the Technical Secretary or their representative. Daily data, including all required calculations, must be entered in the log no later than seven (7) days from the end of the day for which the data is required. Monthly data, including all required calculations, must be entered in the log no later than thirty (30) days from the end of the month for which the data is required. This log must be retained for a period of not less than two (2) years.

DAILY OPERATING HOURS LOG FOR THE MONTH OF _____, 20____

(Fill out one copy of this table for each mobile unit)

Date	Operating Hours	Date	Operating Hours	Date	Operating Hours
1		12		23	
2		13		24	
3		14		25	
4		15		26	
5		16		27	
6		17		28	
7		18		29	
8		19		30	
9		20		31	
10		21			
11		22			
Total operating hours for the month of _____, 20____					

MONTHLY OPERATING HOURS LOG FOR THE YEAR 20____

(Fill out one copy of this table for each mobile unit)

Month	Operating Hours
January	
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	
Total operating hours for the year 20____	

TAPCR 1200-03-10-.02(2)(a)

43. The owner or operator of any affected facility for which the construction, modification, or reconstruction commenced on or after April 22, 2008, that uses wet suppression to control emissions from the affected facility must perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The owner or operator must initiate corrective action within twenty-four (24) hours and complete corrective action as expediently as practical if the owner or operator finds that water is not flowing properly during an inspection of the water spray nozzles. The owner or operator must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Technical Secretary or their representative upon request.

If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the 5-year repeat testing requirement specified in **Condition 44(b)** provided that the affected facility meets the following criteria:

- (i) The owner or operator conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility, as required by this condition.
- (ii) The owner or operator designates which upstream water spray(s) will be periodically inspected at the time of the initial performance test required by **Condition 44(a)**.

If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry must specify the control mechanism being used instead of the water sprays. 40 CFR §60.674(b) and 40 CFR §60.676(b)

44. So long as the components of the portable unit (i.e. affected facilities under 40 CFR Part 60, Subpart OOO) remain unchanged, a single opacity performance test for the portable unit will suffice for all locations at which the portable unit will operate provided that records demonstrating that the required performance test has been conducted are available at each location at which the portable unit will operate.
- (a) Within 60 days after achieving the maximum production rate at which the portable unit will be operated, but no later than 180 days after initial start-up of the portable unit, the owner or operator shall furnish the Technical Secretary a written report of the results of a visible emissions evaluation which will demonstrate compliance with the opacity standard(s) as specified in **Conditions 40 and 41** of this permit. At least seven (7) days prior to this evaluation, the Division's Compliance Validation Program ((615) 532-0554) shall be contacted for visible emission points identification.
 - (b) For fugitive emissions from affected facilities without water sprays for which construction, modification, or reconstruction commenced on or after April 22, 2008, the owner or operator must demonstrate compliance with the limits of Subpart OOO by conducting a repeat performance test according to §60.11 and §60.675 within five (5) years of the previous performance test. Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in §60.674(b) and §60.676(b) are exempt from this 5-year repeat testing requirement.

TAPCR 1200-03-10-.01 and 40 CFR §60.672(b)

(END OF CONDITIONS)

Amendment #1: The company requested to add Source 06 to their current conditional major operating permit with the application dated June 30, 2016.

Amendment #2: NSPS opacity standard for asphalt plants added in Condition 23 per request from the Columbia Environmental Field Office on August 19, 2016 and added appropriate recordkeeping and references to RAP unit.

Amendment #3: Remove Source 04 records from the conditional major reporting in Condition 6 per letter dated January 30, 2017, from the permittee.