



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: August 2, 2016
Revision Date: October 7, 2019
Revision Type: Modification

Effective Date: October 7, 2019
Expiration Date: [REDACTED]

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 43-00196

Federal Tax Id - Plant Code: 83-0598308-2

Owner Information

Name: WABTEC US RAIL INC (DBA GE TRANSPORTATION, A WABTEC CO)
Mailing Address: 1503 W MAIN STREET EXT
GROVE CITY, PA 16127-2513

Plant Information

Plant: GE TRANS GROVE CITY ENGINE
Location: 43 Mercer County 43931 Pine Township
SIC Code: 3519 Manufacturing - Internal Combustion Engines, Nec

Responsible Official

Name: JOHN SINGLETON
Title: EXEC SHOP OPERATIONS
Phone (724) 450 - 8101

Permit Contact Person

Name: ZAMBIA LOGERO
Title: EHS MANAGER
Phone: (724) 450 - 8432

[Signature]

ERIC A. GUSTAFSON, NORTHWEST REGION AIR PROGRAM MANAGER

Readacted permit showing RACT II SIP
Provisions from Title V Permit #
43-00196 issued October 7, 2019.

**SECTION A. Table of Contents**

Pages 2-39, 41, 43, 45, 47, 50-57, 60-76, and 83-107 are redacted entirely.

**SECTION D. Source Level Requirements**

Source ID: 132A

Source Name: DIESEL ENGINE TEST CELL 1

Source Capacity/Throughput: 253.900 Gal/HR DIESEL

Conditions for this source occur in the following groups: 03 - TEST CELLS 1 THROUGH 4
04 - TEST CELLS 1 THROUGH 5
05 - ALL TEST CELLS
09 - RACT RECORDKEEPING

**I. RESTRICTIONS.****Emission Restriction(s).**

001

Operating permit terms and conditions.

The NO_x emissions from Source 132A shall not exceed 413 tons per 12 consecutive month rolling period.

[From Condition # 3 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

Throughput Restriction(s).

002

Operating permit terms and conditions.

Fuel consumption in Source 132A shall not exceed 2,007,537 gallons per 12 consecutive month rolling period.

[From Condition # 3 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

**SECTION D. Source Level Requirements**

Source ID: 132B

Source Name: DIESEL ENGINE TEST CELL 2

Source Capacity/Throughput: 253.900 Gal/HR DIESEL

Conditions for this source occur in the following groups: 03 - TEST CELLS 1 THROUGH 4
04 - TEST CELLS 1 THROUGH 5
05 - ALL TEST CELLS
09 - RACT RECORDKEEPING

**I. RESTRICTIONS.****Emission Restriction(s).**

001

Operating permit terms and conditions.

The NO_x emissions from Source 132B shall not exceed 413 tons per 12 consecutive month rolling period.

[From Condition # 4 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

Throughput Restriction(s).

002

Operating permit terms and conditions.

Fuel consumption in Source 132B shall not exceed 2,007,537 gallons per 12 consecutive month rolling period.

[From Condition # 4 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

**SECTION D. Source Level Requirements**

Source ID: 132C

Source Name: DIESEL ENGINE TEST CELL 3

Source Capacity/Throughput: 253.900 Gal/HR DIESEL

Conditions for this source occur in the following groups: 03 - TEST CELLS 1 THROUGH 4
04 - TEST CELLS 1 THROUGH 5
05 - ALL TEST CELLS
09 - RACT RECORDKEEPING

**I. RESTRICTIONS.****Emission Restriction(s).**

001

Operating permit terms and conditions.

The NO_x emissions from Source 132C shall not exceed 435 tons per 12 consecutive month rolling period.

[From Condition # 5 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

Throughput Restriction(s).

002

Operating permit terms and conditions.

Fuel consumption in Source 132C shall not exceed 1,829,089 gallons per 12 consecutive month rolling period.

[From Condition # 5 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

**SECTION D. Source Level Requirements**

Source ID: 132D

Source Name: DIESEL ENGINE TEST CELL 4

Source Capacity/Throughput: 307.000 Gal/HR DIESEL

Conditions for this source occur in the following groups: 03 - TEST CELLS 1 THROUGH 4
04 - TEST CELLS 1 THROUGH 5
05 - ALL TEST CELLS
09 - RACT RECORDKEEPING

**I. RESTRICTIONS.****Emission Restriction(s).**

001

Operating permit terms and conditions.

The NOx emissions from Source 132D shall not exceed 450.25 tons per 12 consecutive month rolling period.

[From Condition # 6 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

Throughput Restriction(s).

002

Operating permit terms and conditions.

Fuel consumption in Source 132D shall not exceed 2,319,458 gallons per 12 consecutive month rolling period.

[From Condition # 6 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

**SECTION D. Source Level Requirements**

Source ID: 132E

Source Name: DIESEL ENGINE TEST CELL 5

Source Capacity/Throughput: 380.000 Gal/HR DIESEL

Conditions for this source occur in the following groups: 04 - TEST CELLS 1 THROUGH 5
05 - ALL TEST CELLS
06 - FIVE YEAR TEST
09 - RACT RECORDKEEPING

**I. RESTRICTIONS.****Emission Restriction(s).**

001

Plan approval terms and conditions.

(a) The following air contaminant emission limits are approved for the test cell.

(1) The company shall limit the emissions of nitrogen oxides (calculated as NO₂) to 36.88 tons, or less, in any 12 consecutive month rolling period.

**SECTION D. Source Level Requirements**

[REDACTED] Condition (a)(1) is also from Condition # 9 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

Throughput Restriction(s).**# 003****Plan approval terms and conditions.**

The company shall limit the amount of fuel combusted in this test cell to 478,180 gallons in a 12 month rolling period.

[REDACTED] This condition is also from Condition # 7 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

**SECTION D. Source Level Requirements**

Source ID: 140

Source Name: CLEANING OPERATIONS

Source Capacity/Throughput: 4.000 Lbs/HR CLEANING SOLVENTS

Conditions for this source occur in the following groups: 09 - RACT RECORDKEEPING

PROC 140	➔	STAC S140
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I. RESTRICTIONS.**Emission Restriction(s).**

001

Operating permit terms and conditions.

(a) The VOC emissions from this source (as described in the Miscellaneous section of this permit) shall not exceed 16 tons in any 12 consecutive month period.

(b) The emissions shall be calculated based on mass balance accounting for all VOC containing materials.

[Compliance with this operating permit condition is also derived from and assures compliance with the June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal for Source 140, Cleaning Operations.]

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The facility shall keep records of the quantities of VOC containing materials used in this source.

(b) The records shall be maintained on a monthly basis using purchasing or usage file documents and indicate the VOC emissions from the source on a 12-month rolling total.

(c) The records shall be kept on-site for a minimum of 5 years and forwarded to the Department upon request.

[Compliance with this operating permit condition is also derived from and assures compliance with the June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal for Source 140, Cleaning Operations.]

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Good housekeeping and work practices shall be used to minimize spillage.

[Compliance with this operating permit condition is also derived from and assures compliance with the June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal for Source 140, Cleaning Operations.]

VII. ADDITIONAL REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

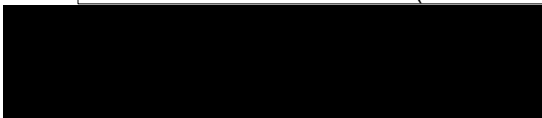
For the purposes of the June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal for Source 140, this source consisted of the following emission points at the time of the § 129.96 RACT II applicability date of July 20, 2012.

- S21 FDL Steam Booth A-27
- Z01 Evo Steam Booth A-19
- S22 Frame Tank A-17
- S23 UX Steam Booth A-15
- S24 Proceco Washer A-14
- S28 E-Mark Jet Washer J-31
- S29 Proceco Washer G-32
- S30 Hurricane Washer R-43
- S32 Turbo Line Steam Booth E-41 -- The original steam booth was replaced with a new booth at location E-41 in 2018.

The new booth with a stack designation of S36 was RFD approved on Dec. 14, 2014, and is not subject to the provision of RACT II because it was installed after the § 129.96 applicability date of July 20, 2012.

• S33 Intex Tank E-41 -- This vented cleaning tank was removed from the facility and not replaced. [Ref. Sept. 28, 2018, Application for TV mod.]

- S34 Two Open Top Tanks K-41
- S35 Frame Washer C-27 (added January 2013).
- S36 Crank Washer B-26 (added March 2013).



**SECTION E. Source Group Restrictions.**

Group Name: 03 - TEST CELLS 1 THROUGH 4

Group Description: RACT & Plan approval Restrictions & Requirements applicable to Test Cells 1, 2, 3, and 4

Sources included in this group

ID	Name
132A	DIESEL ENGINE TEST CELL 1
132B	DIESEL ENGINE TEST CELL 2
132C	DIESEL ENGINE TEST CELL 3
132D	DIESEL ENGINE TEST CELL 4

I. RESTRICTIONS.**Emission Restriction(s).**

001 [REDACTED]

Plan approval terms and conditions.

The NO_x emissions shall be restricted to 450.25 tpy based on a 12 consecutive month rolling total for Diesel Engine Test Cells 1 - 4.

[This condition is also from and assures compliance with Condition # 8 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

002 [REDACTED]

Operating permit terms and conditions.

(a) The NO_x emissions shall not exceed 422.15 lb/hr based on a 30-consecutive calendar day rolling average for Diesel Engine Test Cells 1 – 4 combined.

(b) The 30-day rolling average emission rate shall be expressed in pounds per hour and calculated in accordance with the following procedure:

(1) Sum the total pounds of pollutants emitted from test cells 1 – 4 for the current operating day and the previous 29 operating days.

(2) Sum the total hours of operation for test cells 1 – 4 for the current operating day and the previous 29 operating days.

(3) Divide the total number of pounds of pollutants emitted by test cells 1 – 4 for the 30 operating days by the total hours of operation of test cells 1 – 4 for the 30 operating days.

(c) A 30-day rolling average emission rate shall be calculated for each consecutive operating day.

(d) Each 30-day rolling average emission rate for an affected air contamination source must include the emissions that occur during the entire operating day, including emissions from start-ups, shutdowns, and malfunctions.

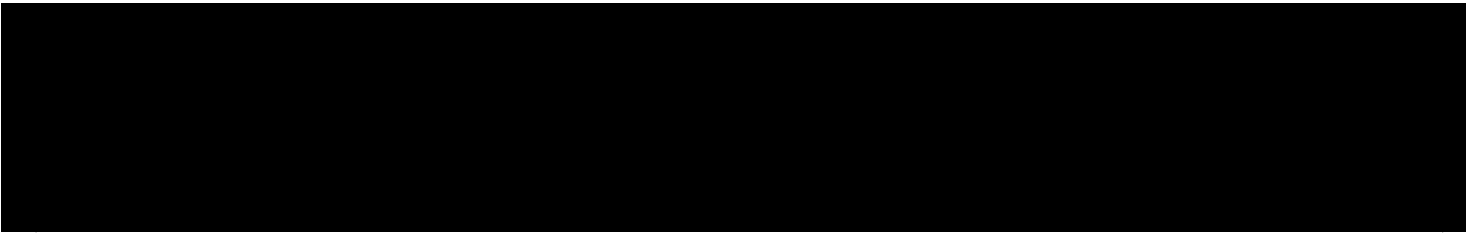
[This condition is from Condition # 10 of the Department's June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

Throughput Restriction(s).

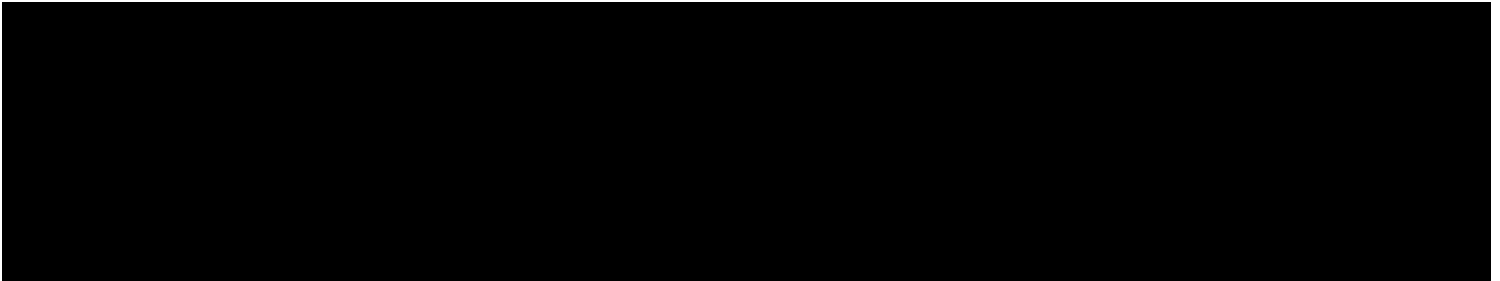
003 [REDACTED]

Plan approval terms and conditions.

Fuel consumption shall not exceed 2,319,458 gal/yr based on a 12 consecutive month rolling total for Diesel Engine Test Cells 1 - 4.

**SECTION E. Source Group Restrictions.**

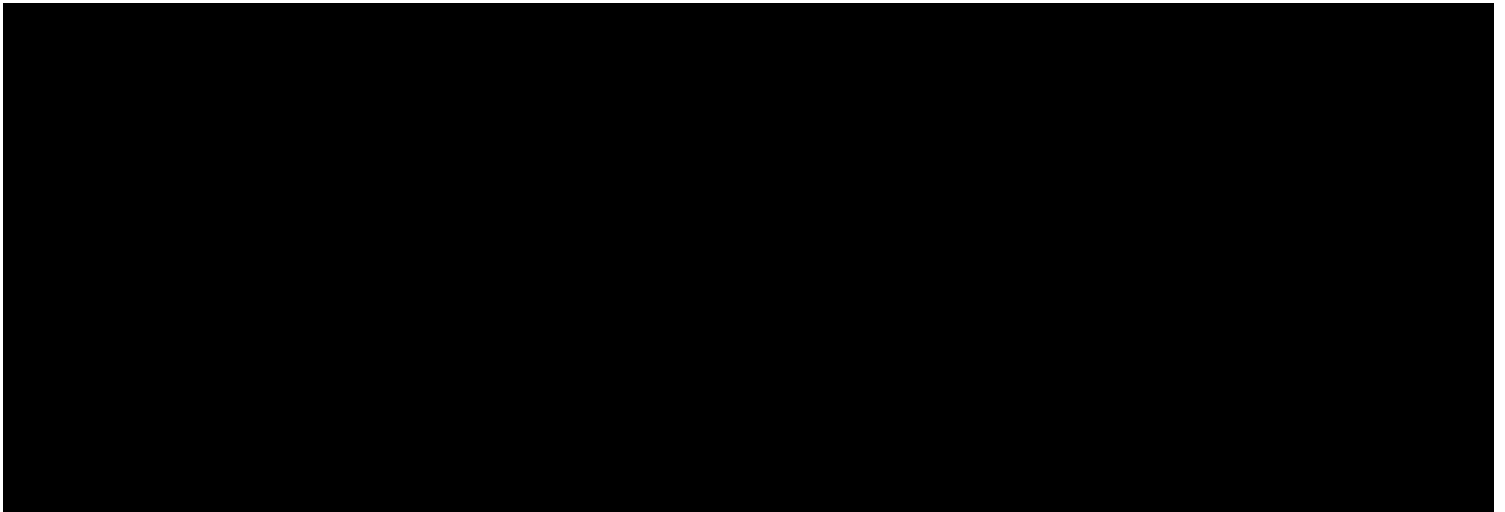
[This condition is also derived from and assures compliance with Condition # 9 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

**IV. RECORDKEEPING REQUIREMENTS.****# 004** **Operating permit terms and conditions.**

The permittee shall calculate the following information monthly:

- (a) [Reserved]
- (b) NO_x emissions (lb/hr) based on a rolling 30-day average;
- (c) [Reserved]

[From Condition 13(b) of the June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal for Test Cells 1 through 4.]



**SECTION E. Source Group Restrictions.**

Group Name: 04 - TEST CELLS 1 THROUGH 5

Group Description: RACT & Plan approval Requirements applicable to Test Cells 1, 2, 3, 4, and 5

Sources included in this group

ID	Name
132A	DIESEL ENGINE TEST CELL 1
132B	DIESEL ENGINE TEST CELL 2
132C	DIESEL ENGINE TEST CELL 3
132D	DIESEL ENGINE TEST CELL 4
132E	DIESEL ENGINE TEST CELL 5

II. TESTING REQUIREMENTS.

001 [REDACTED]

Plan approval terms and conditions.

(a) The facility shall conduct a source test in accordance with 25 Pa. Code Chapter 139 (relating to sampling and testing methods and procedures) on:

- (1) Any new engine type within 90 days of the manufacturing and testing; and
- (2) A single engine that is not certified by U.S. EPA and/or subject to U.S. EPA emissions standards at least once per permit term.

(b) At least 90 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department's Division of Source Testing and Monitoring and two copies to the appropriate Regional Office Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(c) Within 60 days of the approval of the test protocol, stack emission test will be conducted in accordance with the preapproved test protocol to determine compliance with the NOx emission limit.

(d) The permittee shall notify the Department at least 2 weeks prior to the test.

[This condition is derived from and assures compliance with the following:

- Condition # 11 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal;

IV. RECORDKEEPING REQUIREMENTS.

002 [REDACTED]

Plan approval terms and conditions.

The permittee shall record the following and make available to Department personnel upon request:

- (1) Engine production volume each month;
- (2) Type and horsepower rating of engines tested each month;
- (3) Fuel consumption of engines tested each month; and
- (4) NOx emission factors derived from testing done in compliance with the Testing Requirement in this section of the permit.

[This condition is derived from and assures compliance with the following:

**SECTION E. Source Group Restrictions.**

• Condition # 12 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal.]

003 [REDACTED]

Operating permit terms and conditions.

The permittee shall calculate the following information monthly:

- (a) NO_x and VOC emissions (tpy) based on a 12-consecutive month rolling period;
- (b) [Reserved]
- (c) Fuel consumption based on a 12-consecutive month rolling period.

[From Conditions 13(a) and 13(c) of June 21, 2018, approval of 25 Pa. Code § 129.99 alternative case-by-case RACT II proposal for Test Cells 1 through 5.]

007 [REDACTED]

Alternative RACT proposal and petition for alternative compliance schedule.

[From 25 Pa. Code § 129.99(g)]

**SECTION E. Source Group Restrictions.**

In accordance with §129.99(g), the emission limit and requirements specified in the plan approval or operating permit issued by the Department or appropriate approved local air pollution control agency under subsection (f) supersede the emission limit and requirements in the existing plan approval or operating permit issued to the owner or operator of the source prior to April 23, 2016, on the date specified in the plan approval or operating permit issued by the Department or appropriate approved local air pollution control agency under subsection (f), except to the extent the existing plan approval or operating permit contains more stringent requirements.

[Also from Condition # 14 of June 21, 2018, approval of 25 Pa. Code § 129.99 alternate case-by-case RACT II proposal.]



**SECTION E. Source Group Restrictions.**

Group Name: 05 - ALL TEST CELLS

Group Description: General Conditions applicable to Test Cells 1, 2, 3, 4, 5, and 6

Sources included in this group

ID	Name
132A	DIESEL ENGINE TEST CELL 1
132B	DIESEL ENGINE TEST CELL 2
132C	DIESEL ENGINE TEST CELL 3
132D	DIESEL ENGINE TEST CELL 4
132E	DIESEL ENGINE TEST CELL 5
132F	DIESEL ENGINE TEST CELL 6

IV. RECORDKEEPING REQUIREMENTS.

003

Plan approval terms and conditions.

All records to demonstrate compliance with the conditions of this permit shall be maintained for a minimum of 5 years and shall be made available to the Department upon request.

[Compliance with this operating permit condition for all test cells assures compliance with the following regulations and plan approval conditions:

• 25 Pa. Code § 129.100(i) for Test Cells 1 through 5.]